ARMY EQUIPMENT DATA SHEETS
AMMUNITION PECULIAR EQUIPMENT (APE)

TM 43-0001-47, 22 December 1993, is changed as follows:

1. Remove old pages and insert new pages as indicated below. New or changed material is indicated by a vertical bar in the margin of the page. Added or revised illustrations are indicated by a vertical bar adjacent to the identification number.

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2. File this change sheet in front of the publication for reference purposes.

By Order of the Secretary of the Army:

GORDON R. SULLIVAN
General, United States Army
Chief of Staff

Official:

Acting Administrative Assistant to the Secretary of the Army

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REPORTING ERRORS AND RECOMMENDING IMPROVEMENTS

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*This manual supersedes TM 43-0001-47, 1 May 1989.
CHAPTER 1
INTRODUCTION

a. This manual is a reference published as an aid in training, familiarization, and identification of ammunition peculiar equipment (FSC 4925). There are no National Stock Numbers (NSN) for APE. They are identified by an Ammunition Peculiar Equipment (APE) Management Number (AMN) and are supplied by the Commander, U.S. Army Armament, Munitions and Chemical Command, ATTN: AMSMC-DSM-M, Rock Island, IL 61299-6000, to all authorized recipients.

b. The APE AMN consists of 4925 Federal Stock Class, AA special identifier, 1001 four digit APE Number, and 0000 end item, A001 major assemblies, E001 accessory kits, or 0001 components. An example of an APE 1001 end item would be AMN 4925-AA-10010000. Accessory kits are not normally supplied with end items. This manual is not to be used as authorization for requisitioning, stockage, maintenance, or issue of the materiel described herein.

CHAPTER 2
DATA SHEETS

The following Data Sheets are for those APE that are approved and used during regular daily ammunition operations to renovate, perform surveillance, demilitarize, and perform preservation and packaging functions. The data provided on each data sheet consists of equipment used, a brief description, difference between models, tabulated data, associated equipment, and available kits. Illustrations provided are for identification.

WARNING
ANY EXPLOSIVE CONTAMINATE ON MUST BE REMOVED FROM APE PRIOR TO CRATING AND SHIPMENT IAW DIRECTIVES IN DOD 5160.65-M AND PROCEDURES CONTAINED IN TB 700-4. EQUIPMENT WILL BE CERTIFIED FREE OF EXPLOSIVES AND TAGGED WITH DD FORM 2271. DECONTAMINATION IS NECESSARY TO PRECLUDE EXCLUSIVE HAZARDS.
Use:
The vertical pull apart machine is a semi-automatic multipurpose machine used for processing 37MM through 106MM fixed artillery ammunition, Navy ammunition, 76MM/62, 3"/50, 5"/38, 5"/54, 6"/47 and rocket motors. It performs the following operations:

a. Separate projectile from cartridge case.

b. Assemble projectile to cartridge case.

Description:
APE 1001M1 is constructed with a base plate, operating table, three bolster rods, vise assembly, pull cylinder, and fulcrum arm assembly. The machine is powered by air. The operational shield is supplied with an installed deluge system to protect the operator.
Difference Between Models:
APE 1001M1 is the only approved configuration.

Tabulated Data:
APE No. ................. 10010000M1
Unit of Issue ............ Each

Installation Data:
BASIC MACHINE:
Length .................... 60 in.
Width ...................... 36 in.
Height ..................... 62-1/2 in.
Weight .................... 2010 lbs

OPERATIONAL SHIELD:
Length .................... 60 in.
Width ...................... 50 in.
Height ..................... 84 in.
Weight .................... 3320 lbs

Utilities Required:
Air at 100 psi and 130 cfm.

Production Capacity:
Varies with type of operation being performed.

Shipping Data:
BASIC MACHINE:
Length .................... 66 in.
Width ...................... 42 in.
Height ..................... 72 in.
Cube ...................... 115.0 cu ft
Weight .................... 2480 lbs

OPERATIONAL SHIELD:
Length .................... 66 in.
Width ...................... 60 in.
Height ..................... 96 in.
Cube ...................... 220.0 cu ft
Weight .................... 4142 lbs

Associated Equipment:
None.

Kits:
1001E005 KIT, Vise jaws & cartridge case shoes for pull apart of 105MM: M323, M325
1001E006 KIT, Pull apart, 105MM: M456
1001E007 KIT, Pull apart and resize 57MM: M306 and M307
1001E009 KIT, Rebuild 12-inch air cylinders
1001E019 KIT, Basic, for pull apart, resize, assembly and crimping of cartridges
1001E020 KIT, Pull apart, 37MM: M54, M59, M63, M92 w/M16 cartridge case
1001E021 KIT, Pull Apart, 37MM: M54, M59, M63, M92 w/M17 Cartridge Case
1001E022 KIT, Pull Apart, 40MM: MK2, MK11, M81, M91
1001E023 KIT, Pull Apart, 57MM: M306, M307, M308
1001E024 KIT, Pull Apart, 57MM: M303
1001E025 KIT, Pull Apart, 75MM: M48, M61, M64, M66, M338
1001E026 KIT, Pull Apart, 75MM: M309, M310, M311
1001E027 KIT, Pull Apart, 75MM: M349
1001E028 KIT, Pull Apart, 75MM: M334
1001E029 KIT, Pull Apart, 76MM: M42, M62, M93, M312, M315
1001E030 KIT, Pull Apart, 76MM: M319, M339, M340, M352, M361
1001E031 KIT, Pull Apart, 90MM: M71, M77, M79, M82, M133, M304, M313, M317, M318, M319, M332, M336, M431, M580
1001E032 KIT, Pull Apart, 105MM: M341
1001E033 KIT, Pull Apart, 105MM: M326
1001E034 KIT, Pull Apart, 105MM: M345
1001E035 KIT, Pull Apart, 106MM: M344
1001E036 KIT, Pull Apart, 106MM: M346, M581
1001E038 KIT, Resize Cartridge Case, 37MM: M16, M17
1001E039 KIT, Resize Cartridge Case, 40MM: M25, MK2
1001E060 KIT, Assembly & Crimp, 37MM w/M16 Cartridge Case
1001E061 KIT, Assembly & Crimp, 37MM w/M17 Cartridge Case
1001E062 KIT, Assembly & Crimp, 40MM: w/M25, MK2 Cartridge Case
1001E063 KIT, Assembly & Crimp, 57MM, w/M23 Cartridge Case
1001E067 KIT, Assembly & Crimp, 76MM, w/M88 or M101 Cartridge Case
1001E069 KIT, Assembly & Crimp, 105MM, w/M32 Cartridge Case
1001E070 KIT, Assembly & Crimp, 105MM, w/M90, M95 Cartridge Cases, and 106MM w/M94 Cartridge Case
1001E073 KIT, Assembly & Crimp, 40MM: MK2
1001E074 KIT, Pull Apart 105MM HEP-T: M393A1, M416 & M494
1001E075 KIT, Pull Apart 90MM: M371
1001E077 KIT, Assembly M392A1, 105MM Projectile to M115B1 Cartridge Case
1001E079 KIT, Resize Cartridge Case, 105MM: M148, M148A1B1, M150
1001E081 KIT, Pull Apart, 37MM & 40MM w/ self-destroying tracer
1001E082 KIT, Pull Apart 66MM: M72 Rocket
1001E087 KIT, Accessory for Pull Apart of 105MM APDS-T, M392, M728 Cartridge
1001E088 KIT, Basic Accessories for Pull Apart of Navy Cartridge 76MM/62 Cal
1001E089 GAGE, VPA Alinement
1001E090 KIT, Pull Apart Navy 3"/50
1001E091 KIT, Deluge w/Shield (not shown)

1001E092 KIT, Resize, Cartridge. Case 6"/47 Propelling Charge
1001E093 KIT, Resize, Cartridge Case, 5"/38 Propelling Charge
1001E094 KIT, Resize, Cartridge Case 5"/54 Propelling Charge
1001E095 KIT, 5"/54, 5"/38, and 6"/47 Propelling Charge Cartridge Case
1001E096 KIT, Base Plate
1001E097 KIT, 2.75-inch Rocket Warhead XM274 Nose Cap and Retainer Removal
1001E098 KIT, 105MM: M360 Projectile Reseating
1001E099 KIT, Flue Roller Cartridge Case Resize
1001E100 KIT, 75MM thru 106MM Cartridge Case Flue Roller Resize
Use:
The two spindle defuzing machine was developed for removing the point detonating or base detonating fuzes from 57mm through 106mm artillery projectiles, Navy ammunition, 3”/50 and 60mm and 81mm mortar projectiles. Its usage has also been expanded to remove base plates, plugs, tracers, from projectiles; disassemble certain projectiles; remove fuzes and plugs from fragment bombs; disassemble rockets; and deboster fuzes.

Description:
APE 1002M3 consists of a steel frame with a vise assembly and retractor head assembly mounted to accommodate two fuzed projectiles at the same time. The retractor heads are chain driven by air motor. The direction of rotation of the retractor heads is controlled by the hand throttle and/or the reversing valve on the air motor.

Difference Between Models:
The APE 1002M2 differs from the APE 1002M1 in that the APE 1002M2 has an air receiver tank, eleven tooth drive sprockets, and an elongated slot in the frame to provide exact adjustment in the vise assembly for the various size projectiles. A two-hand control has been added to the APE 1002M3 for greater operator safety and to comply with OSHA standards.

Tabulated Data:
APE No. .................. 10020000M3
Unit of Issue ............. Each
Installation Data:
Length .................. 46 in.
Width .................. 33 in.
Height .................. 38 in.
Weight .................. 1220 lbs

Utilities Required:
Air at 100 psi and 80 cfm.

Production Capacity:
Depends upon type and condition of ammunition.

Shipping Data:
Length .................. 55 in.
Width .................. 48 in.
Height .................. 48 in.
Cube .................. 73.4 cu ft
Weight .................. 1305 lbs

Associated Equipment:
None.

Kits:
1002E001 KIT, Production Basic
1002E002 KIT, SIMM, Remove BD Fuze
1002E003 KIT, 75MM, Remove BD Fuze
1002E004 KIT, 76MM, Remove BD Fuze
1002E005 KIT, 75MM, Remove PD Fuze (except M334 Projectile)
1002E006 KIT, 75MM: M334, Remove PD Fuze
1002E007 KIT, 76MM, Remove PD Fuze
1002E008 KIT, 90MM, Remove PD Fuze
1002E009 KIT, 105MM, Remove PD Fuze
1002E010 KIT, 90MM, Remove BD Fuze (except T142 Series Projectile)
1002E011 KIT, 90MM, Remove BD Fuze T142 Series Projectile
1002E012 KIT, 105MM, Remove BD M92 Fuze (except T139E45 Projectile)
1002E014 KIT, 60MM Mortar: M49 and M50, Remove Fuze M52, M82, M525, M527
1002E015 KIT, 60MM Mortar: M302, Remove Fuze M52, M82, M525, and M527
1002E016 KIT, 81MM Mortar: M43A1B1, Remove Fuze M52, M82, M525, and M527
1002E017 KIT, 81MM Mortar: M362, Remove Fuze M52, M82, M525, and M527
1002E018 KIT, 81MM Mortar: M362, M374, M375, Remove Fuze M519 and M526, and M524
1002E019 KIT, 20–23 lb Fragment Bomb, Remove Fuze
1002E020 KIT, 20–23 lb Fragment Bomb, Remove Fuzewell Plug
1002E021 KIT, 106MM: M345, Remove Base Plug
1002E022 KIT, 105MM: M84 and 155MM, M116 BE Projectile. Remove Base Plate
1002E023 KIT, 106MM: M344 Projectile, Disassembly
1002E024 KIT, 105MM: M416, Remove Tracer and Base Fuze, M534
1002E030 KIT, Disassemble M10 2.36-Inch Rocket
1002E031 KIT, 57MM: M306A1, Remove M503 Fuze
1002E036 KIT, to Remove M21A4 Booster from 76mm Artillery Projectile
1002E038 KIT, Remove M21A4 Booster from Standard Contour Fuze
1002E039 KIT, Remove Closing Plug 57MM: M307A1 Projectile
1002E041 KIT, Remove Tracer from 40MM: HEI-T, MK2
1002E042 KIT, Defuze 3"/50 Cartridge (Remote Control)
1002E043 KIT, Remove Cartridge Case Locking Ring, 152MM
1002E044 KIT, Remove Projectile Lifting Plug
1002E045 KIT, Disassemble 106MM, M581 APERS-T
1002E046 KIT, Remove Propelling Charge from 4.2 Mortar
1002E047 KIT, Disassemble 60MM Mortar, M720
Use:
The pneumatic lid remover was designed to remove lids from single and double end fiber containers for 40MM through 105MM ammunition (except 105MM HEAT ammunition). It can also be used to remove lids from 120MM fiber containers and closing plugs from 120MM cartridge cases.

Description:
APE 1003M1 is of table type construction with a traveling cylinder and clamp shoe assembly on each end of the table. The clamp shoe assemblies remove the lids when actuated by two button valves and a delay timer. The machine has two safety guards which prevent the operator from inserting more than one container at a time into the machine.

Difference Between Models:
The APE 1003M1 has improved safety features and is capable of removing lids from 120MM fiber containers and removing M2E3 closing plugs from 120MM cartridge cases.
Tabulated Data:
APE No. .................... 10030000M1
Unit of Issue ................. Each

Installation Data:
Length ........................ 124-1/2 in.
Width ................................ 46 in.
Height ............................. 52 in.
Weight ............................ 1422 lbs

Utilities Required:
Air at 100 psi and 100 cfm.

Production Capacity:
360 containers per hour.

Shipping Data:
Length ............................. 131 in.
Width ................................ 51 in.
Height ................................ 62 in.
Cube ................................ 246 tuft
Weight ............................... 1575 lbs

Associated Equipment:
APE 1004, 1088, and 1221.

Kits:
1003E001 KIT, Remove Lids from 40MM through 60MM Fiber Containers
1003E002 KIT, Remove Lids from 75MM through 81MM Fiber Containers
1003E003 KIT, Remove Lids from 90MM through 105MM Fiber Containers (except 105MM HEAT ammunition)
1003E004 KIT, Remove Lids from 120MM Fiber Containers
1003E005 KIT, Remove M2E3 Closing Plug from 120MM Cartridge Case
Use:
The taping machine is used to apply 1-1/4 wraps plus 1 inch and tab of 1-inch to 2-inch tape to fiber containers. The fiber containers range in size from 40MM to 120MM lengths from 14 to 44 inches and diameters of 2-3/8 thru 6-1/4 inches.

Description:
APE 1004M1 consists of two air operated 16-1/2 inch cylinders which operate the drive head assembly and an air cylinder which operates the idler assembly, a fiber kickoff device, a fiber holder assembly, and two tape holders with cutters.

Difference Between Models:
Basic machine drive head rotation provided two wraps of tape to a container. APE 1004M1 version reduced the drive head rotation to 1-1/4 wraps and also include two tape cutters.

Tabulated Data:
APE No. ......................... 10040000M1

Unit of Issue ............... Each
Installation Data:
   Length .................. 80in.
   Width .................... 28in.
   Height .................. 72in.
   Weight .................. Not available
Utilities Required:
   Air at 80 psi and 105 cfm.
Production Capacity:
   386 single end fiber containers per hour. 240 double end fiber containers per hour.

Shipping Data:
   Length .................. 89 in.
   Width .................... 41 in.
   Height .................. 76 in.
   Cube ...................... 160.5 cu ft
   Weight .................. 1160 lbs

Associated Equipment:
APE 1003, 1008, and 1221.

Kits :
None.
Use:
The assembly and crimp machine is used to aline, assemble, and crimp the cartridge case to the projectile. The machine handles 57MM through 106MM ammunition.

Description:
APE 1010M2 consists of a frame with an air cylinder assembly used to position the projectile in the cartridge case, and a crimping assembly. Pneumatic controls are provided to operate the machine.

Difference Between Models:
The APE 1010M2 has a revised parts list and revised operating procedure.

Tabulated Data:
APE No. .................. 10100000M2
Unit of Issue ................ Each
Installation Data:
- Length .................... 82 in.
- Width ...................... 24 in.
- Height ..................... 54 in.
- Weight .................... 1500 lbs
Utilities Required:
  Air at 100 psi and 100 cfm.
Production Capacity:
  240 cartridges per hour.

Shipping Data:
  Length ...................... 89 in.
  Width ........................ 39 in.
  Height ........................ 64 in.
  Cube ........................... 129 cu ft
  Weight ........................ 1795 lbs

Associated Equipment:
  APE 1001.

Kits:
  1010E001 KIT, Assembly and Crimp, 75MM
  1010E003 KIT, Assembly and Crimp, 76MM
  1010E004 KIT, Assembly and Crimp, 90MM
  1010E005 KIT, Assembly and Crimp, 105MM and 106MM
  1010E008 KIT, Assembly and Crimp, 90MM: M371
  1010E009 KIT, Assembly and Crimp, 105MM: M456A1
  1010E010 KIT, Assembly and Crimp, 57MM: M306 and M307
  1010E011 KIT, precrimp 106MM: M94B1
  Cartridge Case
Use:
The backout depriming machine was designed to mechanically remove screw-type primers from cartridge cases. It utilizes a backout method which eliminates the hazard of the primer head being struck during removal.

Description:
APE 1011M5 consists of a table, a flash shield, a cartridge case locking device, a primer housing and collet holder assembly, an air motor, two air cylinders, and the control valves.

Difference Between Models:
Not available.

Tabulated Data:
APE No. 1011M5
Unit of Issue Each
Installation Data:
Length 70 in.
Width 20 in.
Height 50 in.

Weight ............... 1500 lbs
Utilities Required:
Air at 80 psi and 100 cfm.
Production Capacity:
225 per hour.

Shipping Data:
Length ............... 78 in.
Width ................... 24 in.
Height ................... 60 in.
Cube .................... 25 cu ft
Weight ................... 1926 lbs

Associated Equipment:
None.

Kits:
1011E001 KIT, Remove M86 Primer from 105MM Cartridge Cases: M115, M148, and M150
1011E002 KIT, Removal of L4 Primers from 105MM L36 Cartridge Cases
1011E003 KIT, Remove Primer from 3"/50 Navy Cartridge Case
Use:
The primer inserting machine is used to assemble loaded screw-type primers into artillery cartridge cases. It is used on 75MM through 120MM and 3-inch through 6-inch cartridge cases.

Description:
APE 1021M4 consists of a steel barricade with door, an air motor with wrench assembly, a mounting plate for holding cartridge cases, a foot pedal operated wrench lifter, and pneumatic controls for operating the machine.

Difference Between Models:
Not available.

Tabulated Data:
APE No. 1021M4
Unit of Issue Each

Installation Data:
Length 20-1/2 in.
Width 25 in.
Height 64 in.

Weight 225 lbs
Utilities Required:
Air at 90 psi and 36 cfm.
Production Capacity:
200 cartridges per hour.

Shipping Data:
Length 24 in.
Width 30 in.
Height 64 in.
Cube 26.55 cu ft
Weight 300 lbs

Associated Equipment:
None.

Kits:
1021E001 KIT, Holding Shoes for 75MM through 120MM Cartridge Cases and Navy 3" thru 6" Cartridge Cases
1021E002 KIT, Holding Shoe for 105MM Cartridge Cases: M115, M148 and M150
APE 1022M1—CONVEYOR, POWERED BELT

Use:
The powered belt conveyor is used for moving artillery projectiles, small rockets, boxed general supplies, and miscellaneous ammunition components through industrial plant buildings.

Description:
APE 1022M1 is a powered, roller bed, flat belt type conveyor. The direction of belt travel can be reversed and the speed is adjustable. Conveyor lengths vary up to 280 feet maximum. Belt width is 18 inches and conveyor can support loads up to 120 pounds per lineal foot.

Difference Between Models:
Conveyors with the APE 1022M1 modification have the start-up safety alarm kit installed. Drive assembly may be located in the middle or on the end of the machine.

Tabulated Data:
APE No. 10220000M1
Unit of Issue Each
Installation Data:
Length 90-280 ft
Width 32 in.
Height Adjustment from 32 to 40 in.

Weight Varies with length of conveyor

Utilities Required:
220/440 vat, 3 phase, 60 Hz.

Production Capacity:
Belt speed can be varied from 15 feet per minute to 60 feet per minute.

Shipping Data:
Length Varies with length of conveyor
Width Varies with length of conveyor
Height Varies with length of conveyor
Cube Varies with length of conveyor
Weight Varies with length of conveyor

Associated Equipment:
None.

Kits:
None.
Use:
The linker-delinker was designed to link and/or delink caliber .50 cartridges with M2 or M9 links. The machine is capable of handling straight or ratio pack ammunition. Ration pack or ratio replacement must be in a sequence of 5, i.e., 4-1, 3-2, or 2-2-1.

Description:
APE 1024M2 is a drum type linker-delinker. It consists of a frame, drum, ejector rods, a link feed assembly, a cartridge feed assembly with three cartridge feed trays, ten link magazines each with 40 link capacity, and an electric motor.

Difference Between Models:
The APE 1024M1 has all ejector rods of the same length. The APE 1024M2 required new mounting arrangement for gear motor; currently available gear-motors are not dimensionally interchangeable for mounting on original or APE 1024M1 frames.

Tabulated Data:
APE No. ................. 10240000M2
Unit of Issue .......... Each
Installation Data:
  Length .................. 40 in.
  Width .................... 48 in.
  Height ................... 50 in.
  Weight ................... 1200 lbs
Utilities Required:
  115/230 vac, single phase, 60 Hz,
  4.6/2.3 amp.
Production Capacity:
  300 cartridges per minute.

Shipping Data:
  Length .................. 55 in.
  Width .................... 48 in.
  Height ................... 56 in.
  Cube ...................... 85.5 cuft
  Weight ................... 1628 lbs

Associated Equipment:
None.

Kits:
  1024E001 KIT, Blank Round Linking
Use:
The linker-delinker was designed to link and/or delink caliber .30 cartridges with M1 links. The machine is capable of handling straight or ratio pack ammunition. Ratio pack or ratio replacement must be in a sequence of 5, i.e., 4-1, 3-2 or 2-2-1.

Description:
APE 1025 is a drum type linker-delinker. It consists of a frame drum, ejector rods, a link feed assembly, a cartridge feed assembly with three cartridge feed trays, and an electric motor.

Difference Between Models:
Original design.

Tabulated Data:
APE No. .................... 10250000
Unit of Issue ............... Each

Installation Data:
Length ..................... 32 in.
Width ....................... 38 in.
Height ...................... 45 in.
Weight ..................... 550 lbs
Utilities Required:
115/230 vat, single phase, 60 Hz, 4.6/2.3 amp.
Production Capacity:
360 cartridges per minute.

Shipping Data:
Length ..................... 54 in.
Width ....................... 43 in.
Height ...................... 72 in.
Cube ........................ 96.7 cu ft
Weight ..................... 1026 lbs

Associated Equipment:
None.

Kits:
None.
Use:
The vacuum collection system was developed to convey propellant from maintenance operations to a powder collection building.

Description:
APE 1028 consists of a vacuum producer; a primary separator and storage hopper; a wet type explosives separator; and a dry type explosives separator. All components are connected by stainless steel piping. This is installed equipment requiring special layouts adaptable to various locations.

Difference Between Models:
Original design.

Tabulated Data:
APE No. . . . . . . . . . . . . . . . . 10280000
Unit of Issue . . . . . . . . . . Each
Installation Data:
Length . . . . . . . . . . . . . . . Not available
Width . . . . . . . . . . . . . . . Dependent on plant layout
Height . . . . . . . . . . . . . . . Not available
Weight . . . . . . . . . . . . . . . Not available
Utilities Required:
220 vac, 3 phase, 60 Hz, 27 amp

Production Capacity:
Not Applicable.

Shipping Data:
EXHAUSTER:
<table>
<thead>
<tr>
<th>Length</th>
<th>Width</th>
<th>Height</th>
<th>Cube</th>
<th>Weight</th>
</tr>
</thead>
<tbody>
<tr>
<td>72 in.</td>
<td>36 in</td>
<td>24 in.</td>
<td>36 cu. ft.</td>
<td>2000 lbs.</td>
</tr>
</tbody>
</table>

WET COLLECTOR
<table>
<thead>
<tr>
<th>Length</th>
<th>Width</th>
<th>Height</th>
<th>Cube</th>
<th>Weight</th>
</tr>
</thead>
<tbody>
<tr>
<td>72 in.</td>
<td>36 in</td>
<td>36 in.</td>
<td>54 cu. ft.</td>
<td>750 lbs.</td>
</tr>
</tbody>
</table>

DRY COLLECTOR
<table>
<thead>
<tr>
<th>Length</th>
<th>Width</th>
<th>Height</th>
<th>Cube</th>
<th>Weight</th>
</tr>
</thead>
<tbody>
<tr>
<td>108 in.</td>
<td>36 in</td>
<td>36 in.</td>
<td>81 cu. ft.</td>
<td>1000 lbs.</td>
</tr>
</tbody>
</table>

HOPPER
<table>
<thead>
<tr>
<th>Length</th>
<th>Width</th>
<th>Height</th>
<th>Cube</th>
<th>Weight</th>
</tr>
</thead>
<tbody>
<tr>
<td>84 in.</td>
<td>24 in</td>
<td>24 in.</td>
<td>28 cu. ft.</td>
<td>750 lbs.</td>
</tr>
</tbody>
</table>

PIPING:
<table>
<thead>
<tr>
<th>Length</th>
<th>Width</th>
<th>Height</th>
<th>Cube</th>
<th>Weight</th>
</tr>
</thead>
<tbody>
<tr>
<td>14 in.</td>
<td>4 in</td>
<td>4 in</td>
<td>224 cu in.</td>
<td>2000 lbs.</td>
</tr>
</tbody>
</table>

Associated Equipment:
None.

Kits:
None.
APE 1042M3-MACHINE, DEBANDING

Use:
The debanding machine was developed to remove rotating bands from 57MM through 155MM projectiles.

Description:
APE 1042M3 consists of a frame, a work table, knurling wheel, electric motor, air cylinders, and controls.

Difference Between Models:
APE 1042, 1042M1, and 1042M2 had electrical controls and two separate air systems for pressure and ejector actuators. Motors, gearboxes and knurling wheels were refined throughout models. Pneumatic controls replaced electric on the APE 1042M3 and actuator air was consolidated into one system.

Tabulated Data:
APE No .................. 10420000M3
Unit of Issue ............ Each
Installation Data:
Length .................. 51 in.
Width .................. 68 in.
Height .................. 54-1/2 in.

Utilities Required:
220/440 vac, 3 phase, 60 Hz, 28.5/13.5 amps; air at 80 psi and 105 cfm.

Production Capacity:
Depends on size and condition of projectile.

Shipping Data:
Length .................. Not available
Width .................. Not available
Height .................. Not available
Cube .................. 99 cu ft
Weight .................. 4380 lbs

Associated Equipment:
None.

Kits:
1042E001 KIT, Debanding 57MM, 3" 150 and 76MM Projectile
1042E002 KIT, Debanding 90MM Projectile and 105MM Gun Ammo
1042E004 KIT, Debanding 105MM Projectile and 106MM Rifle Ammo
1042E005 KIT, Debanding 75MM Projectile
APE 1044M1-SYSTEM, MONORAIL CONVEYOR

Use:
The monorail conveyor system was designed to convey loaded projectiles and/or fixed rounds of ammunition through required processes.

Description:
APE 1044M1 is the overhead monorail type. It is made up of monorail tracks, trolleys, conveyor chain, hooks, drive and take-up units, electrical controls and track supports. This is installed equipment requiring special layouts adaptable to various locations.

Difference Between Models:
APE 1044M1 version has a start-up safety alarm.

Installation Data:
Peculiar in design configuration as to each plant layout.
Utilities Required:
220/440 vac, 3 phase, 60 Hz 9/4.5 amp.
Production Capacity:
Conveyor will carry loads up to 100 pounds per lineal foot at a rate of 5 feet per minute to 20 feet per minute.

Shipping Data:
Varies by design configuration of each layout.

Associated Equipment:
APE 1045M1, 1069M1, 1070M1, 1205M1, 1214M1, 1280M1, 2168.

Kits:
None.

Tabulated Data:
APE No. ................................ 10440000M1
Unit of Issue .......................... Each
Use:
The paint spray booth is used in production line painting of packing materials and ammunition items.

Description:
The booth, is a floor style, self supported, dry filter type, with a 10 foot face opening. It is complete with exhaust fan system, automatic shut down control, monorail and roller conveyor openings.

Difference Between Models:
A tech data package was developed to replace original purchase description, to insure conformity of design.

Tabulated Data:
APE No: 1045M1
Unit of issue: Each

Installation Data:
Length: 12 ft.
Width: 10 ft. 6 in
Height: .9 ft. plus max 4 ft 6 in Exhaust Stack
Weight: not available

Utilities Required:
220 VAC, 3 phase, 60 HZ

Production Capacity:
Not applicable.

Shipping Data:
Crate 1
Length: 124 in.
Width: 52 in.
Height: 65 in.
Cube: not available
Weight: not available
Crate 2
Length: ........................................... 92 in.
Width: ............................................. 61 in.
Height: .............................................. 42 in.
Cube: ........................................ not available
Weight: ........................................ not available

Crate 3
Length: ............................................. 42 in.
Width: ............................................. 42 in.
Height: ............................................ 51 in.
Cube: ........................................ not available
Weight: ........................................ not available

Associated Equipment:
APE 1022M1 Conveyor, Powered Belt
Ape 1044M1 System, Monorail Conveyor

Kits:
None
Use:
The air test kit was designed to test large metal containers for air leaks.

Description:
APE 1052M1 consists of two metal cases. The first case contains air regulators and a desiccant drying system to remove moisture from the air. The dry air is forced into a container being tested and pressure gage is used to check for constant pressure in the container for a predetermined length of time. The second case contains the necessary hoses to connect the container being tested to the compressed air source.

Difference Between Models:
The APE 1052M1 has a modification to the case to accommodate new water and oil extractor.
Tabulated Data:
(Dimensions are for one case)
APE No. ................. 10520000M1
Unit of Issue ........... Each

Installation Data:
Length ................ 25 in.
Width .................. 11-1/2 in.
                    with extractor; 9-1/2 in.
                    with hoses
Height ............... 21-1/4 in.
Weight .............. 134 lbs (case
                    no. 1--74 lbs;
                    case no. 2--
                    60 lbs)

Utilities Required:
Air at 30 psi.

NOTE
Compressed bottled dry air or
dry nitrogen may be utilized
in lieu of air from compressor
required by APE operational
manual and parts list for air
test kit for APE 1052M1, dtd
Jan 1986. Air bottles should
have regulators set between 30
and 50 psi. Use of dessicant
is not required when APE
1052M1 is used in this config-
uration but retention of hu-
midity indicator is recom-
mended.

Production Capacity:
Not applicable.

Shipping Data:
Length ................ 28 in.
Width .................. 21 in.
Height .................. 25 in.
Cube ................... 9 cu ft
Weight ................ 190 lbs

Associated Equipment:
None.

Kits:
None.
Use:
The fire control panel is designed to initiate electric blasting caps that are in direct contact with selected explosive charges in support of demil operations at approved demolition grounds.

Description:
APE 10155M3 is a moisture resistant, steel enclosure containing the necessary circuitry and electrical components needed to initiate an electric blasting cap. The panel is capable of firing in either the 110 vac mode, or a blasting machine can be attached to the binding posts to fire the blasting caps in the hand detonation mode. A numbered selector switch allows the operator to choose any one of seven firing circuits capable of firing a blasting cap. Firing circuits are designed to fire one at a time.

Difference Between Models:
APE 1055M3 has improved circuitry.
Tabulated Data:
APE No. 10550000M3
Unit of Issue. Each

Installation Data:
   Length 14 in.
   Width 16 in.
   Height 6 in.
   Weight 25 lbs

Utilities Required:
110 vac, 60 Hz
None if M32 Blasting Machine is used.

Production Capacity:
Not applicable.

Shipping Data:
Length 14 in.
Width 16 in.
Height 6 in.
Cube 0.8 cu ft
Weight 25 lbs

Associated Equipment:
None.

Kits:
None.
APE 1061--COLLECTOR, DUST AND TNT

Use:
The dust and TNT collector is used to collect air entrained TNT dusts, having a specific gravity of 1.62 from areas where maximum allowable concentration of dusts must be below 1.5 milligrams per cubic meter for an 8 hour work day.

Utilities Required:
- 220/440 vat, 60 Hz, 3 phase, 22/11 amps.
- Water at 60 psi and 20 gpm.

Production Capacity:
- 3,000 cfm.

Description:
Not available.

Difference Between Models:
Original design.

Tabulated Data:
- APE No.: 10610000
- Unit of Issue: Each
- Length: 87 in.
- Width: 71 in.
- Height: 166 in.

Shipping Data:
- Length: 98 in.
- Width: 84 in.
- Height: 181 in.
- Cube: 862 cu ft
- Weight: 3040 lbs

Associated Equipment:
APE 1300M1.

Kits:
None.
Use:
The pneumatic vise is used to hold ammunition items for assembly and disassembly. Sizes range from 37MM through 120MM. It is also used to compress the fuze head on M204A1 grenade fuzes.

Description:
APE 1065 consists of a frame with an air brake chamber mounted on the frame. A bushing is assembled to the pushrod of the air brake.

Difference Between Models:
Original design.

Tabulated Data:
APE No. . . . . . . . . . . . . . . . . . . . . 10650000
Unit of Issue . . . . . . . . . . . . . . . . . Each
Installation Data:
  Length . . . . . . . . . . . . . . . . . . . . . . . . . 17-5/16 in.
  Width . . . . . . . . . . . . . . . . . . . . . . . . 9-9/16 in.
  Height . . . . . . . . . . . . . . . . . . . . . . . . . 9-1/2 in.
  Weight . . . . . . . . . . . . . . . . . . . . . . . . . 72 lbs
Utilities Required:
Air at 80 psi and 81 cfm.
Production Capacity:
Not applicable.
Shipping Data:
Length ......................... 26 in.
Width .......................... 15 in.
Height .......................... 14 in.
Cube ............................ 1.8 cu ft
Weight .......................... 90 lbs

Associated Equipment:
None.

Kits:

1065E001 KIT, Device, Compression for M204A1 Grenade Fuze Head
1065E002 KIT, Secure 37MM: M51B1A1, M54, M54A1, M55A1, M59, M63
1065E003 KIT, Secure 40MM: M81A1
1065E004 KIT, Secure 3.5-Inch Rocket
1065E005 KIT, Secure 75MM: M48, M64, T65E11, M66, M88A1, M309, M309A, M309A1, M311, M311A1, M334, M349
1065E006 KIT, Secure 76MM & 3"/50: M42A1, M62, M62A1, M93A1, M166E2, M312, M312B1, M315, M339, M340A1, M352, M361, 3"/50 (All MKS & MODS)
1065E007 KIT, Secure 90MM: M33, M71, M77, T91, T142E5, M304, M304A1, M313, M317A2, M318A1, M332, M333, M336, M353, M382
1065E008 KIT, Secure 105MM: M1, M45, M60, M84B1, M84BE, T139E44, M314A2B1, M324, M325, M326, M327, M328, M360, 4.2 in. M329
1065E009 KIT, Secure 60MM: M49A2, M50A2
1065E010 KIT, Secure 81MM: M43A1
1065E011 KIT, Secure 120MM: T15E1, T16E1, M61A1, M73, T115E3, T116E6, T147E5, M358, M359
1065E012 KIT, Secure 57MM: M18E1, M303, M307, M307A1
1065E013 KIT, Secure 81MM: M57, M362
1065E015 KIT, Remove Boom Adapter from Boom Assembly of 90MM: M371
1065E016 KIT, Safety Guard
1065E017 KIT, Remove Boom Adapter from Boom Assembly of 105MM: M341 Cartridge
1065E018 KIT, Secure 2.75 In. MK2, MK(18 HEAT Rocket
1065E019 KIT, Secure 2.75 In. MK4 MOD O Rocket
1065E020 KIT, Secure 2.75 In. Rocket Motor
1065E021 KIT, Secure 120mm Projectile
1065E049 KIT, Accessory, M72 Rocket, 66MM, Heat Round
Use:
The can sealing machine is used to hermetically seal M20 and M21 containers opened during surveillance cyclic and special inspections and small arms production line sealing operations.

Utilities Required:
220/440 vac, 60 Hz, 3 phase, 9/4.5 amps.

Production Capacity:
Not available.

Description:
Not available.

Shipping Data:
Length . . . . . . . . . . . . . . . . Not available
Width . . . . . . . . . . . . . . . . Not available
Height . . . . . . . . . . . . . . . . Not available
Cube . . . . . . . . . . . . . . . . Not available
Weight . . . . . . . . . . . . . . . . Not available

Difference Between Models:
Original design.

Tabulated Data:
APE No . . . . . . . . . . . . . . 10660000
Unit of Issue . . . . . . . . . . . Each

Installation Data:
Length . . . . . . . . . . . . . . . . . 48 in.
Width . . . . . . . . . . . . . . . . . 36 in.
Height . . . . . . . . . . . . . . . . . 72 in.
Weight . . . . . . . . . . . . . . . . . 2250 lbs

Associated Equipment:
None.

Kits:
None.
Use:
The paint spray booth is used in production line painting of packing materials and ammunition items.

Description:
The booth is a floor style, self supported, dry filter type, with a 7 foot face opening. It is complete with exhaust fan system, automatic shut down control, monorail and roller conveyor openings.

Difference Between Models:
A Tech Data Package was developed to replace original purchase description, to insure conformity of design.

Tabulated Data:
APE No. ..................... 10690000M1
Unit of issue: .............. Each

Installation Data:
Length: ..................... 12 ft.
Width: ..................... 7 ft. 6 in.
Height: ..................... 9 ft. plus max 4 ft. 6 in. Exhaust Stack
Weight: ..................... not available

Utilities Required:
220/440 VAC, 3 phase, 60 HZ,

Production Capacity:
Not applicable.

Shipping Data: (Approximately)
Crate 1
Length: ..................... 103 in.
Width: ..................... 66 in.
Height: ..................... 55 in.
Cube: ..................... 217 cu ft.
Weight: ..................... 1950 lbs.
Crate 2 (Approximately)
- Length: 78 in.
- Width: 35 in.
- Height: 50 in.
- Cube: 79 cu. ft.
- Weight: 700 lbs.

Crate 3 (Approximately)
- Length: 96 in.
- Width: 48 in.
- Height: 53 in.
- Cube: 142 cu. ft.
- Weight: 825 lbs.

Associated Equipment:
- APE 1022M1 Conveyor, Powered Belt
- Ape 1044M1 System, Monorail Conveyor

Kits:
- None
Use:
The paint spray booth is used in production line painting of packing materials and ammunition items.

Description:
The booth, is a floor style, self supported, dry filter type, with a 12 foot face opening. It is complete with exhaust fan system, automatic shut down control, monorail and roller conveyor openings.

Difference Between Models:
A Tech Data Package was developed to replace original purchase description, to insure conformity of design.

Tabulated Data:
APE ........................... 10700000M1
Unit of issue: ................. Each

Installation Data:
Length: ........................ 12 ft.
Width: ........................... 12 ft. 6 in.
Height: .......................... 9 ft. plus max
4 ft. 6 in. Exhaust Stack
Weight: ........................... Not available.

Utilities Required:
220 VAC, 3 phase, 60 HZ,

Production Capacity:
Not applicable.

Shipping Data: (Approximately)
Length: ....................... Not available
Width: .......................... Not available
Height: ......................... Not available
Cube: .......................... Not available
Weight: ........................ Not available

Associated Equipment:
APE 1022M1 Conveyor, Powered Belt
APE 1044M1 System, Monorail Conveyor

Kits:
None
Use:
The closed circuit television is used to view hazardous operations performed in a remote area.

Description:
APE 1072M3 consists of the following major assemblies:

A camera assembly made up of a closed circuit television camera with zoom lens, (encased in an explosion proof housing) and a pan/tilt unit, which are mounted on a camera dolly.

A cable cart assembly with cable reel, casters and foot operated floor lock.

A monitor assembly consisting of a television monitor, power source, camera controls, pan/tilt unit controls, and zoom lens controls. All components are located on shelves of a cart type dolly.

Difference Between Models:
The APE 1072M2 reflects a change in vendors. The original vendor listed as suggested source of supply for APE 1072 went out of business. All provisions of the APE 1072M1 model remain the same. The APE 1072M3 reflects system procured by purchase description.
Tabulated Data:
APE No. .................. 10720000M3
Unit of Issue ............. Each

Installation Data:
CAMERA ASSEMBLY
Length ..................... 42 in.
Width ........................ 42 in.
Height ...................... 60 to 78 in.
Weight ...................... 282 lbs
Floor space ................ 12-1/4 sq ft

CABLE CART ASSEMBLY
Length ..................... 31 in.
Width ........................ 34 in.
Height ...................... 51 in.
Weight ...................... 430 lbs
Floor space ................ 7-1/3 sq ft

MONITOR ASSEMBLY
Length ..................... 21-1/2 in.
Width ........................ 26 in.
Height ...................... 50-1/2 in.
Weight ...................... 120 lbs
Floor space ................ 3-9/10 sq ft

Utilities Required:
115 vac, 60 Hz, 10 amp.

Production Capacity:
Not applicable.

Shipping Data:
CAMERA ASSEMBLY
Length ..................... 55 in.
Width ........................ 43 in.
Height ...................... 55 in.
Cube ........................ 75.27 cu ft
Weight ...................... 410 lbs

CABLE CART ASSEMBLY
Length ..................... 53 in.
Width ........................ 38 in.
Height ...................... 53 in.
Cube ........................ 61.27 cu ft
Weight ...................... 758 lbs

MONITOR*
Length ..................... 15 in.
Width ........................ 18 in
Height ...................... 15 in.
Cube ........................ Not available
Weight ...................... 55 lbs

NOTE
*Shipping weight shown for monitor only and does not include the monitor dolly.

*Total shipping weight may vary slightly due to difference in manufacturers.

Associated Equipment:
None.

Kits:
None.
APE 1086-TANK, HOT DIP, PORTABLE

Use:
The portable hot-dip tank is used to melt and keep in a molten state compounds for sealing wrappings and packages.

Description:
APE 1086 is an electrically heated tank on wheels. It has a lid with fusible link so that it automatically closes if a fire should break out. Dual thermostats are provided. Tank inside dimensions are 12" wide x 24" long x 12" deep.

Difference Between Models:
Original design.

Tabulated Data:
APE No. ................. 10860000
Unit of Issue ............. Each

Installation Data:
Length ..................... 40 in.

Utilities Required:
208/240 vac, 3 phase, 60 Hz, 30/15 amp.
Production Capacity:
Not applicable.

Shipping Data:
Length ..................... 47 in.
Width ...................... 22 in.
Height ..................... 41 in.
Cube ....................... 24.5 cu ft
Weight ..................... 312 lbs

Associated Equipment:
None.

Kits:
None.
APE 1099--DECLIPPER HAND, EIGHT ROUND

Use:
The hand declipper is used to remove caliber .30 & 7.62MM cartridges from eight round clips by hand operation.

Description:
The declipper consists of a frame with a slot for the clipped cartridges. Below the slot is a group of metal fingers which spread the clip apart as it is pressed down which releases the cartridges.

Difference Between Models:
Original design

Tabulated Data:
APE No ......................... 10990000
Unit of issue: .................. Each

Installation Data:
Length: .......................... 17 in.
Width: ........................... 7-1/2 in.
Height: ........................... 5-1/2 in.
Weight: ........................... 5-1/2 lbs

Utilities Required:
None

Production Capacity:
16 clips per minute (128 cartridges per minute)

Shipping Data:
Length: .......................... 17 in.
Width: ........................... 8 in.
Height: ........................... 6 in.
Cube: ............................ 4 cu. ft.
Weight: ........................... 8 lb

Associated Equipment:
None

Kits:
None

(Change 1) 2-39
Use:
The swing brush machine is used to clean and derust projectiles through 240MM and cartridge storage cases. The cartridge storage cases are 75MM M173, 90MM M159, 155MM M13, M14 and MK1, and 8 inch M18 and M19.

Description:
APE 1105M2 consists of a frame, projectile rotating assembly, a power driven wire brush or abrasive wheel/disc, suspended above the projectile rotating assembly.

Difference Between Models:
The APE 1105M2 has improved safety features and has a water holding tank that is permanently mounted under the machine to hold and recycle coolant water being used in operations utilizing the abrasive wheel.
Tabulated Data:
APE No. ................. 11050000M2
Unit of Issue .......... Each

Installation Data:
Length ................. 72 in.
Width .................. 72 in.
Height .................. 74 in.
Weight .................. 1800 lbs

Utilities Required:
220/440 vac, 60 cycle, 3 phase,
18.5/9.3 amp.

Production Capacity:
Depends on size and condition of item
being cleaned or derusted.

Shipping Data:
Length .................. 83 in.

Width ................. 83 in.
Height .................. 88 in.
Cube ...................... 350.8 cuft
Weight .................. 2200 lbs

Associated Equipment:
None.

Kits:
1105E001 KIT, Derust, 75MM thru 155MM
Projectiles
1105E002 KIT, Derust 8 Inch thru 240MM
Projectiles
1105E003 KIT, Derust Cartridge Storage
Cases 75MM thru 8 Inch
1105E004 KIT, Dust Collector
Use:
The prime and deprime machine is used to deprime 37MM through 106MM cartridge cases with screw and press type primers prior to cartridge case salvage; deprime 37MM through 106MM cartridge cases with press type primers prior to repriming; and press type primers into 37MM through 106MM cartridge cases.

Description:
APE 1106M1 consists of a steel barricade, a four station index turntable, an air-hydraulic unit which supplies the power to operate the punch cylinder, and a series of valves and controls to operate the machine.

Difference Between Models:
The APE 1106M1 machine has new parts added and different part numbers.

Tabulated Data:
APE No ............... 11060000M1
Unit of Issue .......... Each
Installation Data:
Length ............... 36 in.
Width ............... 54 in.
Height ............... 71 in.
Weight ............... 3120 lbs
Utilities Required:
Air at 100 psi and 105 cfm.
Production Capacity:
Dependent on operation being performed.
Shipping Data:
Length ................. 60 in.
Width ................... 48 in.
Height ................... 84 in.
Cube .................... 140 cu ft
Weight .................. 3370 lbs

Associated Equipment:
APE 2178.

Kits:
1106E001 KIT, Repair Power Pack
1106E003 KIT, Prime or Deprime 37MM:
M17 Cartridge Cases
1106E004 KIT, Prime or Deprime 37MM:
M16, MK1, and MK2 Cartridge Cases
1106E005 KIT, Prime or Deprime 40MM:
M25 Cartridge Cases
1106E006 KIT, Prime or Deprime 57MM:
M30 Cartridge Cases
1106E007 KIT, Prime or Deprime 57MM:
M23, 75MM: M35, or 76MM: M26 Cartridge Cases
1106E008 KIT, Prime or Deprime 75MM:
M5, M9, or M18 Cartridge Cases
1106E009 KIT, Prime or Deprime 75MM:
M31, 76MM: M88 or M101 Cartridge Cases
1106E010 KIT, Prime or Deprime 90MM:
M19, M27, or M108; 105MM:
M32, M90, or M95; 106MM: M93 or M94 Cartridge Cases
1106E011 KIT, Prime or Deprime 105MM:
M14 or M15 Cartridge Cases
1106E013 KIT, Prime or Deprime 3-Inch:
MK7, MOD 0 Cartridge Cases

NOTE

KITS are interchangeable with
APE 1229 KITS.
APE 1114--LINK-DELINK MACHINE, 7.62MM

Use:
The link-delink machine is used to link and/or delink 7.62MM cartridges from M13 links. Machine is capable of handling straight or ratio pack ammunition. Ratio pack or ratio replacement must be in a sequence of five.

Description:
APE 1114 is a drum type link-delink machine. It consists of a frame, drum, ejector rods, a link feed chute assembly, a cartridge feed assembly with three cartridge feed trays, and an electric motor.

Difference Between Models:
Original design.

Tabulated Data:
APE No. .................. 11140000
Unit of Issue .............. Each

Installation Data:
Length .................. 40 in.
Width .................... 50 in.
Height ................... 60 in.
Weight .................. 624 lbs

Utilities Required:
115/230 vac, single phase, 60 Hz, 5.2/2.6 amps.

Production Capacity:
300 cartridges per minute.

Shipping Data:
Length .................. 64 in.
Width .................... 41 in.
Height ................... 57 in.
Cube .................... 88.6 cu ft
Weight .................. 824 lbs

Associated Equipment:
None.

Kits:
1114E001 KIT, Blank Adapter
APE 1118M2--MACHINE, FUZE DISASSEMBLY

Use:
The fuze disassembly machine is used to remove the booster assembly from artillery and mortar fuzes. Operation is completely shielded.

Description:
APE 1118M2 consists of an operational shield, an indexing turntable, a drive head assembly, and an air motor with necessary control for manual and automatic operation.

Difference Between Models:
The APE 1118M2 model of the machine has a completely enclosed shield and machine mechanism mounted on tracks for removal from shield.

Tabulated Data:
APE No. .................. 11180000M2
Unit of Issue ............. Each
Installation Data:
   Length .................. 57 in.
   Width ................... 34-1/4 in.
   Height .................. 89-5/8 in.
   Weight .................. 2525 lbs
Utilities Required:
Air at 90 psi and 150 cfm.
Production Capacity:
3000 fuzes per 8 hour shift.

Shipping Data:
Length ....................... 59 in.
Width ........................ 51 in.
Height ......................... 102 in.
Cube .......................... 204.7 cu ft
Weight ........................ 3040 lbs

Associated Equipment:
None.

Kits:
1118E001 KIT, Remove Booster from Fuzes AN M103, M139, M140, M163, M164, M165, and M167
1118E002 KIT, Remove Head from Fuze PD M52A2 60MM and 81MM Mortar
1118E003 KIT, Remove Booster from Fuze, M145
1118E004 KIT, Remove Booster from Fuzes, M110, M158, and M193
1118E005 KIT, Remove Booster from Fuzes, M120 and M170
1118E006 KIT, Remove Booster from Fuzes, M147 and M155
1118E007 KIT, Remove Booster from Fuze: M52
1118E010 KIT, Remove Bottom Closing Screw Assembly from Fuze: M78 CP
1118E011 KIT, Remove and Replace Bottom Closing Screw of Fuze: M48, M51 and M500
1118E012 KIT, Remove Booster from Fuze: M51A5, M500, M502A1, M508, and M518
1118E013 KIT, Separate Booster Cup from M21A4 Booster Assembly
1118E016 KIT, Remove Fuze Body from Fuze Head, M62 BD Fuze
1118E017 KIT, Remove Auxiliary Booster from M90 PD Fuze
1118E018 KIT, Remove M41 Detonator Assembly from M404A2 Fuze
1118E019 KIT, Remove Detonator Cap Housing from M404A1 Fuze
1118E020 KIT, Remove Booster from Fuze: M524
APE 1123—DEVICE, SHAKER, BLACK POWDER

Use:
The black powder shaker device is used to level the black powder in 75 MM, 76MM, 90MM, and 105MM blank cartridges prior to inserting the retaining disk.

Description:
APE 1123 consists of a frame, a pneumatic shaker, and a control valve.

Difference Between Models:
Original design.

Tabulated Data:
APE No. ......................... 11230000
Unit of Issue ..................... Each

Installation Data:
Length ......................... 21-3/4 in.
Width ......................... 13-3/4 in.

Height ......................... 35-1/2 in.
Weight ......................... 400 lbs

Utilities Required:
Air at 80 psi and 80 cfm.

Production Capacity:
600 cartridges per hour.

Shipping Data:
Length ......................... 24 in.
Width ......................... 16 in.
Height ......................... 40 in.
Cube ......................... 9 cu ft
Weight ......................... 475 lbs

Associated Equipment:
None.

Kits:
None.
APE 1124--TOOL, RETAINER RING EXPANDER

Use
The retainer ring expander tool is used to expand and remove retainer rings from M6 and M15 mines.

Description:
The tool is a commercial type plier for expanding retainer rings.

Difference Between Models:
Original design.

Tabulated Data:
APE No. 11240000
Unit of issue. Each

Utilities Required:
None

Production Capacity:
Not applicable.

Shipping Data:
Length: 9 in.
Width: 3 in.
Height: 1 in.
Cube: 27 cu. in.
Weight: 1 lb.

Installation Data:
Length: 8-3/16 in.
Width: 2-1/8 in.
Height: 3/8 in.
Weight: 1/4 lb.

Associated Equipment:
None

Kits:
None

(Change 1) 2-48.1
Use:
The fuze well liner wrench is used to assemble or remove screw type fuze well liners from projectiles. It can be used with an impact wrench.

Description:
The wrench consists of a handle or shaft, a rubber gripper, and the hardware which assembles the parts together.

Difference Between Models:
The basic wrench has a rubber collar which expands when turned counterclockwise. The M1 model has a solid rubber collar.

Tabulated Data:
APE No: 11280000
Unit of issue: Each

Installation Data:
Length: 5 in.
Width: 2 in.
Height: 2 in.
Weight: 2 lbs

Utilities Required:
None

Production Capacity:
350 Liners per hour.

Shipping Data:
Length: 6 in.
Width: 3 in.
Height: 3 in.
Cube: .03 cu ft
Weight: 3 lb

Associated Equipment:
None

Kits:
None

2-48.2 (Change 1)
APE 1137 M1—MACHINE, TAPING, SMALL ITEMS

Use:
The small items taping machine is used to apply tape to fiber and metal container ranging in size from 4 inches to 14 inches in length with a maximum diameter of 5-1/2 inches.

Description:
APE 1137M1 consists of an angle iron frame, tied together with three 7/8-inch rods. The two lower rods are utilized to hold the drive head with 360-degree actuator air cylinder, container holder brackets, and an idler head mounted on a 2-inch bore, 2-inch stroke, air cylinder. The cylinders are controlled by two 1/4-inch pilot operated valves connected to four bleed valves.

Difference Between Models:
The APE 1137M1 machine utilizes a newer manufactured rotary actuator. The original model may be utilized until rebuilt to APE 1137M1 model.

Tabulated Data:
APE No . . . . . . . . . . . . . . . . . 11370000M1
Unit of Issue . . . . . . . . . . . . . . . Each

Installation Data:
Length . . . . . . . . . . . . . . . . . 40 in.
Width . . . . . . . . . . . . . . . . . . . 17-3/4 in.
Height . . . . . . . . . . . . . . . . . 24-13/16 in.
Weight . . . . . . . . . . . . . . . . . . . 125 lbs

Utilities Required:
Air at 90 psi and 20 cfm.
Production Capacity:
330 containers per hour.

Shipping Data:
Length . . . . . . . . . . . . . . . . . 44 in
Width . . . . . . . . . . . . . . . . . . . 24 in.
Height . . . . . . . . . . . . . . . . . 28-1/2 in.
Cube . . . . . . . . . . . . . . . . . . . . . . . . 17.5 cu ft
Weight . . . . . . . . . . . . . . . . . . . . . . . . 185 lbs

Associated Equipment:
None.

Kits:
1137E001 KIT, Tape Cutter
Use:
The fuzewell liner removal fixture is used to remove press type well liners from artillery projectiles.

Description:
The fixture is a hand tool consisting of a handle, a shaft, and a taper lock feature for gripping the fuzewell liner.

Difference Between Models:
M2 version is a new design for improved performance. M1 version is no longer approved.

Tabulated Data:
APE No: 1140M2
Unit of issue: Each

Installation Data:
Length: 14 in.
Width: .2 in.
Height: 14 in.
Weight: 3 lbs.

Utilities Required:
None.

Production Capacity:
2 to 3 liners per minute.

Shipping Data:
Length: 16 in.
Width: 16 in.
Height: 3 in.
Cube: 0.45 cu. ft.
Weight: 5 lb.

Associated Equipment:
None

Kits:
None
Use:
The primer removal and insertion fixture is used to assemble or disassemble M32, M34 or M71 screw type primers from the fin assemblies of 60MM and 81MM mortar ammunition by hand operation.

Description:
APE 1148 consists of a nose clamp and fin holder assembly, mounted on the base, which hold the projectile in position while the pins of the wrench head engage the primer. After the primer is loosened by means of the hand-operated primer wrench, the primer is removed by hand.

Difference Between Models:
Original design.

Tabulated Data:
APE No ....................... 11480000
Unit of Issue .................. Each

Installation Data:
Length ....................... 34 in.
Width ....................... 8 in.
Height ....................... 7 in.
Weight ....................... 50 lbs
Utilities Required:
None.
Production Capacity:
120 primers per hour.

Shipping Data:
Length ....................... 36 in.
Width ....................... 10 in.
Height ....................... 9 in.
Cube ....................... 1.9 cu ft
Weight ....................... 89 lbs

Associated Equipment:
None.

Kits:
1148E001 KIT, 60MM, M720, and 81MM, M299 Ignition Cartridge Removal and Insertion
1148E002 KIT, 81MM, M819 and M853A1 Ignition Cartridge Removal and Insertion.
APE 1151—REMOVER, TEAR STRIP

Use:
The tear strip remover is used with a pair of pliers to remove the tear strip from hermetically sealed containers ranging in diameter from 1.37 inches to 4.06 inches and in length from 2.1 inches to 12 inches.

Description:
APE 1151 consists of a steel frame with three rollers which can be adjusted to the size of the container being opened.

Difference Between Models:
Original design.

Tabulated Data:
APE No. .................. 11510000
Unit of Issue .......... Each

Installation Data:
Length ................... 14-3/4 in.

Utilities Required:
None.

Production Capacity:
Varies with condition of containers.

Shipping Data:
Length .................. 16 in.
Width .................... 8 in.
Height .................... 6 in.
Cube ....................... 0.5 cu ft
Weight ................... 24 lbs

Associated Equipment:
None.

Kits:
None.
Use:
The vertical disassembly machine is used to remove fuzes from cartridges and projectiles; remove fin and boom assemblies from projectiles; remove primers from cartridge cases; and remove closing screws from fuzes.

Description:
APE 1153M1 consists of a frame, a movable clamp assembly, a rachet type clutch and a high torque air drive motor.

Difference Between Models:
The APE 1153M1 assembly is raised and lowered mechanically. It also has an improved timer, a different clutch, and a more powerful air motor.

Tabulated Data:

<table>
<thead>
<tr>
<th>APE No.</th>
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<tbody>
<tr>
<td>Unit of Issue</td>
<td>Each</td>
</tr>
<tr>
<td>Installation Data:</td>
<td></td>
</tr>
<tr>
<td>Length</td>
<td>37 in.</td>
</tr>
<tr>
<td>Width</td>
<td>26 in.</td>
</tr>
<tr>
<td>Height</td>
<td>84 in.</td>
</tr>
<tr>
<td>Weight</td>
<td>540 lbs</td>
</tr>
<tr>
<td>Utilities Required:</td>
<td>Air at 90 psi and 83 cfm.</td>
</tr>
<tr>
<td>Production Capacity:</td>
<td>500 to 1000 items per 8 hour shift depending on operation being performed.</td>
</tr>
</tbody>
</table>
Shipping Data:

Length ................. 43 in.
Width .................. 32-1/2 in.
Height .................. 92 in.
Cube .................... 74 tuft
Weight .................. 675 lbs

Associated Equipment:
None.

Kits:
1153E001 KIT, Deprime 60mm Mortar:
M49A2, M83, and M302; 81mm Mortar:
M43A1, M56, M57, M57A1, M301A1, and M301A2
1153E002 KIT, Deprime 90mm: M371 HEAT
1153E003 KIT, Remove Head from Adapter, M519 Fuze
1153E005 KIT, Remove PD Fuze from 90mm and 105mm Projectiles
1153E006 KIT, Remove BD Fuze M9A1, M66A1, M66A2, M68 and/or Tracer M5 series from 75mm M349; 76mm M319; 90mm M82, M142E3, M332A1; 105mm M326; 106mm M346A1
1153E014 KIT, Remove Fins: M2 and M6 from 60mm Mortar Cartridges and Fins M3 and M6 from 81mm Mortar Cartridges
1153E016 KIT, Remove Booster from M52 Fuze
1153E019 KIT, Remove Fuze from Projectile, 57mm, M307A1
1153E020 KIT, Remove M524 Fuze from Cartridge, 81mm: M362
1153E024 KIT, Defuze 60mm, 81mm and 4.2-Inch Mortar Cartridges
1153E025 KIT, Remove Bottom closing Screw from Fuze PD: M78
1153E027 KIT, Remove Booster Assembly and/or Cup from Standard Contour Fuzes
1153E028 KIT, M19 Rifle Grenade FIN Assy Removal
1153E029 KIT, Remove Ignition Cartridge, Housing from 81mm Mortar M362, M362A1, M370, M374, M374A1, M374A2, M375A1, M375A2
1153E031 KIT, Remove Ignition Cartridge, Housing from 81mm M158 Fin Assembly
1153E032 KIT, Deprime 81mm Mortar M301A3, M362, M362A1, M370, M374, M374A2, M375, M375A1, M375A2
1153E033 KIT, Remove M8 Fuze from M14 Burster-4.2 Mortar
APE 1159--DEVICE, VERTICAL LID REMOVAL

Use:
The vertical lid removal device is used to remove the tape and lid from small fiber containers such as those used for hand grenades, fuzes and 60MM mortar fuzes.

Description:
APE 1159 consists of a base, a container clamping assembly, a lid removal assembly, and an operating lever. The device is hand operated.

Difference Between Models:
Original design.

Tabulated Data:
APE No. .................. 11590000
Unit of Issue ............. Each
Installation Data:
  Length .................. 14 in.

Utilities Required:
None.

Production Capacity:
Not applicable.

Weight .................. 5 in.
Height .................. 11-3/8 in.
Weight .................. 15 lbs

Shipping Data:
Length .................. 16 in.
Width .................. 7 in.
Height .................. 14 in.
Cube .................. 0.9 cu ft
Weight .................. 20 lbs

Associated Equipment:
None.

Kits:
None.
Use:
The cartridge case resizing machine is used to remove the crimp indentation and to resize the necks of brass and steel cartridge cases.

Description:
APE 1164 consists of a table, an air tank mounted under the table, four bolster rods, an air motor, drive gears, and the control valves.

Difference Between Models:
Original design.

Tabulated Data:
APE No. .................. 11640000
Unit of Issue ............. Each
Installation Data:
  Length .................... 42 in.
  Width ...................... 24 in.
  Height .................... 92 in.
  Weight .................... 540 lbs
Utilities Required:
  Air at 100 psi and 120 cfm.
Production Capacity:
  2100 90MM brass cartridge cases per 8 hour shift.
Shipping Data:
Length ....................... 59 in.
Width ......................... 44 in.
Height ........................ 96 in.
Cube ........................... 145 cu. ft.
Weight .......................... 1222 lbs.

Associated Equipment:
None.

Kits:
1164E001, Kit, Resize 75MM: M31A1 Cartridge Cases
1164E002, Kit, Resize 76MM: M88 Cartridge Cases
1164E003, Kit, Resize 57MM: M30 Cartridge Cases
1164E004, Kit, Resize 57MM: M23 Cartridge Cases
1164E005, Kit, Resize 75MM: M35 (T6E3) Cartridge Cases
1164E006, Kit, Resize 75MM: M18 Cartridge Cases
1164E007, Kit, Resize 75MM: M9A1 Cartridge Cases
1164E008, Kit, Resize 76MM: M26 Cartridge Cases
1164E009, Kit, Resize 76MM: M101 Cartridge Cases
1164E010, Kit, Resize 90MM: M19, M108, T24 Cartridge Cases
1164E011, Kit, Resize 105MM: M32 Cartridge Cases
1164E012, Kit, Resize 105MM: T43 Cartridge Cases
1164E013, Kit, Resize 105MM: M90 and M95 Cartridge Cases
1164E014, Kit, Resize 106MM Cartridge Cases with Double Crimp
1164E015, Kit, Resize 90MM: M112 Cartridge Cases
Use:
The positive stop device is used to prevent over-drilling of stake marks and setscrews.

Description:
The device consists of a metal sleeve with a setscrew which fits over a drill. The setscrew locks the drill in the sleeve at the desired position to control the drilling depth.

Difference Between Models:
Original design.

Tabulated Data:
APE No: 1171
Unit of issue: Each

Installation Data:
Length: 3 in.
Width: 1-1/2 in.
Height: 1-1/2 in.
Weight: 3/4 lbs.

Utilities Required:
None

Production Capacity:
Not applicable

Length: 4 in.
Width: 2 in.
Height: 2 in.
Cube: 16 cu in.
Weight: 1 lb.

Associated Equipment:
None

Kits:
None
APE 1176—CART, AMMUNITION, PROJECTILE, 37MM THROUGH 105MM

Use:
The ammunition cart is used to transport six projectiles during maintenance operations. The projectiles can be up to 18 inches long and 4.5 inches in diameter. Maximum load on cart cannot exceed 400 pounds.

Description:
APE 1176 consists of a metal frame with four wheels. It is equipped with brakes to hold the cart in place when not in use. The rack on top of the frame holds six projectiles.

Difference Between Models:
Original design.

Tabulated Data:
APE No. .........................11760000
Unit of Issue .....................Each

Installation Data:

Utilities Required:
None.

Production Capacity:
Not applicable.

Shipping Data:
Length ................. 40 in.
Width ..................... 24 in.
Height .................... 36 in.
Cube .................... 20 cu ft
Weight ................... 100 lbs

Associated Equipment:
None.

Kits:
1176E001 KIT, 105MM M115 Cartridge Case Wood Rack
Use:
The complete round ammunition cart is used to transport four complete rounds of ammunition during maintenance operations. The cart accommodates 37MM through 105MM cartridges up to 40 inches long.

Description:
APE 1177 consists of a metal frame with four wheels. It is equipped with brakes to hold the cart in place when not in use. The rack on top of the frame holds four cartridges.

Difference Between Models:
Original design.

Tabulated Data:
APE No. ...................... 11770000
Unit of Issue ................ Each

Installation Data:
Length .................... 45-1/4 in.
Width ...................... 24-1/2 in.
Height ..................... 37-1/2 in.
Weight ..................... 90 lbs

Utilities Required:
None.

Production Capacity:
Not applicable.

Shipping Data:
Length .................... 48 in.
Width ...................... 28 in.
Height ..................... 48 in.
Cube ....................... 37 cu ft
Weight ..................... 125 lbs

Associated Equipment:
None.

Kits:
None.
Use:
The small items ammunition cart is used to transport fuzes and other small items during maintenance operations.

Description:
APE 1178 consists of a metal frame with four wheels. It is equipped with brakes to hold the cart in place when not in use. The cart holds five small item racks.

Difference Between Models:
Original design.

Tabulated Data:
APE No. .................. 11780000
Unit of Issue ............. Each

Installation Data:
Length .................... 37 in.
Width ...................... 22 in.
Height ..................... 33 in.

Utilities Required:
None.

Production Capacity:
Not applicable.

Shipping Data:
Length .................... 42 in.
Width ...................... 24 in.
Height ..................... 40 in.
Cube ........................ 23.4 cu ft
Weight .................... 110 lbs

Associated Equipment:
None.

Kits:
1178E001 KIT, M70 Mine Rack
1178E002 KIT, M36, M39, M42, M43A1, and M46 Grenade Rack
Use:
The continuity test equipment is used to protect operating personnel while conducting the circuit continuity testing of 2.75-, 3.5-, and 5-inch rocket motors.

Description:
APE 1189 consists of an operational shield, holding fixtures for 2.75-, 3.5-, and 5-inch rockets, and electrical connections for a continuity tester.

NOTE
User must supply test instrument.

Difference Between Models:
Original design.

Tabulated Data:
APE No. ................. 11890000
Unit of Issue ........... Each
Installation Data:
Length .................. 40 in.
Width ................... 36 in.
Height ................... 81 in.
Weight ................... 2358 lbs
Utilities Required:
Air at 60 psi and 50 cfm.
Production Capacity:
120 per hour with warhead;
240 per hour without warhead.
Shipping Data:
Length . . . . . . . . . . . . . . . . ..56 in.
Width . . . . . . . . . . . . . . . . ...46 in.
Height . . . . . . . . . . . . . . . . ..90 in.
Cube . . . . . . . . . . . . .......134.1 cu ft
Weight . . . . . . . . . . . . . . . ...2693 lbs

Associated Equipment:
APE 1980 Continuity Tester Alinko

Kits:
1189E001 KIT, Continuity Test 2.75-Inch Rocket Motors w/, Press Type Closures
1189E002 KIT, Continuity Test 3.5-Inch Rocket Motors
1189E003 KIT, Continuity Test 5-Inch Rocket Motors
1189E004 KIT, Continuity Test 2.75-Inch Rockets with Solid Bulkhead Closures or with M151 or XM229 Warheads and 2.75-Inch Rocket Motor, w/Screw Type Closing Plug, MK4, Mods 8 and 9; MK40, Mods 1 and 2
1189E011 KIT, Continuity Test 5-Inch M3 JATO Rocket Motors
1189E013 KIT, Accessory for Continuity Testing M37 & M37A1 Honest John Spin Rockets
1189E014 KIT, Accessory for Continuity Testing M7A2B1 Spin Rockets
1189E015 KIT, Accessory for Continuity Testing 2.75 Inch Rocket Motor MK40 with Warhead M151, M156, M229, M247, WTU/1B and WDU-4A/A (Remote Operation only) without manually removal of shorting clip
1189E016 KIT, Accessory for Continuity Testing 2.75 Inch Rocket Motor MK40 only without manually removing shorting clip. Machine Tests for proper shorting lifts clip and tests continuity, replaces shorting clip, and ensures proper shorting by remote operation.
1189E017 KIT, Accessory for Continuity Testing of MK66, 2.75 Inch Rocket Motor
APE 1195--REMOVER, TAPE AND LID, FIBER CONTAINER

Use:
The fiber container lid and tape remover is used when opening fiber containers containing mortars, cartridges, hand grenades, and fuzes.

Description:
APE 1195 consists of a base, an air control assembly, and a clamping assembly. The clamping assembly consists of an air cylinder and a stop. The air cylinder and stop are equipped with rollers which allow the container to turn when removing the sealing tape.

Difference Between Models:
Original design.

Tabulated Data:

<table>
<thead>
<tr>
<th>APE No.</th>
<th>11950000</th>
</tr>
</thead>
<tbody>
<tr>
<td>Unit of Issue</td>
<td>Each</td>
</tr>
</tbody>
</table>

Installation Data:
- Length: 20 in.
- Width: 7 in.
- Height: 7 in.
- Weight: 20 lbs

Utilities Required:
- Air at 90 psi.

Production Capacity:
- Not applicable.

Shipping Data:
- Length: 24 in.
- Width: 8 in.
- Height: 8 in.
- Cube: 0.9 cub ft
- Weight: 25 lbs

Associated Equipment:
- None.

Kits:
- None.
Use:
The ammunition cleaning machine is used to provide a safe and effective method of removing rust and corrosion from artillery projectiles, ammunition components, and metal packing material.

Description:
APE 1200 consists of two basic components: a light-weight portable cleaning cabinet and portable abrasive blast unit. The cabinet is equipped with rollers and a track to permit items to be pushed inside the cabinet and rotated during cleaning operations.

Difference Between Models:
Original design.

Tabulated Data:
APE No. ..................... 12000000
Unit of Issue ................. Each
Installation Data:
BLAST UNIT:
  Length ..................... 31 in.
  Width ..................... 22 in.
  Height ..................... 59 in.
  Weight ..................... 1075 lbs
CABINET:
  Length ..................... 102 in.
  Width ..................... 28 in.
  Height ..................... 78 in.
  Weight ..................... 1150 lbs
Utilities Required:
  Air at 90 psi and 95 cfm.
Production Capacity:
  Depends on items being processed.

Shipping Data:
BLAST UNIT:
  Length ..................... 36 in.
  Width ..................... 36 in.
  Height ..................... 72 in.
  Cube ........................ 54 cu ft
  Weight ..................... 1400 lbs
CABINET:
  Length ..................... 114 in.
  Width ..................... 48 in.
  Height ..................... 42 in.
  Cube ........................ 133 cu ft
  Weight ..................... 1450 lbs
Associated Equipment:
  None.

Kits:
  1200E001 KIT, Clean 60MM Mortar
Use:
The hand grenade de fuzing machine is used to remove fuzes from hand grenades in a shielded operation.

Description:
APE 1202M1 consists of a six section turntable mounted in an operational shield. An air cylinder rotates the turntable 60 degrees at a time. Holding cups are mounted in each section of the turntable and are used to secure the grenade being disassembled. Barricade does not meet MIL-STD-398 requirements for M15 and M34 WP grenades and must be used in a remote operation when 1200E005 and 1202E007 kits are used to defuze these rounds.

Difference Between Models:
APE 1202M1 version has an improved operational shield.

Tabulated Data:

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<thead>
<tr>
<th>APE No.</th>
<th>12020000M1</th>
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</thead>
<tbody>
<tr>
<td>Unit of Issue</td>
<td>Each</td>
</tr>
<tr>
<td>Installation Data</td>
<td></td>
</tr>
<tr>
<td>Length</td>
<td>37-1/4 in.</td>
</tr>
<tr>
<td>Width</td>
<td>35 in.</td>
</tr>
<tr>
<td>Height</td>
<td>75-5/8 in.</td>
</tr>
<tr>
<td>Weight</td>
<td>1750 lbs</td>
</tr>
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</table>
Utilities Required:
Air at 80 psi and 27 cfm.

Production Capacity:
140 to 180 grenades per hour - remote operation.
250 to 300 grenades per hour - attended operation.

Shipping Data:
Length ..................... 46 in.
Width ........................ 46 in.
Height ........................ 85 in.
Cube .......................... 104 cu ft
Weight ........................ 1900 lbs

Associated Equipment:
APE 1213M1 pitch in barricade for fragmentation grenades. APE 2252 pitch in barricade for chemical grenades.

Kits:
1202E003 KIT, Remove Fuze from M26, M26A1 & M61 Hand Grenade
1202E004 KIT, Remove Fuzes from MK2 Hand Grenades
1202E005 KIT, Remove Fuzes from M34 WP Smoke Grenades
1202E006 KIT, Remove Fuzes from M6, M7, M8, M14 and M18 Chemical Grenades
1202E007 KIT, Remove Fuzes from M15 WP Smoke Grenades
1202E009 KIT, Remove Fuzes from MK3A2 Offensive Hand Grenades
1202E0101 KIT, Remove Fuzes from M33, M67 Delay Fragment Grenades and M69 Practice Grenades
1202E011 KIT, Remove Fuzes from M6, M7, M8, M14, and M18 Chemical Grenade
Use:
The pneumatic vise is used to hold ammunition items for repair and/or renovation. Items range in size from 37MM to 120MM including 2.75-inch and 3.5-inch rockets.

Description:
APE 1204 consists of a base, an air brake chamber, a valve assembly controlled by a safety shield, and a filter-regulator-lubricator.

Difference Between Models:
Original design.

Tabulated Data:
APE No. 1204
Unit Of Issue . . . . . . . . . . . . . . Each
Installation Data:
Length .................. 20 in.
Width .................. 10 in.
Height .................. 9 in.
Weight .................. 48 lbs
Utilities Required:
Air at 80 psi and 81 cfm.
Production Capacity:
Depends on operation being performed.

Shipping Data:
Length ................. 30 in.
Width ................. 19 in.
Height ................. 12 in.
Cube .................. 4 cu ft
Weight ................ 135 lbs

Associated Equipment:
None.

Kits:
1204E001 KIT, Jaw, 120MM
1204E002 KIT, Jaw, 37MM
1204E003 KIT, Jaw, 40MM
1204E004 KIT, Jaw, 57MM
1204E005 KIT, Jaw, 75MM
1204E006 KIT, Jaw, 76MM
1204E007 KIT, Jaw, 90MM
1204E009 KIT, Jaw, 81MM: M43 Series Projectile
1204E010 KIT, Jaw, 3.5 Inch Rocket
1204E011 KIT, Jaw, 2.75 Inch Rocket Warhead
1204E012 KIT, Jaw, 60MM: M49A2 and M50A2
1204E013 KIT, Jaw, 2.75 Inch Rocket Warhead: MK5 Mod 0
1204E014 KIT, Jaw, 81MM: M57, M362, M370, M374, and M375
1204E015 KIT, Hold, 2.75 Inch Rocket Motor
1204E016 KIT, Jaw, 4.2 Inch, 105MM or 106MM Projectile
1204E017 KIT, Jaw 60MM Cartridge M302, M302A, M49A2, M49A3, M49A4, M49A5, M50A2, M50A3, M720, M722, M888
1204E018 Kit, 120MM Mortar Jaw
1204E019 Kit, 81MM Mortar Jaw
Use:
The paint spray booth is used in production line painting of packing materials and ammunition items.

Description:
The booth, is a floor style, self supported, dry filter type, with a 15 foot face opening. It is complete with exhaust fan system, automatic shut down control, monorail and roller conveyor openings.

Difference Between Models:
A Tech Data Package was developed to replace original purchase description, to insure conformity of design.

Tabulated Data:
APE No. 1205M1
Unit of issue: Each

Installation Data:
Length: 12 ft.
Width: 15 ft. 6 in.
Height: 9 ft. plus max 4 ft. 6 in. exhaust stack
Weight: Not available

Utilities Required:
220/440 VAC, 3 phase, 60 HZ,
Production Capacity:
Not applicable.

Shipping Data: (Approximately)
Crate 1
   Length: ............... 113 in.
   Width: ................. 61 in.
   Height: ............... 74 in.
   Cube: .................. 575 cu ft. (Total)
   Weight: ............... 5824 lbs. (Total)

Shipping Data: (Approximately)
Crate 2
   Length: ............... 95 in.
   Width: ................. 43 in.
   Height: ............... 20 in.

Crate 3
   Length: ............... 93 in.
   Width: ................. 59 in.
   Height: ............... 62 in.

Crate 4
   Length: ............... 203 in.
   Width: ................. 22 in.
   Height: ............... 14 in.

Associated Equipment:
APE 1022M1 Conveyor, Powered Belt
Ape 1044M1 System, Monorail Conveyor

Kits:
None
Use:
The three spindle disassembly machine is used for screw type disassembly operations such as removing boosters from fuzes.

Description:
APE 1206 has three stations to disassemble fuzes. An air motor powers a drive chain which rotates the disassembly heads. The disassembly system is mounted on a steel frame.

Difference Between Models:
Original design.

Tabulated Data:
APE No. ................. 12060000
Unit of Issue ............ Each

Installation Data:
Length .................... 36 in.

Utilities Required:
Air at 90 psi and 80 cfm.

Production Capacity:
2500 boosters per 8 hour shift.

Shipping Data:
Length .................... 42 in.
Width ...................... 50 in.
Height ..................... 42 in.
Cube ....................... 50.5 cu ft
Weight ..................... 1500 lbs

Associated Equipment:
None.

Kits:
None.
Ape 1208—Machine, Vertical Debanding

Use:
The vertical debanding machine is used to remove rotating bands from 37MM through 106MM projectiles.

Description:
APE 1208 consists of a welded steel frame, a revolving feed table, a knurling assembly, and a 10 horsepower variable speed motor.

Difference Between Models:
Original design.

Tabulated Data:
APE No. ......................12080000
Unit of Issue ...............Each
Installation Data:
  Length .....................80 in.
  Width ........................48 in.
  Height ......................64 in.
  Weight .....................7050 lbs
Utilities Required:
  220/440 vac, 60 Hz, 3 phase.

Production Capacity:
Depends on size and condition of projectile.

Shipping Data:
  Length .....................8 ft
  Width .....................5 ft
  Height ......................6-1/2 ft
  Cube .......................260 cu ft
  Weight ....................7500 lbs

Associated Equipment:
None.

Kits:
  1208E001 KIT, Deband 90MM: M71 Projectiles
  1208E002 KIT, Deband 57MM Projectiles
  1208E003 KIT, Deband 75MM and 76MM Projectiles
  1208E004 KIT, Deband 37MM and 40MM Projectiles
  1208E005 KIT, Deband 105MM and 106MM Projectiles
Use:
The taping machine is used to apply sealing tape to fiber or metal containers ranging in length from 12 inches to 44 inches and up to 8-1/2 inches in diameter.

Description:
APE 1209M1 consists of a steel channel frame, a 360 degree actuator to revolve the container being taped, a clamp cylinder to seat the container lid against the container body, two tape holders with tape cutters, and a roller conveyor to feed the containers from the main conveyor line to the machine.

Difference Between Models:
Not available.

Tabulated Data:
APE No. ............... 12090000M1
Unit of Issue ............. Each

Installation Data:
Length ..................... 80 in.

Width ..................... 28 in.
Height ..................... 72 in.
Weight ..................... 300 lbs

Utilities Required:
Air at 80 psi and 6 cfm.

Production Capacity:
2520 double lid containers per 8 hour shift; 3360 single lid containers per 8 hour shift.

Shipping Data:
Length ..................... 96 in.
Width ..................... 30 in.
Height ..................... 78 in.
Cube ......................... 130 cu ft
Weight ..................... 700 lbs

Associated Equipment:
None.

Kits:
1209E001 KIT, Apply Three Wraps of Tape
1209E003 KIT, 2.75 Rocket (for up to 68" length containers)
Use:
The disassembly machine is used to remove the base plate from 155MM: M116 HC smoke projectiles and the warhead from 4.5” rocket. This machine is used if APE 1002M2 cannot perform the disassembly operation.

Description:
APE 1210 consists of a frame, a pneumatic wrench, a thrust cylinder to position the pneumatic wrench, and a pneumatic vise clamp.

Difference Between Models:
Original design.

Tabulated Data:
APE No. ..................12100000
Unit of Issue .................Each

Installation Data:
Length ...................65 in.
Width ...................40 in.
Height ...................43 in.
Weight ...................1000 lbs

Utilities Required:
Air at 100 psi.
Production Capacity:
55 projectiles per hour.

Shipping Data:
Length ...................72 in.
Width ...................44 in.
Height ...................48 in.
Cube ...................89 cu ft
Weight ...................1400 lbs

Associated Equipment:
None.

Kits:
1210E002 KIT, Remove Warhead from 4.5-Inch Rocket
Use:
The debanding machine is used to remove the rotating bands from 120MM through 280MM projectiles.

Difference Between Models:
APE 1212 was the pilot model. APE 1212M1 has a stronger structure.

Description:
APE 1212M1 frame is constructed of heavy steel channel and I beams welded together. A 25 horsepower motor is mounted on the frame. The motor is connected to a knurling wheel drive shaft by a sprocket drive shaft. A fulcrum arm assembly moves the projectile against the knurling wheel. An auxiliary hydraulic power source operates the cylinders.

Tabulated Data:
APE No. ............... 12120000M1
Unit of Issue .......... Each
Installation Data:
MACHINE:
Length ............... 86 in.
Width ............... 94 in.
Height ............... 129 in.
Weight .............. 11000 lbs
POWER UNIT:
Length .................. 74 in.
Width .................... 30 in.
Height ................... 45 in.
Weight .................... 500 lbs

Utilities Required:
208-220/440 vac, 60 Hz, 3 phase.

Production Capacity:
740 120MM/155MM projectiles per 8 hour shift; 300 240MM projectiles per 8 hour shift.

Shipping Data:
MACHINE:
Length ................... 96 in.
Width .................... 102 in.
Height ................... 138 in.
Cube ....................... 782 cu ft
Weight ................... 15000 lbs

POWER UNIT:
Length .................... 80 in.
Width ..................... 36 in.
Height .................... 60 in.
Cube ....................... 100 cu ft
Weight .................... 750 lbs

Associated Equipment:
None.

Kits:
1212E001 KIT, Deband 280MM Projectiles
1212E002 KIT, Deband 8-Inch and 240MM Projectiles except 8-Inch M106
1212E003 KIT, Deband 155MM Projectiles
1212E004 KIT, Deband 175MM Projectiles
1212E005 KIT, Deband 120MM Projectile with single rotating band
Use:
The barricade is intended for use adjacent to hand grenade maintenance and renovation operations. It provides a protective enclosure into which an operator can "throw" a grenade he has reason to suspect may accidentally function. The Barricade affords protection to the operator and other immediate personnel should the grenade function or it provides a holding chamber should the grenade prove to be a dud. The Barricade was tested in compliance with MIL-STD-398 and can be used with all fragmenting grenades except those having impact sensitive fuzes.

Description:
APE 1213M1 is fabricated from heavy steel plates, box shaped and welded. Four channel iron legs support the structure and the large metal grenade containment sphere. The sphere is attached to the metal chute covering the barricade by a perforated aluminum duct. The duct attaches to the seven inch round opening on the barricade chute and extends at a 60 degree angle into the interior of the containment sphere. The aluminum duct houses a flexible, accordion, folding, canvas sock.
The sock is a basic part of the machine and must be installed prior to using the barricade. The sock functions with the barricade’s dud removal kit to remove dud grenades.

**Difference Between Models:**
The APE 1213M1 differs from the original in that no wheels are installed. Baffles within the barricade were removed and a sphere, duct assembly installed as a replacement.

**Original configuration is authorized with the restrictions requiring the operator to wear earplugs, ear muffs and a full face shield.**

**Tabulated Data:**

APE 1202

**Equipment:**
- 2000 lbs.
- 36 in.

**Installation Data:**
- Each

**Shipping Data:**
- Not applicable.

**Production Capacity:**
- None.

**Utilities Required:**
- None.

**Production Equipment:**
- 12130000M1

**Production Data:**
- 2-76.1

**Associated Equipment:**
- APE 1213E002 Dud Removal Kit

**Utilities Required:**
- None.

**Production Capacity:**
- Not applicable.

**Shipping Data:**
- Not applicable.

**Production Equipment:**
- APE 1202

**Installation Data:**
- Each

**Shipping Data:**
- Not applicable.

**Production Capacity:**
- Not applicable.

**Shipping Data:**
- Not applicable.

**Associated Equipment:**
- APE 1213E002 Dud Removal Kit

**Utilities Required:**
- None.

**Production Capacity:**
- Not applicable.

**Shipping Data:**
- Not applicable.

**Associated Equipment:**
- APE 1202

**Utilities Required:**
- None.
Use:
The paint spray booth is used in production line painting of packing materials and ammunition items.

Description:
The booth is a floor style, self-supported, dry filter type, with a 19 foot face opening. It is complete with exhaust fan system, automatic shunt down, monorail and roller conveyor openings.

Installation Data:

<table>
<thead>
<tr>
<th>Item</th>
<th>Value</th>
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<tbody>
<tr>
<td>Height: 6 in.</td>
<td></td>
</tr>
<tr>
<td>Width: 6 ft.</td>
<td></td>
</tr>
<tr>
<td>Height: 9 ft.</td>
<td></td>
</tr>
<tr>
<td>Length: 12 ft.</td>
<td></td>
</tr>
<tr>
<td>Weight: 12140000M1</td>
<td></td>
</tr>
<tr>
<td>Exhaust Stack: Not availabe</td>
<td></td>
</tr>
</tbody>
</table>

Difference Between Models:

- Tech Data Package was developed to insure conformity of design.
- A Tech Data Package was developed to replace original purchase description.
- Installation data was developed to insure conformity of design.
- Exhaust fan system, automatic shunt down, monorail and roller conveyor openings were added.

Tabulated data:

<table>
<thead>
<tr>
<th>APE</th>
<th>Installation Data</th>
</tr>
</thead>
<tbody>
<tr>
<td>12140000M1</td>
<td>Length: 12 ft.</td>
</tr>
<tr>
<td></td>
<td>Width: 19 ft.</td>
</tr>
<tr>
<td></td>
<td>Height: 9 ft. plus max</td>
</tr>
<tr>
<td></td>
<td>Weight: 12140000M1</td>
</tr>
</tbody>
</table>
Utilities Required:
220 VAC, 3 phase, 60 HZ,

Production Capacity:
Not applicable.

Shipping Data: (Approximately)
Length: Not available
Width: Not available
Height: Not available
Cube: Not available
Weight: Not available

Associated Equipment:
APE 1044M1 System
APE 1022M1 Conveyor, Powered Belt
Monorail Conveyor

None

Kits:

Not applicable.

Associated Equipment:
APE 1044M1 System
APE 1022M1 Conveyor, Powered Belt
Monorail Conveyor
Use:
The rocket disassembly machine is used to disassemble 3.5-inch and 66MM rockets.

Description:
APE 1215M1 consists of a frame, lower head assembly, upper head assembly, fuze clamp assembly, detonator clamp assembly, pneumatic logic circuit board, remote control panel, and a hydraulic system. Production capacity depends on operation being performed.

Utilities Required:
* Air at 100 psi and 100 cfm.

Installation Data:
- Length: 1242 in.
- Height: 81 in.
- Width: 38 in.
- Weight: 1242 lbs

Tabulated Data:

<table>
<thead>
<tr>
<th>Apé No.</th>
<th>Unit of Issue</th>
<th>Installation Data</th>
</tr>
</thead>
<tbody>
<tr>
<td>12150000M1</td>
<td>Each</td>
<td>Length: 1242 in., Height: 81 in., Width: 38 in., Weight: 1242 lbs</td>
</tr>
</tbody>
</table>

Difference Between Models:
APE 1215M1 has improved valving and revolution counting capability.
Shipping Data:

- Length: 64 in.
- Width: 48 in.
- Height: 92 in.
- Cube: 164 cu ft
- Weight: 1600 lbs

Associated Equipment:

- APE 1065, 1196M1, 1204

Kits:

- 1215E002 KIT, Replace Igniter
- 1215E003 KIT, Disassemble 66Mm HEAT
- 1215E004 KIT, Hand Tools to Assemble 3.5-Inch Rocket Motor
- 1215E005 KIT, Replace Igniter in 3.5-Inch Rocket Motor
- 1215E006 KIT, Remove Detonator Housing from M404A2 Fuze
- 1215E007 KIT, Thread Chasing and Holding Fixture
- 1215E008 KIT, Hand Tools for Changing and Holding M404A2 Fuze
- 1215E009 KIT, Staking Gun, Spike, and Selfback Stealth, M404A2 Fuze
- 1215E010 KIT, Press out and Insert Nozzle Closure Plug in 1215E049 KIT
- 1215E049 KIT, Drilke Marks from M404A2 Fuze
- 1215E050 KIT, Tighten or Replace Rivets
- 1215E051 KIT, Alinement Bar 3.5-Inch Rocket
- 1215E052 KIT, Attunement Bar
- 1215E053 KIT, Hand Tools for Assembly

Assembly 66Mm Rocket: M72

Shipping Data:

- Capacity: 16 cu ft
- Length: 2.79 ft
- Width: 2.79 ft
- Height: 2.79 ft
- Weight: 64 lb
Use:
The 7.62MM linking machine is used to straight link, or ratio link 7.62MM cartridges with M13 links. The machine works with a sequence of 5 cartridges (i.e., 4-1, 3-2, 2-2-1, or 5-0) for ratio pack.

Description:
APE 1217M1 consists of two separate units: a linker, and a link feed chute. The linker unit is power operated and links cartridges in belts of various lengths. Cartridge belt break assembly is included to make belts containing 100 cartridges, 210 cartridges and 220 cartridges. One cartridge must be hand linked at the end of each belt. The cartridges can be linked in either a straight or ratio pack. The pack must be in sequence of five cartridges, namely: 2-2-1, 4-1 or 3-2 ratio, or all of one kind.

A 2-2-1 ratio would indicate two cartridges of one type, two of another type, and one of a third type. The link feed chute is attached to the linker for the linking operation. It feeds into the linker from two stations. An automatic shuttle device shifts the feed from one station to the other whenever a shortage of links occurs in the chute. The linker unit can be connected to a delinker machine, APE 2198, for ratio changing.
Difference Between Models:
Basic model included the delinker now designated as APE 2198.

Tabulated Data:
APE No. ................. 12170000M1
Unit of Issue .......... Each

Installation Data:
LINKER:
  Length ............... 132 in.
  Width ............... 84 in.
  Height .............. 67 in.
  Weight ............. 1970 lbs

LINK FEED CHUTE:
  Length ............... 48 in.
  Width ............... 24 in.
  Height .............. 62-1/2 in.
  Weight .............. 155 lbs

Utilities Required:
  115/230 vac, 60 Hz, single phase;
  air at 100 psi.

Production Capacity:
  600 cartridges per minute.

Shipping Data:
LINKER:
  Length ............... 144 in.
  Width ............... 96 in.
  Height .............. 78 in.
  Cube ................ 624 cu ft
  Weight ............. 2140 lbs

LINK FEED CHUTE:
  Length ............... 95 in.
  Width ............... 58 in.
  Height .............. 68 in.
  Cube ................ Not available
  Weight .............. Not available

Associated Equipment:
APE 2198 (for delinking only).

Kits:
None.
Use:
Vertical crimping machine is used to assemble and crimp fixed artillery ammunition 37MM thru 106MM. The case is crimped with an eight stab type.

Description:
APE 1220 consists of the platform with cartridge case shoe holder, crimping head, ogive and machine controls.

Difference Between Models:
Original design.

Tabulated Data:
APE No. .................... 12200000
Unit of Issue ............. Each
Installation Data:
  Length ...................... 40 in.
  Width ...................... 48 in.
  Height .................... 68 in.
  Weight ................... 1600 lbs
Utilities Required:
  Air at 90 psi and 50 cfm.
Production Capacity:
  2100 per 8 hour shift.
Shipping Data:
Length .................. 48 in.
Width ...................... 54 in.
Height ...................... 84 in.
Cube ....................... 126 cu ft
Weight ..................... 1750 lbs

Associated Equipment:
None.

Kits:
1220E001 Assemble and Crimp 75MM M48, M61, M66 or M338 with M18 Cartridge Case
1220E002 Assemble and Crimp 75MM TSO, M312, M334 to Cartridge Case M35
1220E003 Assemble and Crimp 76MM M93, M312, M315 to Cartridge Case M26 w/.150 Crimp Groove
1220E004 Assemble and Crimp 76MM M304 and M339 to Cartridge Case M88
1220E005 Assemble and Crimp 76MM M42 and M312 to Cartridge Case M26 w/.050 Groove
1220E006 Assemble and Crimp 90MM M71 to Cartridge Case M19
1220E007 Assemble and Crimp 90MM M307
1220E008 Assemble and Crimp 105MM M325, M326 to M94 and M95 Cartridge Case
1220E009 Assemble and Crimp 105MM M456 w/8 Stab Crimp
1220E010 Assemble and Crimp 57MM M307
1220E011 Crimp Ogive on M90 Fuze
Use:
The hole punch machine is used to punch pressure relief holes in the necks of fiber containers for 75MM through 120MM ammunition.

Description:
APE 1221 consists of a metal slide assembled to a flat metal base with two air brake cylinders attached to the metal slide. One guide block with die holder is stationary. The other is adjustable for the different diameter containers.

Difference Between Models:
Original design.

Tabulated Data:
APE No. .......... 12210000
Unit of Issue .......... Each
Installation Data:

Utilities Required:
Air at 80 psi and 3 cfm.
Production Capacity:
2100 containers per 8 hour shift.

Shipping Data:
Length ................. 41 in.
Width ................. 18 in.
Height .................. 20 in.
Cube ...................... 8 cu ft
Weight ................... 120 lbs

Associated Equipment:
APE 1003.

Kits:
None.
APE 1222—REMOVER, IGNITION CARTRIDGE AND PRIMER

Use:
The ignition cartridge and primer remover is used to remove M32 and M34 percussion primers and M5A1 and M8 ignition cartridges from 81MM, M43A1 mortar cartridges.

Description:
APE 1222 consists of a shipping box which is used as the base mount, a table top, holding vises, flash shields and disassembly tools.

Difference Between Models:
Original design.

Tabulated Data:
APE No . . . . . . . . . . . . . . . . 12220000
Unit of Issue . . . . . . . . . . . . . . Each

Installation Data:
Length . . . . . . . . . . . . . . . . 48 in.
Width . . . . . . . . . . . . . . . . 37-1/2 in.
Height . . . . . . . . . . . . . . . . 7 in.
Weight . . . . . . . . . . . . . . . . 400 lbs

Utilities Required:
None.

Production Capacity:
3 cartridges per minute.

Shipping Data:
Length . . . . . . . . . . . . . . . . 48 in.
Width . . . . . . . . . . . . . . . . 31-1/2 in.
Height . . . . . . . . . . . . . . . . 20-1/2 in.
Cube . . . . . . . . . . . . . . . . 18 cu ft
Weight . . . . . . . . . . . . . . . . 400 lbs

Associated Equipment:
None

Kits:
None
Use:
The torque fixture is used to hold M54, M55, and M500 series, M548, M564 and M565 fuzes for testing the torque required to set the fuze.

Description:
The fixture consists of a frame which is to be fastened to a table or other rigid surface, a drive ratchet shaft with fuze adapter and a ratchet device. A dual detent drive lug must be used for torque check of M548, M64 and M565 fuzes.

Difference Between Models:
Original Design

Tabulated Data:
APE No . . . . . . . . . . . . . . . 12230000

Unit of issue: . . . . . . . . . . . . Each

Installation Data
Length: . . . . . . . . . . . . . . . . . 9-1/2 in.
Width: . . . . . . . . . . . . . . . . . 7-1/4 in.
Height: . . . . . . . . . . . . . . . . . 21 in.
Weight . . . . . . . . . . . . . . . . . . 23 lbs.

Utilities Required:
None

Production Capacity:
Not applicable.

Shipping Data
Length: . . . . . . . . . . . . . . . . . 11 in.
Width: . . . . . . . . . . . . . . . . . 9 in.
Height: . . . . . . . . . . . . . . . . . . 25 in.
Cube: . . . . . . . . . . . . . . . . . 1.5 cu. ft.
Weight: . . . . . . . . . . . . . . . . . 28 lbs.

Associated Equipment:
None

Kits:
1223E001 Kit, Screwdriver
Use:
The disassembly machine is used to disassemble for modification renovation, or demilitarization, the projectile (with shaped charge) of 75MM through 105MM HEAT cartridges.

Description:
APE 1224 consists of a frame assembly, air driven motor, vise assembly and component assembly for each size cartridge.

Difference Between Models:
Original design.

Tabulated Data:
APE No. 12240000
Unit of Issue Each

Installation Data:
Length . . . . . . . . . . . . . . 30 in.
Width . . . . . . . . . . . . . . 30 in.
Height . . . . . . . . . . . . . . 46 in.
Weight . . . . . . . . . . . . . . 1100 lbs

Utilities Required:
Air at 90 psi and 83 cfm.
Production Capacity:
280 to 385 per hour.

Shipping Data:
Length . . . . . . . . . . . . . . Not available
Width . . . . . . . . . . . . . . Not available
Height . . . . . . . . . . . . . . Not available
Cube . . . . . . . . . . . . . . 23.73 cu ft
Weight . . . . . . . . . . . . . . Not available

Associated Equipment:
None.

Kits:
None.
APE 1227--MACHINE, VERTICAL DISASSEMBLY

Use:
The vertical disassembly machine was developed to remove the fin and boom assembly from the projectile of 90MM HEAT: M371 and 105MM M341 cartridges.

Description:
APE 1227 consists of a pneumatic drive motor, vise assembly, cartridge elevating assembly, and a fluidic industrial control counter system assembled to a metal stand. The control system is arranged to permit operation of the machine starting system by remote control.

Difference Between Models:
Original design.

Tabulated Data:
APE No. .................. 12270000
Unit of Issue .............. Each
Installation Data:
Length ...................... 44 in.
Width ....................... 41 in.
Height ...................... 77 in.
Weight ...................... 900 lbs
Utilities Required:
Air at 90 psi and 25 cfm.
Production Capacity:
840 cartridges per 8 hour shift.

Shipping Data:
Length ...................... 48 in.
Width ....................... 54 in.
Height ...................... 84 in.
Cube ........................ 126 cu ft
Weight ...................... 1200 lbs

Associated Equipment:
None.

Kits:
1227E001 KIT, Disassemble 90MM: M371 Cartridge
1227E002 KIT, Disassemble 105MM: M341 Cartridge
Use:
The prime and deprime machine is used to insert or remove press type primers from 37MM through 106MM cartridge cases. It may also be used to remove screw type primers from 37MM through 106MM cartridge cases which will be demilitarized.

Description:
APE 1229M1 design consists of a 1/2-inch thick steel barricade with a four station index turntable. An air-hydraulic unit supplies power to operate a punch cylinder. A series of valves and controls automatically function the machine.

Difference Between Models:
APE 1229M1 - Operational controls have been changed to a manifold system and pneumatic piping schematics are completely different.

Tabulated Data:
APE No. .................. 12290000M1
Unit of Issue ............ Each
Installation Data:
Length ................... 54 in.
Width ..................... 36 in.
Height .................... 71 in.
Weight ................... 3120 lbs
Shipping Data:

Length ................................ 60 in.
Width ................................... 48 in.
Height .................................. 84 in.
Cube ..................................... 140 cu ft
Weight ................................... 3370 lbs

Associated Equipment:
None.

Kits:

1229E004 KIT, Prime and Deprime
40MM: M25 Cartridge Case
1229E005 KIT, Prime and Deprime
57MM: M30 Cartridge Case
1229E006 KIT, Prime and Deprime
Cartridge Case, 57MM: M23; 75MM:
M35; and 76MM: M26

1229E007 KIT, Prime and Deprime
75MM: M5, M9, M18 Cartridge Cases
1229E008 KIT, Prime and Deprime
75MM: M31 and 76MM: M88 and M101
Cartridge Cases
1229E009 KIT, Prime and Deprime
Cartridge Case, 90MM: M19, M27,
M108; 105MM: M32, M90, M95;
106MM: M93, M94 Cartridge Cases
1229E010 KIT, Prime and Deprime
105MM: M14 and M15 Cartridge Case
1229E011 KIT, Prime and Deprime
120MM, M34, M24, and M109
1229E012 KIT, Deprime 3-inch:
MK7 Mod 0 Cartridge Case
1229E016 KIT, Demilitarize M21A4
Boosters
1229E020 KIT, Remove Detonator
from Rocket Fuze M404A2

NOTE

Kits are interchangeable with APE
1106 kits.
Use:
The crimping machine is used to crimp cartridge cases to projectiles with a roll type crimp at the cartridge case mouth. It can be adapted for use on 40MM through 6-inch cartridges.

Description:
APE 1231 consists of two units. The crimping unit is made up of a metal base, a crimping head and associated controls. The pump unit consists of a metal base which serves as the oil reservoir, an electric motor, a hydraulic pump, a filter unit, an oil cooler and electrical controls.

Difference Between Models:
Original design.

Tabulated Data:
APE No ................... 12310000
Unit of Issue ............... Each
Installation Data:
CRIMPING UNIT:
Length .................... 71 in.
Width ..................... 44 in.
Height .................... 54 in.
Weight .................... 2800 lbs
PUMPING UNIT:
  Length ................. 71 in.
  Width ................. 52 in.
  Height ................ 74 in.
  Weight ............... 3000 lbs
Utilities Required:
  230 vac, 3 phase, 60 Hz.
Production Capacity:
  Not available.

Shipping Data:
CRIMPING UNIT:
  Length ................ 75 in.
  Width .................. 48 in.
  Height ................ 62 in.

Cube ................. 129 cu ft
Weight ............... 3175 lbs

PUMPING UNIT:
  Length ................. 75 in.
  Width ................. 57 in.
  Height ............... 82 in.
  Cube ................. 203 cu ft
  Weight ............... 3305 lbs

Associated Equipment:
  None.

Kits:
  None.
Use:
The Army's hazardous waste incinerators are used to demilitarize and/or dispose of ammunition items and bulk explosive wastes. They will accommodate demilitarization of small arms ammunition, primers, fuzes, and boosters. They can be used to flash 75MM through 120MM projectiles after washout of explosive charge; and to deactivate drained chemical bombs, rockets, grenades and other miscellaneous items.

Description:
APE 1236M1 consists of the following: deactivation furnace, afterburner, high and low temperature gas coolers, cyclone, baghouse, draft fan, control panel, gas sampling system, and connecting ducting. It also includes: automatic feed system, feed and discharge conveyors, fuel oil and propane storage tanks, oil pump, and final exhaust stack.

Difference Between Models:
APE 1236M1 differs from the APE 1236 deactivation furnace in that APE 1236M1 has been modified to satisfy RCRA requirements for hazardous waste incinerators.
<table>
<thead>
<tr>
<th>Tabulated Data:</th>
<th>Shipping Data:</th>
</tr>
</thead>
<tbody>
<tr>
<td>APE No. ..........12360000M1</td>
<td>Detailed data available in the APE 1236M1 Operational Manual.</td>
</tr>
<tr>
<td>Unit of Issue . . . . . . Each</td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Installation Data:</th>
<th>Associated Equipment:</th>
</tr>
</thead>
<tbody>
<tr>
<td>Detailed data available in the APE 1236M1 Operational Manual.</td>
<td></td>
</tr>
</tbody>
</table>

Utilities Required:
- 300 kva, 220/440 vac, 60 Hz, 3 phase.

Production Capacity:
- Refer to APE 1236M1 Operational Manual.

Kits:
- None.
Use:
The motor from warhead separator is used to remove warheads from rocket motor on 115MM: M55 and 4.5-inch: M32 rockets.

Description:
APE 1240 consists of a modified commercial pipe threading machine and a remote control console.

Difference Between Models:
Original design.

Tabulated Data:
APE No. .................1240000
Unit of Issue ..........Each
Installation Data:
SEPARATOR:
  Length ..................68 in.
  Width ...................34 in.
  Height ..................53 in.
  Weight ..................1500 lbs
CONTROL CONSOLE:
  Length ..................24 in.

Utilities Required:
220 vac, 60 Hz, 3 phase; air at 100 psi and 100 cfm.
Production Capacity:
1000 rockets per 8 hour shift.

Shipping Data:
Length ..................84 in.
Width ...................42 in.
Height ..................72 in.
Cube ....................147 cu ft
Weight ..................1900 lbs

Associated Equipment:
None.

Kits:
1240E001 KIT, M55 Rocket
1240E002 KIT, 2.75 Inch Rocket APERS-T (Flechette) Warhead
Use:
The abrasive cleaning machine is used to clean the threads on the base of standard contour fuzes.

Description:
APE 1243 consists of a metal frame on which is installed a pneumatic drive motor, gear reduction box, conveyor chain, chain guards and fuze holders; and an abrasive blast cabinet.

Tabulated Data:
APE No. . . . . . . . . . . . . . . . . . . 12430000
Unit of Issue . . . . . . . . . . . . . . . . Each

Installation Data:
FRAME:
Length . . . . . . . . . . . . . . . . . . . . . 72 in.
Width . . . . . . . . . . . . . . . . . . . . . 24 in.
Height . . . . . . . . . . . . . . . . . . . . . 45 in.
Weight . . . . . . . . . . . . . . . . . . . . . 300 lbs.

BLAST CABINET
Length . . . . . . . . . . . . . . . . . . . . . 24 in.
Width . . . . . . . . . . . . . . . . . . . . . 24 in.
Height . . . . . . . . . . . . . . . . . . . . . 54 in.
Weight . . . . . . . . . . . . . . . . . . . . . 275 lbs.

Utilities Required
Air at 80 psi and 62 cfm.

Production Capacity:
2000 fuzes per 8 hour shift.

Shipping Data:
FRAME:
Length . . . . . . . . . . . . . . . . . . . . . 76 in.
Width . . . . . . . . . . . . . . . . . . . . . 36 in.
Height . . . . . . . . . . . . . . . . . . . . . 54 in.
Cube . . . . . . . . . . . . . . . . . . . . . 85 cu. ft.
Weight . . . . . . . . . . . . . . . . . . . . . 400 lbs.

BLAST CABINET:
Length . . . . . . . . . . . . . . . . . . . . . 30 in.
Width . . . . . . . . . . . . . . . . . . . . . 36 in.
Height . . . . . . . . . . . . . . . . . . . . . 66 in.
Cube . . . . . . . . . . . . . . . . . . . . . 41.5 cu. ft.
Weight . . . . . . . . . . . . . . . . . . . . . 357 lbs.

Associated Equipment:
None

Kits:
None
Use:
The pneumatic fuze wrench is used to assemble and disassemble standard contour artillery fuzes from artillery projectiles.

Description:
The unit consists of an air driven ratchet wrench with a rubber fuze inserting cup attached.

Difference Between Models:
Original design.

Tabulated Data:
APE No. . . . . . . . . . . . . . . . . . . 12470000
Unit of issue: . . . . . . . . . . . . . . . . . . . . . . . Each

Installation Data:
WRENCH
Length: . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . 17 in.
Width: . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . 2 in.
Height: . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . 2 in.
Weight: . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . 4 lbs.

CUP
Length: . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . 5-1/2 in.
Width: . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . 2-1/4 in.
Height: . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . 2-1/4 in.
Weight: . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . 1 lb.

Utilities Required:
Air at 90 PSI and 28 CFM.

Production Capacity:
350 fuzes per hour.

Shipping Data:
Length: . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . 18 in.
Width: . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . 4 in.
Height: . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . 4 in.
Cube: . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . 0.17 cu. ft
Weight: . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . 5 lbs.

Associated Equipment:
None

Kits:
None
**APE 1250--ADAPTER, NOSE CAP**

**Use:**
The nose cap adapter is used to assemble and torque the nose cap on the spike of the 90MM M371E1 HEAT projectile.

**Description:**
The unit consists of an adapter for gripping the nose cap.

**Difference Between Models:**
Original design.

**Tabulated Data:**
- **APE No.:** 12500000
- **Unit of issue:** Each

**Installation Data:**
- **Length:** 2-1/4 in.
- **Width:** 3-1/4 in.
- **Height:** 1-13/16 in.
- **Weight:** 1-1/8 lbs.

**Utilities Required:**
None

**Production Capacity:**
Not applicable.

**Associated Equipment:**
None

**Kits:**
None
Use:
The fuze deburring machine is used to remove staking burrs from fuze shoulders. It can debur fuzes with or without boosters assembled.

Description:
The machine consists of a pedestal mounted deburring mechanism with protective guards. The deburring mechanism is air operated. The fuze to be deburred is positioned in the machine by hand and rotated by hand.

Difference Between Models:
Original design.

Tabulated Data:
APE No. ..................... 12510000
Unit of Issue. .............. Each

Installation Data:
Length ...................... 30 in.
Width ....................... 24 in.
Height ...................... 48 in.
Weight ..................... 165 lbs

Utilities Required:
Air at 90 psi and 60 cfm.

Production Capacity:
Depends on condition of fuzes.

Shipping Data:
Length ...................... 53 in.
Width ....................... 27 in.
Height ...................... 34 in.
Cube ......................... 28 cu ft
Weight ..................... 318 lbs

Associated Equipment:
None.

Kits:
None.
Use:
The primer staking and continuity testing machine is used to stake the M86 primer into the 105MM M150 series cartridge case and measure the electrical resistance between the cartridge case and the primer. It has the capability to primer stake and continuity test the primer in a complete round.

Description:
APE 1254M1 consists of an operational shield with an air operated cylinder, an electrical probe, a staking head, an ohmmeter, a time control air valve, and a remote control system for use when complete rounds are processed.

Difference Between Models:
The APE 1254M1 machine has changed the bottom deflector to increased inside height to accommodate complete rounds and has added remote control capability.
Tabulated Data:
APE No. .................... 12540000M1
Unit of Issue ............. Each

Installation Data:
  Length ................... 36 in.
  Width .................... 25 in.
  Height .................... 82 in.
  Weight ................... 1000 lbs

Utilities Required:
  Air at 80 psi and 80 cfm.

Production Capacity:
  840 cartridge cases per 8 hour shift.

Shipping Data:
  Length ................... 48 in.
  Width .................... 30 in.
  Height ................... 96 in.

Cube ......................... 70 cu ft
Weight ....................... 1200 lbs

Associated Equipment:
  None.

Kits:
  1254E001 KIT, Stake M80 and M83 Primers into 105MM: M115 and M148 Cartridge Cases
  1254E002 KIT, Stake M58 Primers into 90MM: M108 Cartridge Cases
  1254E003 KIT, Stake Continuity Check: Navy 5/54 Cartridge Case
  1254E004 KIT, Stake Continuity: 105MM M148A1B1 Cartridge Case with M20 Primer
APE 1259--LINKING MACHINE, 7.62MM

Use:
The linking machine is used to link 7.62MM cartridges into M13 links. It can link straight pack or ratio pack in any sequence of five cartridges (i.e., 2-2-1, 3-2, 4-1).

Description:
APE 1259 is an APE 1114 link-delink machine without the delink features. The linker consists of cartridge feed chutes, a link feed assembly, a drum type linking mechanism, and a metal frame.

Difference Between Models:
Original design.

Tabulated Data:

<table>
<thead>
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<th>APE No.</th>
<th>Unit of Issue</th>
<th>Each Installation Data:</th>
</tr>
</thead>
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<td>12590000</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>Length ................. 40 in.</td>
</tr>
</tbody>
</table>

| Width ................ 50 in. |
| Height ................ 60 in. |
| Weight ................ 500 lbs |

Utilities Required:
115/230 vat, 60 Hz, single phase, 4.6 amp.

Production Capacity:
300 cartridges per minute.

Shipping Data:

| Length ................ 46 in. |
| Width ................ 43 in. |
| Height ................ 55 in. |
| Cube ..................... 63 cu ft |
| Weight ................ 743 lbs |

Associated Equipment:
None.

Kits :
1114E001 KIT, Blank Adapter
APE 1263--TORQUING FIXTURE, FUZE BOOSTER

Use:
The fuze booster torquing fixture is used to test the disassembly torque of the booster from the fuze.

Description:
The unit consists of a wrench adapter and two wooden booster holder blocks. The wrench adapter is cylindrical, has a standard contour fuze configuration opening with fuze lugs at the bottom, and a 1/2-inch square drive socket on top for assembly to a torque wrench. The booster holder blocks are to be used with a vise.

Difference Between Models:
Original design.

Tabulated Data:
APE No .......................... 12630000
Unit of issue: ...................... Each

Installation Data:
ADAPTER
Length: .......................... 3-5/8 in.
Width: ......................... 3-5/8 in.
Height: .............................. 7-1/2 in.
Weight: ............................ 3 lbs.

BLOCKS
Length: .......................... 5-5/8 in.
Width: ......................... 1-11/16 in.
Height: .............................. 2-1/4 in.
Weight: ............................ 2 lbs.

Utilities Required:
None

Production Capacity:
Not established.

Associated Equipment:
None

Kits:
None
Use:
The APE 1270M1, Automatic Lid Removal Machine is used to remove one or both lids from a cylindrical fiber ammunition container. The machine handles 40MM through 120MM projectile containers, with a maximum length of 50 inches.

Description:
The APE 1270M1 consists of a metal frame with a feed table and an ejection table. The machine is pneumatically powered with a clamping cylinder to hold the containers in place while pull cylinders on each end of the frame remove the lids from either end or both ends of the container. The user must determine the size range of the ammunition container intended for lid removal operations, in order to request an appropriate Clamp Shoe Kit.

Difference Between Models:
The APE 1270M1 has a longer frame making it possible to remove lids from 120MM containers. The APE 1270E004, 120MM Fiber Container Clamp Shoe Kit and the APE 1270E005, Immersion Tank Kit, are designed for use with the APE 1270M1 only.

Tabulated Data:
APE No: 12700000M1
Unit of issue: Each

Installation Data:
Length: 137 in.
Width: 52 in.
Height: 58 in.

Utilities Required:
Air at 100 psi.

Production Capacity:
10 containers per minute
Shipping Data:
Length: 145 in.
Width: 57 in.
Height: 67 in.
Cube: 285 cu. ft.
Weight: 1750 lbs.

Associated Equipment:
None

Kits:
1270E001, 40MM, Thru 60MM (Maximum 2-3/4 Inch Diameter) Fiber Container Clamp Shoe Kit
1270E002, 75MM Thru 81MM (Maximum 4-1/4 Inch Diameter) Fiber Container Clamp Shoe Kit
1270E003, 90MM Thru 105MM (Maximum 5-1/2 Inch Diameter) Fiber Container Clamp Shoe Kit
1270E004, 120MM (Maximum 8-1/4 Inch Diameter) Fiber Container Clamp Shoe Kit
1270E005, Immersion Tank Kit, provides a means of submerging leaking 60MM, Smoke, White Phosphorus (WP), M722 Cartridges during lid removal operations, as specified in Depot Maintenance Work Requirements (DMWR) 9-1310-B646-X20.
APE 1272-GAGE, DIAL INDICATING

Use:
The dial indicating gage is used to determine the wall thickness of M72 series rocket launcher used with 66MM rocket.

Description:
APE 1272 is a modified commercial thickness gage. The one jaw of the gage is modified.

Difference Between Models:
Original design.

Tabulated Data:
APE No. .......................... 12720000
Unit of Issue ...................... Each

Installation Data:
Length ............................. 9-1/4 in.
Width .............................. 3/4 in.

Height ......................... 10-3/4 in.
Weight ............................. 4 lbs

Utilities Required:
None.

Production Capacity:
Not applicable.

Shipping Data:
Length ............................. 10 in.
Width .............................. 1 in.
Height ............................. 10 in.
Cube ................................. 100 cu in.
Weight ............................. 5 lbs

Associated Equipment:
None.

Kits:
None.
APE 1277--TOOL, LINK-DELINK, 40MM M16 LINK

Use:
The link and delink tool is used to link or delink 40MM, M384 cartridges into M16 links.

Description:
The tool consists of a modified heavy duty caulking gun.

Difference Between Models:
Original design.

Tabulated Data:
APE No . . . . . . . . . . . . . . . . . . 12770000
Unit of issue: . . . . . . . . . . . . . . . . . . Each

Installation Data:
Length: . . . . . . . . . . . . . . . . . . . . 14 in.
Width: . . . . . . . . . . . . . . . . . . . . 2 in.
Height: . . . . . . . . . . . . . . . . . . . . 3 in.
Weight: . . . . . . . . . . . . . . . . . . . . 5 lbs.

Utilities Required:
None

Production Capacity:
Not applicable.

Shipping Data:
Length: . . . . . . . . . . . . . . . . . . . . 15 in.
Width: . . . . . . . . . . . . . . . . . . . . 3 in.
Height: . . . . . . . . . . . . . . . . . . . . 8 in.
Cube: . . . . . . . . . . . . . . . . . . . . . . . . . 0.21 cu. ft
Weight: . . . . . . . . . . . . . . . . . . . . . . . . . . 6 lbs.

Associated Equipment:
None

Kits:
None

(Change 1)2-103
Use:
The hot dip tank is used to jungle pack 81MM and 4.2-inch mortar ammunition. Jungle pack consists of dipping the inner pack containing the rounds into a wax-like compound to hermetically seal the container.

Description:
APE 1278M1 consists of a dip tank for heating sealing compound, an exhaust ventilator hood (furnished CONUS installations only), two wrapping fixtures, and four pairs of lifting tongs. The inside dimensions of the tank are 24” minimum width, 24” minimum depth, and 60” minimum length.

Difference Between Models:
The ventilator hood, two wrapping fixtures and four pairs of lifting tongs, are supplied with the APE 1278M1 only. The APE 1278M2 consists only of a hot water conditioning tank.

Tabulated Data:
APE No. .................. 12780000M1
Unit of Issue ............. Each
Installation Data:
HOT DIP TANK:
Length .................... 77 in.
Width ...................... 30 in.
Height ..................... 42 in.
Weight ..................... Not available
VENTILATOR HOOD:
- Length: 60 in.
- Width: 24 in.
- Height: 32 in.
- Weight: Not available

WRAPPING FIXTURE (EACH):
- Length: 44 in.
- Width: 28 in.
- Height: 35 in.
- Weight: Not available

Utilities Required:
- 220 vac, 3 phase, 60 Hz.

Production Capacity:
- Not applicable.

Shipping Data:
BOX:
- Length: 58 in.
- Width: 50 in.

Height: 37 in.
Cube: 61 cu ft
Weight: 645 lbs

CRATE:
- Length: 100 in.
- Width: 77 in.
- Height: 49 in.
- Cube: 215 cu ft
- Weight: 2540 lbs

Associated Equipment:
- None.

Kits:
- 1278E002 KIT, Counter Balance for Dip Tank Cover
Use:
The hot water conditioning tank is used in the conditioning of materials which must be warmed in a hot water bath prior to installation or use.

Description:
APE 1278 consists of a dip tank for heating water. The inside dimensions of the tank are 24 inch minimum width, 24 inch minimum depth, and 60 inch minimum length.

Difference Between Models:
The ventilator hood, two wrapping fixtures and four pairs of lifting tongs are supplied with the APE 1278M1 only. The APE 1278M2 consists only of a hot water conditioning tank.

Tabulated Data:
APE No. .................. 12780000M2
Unit of Issue ................ Each
Installation Data:
  Length .................... 77 in.
  Width ..................... 30 in.
  Height ................... 42 in.
  Weight ................... Not available
Utilities Required:
  220 vac, 3 phase, 60 Hz.
Production Capacity:
  Not applicable.
Shipping Data:

BOX:

Length .................... 58 in.
Width .......................... 50 in.
Height ...................... 37 in.
Cube ............................. 61 cu ft
Weight .................... 645 lbs

CRATE:

Length ............................ 100 in.
Width ................................. 77 in.
Height .............................. 49 in.
Cube ............................... 215 cu ft
Weight ........................... 2540 lbs

Associated Equipment:

APE 2230, Obturator installation Fixture

Kits:

1278E001 KIT, Centering Band Holding Rack, 155MM
1278E003 KIT, Obturator Holding Rack, 155MM
1278E004 KIT, Obturator Holding Rack 8 Inch
Use
The paint spray booth is used in production line painting of packing materials and ammunition items.

Description:
The booth, is a floor style, self supported, dry filter type, with a 32 foot face opening. It is complete with exhaust fan system, automatic shut down control, monorail and roller conveyor openings.

Difference Between Models:
A Tech Data Package was developed to replace original purchase description, to insure conformity of design.

Tabulated Data:
APE No. ................. 12800000M1
Unit of issue: ......... Each

Installation Data:
Length: .................. 12 ft.
Width: .................. 32 ft. 6 in.
Height: .................. 9 ft. plus max 4 ft. 6 in. Exhaust Stack
Weight: .................. Not available
Utilities Required:
   220 VAC, 3 phase, 60 HZ,

Production Capacity:
   Not applicable.

Shipping Data:
   CRATE 1
   Length: Not available
   Width: Not available
   Height: Not available
   Cube: Not available
   Weight: Not available

Associated Equipment:
   APE 1022M1 Conveyor, Powered Belt
   Ape 1044M1 System, Monorail Conveyor

Kits:
   None
Use:
The deep cavity and resize drill is used to drill out or resize the fuze cavity in 75MM through 280MM explosive loaded projectiles. It can also be used for powered thread cleaning. This machine will eventually be replaced by APE 7025.

Description:
APE 1283 consists of a metal frame, a projectile holding assembly, a self-centering drill, and pneumatic controls to operate the drill from a remote location.

Difference Between Models:
Original design.

Tabulated Data:
APE No. 12830000
Unit of Issue Each

Installation Data:
- Length ......................... 8 in.
- Width .......................... 39-7/8 in.
- Height .......................... 68-9/16 in.
- Weight .......................... 975 lbs

Utilities Required:
- Air at 90 to 100 psi at 20 cfm.

Production Capacity:
- Depends on size of projectile.

Shipping Data:
- Length .......................... 108 in.
- Width .......................... 53 in.
- Height .......................... 72 in.
- Cube ......................... 171 cu ft
- Weight .......................... 1390 lbs

Associated Equipment:
- None.

Kits:
- 1283E001 KIT, Powered Thread Cleaner
Use:
The holding fixture is used to hold grenades or grenade fuzes in the proper position for x-ray examination.

Description:
APE 1288 consists of a wooden rack built to hold 270 grenades or 330 fuzes and x-ray film cassettes. The rack is curved so that all grenades or fuzes receive equal intensity from the x-ray head.

Difference Between Models:
Original design.

Tabulated Data:
APE No. ................ 12880000
Unit of Issue ............ Each

Installation Data:
Length ................... 96-5/8 in.

Utilities Required:
None.

Production Capacity:
Not applicable.

Shipping Data:
Length ................... 100 in.
Width .................... 43 in.
Height ................... 20 in.
Cube ....................... 50 cu ft
Weight ................... 613 lbs

Associated Equipment:
APE 2068M2, 2074.

Kits:
None.
Use:
The pneumatic vise is used to secure 75MM through 106MM projectiles or cartridges during normal maintenance operations.

Description:
APE 1294 consists of a metal frame with a rotating vise jaw and a cartridge case rest. An air operated hydraulic pump is mounted in the framework. Above the frame table is mounted a hydraulic cylinder with a vise jaw which clamps the projectile or cartridge into the rotating jaw.

Difference Between Models:
Original design.

Tabulated Data:
APE No. 12940000
Unit of Issue Each
Installation Data:

<table>
<thead>
<tr>
<th>Length</th>
<th>Width</th>
<th>Height</th>
<th>Weight</th>
</tr>
</thead>
<tbody>
<tr>
<td>35 in.</td>
<td>25 in.</td>
<td>58 in.</td>
<td>200 lbs</td>
</tr>
</tbody>
</table>

Utilities Required:
Air at 100 psi and 28 cfm.
Production Capacity:
Not applicable.

Shipping Data:
<table>
<thead>
<tr>
<th>Length</th>
<th>Width</th>
<th>Height</th>
<th>Cube</th>
<th>Weight</th>
</tr>
</thead>
<tbody>
<tr>
<td>42 in.</td>
<td>32 in.</td>
<td>72 in.</td>
<td>56 cu ft</td>
<td>350 lbs</td>
</tr>
</tbody>
</table>

Associated Equipment:
None.

Kits:
None.
Use:
The tear strip remover is used to hold large cylindrical containers while the tear strip is being removed.

Description:
APE 1295 consists of a metal frame with three rollers assembled to the frame. The rollers are positioned so that a container can turn when the tear strip is being removed.

Difference Between Models:
Original design.

Tabulated Data:
APE No. ............... 12950000
Unit of Issue .......... Each

Installation Data:
Length .................. 53 in.

Width .................... 12 in.
Height .................... 13 in.
Weight ................... 85 lbs

Utilities Required:
None.
Production Capacity:
Not applicable.

Shipping Data:
Length ................. 60 in.
Width ................ 16 in.
Height ................ 18 in.
Cube ..................... 10 cu ft
Weight .................. 150 lbs

Associated Equipment:
None.

Kits:
None.
Use:
The single purpose pull test machine is used as a surveillance test machine to pull test fixed type artillery ammunition ranging in size from 40MM thru 106MM. This machine has a controlled rate of pull.

Description:
APE 1299M1 consists of a frame to which three adjustable screw jacks are mounted for height adjustment to the vise jaw assembly. The machine is equipped with a load cell and a readout indicator installed in a control console, for pull force measurement readings. The control console is provided for remote operation.
Difference Between Models:
The APE 1299M1 model replaces the Emery, hydraulic type load cell with a BLH, electronic type load cell. The BLH load cell requires a weight processor which is mounted in a control console with other electronic components. The APE 1299M1 model also has the capability to terminate the pull test when the minimum pull test requirement has been met. This eliminates pulling projectiles from the cartridge case if the minimum requirement is met, therefore the cartridges do not require re-work.

Tabulated Data:
APE No. ................. 12990000
Unit of Issue .......... Each
Installation Data:
  Length .................... 37 in.
  Width ..................... 34 in.
  Height .................... 65 max in.
  Weight .................... 1500 lbs
Utilities Required:
  110 vac; air at 80 psi.
Production Capacity:
  Not applicable.

Shipping Data:
  Length .................... 47 in.
  Width ..................... 44 in.
  Height .................... 65 in.
  Cube ....................... 77.79 cu ft
  Weight ..................... 1625 lbs

Associated Equipment:
  None.

Kits:
  1299E001 KIT, Pull Test of 40MM, M81, M91, MK2, MK11
  1299E002 KIT, Pull Test of 57MM, M303, M306, M307, M308
  1299E003 KIT, Pull Test of 75MM, M48, M61, M64, M66, M338
  1299E004 KIT, Pull Test of 75MM, M309, M310, M311
  1299E005 KIT, Pull Test of 75MM, M334
  1299E006 KIT, Pull Test of 75MM, M340
  1299E007 KIT, Pull Test of 76MM, M42, M62, M93, M312, M315
  1299E008 KIT, Pull Test of 76MM, M319, M339, M340, M352, M361
  1299E009 KIT, Pull Test of 90MM, M77, M79, M82, M133, M304, M313, M317, M319, M332, M336
  1299E010 KIT, Pull Test of 90MM, M71
  1299E011 KIT, Pull Test of 105MM, M456
  1299E012 KIT, Pull Test of 105MM, M323, M325
  1299E013 KIT, Pull Test of 105MM, M344
  1299E014 KIT, Pull Test of 105MM, M326
  1299E015 KIT, Pull Test of 105MM, M341
  1299E016 KIT, Pull Test of 105MM, M345 and 106MM M346
  1299E017 KIT, Pull Test of 105MM, M392
  1299E019 KIT, Pull Test of 105MM M393
  1299E020 KIT, Pull Test of 105MM M60 Smoke and HE Rounds
  1299E021 KIT, Extend Pull Test Capability from 5000 lbs maximum to 20000 lbs maximum.
APE 1300M1--EXPLOSIVE WASHOUT PLANT
APE 1300M1--EXPLOSIVE WASHOUT PLANT

DRAWING INDEX

1301 NO. 1 Tank, Washout
1302 NO. 2 Tank, Settling
1303 NO. 3 Tank, Circulating
1304 Exhaust Stack
1305 Circulating System
1306 Heat Exchanger
1307 3000# Bridge Crane
1308 Eductor System
1309 Hot Water Generating Tank
1310 Stainless Steel Gutter
1311 Generating Tank Stand

1312 Separator Tank
1313 Dopp Kettle
1314 Pelleting Tank
1315 Pellet Pump
1316 Dewatering Screen
1317 Dryer

EXPLOSIVE WASHOUT PLANT
Use:
The explosive washout plant is used to wash explosives out of bombs, projectiles, mines, and warheads, and to reclaim the explosives.

Description:
APE 1300M1 consists of a hot water generating and circulating system, circulating pumps, a washout tank, a water settling tank, a water circulating tank, hot water heat exchangers, and a water reclamation system.

Difference Between Models:
The original APE 1300 system flaked the recovered explosives. The APE 1300M1 version pelletizes the recovered explosives.

Tabulated Data:
APE No. ................. 13000000M1
Unit of Issue ............ System
Installation Data:
Length .................. 123 ft 8 in.
Width .................. 32 ft
Height .................. 30 ft
Weight .................. Special building

Utilities Required:
110 kva, 112/220 vac, 60 Hz, 3 phase;
air at 100 psi and 86000 cubic feet
per 8 hour shift; 10600 pounds
of steam per 8 hour shift.

Production Capacity:
Depends upon item being processed.

Shipping Data:
Depends on plant configuration.

Associated Equipment:
APE 1061.

Kits:
1301E002 KIT, Washout 75MM and 76MM Projectiles
1301E003 KIT, Washout 90MM Projectiles
1301E004 KIT, Washout 106MM Projectiles
1301E005 KIT, Washout 120MM Projectiles
1301E006 KIT, Washout 155MM Projectiles
1301E007 KIT, Washout 175MM Projectiles
1301E008 KIT, Washout 20 Pound and 23 Pound Fragmentation Bombs
1301E009 KIT, Washout 90 Pound Fragmentation Bombs
1301E010 KIT, Washout 100 Pound General Purpose Bombs
1301E011 KIT, Washout 220 Pound and 260 Pound Fragmentation Bombs
1301E012 KIT, Washout 240MM and 280MM Projectiles
1301E013 KIT, Washout 8-Inch Projectiles
1301E014 KIT, Washout 250 Pound and 500 Pound General Purpose Bombs and 500 Pound MK82 Bombs
1301E015 KIT, Washout 750 Pound Bombs (Nose End)
1301E016 KIT, Washout 750 Pound Bombs (Base End)
1301E017 KIT, Washout 1000 Pound Bombs
1301E018 KIT, Washout 2000 Pound Bombs
1301E019 KIT, Washout Guided Missile: M3, M4 and T-34 (Lacrosse)
1301E020 KIT, Washout Guided Missile: T39E4 and T-45
1301E021 KIT, Washout 3.5-Inch Rocket Warhead
1301E022 KIT, Washout M15 Mines
1312E001 KIT, Separator Tank Paddle
1313E001 KIT, Modification
1314E001 KIT, Cooling Tower
1315E001 KIT, Modify Pump
1321E001 KIT, Modify Butterfly Valve
1322E001 KIT, Modify Butterfly Valves
Use:
The white phosphorus plant converts obsolete and/reject white phosphorus from chemical munitions to phosphoric acid and reclaims the empty shells and acid for resale.

Description:
APE 1400 to phosphoric acid conversion plant consists of two systems, the feed system and the acid plant system.

Downloaded munitions (fuze, detonator, and explosives removed) are placed in a 115 ton hydraulic press for punching to expose the W.P. and then into a converted APE 1236 rotating kiln furnace for burning. The resultant smoke is then pulled out of the furnace by a negative pressure closed loop ducting system into the acid plant system for conversion to phosphoric acid.
The two systems consist of a 115 ton punch, a converted APE 1236 furnace, hydrator, initial demister-separator, two negative pressure draft fans, a final demister, water cooling tower, acid cooling heat exchanger, acid filtering unit, acid storage tanks, rail and tanker truck acid loading stations, and an emergency generator in the event of power failure.

The two systems utilize automated controls for maximum efficiency.

Difference Between Models:
Original plant.

Tabulated Data:
APE No. ................. 14000000
Unit of Issue ............ System
Installation Data:
Not applicable.

Utilities Required:
400 kva, 115/200 vac, 60 Hz, 3 phase;
air at 100 psi, draft air at 8000 cfm;
2200 pounds hydraulic pressure;
natural gas at 3500 cu ft per hour;
water at 200 gals per hour.

Production Capacity:
480 pounds of white phosphorus per hour.

Shipping Data:
Not applicable.

Associated Equipment:
None.

Kits:
None.
APE 1504--DRILL, STUCK SUPPLEMENTARY CHARGE

Use:
The stuck supplementary charge drill is used to remove stuck supplementary charges from 155MM, 4.2", 175MM, and 8-inch projectiles.

Description:
APE 1504 consists of a metal frame, a pneumatic drill, a liner removal assembly, a projectile holding assembly, and a remote control panel with connecting control lines.

Difference Between Models:
Original design.

Tabulated Data:
APE No. ................. 15040000
Unit of Issue ............. Each
Installation Data:
DRILL:
Length .................. 116 in.
Width .................... 29 in.
Height ................... 38 in.
Weight ................... 979 lbs
CONTROL PANEL:
Length .................. 37 in.
Width .................... 26 in.
Height ................... 61 in.
Weight ................... 160 lbs

Utilities Required:
Air at 90 psi and 20 cfm.
Production Capacity:
Not applicable.

Shipping Data:
DRILL:
Length .................. 120 in.
Width .................... 37 in.
Height ................... 49 in.
Cube ..................... 126 cu ft
Weight ................... 1603 lbs
CONTROL PANEL:
Length .................. 43 in.
Width .................... 33 in.
Height ................... 68 in.
Cube ..................... 56 cu ft
Weight ................... 536 lbs

Associated Equipment:
APE 2042 and 2043.

Kits:
1504E001 KIT, 4.2 Inch Mortar HE, M329, M329A1 and M329B1 Base Cone Adapter
1504E002 KIT, 4.2 Inch Mortar HE, M329A2 Base Cone Adapter
1504E003 KIT, 155MM Projectile M549, Stuck Supplementary Charge Removal
Use:
The abrasive blast cleaning machine is used to remove rust, corrosion, and oxidized paint from unfuzed projectiles and bombs. Projectiles range in size from 105MM through 8 inch, and larger cylindrical objects up to 750 lb bombs.

Description:
APE 1507 consists of a blast cabinet, skew roll conveyor, and dust collector, and two 1000 cfm charcoal filter banks.

Difference Between Models:
Original design.

Tabulated Data:
APE No. ................. 15070000
Unit of Issue ............ Each

Installation Data:
MACHINE:
Length .................. 21 ft
Width ................... 6 ft
Height ................... 12 ft 8 in.
Weight .................. 10000 lbs

DUST COLLECTOR:
Length .................. 8 ft
Width ................... 4 ft
Height ................... 11 ft 8 in.
Weight .................. 3030 lbs
FILTER BANKS:
Length .................. 16 ft max
Width ................... 4-5 ft
Height ................... 5 ft max
Weight .................. varies

Utilities Required:
208/440 vac, 3 phase, 60 Hz, 40/20 amp.

Production Capacity:
Not applicable.
### Shipping Data:

**MACHINE:**
- Length .................. 24 ft
- Width .................... 8 ft
- Height .................... 14 ft
- Cube ...................... 2080 cu ft
- Weight ................... 12000 lbs

**DUST COLLECTOR:**
- Length .................. 10 ft
- Width .................... 6 ft
- Height .................... 14 ft
- Cube ...................... 840 cu ft
- Weight ................... 3,500 lbs

### FILTER BANKS:
- Length .................. 16 ft max
- Width .................... 4-5 ft
- Height .................... 5 ft max
- Weight ................... varies

### Associated Equipment:
- APE 1510.
- M10 Alarm System.

### Kits:
- None.
Use:
The transfer conveyor and glove box are designed for use in maintenance operations on chemical agent munitions. They provide a safe and effective means to remove munitions from the abrasive cleaning room (ACR); a glove box for inspection of the munition; and a means of transfer back into the ACR if necessary.

Description:
APE 1510 consists of two basic components. A light weight inspection glove box and a transfer conveyor system.

a. The inspection glove box consists of a frame assembly, a stainless steel drip tank, four plexiglass windows with glove ports in two windows, a hinged door in one window and a mechanical cam/ramp mounted on the floor of the box. The box has rubber gloves attached for use by the operator in manipulating the items being inspected.
b. The transfer conveyor system consists of a frame assembly that has a commercially available roller conveyor mounted on the top side. The transfer carriage moves along the frame assembly by means of rack gears and an electric motor. Essentially there is movement in the x-y axis.

Difference Between Models:
Original design.

Tabulated Data:
APE No. ................. 15100000
Unit of Issue ............. Each
Installation Data:
Length .................. 100 in.
Width ................... 98 in.
Height .................. 59 in.
Cube ..................... 335 cu ft

Weight ................. 1500 lbs
Utilities Required:
208/230/460 vac, 3 phase, 60 Hz
Production Capacity:
Not applicable.

Shipping Data:
Length .................. Not available
Width ................... Not available
Height .................. Not available
Cube ..................... Not available
Weight .................. Not available

Associated Equipment:
APE 1507; M10 Alarm System;
M3 Filter System

Kits:
None.
Use:
The immersion tank is used to condition samples of ammunition items in water prior to surveillance function testing.

Description:
APE 1901 is circular and mounted on a stand with four legs. Inside dimensions of the tank are 34-3/4 inches in diameter and 21-3/4 inches deep. A 3/4-inch male boiler drain valve is installed in the bottom of the tank. A foot operated tire pump is included to pressurize the tank. The tank has a cover that is held in place by eight T-screws.

Difference Between Models:
Original design.

Tabulated Data:
APE No. ................. 19010000
Unit of Issue ............. Each

Installation Data:
Length ...................... 44-1/2 in.
Width ...................... 38-3/4 in.
Height ...................... 38-3/4 in.
Weight ...................... 350 lbs
Utilities Required:
Water at 70°F to 110°F.
Production Capacity:
Not applicable.

Shipping Data:
Length ...................... 50 in.
Width ...................... 44 in.
Height ...................... 44 in.
Cube ......................... 51.6 cu ft
Weight ...................... 424 lbs

Associated Equipment:
None.

Kits:
1901E001 KIT, Air Pressurization
Use:
The holding device is used to hold M1903, M1, M14 and M16 rifles; M1 and M2 carbines; M79 grenade launchers, and the AM-M8 pyrotechnic pistol when surveillance function testing signals, simulators, and photoflash cartridges launched from these weapons.

Description:
APE 1902M2 consists of a base that is 36 inches long, 27 inches wide, and 4 inches high, that is made of 1/2-inch aluminum. Two 16-inch stroke air cylinders are attached to the base. Two adjusting arms are attached to the base and air cylinders to hold the weapons at the proper firing angle.

Difference Between Models:
The APE 1902M1 has kit 1902E005 attached. APE 1902M2 has kit 1902E007 attached.

Tabulated Data:
APE No. ................. 19020000M2
Unit of Issue ............ Each
Installation Data:
Length .................. 36 in.
Width ................... 27 in.
Height .................. 50-3/4 in.
Weight .................. 300 lbs
Utilities Required:
None.
Production Capacity:
Not applicable.
Shipping Data:
Length ...................... 42 in.
Width .......................... 33 in.
Height .......................... 57 in.
Cube ............................. 25.7 cu ft
Weight .......................... 351 lbs

Associated Equipment:
APE 1937.

Kits:
1902E001 KIT, Mount M1 or M14 Rifle
1902E002 KIT, Mount M1 or M2 Carbine
1902E003 KIT, Mount M16 Rifle
1902E004 KIT, Mount M79 Grenade Launcher
1902E005 KIT, Modify APE 1902 to APE 1902M1
1902E006 KIT, Holding Device, M203 Grenade Launcher
1902E007 KIT, Modification Elevation Indicator Quadrant. Modification changes machine from APE 1902M1 to 1902M2
Use:
The testing table is used as a standard piece of equipment for surveillance function testing of several ammunition items.

Description:
APE 1903 is constructed of steel with heavy legs and crossmembers. Several holding devices and remote control actuators are mounted on the table.

Difference Between Models:
Original design.

Tabulated Data:
APE No. .................. 19030000
Unit of Issue .............. Each
Installation Data:
  Length .................. 56 in.
  Width .................... 30 in.
  Height ................... 36 in.
  Weight ................... 800 lbs
Utilities Required:
None.
Production Capacity:
Not applicable.
Shipping Data:

- Length: 65 in.
- Width: 36 in.
- Height: 44 in.
- Cube: 56.2 cu ft
- Weight: 1038 lbs

Associated Equipment:

- APE 1907, 1926, 1937.

Kits:

- 1903E002 KIT, Function Test M6, M10, M204, M205, M206 and M213 Hand Grenade Fuzes
- 1903E003 KIT, Remove Cap from M49 and M49A1 Trip Flares
- 1903E004 KIT, Function Test MK1 Illuminating Grenade
- 1903E005 KIT, Function Test Nonelectric Blasting Caps
- 1903E006 FIXTURE, Holding, Trip Flare
- 1903E007 KIT, Blasting Cap Tester

- 1903E001 KIT, Function Test M49 and M49A1 Trip Flares
Use:
The grenade igniting fuze tester is used to surveillance function test M201A1 grenade fuzes.

Description:
APE 1906 consists of an electric timer, a small telephone transmitter, and a photovoltaic cell mounted in a metal case. Fuze holders and a mechanical force gage are included with the tester.

Difference Between Models:
Original design.

Tabulated Data:
APE No. ... 19060000
Unit of Issue ... Each
Installation Data:
Length ... 23 in.

Width ... 18 in.
Height ... 13 in.
Weight ... 100 lbs

Utilities Required:
110 vac, single phase, 60 Hz.

Production Capacity:
Not applicable.

Shipping Data:
Length ... 25 in.
Width ... 20 in.
Height ... 18 in.
Cube ... 5.2 cu ft
Weight ... 132 lbs

Associated Equipment:
None.

Kits:
1906E001 Tube, Flash Vertical
1906E002 Tube, Flash Horizontal
Use:
The pressure testing device is used to measure force when pushing or pulling during surveillance function testing.

Description:
APE 1907 is a hand powered geared system that applies pressure to a calibrated spring gage to indicate the force being exerted.

Difference Between Models:
Original design.

Tabulated Data:
APE No. ......................19070000
Unit of Issue ................Each
Installation Data:
  Length ....................12 in.
  Width .....................11 in.
  Height ...................24-1/2 in.
  Weight ...................90 lbs
Utilities Required:
  None.
Production Capacity:
  Not applicable.

Shipping Data:
  Length .....................16 in.
  Width .....................16 in.
  Height ...................30 in.
  Cube ......................1.1 cu ft
  Weight ...................105 lbs

Associated Equipment:
  None.

Kits:
  1907E002 KIT, Function Test M6A1 Fuze, With Cocking Device
  1907E003 KIT, Firing Device, Demolition, Pressure Release Type, M5
  1907E004 KIT, Firing Device, Demolition, Release Type, M1
  1907E005 KIT, Firing Device, Demolition, Pressure Type, M1
  1907E007 KIT, Function Test M605 Mine Fuze
  1907E008 KIT, Function Test Firing Device, Pull-Release Type, M3
Use:
The altitude and drift measuring device is used to record the angle and the degree of elevation of signals, simulators, and M48 surface trip parachute flares during surveillance function testing.

Description:
APE 1908 consists of three pieces of equipment. A plotting board is a scale model of the firing range with two quadrant controls, two indicating rods, and a scribe rod. Two sighting devices with stands are provided to follow the item being tested and mark the position that it functions.

Difference Between Models:
Not available.

Tabulated Data:
APE No. ......................... 19080000
Unit of Issue ................. Each
Installation Data:
SIGHTING DEVICE:
  Length ...................... 28 in.
  Width ...................... 28 in.

  Height ...................... 56 in.
  Weight ...................... 550 lbs

PLOTTING BOARD:
  Length ...................... 30 in.
  Width ...................... 24 in.
  Height ...................... 51 in.
  Weight ...................... Not available

Utilities Required:
None.
Production Capacity:
Not applicable.

Shipping Data:
  Length ...................... 36 in.
  Width ...................... 30 in.
  Height ...................... 54 in.
  Cube ...................... 34.3 cu ft
  Weight ...................... 605 lbs

Associated Equipment:
None.

Kits:
1908E001 Additional Quadrant to Measure Angle of Departure from Vertical
APE 1916M1—OVEN, PRECONDITIONING

Use:
The preconditioning oven is used to condition various items at a controlled temperature for a specified length of time prior to surveillance function testing.

Description:
APE 1916M1 is a radiant heating type with a maximum temperature of 200 centigrade. It is complete with four shelves, thermometer holder, adjustable air vent, neon pilot light, four neoprene feet and a three wire grounded cord with plug. The inside dimensions of the oven are 18 inches wide, 20 inches high, and 18 inches deep.

Difference Between Models:
The APE 1916M1 model is operated by remote control and has additional safety controls against overheating.

Tabulated Data:
APE No. ....................19160000M1
Unit of Issue ...............Each

Installation Data:
Length ....................24 in.
Width .......................23 in.
Height .....................30 in.
Weight ...................105 lbs
Utilities Required:
115/230 vac, 50 or 60 Hz, single phase.
Production Capacity:
Not applicable.

Shipping Data:
Length ....................30 in.
Width .......................30 in.
Height .....................36 in.
Cube ........................18.75 cu ft
Weight .....................268 lbs

Associated Equipment:
None.

Kits:
1916E001 KIT, Modification
APE 1918M2--DEVICE, HOLDING, HAND SIGNAL

Use:
The hand signal holding device is used to function test M125, M126, M127, and M131 hand held signals.

Description:
APE 1918M2 consists of a metal base, a short mast with locking vise jaws to hold the signal being tested, and a firing assembly to actuate the signal.

Difference Between Models:
The APE 1918 holding jaws are welded to the clamping jaws and will not accommodate M131 signals. APE 1918M1 has removable clamping jaws to accommodate kits 1918E001 and 1918E002. APE 1918M2 resulted from addition of a cocking device (originally issued as kit 1918E003 but is now integral to the end item).

Tabulated Data:
APE No. .......................19180000M1
Unit of Issue ..................Each

Installation Data:
Length ...................... 24 in.
Width ...................... 12 in.
Height ..................... 15-3/4 in.
Weight ..................... 70 lbs
Utilities Required:
None.
Production Capacity:
Not applicable.

Shipping Data:
Length ...................... 30 in.
Width ...................... 18 in.
Height ..................... 20 in.
Cube ......................... 3.5 cu ft
Weight ..................... 86 lbs

Associated Equipment:
1908, 1933 and 1937,

Kits:
1918E001 KIT, Test M125, M126, and M127 Signals
1918E002 KIT, Test M131 Signals
APE 1920—SHIELD, OPERATIONAL

Use:
The operational shield is used to provide additional protection for operators inside the APE 1937 shelter when function testing mines and hand grenades.

Description:
APE 1920 consists of two A-frames connected by tracks on top and at the bottom. The metal shield is suspended from the upper track by two 4-wheel trolley hangers. It mounts in front of the APE 1937.

Difference Between Models:
Original design.

Tabulated Data:
- APE No.: 19200000
- Unit of Issue: Each
- Installation Data:

<table>
<thead>
<tr>
<th>Length</th>
<th>Width</th>
<th>Height</th>
<th>Weight</th>
</tr>
</thead>
<tbody>
<tr>
<td>20 ft</td>
<td>24 in.</td>
<td>7 ft 7 in.</td>
<td>1585 lbs</td>
</tr>
</tbody>
</table>

Utilities Required:
None.

Production Capacity:
Not applicable.

Shipping Data:
- Length: 130 in.
- Width: 59 in.
- Height: 42 in.
- Cube: 202 cu ft
- Weight: 2200 lbs

Associated Equipment:
APE 1937.

Kits:
None.
Use:
The photoflash cartridge test kit is used to function test M112, M112A1, M121, M123A1, and M124 photoflash cartridges.

Description:
APE 1921M2 consists of a six barrel cartridge holder, six inserts for the smaller cartridges, a firing cover, an intervalometer, connecting cables, and a battery.

Difference Between Models:
The 1921M2 model has an additional pigtail electrical cable.

Tabulated Data:
APE No. .................. 19210000M2
Unit of Issue .......... Each

Installation Data:
Length .................. 12 in.
Width .................. 12 in.

Height .................. 17 in.
Weight .................. 70 lbs

Utilities Required:
None.

Production Capacity:
Not applicable.

Shipping Data:
Length .................. 15 in.
Width .................. 15 in.
Height .................. 20 in.
Cube ..................... 2.6 cu ft
Weight .................. 110 lbs

Associated Equipment:
APE 1902M1, APE 1902M2.

Kits:
1921E001 KIT, Test M112, M112A1, and M121 Photoflash Cartridges
Use:
The pneumatic grenade launcher is used to hold and launch hand grenades during surveillance function testing. It also records the force in pounds used to remove the safety pull rings from the grenades.

Description:
APE 1922M1 consists of a frame, an accumulator, an air valve, an air regulator, a quick release valve. Holding cups for the grenades are ordered as kits.

Difference Between Models:
The APE 1922M1 accommodates chemical grenades while the APE 1922 does not.

Tabulated Data:
APE No. .................. 19220000M1
Unit of Issue ............. Each
Installation Data:
  Length .................... 27 in.
  Width ..................... 25 in.
  Height ................... 14-1/2 in.
  Weight ................... 173 lbs
Utilities Required:
  Air at 85 to 100 psi.
Production Capacity:
  Not applicable.
Shipping Data:

Length: 33 in.
Width: 30 in.
Height: 18 in.
Cube: 6 cu ft
Weight: 250 lbs

Associated Equipment:
None.

Kits:
1922E001 KIT, Function Test MK2 Grenades
1922E002 KIT, Function Test M26 Grenades
1922E005 KIT, Function Test M33, M59, M67, and M68 Grenades
1922E006 KIT, Static Test M26A2, M33A1, M57, M59, and M68 Grenades
1922E007 KIT, Function Test M25 Grenades
1922E008 KIT, Function Test, MK3A2 Grenade
1922E009 KIT, Function Test, M47 & M48 Grenade
1922E010 KIT, Function Test, M34 Grenades
1922E011 KIT, Function Test, M6, M7, M8, M14, M15 and M18 Grenades
APE 1923--COMBINATION GUN MOUNT FOR TRACER TESTING SMALL ARMS AMMUNITION

Use:
The combination gun mount is used to trace test small arms tracer ammunition and function test the 64MM projectile.

Description:
APE 1923 is constructed of metal and is to be mounted on a concrete base. It has oil buffers to absorb the weapon recoil.

Difference Between Models:
Original design.

Tabulated Data:
APE No. .................. 19230000
Unit of Issue .............. Each
Installation Data:
Length ..................... 39 in.
Width ...................... 29 in.
Height ..................... 14 in.
Weight .................... 200 lbs
Utilities Required:
115 vac, single phase, 60 Hz.
Production Capacity:
Not applicable.

Shipping Data:
Length ..................... 50 in.
Width ...................... 30 in.
Height ..................... 17 in.

Cube ...................... 15 cu ft
Weight .................... 534 lbs

Associated Equipment:
APE 1963.

Kits:
1923E001 KIT, Mount Caliber .30 Machine Gun, M37
1923E003 KIT, Mount 7.62MM Machine Gun, M60
1923E004 KIT, Mount Caliber .50 spotting Rifle, M8C
1923E005 KIT, Mount Caliber .30 Carbine, M1 or M2
1923E006 KIT, Graze Impact Table
1923E010 KIT, Mount 7.62MM Machine Gun M240
1923E011 KIT, Mount 7.62MM Machine Gun M219
1923E012 KIT, Mount 7.62MM Machine Gun M134
1923E013 KIT, Chronograph and Ballistic Screens
1923E014 Power Supply for Kits E011 and E015
1923E015 KIT, Mount Caliber .50 Machine Gun
1923E016 KIT, M16A1 Rifle Mounting for Function Testing 5.56MM on 64MM Ammunition
1923E017 KIT, Mounting, M16 Rifle with M203 Launcher or M79 Launcher for Function Test
Use:
The disassembly equipment is used to push the base from the 155 MM: M118 illuminating projectile and 4.2 inch mortar allowing removal of the parachute and illuminating canister for renovation or inspection.

Description:
APE 1925 consists of a work-table with a projectile holding device, a hydraulic ram, a ram extension, and a power driven hydraulic pump.

Difference Between Models:
Original design.

Tabulated Data:
APE No. ........................ 19250000
Unit of Issue ..................... Each
Installation Data:
  Length .......................... 38 in.

Width ............................. 24 in.
Height ............................. 38 in.
Weight ............................. 340 lbs
Utilities Required:
  Air.
Production Capacity:
  Not applicable.

Shipping Data:
Length ............................. 48 in.
Width ............................. 30 in.
Height ............................. 48 in.
Cube .............................. 40 cu ft
Weight ............................. 410 lbs

Associated Equipment:
None.

Kits:
  1925E001 KIT, Conversion for Cartridge 4.2 and Illuminating M335, M335A1, and M335A2
Use:
The lanyard quick release device is used to function test M117, M110, M118 and M119 simulators.

Description:
APE 1926 consists of a frame with a spring loaded lever, a pulley assembly, and a lanyard.

Difference Between Models:
Original design.

Tabulated Data:
APE No. ......................... 19260000
Unit of Issue ................. Each
Length ......................... 11 in.
Width ......................... 9-1/2 in.

Utilities Required:
None.
Production Capacity:
Not applicable.

Shipping Data:
Length ......................... 14 in.
Width ......................... 11 in.
Height ......................... 12 in.
Cube ......................... 3 cu ft
Weight ......................... 15 lbs

Associated Equipment:
APE 1903, 1905, 1937.

Kits:
None.
Use:
The primer disassembly and function test machine, APE 1931M1, is designed to surveillance function test M28B2, M32, M34, M57, M58, M60A1, M71A1E1, M82, MK2A4, M1B1A2, MK15, MK22, M38, M90, M92E1, percussion primers and M80A1, M83, M86, electric primers. The machine will also disassemble the primer head from the primer body M28B2, M58, M60A1, M1B1A2, MK22, M38, M80A1, M83 and M60 primers.

Description:

a. APE 1931M1 consists of a primer firing stand with drop tower, electromagnet, and safety cups, a power supply with connecting cables, and an accessory tool chest assembly containing the tooling necessary to set up the machine for disassembly and function testing the primers listed above.

b. The APE 1984 electric firing instrument is connected to the APE 1931M1 when function testing electric primers.
Difference Between Models:
APE 1931M1 differs from the APE 1931 as outlined below:

a. Tooling was added for the MK15, MK22, M38, M90, and M92E1 percussion primers and M80A1, M83, and M86 electric primers.

b. Ball weighs 1.94 ounces and 16.28 ounces are added to function test the new primers.

c. Non-function gage rods were not supplied as part of the tooling for APE 1931. New gage rods are added to include the non-function as well as the function testing of all percussion primers listed above.

Tabulated Data:
APE No. .................. 19310000
Unit of Issue ............ Each

Installation Data:
TESTER :
  Length .................. 21 in.
  Width .................... 21 in.
  Height ................... 70 in.
  Cube ...................... 17.86 cu ft
  Weight .................. 185 lbs

POWER SUPPLY:
  Length .................. 9 in.
  Width .................... 5 in.
  Height ................... 6 in.
  Cube ...................... 0.156 cu ft
  Weight .................. 17 lbs

ACCESSORY TOOL CHEST:
  Length .................. 26 in.
  Width .................... 12-3/32 in.
  Height ................... 14-5/16 in.
  Cube ...................... 2.6 cu ft
  Weight .................. 128 lbs

Utilities Required:
  115 vac, 60 cycle, 5 amps.
Production Capacity:
  Varies with primer being tested.

Shipping Data:
  Length .................... Not available
  Width .................... Not available
  Height ................... Not available
  Cube ...................... Not available
  Weight .................. Not available

Associated Equipment:
  APE 1984 Electric Firing Instrument.

Kits:
  1931E001 FIXTURE, Primer Piercing
  1931E002 KIT, Continuity Test for MK42 Primers
Use:
The agent sampling unit is used for agent sampling of bomb, gas, 500 lb, MK94 Mod 0, Bomb, Gas 750 lb, MC-1, Bomb, Gas MK116 Mod 0 (Weteye) and TMU-28/B spray tank.

Description:
APE 1934 consists of a totally inclosed head assembly with a removable plexiglass window provided with two glove ports, a movable drill unit, a two piece mounting stand for MK94, MC-1, M116 (Weteye) bombs and a stand for TMU-28/B spray tanks. Agent sampling is accomplished by drilling, sampling, hand tapping and plugging the munition.
Difference Between Models:
Original design.

Tabulated Data:
APE No. ......................19340000
Unit of Issue ..............Each

Installation Data:
Length .....................156 in.
Width .........................30 in.
Height ........................78 in.
Weight ......................1458 lbs

Utilities Required:
Air at 90 psi and 125 cfm; 110 vac,
60 Hz, single phase and 230 vac,
60 Hz, 3 phase.

Production Capacity:
Not applicable.

Shipping Data:
SAMPLING UNIT:
Length ......................42 in.

CONVEYOR ASSEMBLY:
Length .....................98 in.
Width ........................42 in.
Height ........................54 in.
Cube .........................129 cu ft
Weight ......................908 lbs

Associated Equipment:
M6A1 Gas Particulate filter unit
(2 ea).

Kits:
1934E001 KIT, Accessory for TMU-28/B Spray Tank
1934E003 KIT, Accessory for M116 (Wet-eye) MK94 (500 lbs), and MC1 (750 lbs), Bombs
Use:
The portable barricade is used to protect personnel while performing surveillance function tests.

Description:
APE 1937 is constructed of aluminum sheet over compressed fiberglass insulation. Windows are positioned so that tests can be observed and recorded. The windows are made of 3/4-inch plexiglass.

Difference Between Models:
original design. This item replaces APE 1905.

Tabulated Data:
APE No. ......................... 19370000

Unit of Issue ...................... Each

Installation Data:
Length ..................... 114 in.
Width ..................... 114 in.

Height ..................... 94 in.
Weight ..................... 5750 lbs

Utilities Required:
None.

Production Capacity:
Not applicable.

Shipping Data:
Length ..................... 114 in.
Width ..................... 114 in.
Height ..................... 94 in.

cube ..................... 707 cu ft
Weight ..................... 5750 lbs

Associated Equipment:
APE 1920, 1926.

Kits:
1937E001 KIT, Periscope and Step Stool
1937E002 KIT, Screens for Overhead Windows
1937E003 KIT, Lanyard Controls
1937E004 KIT, Lanyard Guide Unit
APE 1938—CHAMBER, LOW TEMPERATURE

Use:
The low temperature chamber will be used to temperature condition ammunition or ammunition related items to as low as −70°F.

Description:
APE 1938 is a self-contained electric motor operated, air cooled unit complete with mechanical refrigeration system and controls. Interior dimensions of test compartment are 18 inches wide x 26 inches deep x 20 inches high.

Difference Between Models:
Original design.

Tabulated Data:

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<th>Length</th>
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<td>Width</td>
<td>43-1/2 in.</td>
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<tr>
<td>Height</td>
<td>40-1/2 in.</td>
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<tr>
<td>Weight</td>
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</table>

Utilities Required:
230 vac, single phase, 60 Hz, 20 amp.

Production Capacity:
Not applicable.

Shipping Data:

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<tr>
<th>Length</th>
<th>56 in.</th>
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<tr>
<td>Width</td>
<td>51 in.</td>
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<tr>
<td>Height</td>
<td>42 in.</td>
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<tr>
<td>Cube</td>
<td>104 cu ft</td>
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<tr>
<td>Weight</td>
<td>1096 lbs</td>
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</table>

Associated Equipment:
None.

Kits:
None.
Use:
The continuity test equipment is used to electrically test M509 fuzes used in 106MM, M344A1 projectiles.

Description:
APE 1939M1 consists of a continuity tester, with self contained battery and battery charger, 100 feet of shielded cable and an adapter cord for battery charging.

Difference Between Models:
APE 1939M1 has a self contained battery charger and is more compact.

Tabulated Data:
APE No. . . . . . . . . . . . . . . . . . . . . . 19390000M1
Unit of Issue . . . . . . . . . . . . . . . . . . . . . . Each

Installation Data:
TESTER:
Length . . . . . . . . . . . . . . . . . . . . . . . . 12 in.

Utilities Required:
110 vat, single phase, 60 Hz.

Production Capacity:
Not applicable.

Shipping Data:
Length . . . . . . . . . . . . . . . . . . . . . . . . 16 in.
Width . . . . . . . . . . . . . . . . . . . . . . . . 12 in.
Height . . . . . . . . . . . . . . . . . . . . . . . . 13 in.
Cube . . . . . . . . . . . . . . . . . . . . . . . . . . 1.4 cu ft
Weight . . . . . . . . . . . . . . . . . . . . . . . . 50 lbs

Associated Equipment:
None.

Kits:
None.
Use:
The mine testing fixture is used to function test M16, AP series mines. The fixture contains a mechanism which can shear the fuze from a dud mine and eject it away from the fixture.

Description:
APE 1940M3 consists of a heavy steel frame with a hardened steel cover which protects everything except the mine holder. Within the frame are two air cylinders, the control valves, and an accumulator. A hand control valve for remote operation and connecting hoses are also provided.

Difference Between Models:
Rubber hoses of the original design are replaced by steel tubing. The front cover was replaced by a hardened steel plate and the hole for the shear has been made smaller to keep debris from getting inside.

Tabulated Data:
APE No. .......................... 1940M3

Unit of Issue ...................... Each
Installation Data:
   Length ........................ 42-1/2 in.
   Width .......................... 11 in.
   Height .......................... 28 in.
   Weight ........................ 1330 lbs
Utilities Required:
   Air at 60 to 110 psi.
Production Capacity:
   Not applicable.

Shipping Data:
   Length .......................... 53 in.
   Width .......................... 42 in.
   Height .......................... 37 in.
   Cube ........................... 48 cu ft
   Weight ........................ 1550 lbs

Associated Equipment:
APE 1920, 1937.

Kits:
1940E001 KIT, Function Test Equipment for M26 Mines.
Use:
The automatic timing device is used to automatically record the time interval from initiation to firing of firing device, demolition: delay type, M1.

Description:
APE 1949 consists of a metal frame, a firing device holder, an initiator door, a tabulating paper drive mechanism and a control box. A reading board is provided to aid in reading the test results.

Difference Between Models:
Original design.

Tabulated Data:

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<tr>
<th>Description</th>
<th>Value</th>
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<tr>
<td>Unit of Issue</td>
<td>Each</td>
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<td>Installation Data:</td>
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<tr>
<td>Length</td>
<td>22.5 in.</td>
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<tr>
<td>Width</td>
<td>24 in.</td>
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<tr>
<td>Height</td>
<td>45 in.</td>
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<tr>
<td>Weight</td>
<td>200 lbs</td>
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<tr>
<td>Utilities Required:</td>
<td>115 vac, 60 Hz, single phase, 6.8 amps.</td>
</tr>
<tr>
<td>Production Capacity:</td>
<td>Not applicable.</td>
</tr>
<tr>
<td>Shipping Data:</td>
<td></td>
</tr>
<tr>
<td>Length</td>
<td>29 in.</td>
</tr>
<tr>
<td>Width</td>
<td>28 in.</td>
</tr>
<tr>
<td>Height</td>
<td>52 in.</td>
</tr>
<tr>
<td>Cube</td>
<td>25 cu ft</td>
</tr>
<tr>
<td>Weight</td>
<td>320 lbs</td>
</tr>
</tbody>
</table>

Associated Equipment:
None.

Kits:
None.

2-154 (2-155 blank)
APE 1951M1--TEST EQUIPMENT, M176 AND M226 GRENADE LAUNCHER

Use:
The test equipment is used for surveillance testing of M176 and M226 grenade launchers. The equipment is used to torque test, leak test, and function test the grenade launchers.

Description:
APE 1951M1 consists of a torque test fixture, a leakage test fixture, and a function test fixture.

Difference Between Models:
APE 1951M1 model changes the adjustment of the firing angle from 33 to 62 degrees and replaces the firing pin retainer. Basic model not authorized for use.

Tabulated Data:
APE No. ........................ 19510000M1
Unit of Issue .................. Each

Installation Data:
LEAK TEST FIXTURE:
Length ....................... 27 in.
Width ......................... 14 in.
Height ....................... 16 in.
Weight ..................... 62 lbs
FUNCTION TEST FIXTURE:
Length ....................... 24 in.
Width ......................... 24 in.
Height ....................... 77 in.
Weight ..................... 182 lbs
TORQUE TEST FIXTURE:
  Length ...................... 8 in.
  Width ....................... 8 in.
  Height ..................... 13 in.
  Weight .................... 23 lbs

Utilities Required:
  115 vac, single phase, 50/60 Hz.

Production Capacity:
  LEAK TEST FIXTURE
    60 launchers per hour.
  FUNCTION TEST FIXTURE
    6–10 launchers per hour.
  TORQUE TEST FIXTURE
    60 launchers per hour.

Shipping Data:
  Length .................... Not available
  Width ..................... Not available
  Height ................... Not available
  Cube ..................... Not available
  Weight .................. Not available

Associated Equipment:

Kits:
  1951E001 KIT, Comparator
APE 1953—EQUIPMENT, CONDUCTIVE FLOOR AND CONDUCTIVE SHOE TEST

Use:
The conductive floor and conductive shoe test equipment is used to check the resistance of conductive floors, conductive shoes, and grounding rods for aircraft. This test is to insure good ground for preventing static electric buildup.

Description:
APE 1953 consists of an ohmmeter with test leads, two electrodes with carrying case, and personnel test plate.

Difference Between Models:
Original design.

Tabulated Data:

<p>| | |</p>
<table>
<thead>
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<tr>
<td><strong>Unit of Issue</strong></td>
<td>Each</td>
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<tr>
<td><strong>Installation Data:</strong></td>
<td></td>
</tr>
<tr>
<td><strong>OHMMETER:</strong></td>
<td></td>
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<tr>
<td>Length</td>
<td>9 in.</td>
</tr>
<tr>
<td>Width</td>
<td>6-1/4 in.</td>
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<tr>
<td>Height</td>
<td>9-1/4 in.</td>
</tr>
<tr>
<td>Weight</td>
<td>18 lbs</td>
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<td><strong>ELECTRODE CASE:</strong></td>
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<td>Length</td>
<td>6 in.</td>
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Utilities Required:
None.
Production Capacity:
Not applicable.

Shipping Data:

<p>| | |</p>
<table>
<thead>
<tr>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Length</strong></td>
<td>23 in.</td>
</tr>
<tr>
<td><strong>Width</strong></td>
<td>20 in.</td>
</tr>
<tr>
<td><strong>Height</strong></td>
<td>12 in.</td>
</tr>
<tr>
<td><strong>Cube</strong></td>
<td>3.2 cu ft</td>
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<tr>
<td><strong>Weight</strong></td>
<td>90 lbs</td>
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</table>

Associated Equipment:
None.

Kits:
- 1953E001 KIT, Compression Test Fixture
- 1953E003 KIT, Aircraft Ground Test
APE 1955—GRENADE FUZE TESTER

Use:
The grenade fuze tester is used to measure the time delay of M204, M205, M206, M213 and M215 hand grenade fuzes in a static test and dynamic test. The fuze is secured in the tester and detonated in a static position. The tester is used to perform a dynamic test on the fuzes whereby the fuze is armed and dropped four feet onto a horizontal steel plate, where detonation occurs.

Description:
APE 1955 consists of a drop tube and lower barricade assembly, an upper chamber assembly, a fuze holder assembly for 9/16 inch threaded body and fuze holder assembly for 5/8 inch threaded body. The tester is air operated and has an electric blower. The time delay test is measured by an electronic timer.

Difference Between Models:
Original design.
Tabulated Data:
APE No. ................. .19550000
Unit of Issue ............ Each

Installation Data:
   Length .................. 36 in.
   Width ................... 20 in.
   Height .................. 75-1/4 in.
   Weight .................. 1400 lbs

Utilities Required:
   Air at 70 psi; 115 vac, 60 Hz.

Production Capacity:
   Not applicable.

Shipping Data:
   Length ................. Not available
   Width ................. Not available
   Height ............... Not available
   Cube .................. Not available
   Weight .............. Not available

Associated Equipment:
   None.

Kits:
   None.
Use:
The test equipment is used to function test 66MM incendiary rocket ammunition.

Description:
APE 1956 consists of a function test fixture on which the rocket launcher is mounted; a compressed air storage tank; a control box; and connecting air lines. Rocket launcher is to be furnished by the user.

Difference Between Models:
Original design.

Tabulated Data:
APE No. ...........................19560000
Unit of Issue .................Each

Installation Data:
FUNCTION TEST FIXTURE:
  Length ...........................23-1/8 in.
  Width ...........................23-1/8 in.
  Height ...........................58-1/2 in.
  Weight .............................78 lbs
AIR TANK:
  Length ...........................42 in.
  Width ...........................17 in.

Utilities Required:
Compressed air to charge air tank.

Production Capacity:
Not applicable.

Shipping Data:
Length ........................... 64 in.
Width ........................... 48 in.
Height ........................... 34 in.
Cube ............................... 61.0 cu ft
Weight ............................. 420 lbs

Associated Equipment:
APE 1905 or APE 1937, M202 or M202A1 rocket launcher, inert 4-round clip of 66MM rocket ammunition, and a gunner’s quadrant, special firing range.

Kits:
None.
APE 1957-DEVICE, CHEMICAL MUNITION AGENT SAMPLING

Use:
The sampling device is used to drill, drain, tap and sample lethal agent filled 105MM, 155MM, and 8 inch projectiles and mines to chemically detoxify the chemical agents when necessary.

Description:
APE 1957 consists of a stainless steel tank inclosed in a hood or cover. Inside the hood is a movable drill fixture, an agitator and a circulating pump. The tank hood or enclosure contains plexiglass windows with glove ports and an adapter for use in connecting an M6 gas particulate filter unit to the hood. In an emergency disposal, procedures are authorized in Public Law 91-121 and 91-441.

Difference Between Models:
Original design.

Tabulated Data:
APE No. ......................... 19570000
Unit of Issue. ................. Each

Installation Data:
Length ......................... 64 in.
Width ......................... 38 in.
Height ......................... 83 in.
Weight ......................... 3000 lbs

Utilities Required:
120 vac single phase, 60 Hz.
Production Capacity: Not applicable.

Shipping Data:
Length ......................... 76 in.
Width ......................... 50 in.
Height ......................... 95 in.
Cube ......................... 105 cu ft
Weight ......................... 3200 lbs

Associated Equipment:
M6A1 Gas Particulate Filter Unit.

Kits:

1957E001 KIT, Equipment for Leak Testing Rubber Gloves

1957E002 KIT, for Sampling M23 Mines
Use:
The Can Leak Test Device, APE 1958M2, is a pneumatically operated machine designed for dry vacuum leak testing of assembled, gasket sealed, quick-opening ammunition containers.

Description:
The APE 1958M2 consists of the following major assemblies mounted or housed in a table type frame unit.

a. A test chamber assembly which combined with fillers, houses the ammunition can during can leak tests.

b. The vacuum pumping system assembly creates a vacuum in the test chamber and test circuit.

c. A control panel assembly containing meters and controls for evaluation of can leak test.
Difference Between Models:
APE 1958 machines are the original equipment design. They do not feature the vent valve on the test chamber. These machines also are not equipped with a transfer loading plate.

The APE 1958M1 will perform the same function as the APE 1958. The APE 1958M1 differs from the APE 1958 in that it features components which speed production and facilitate ammunition container handling. APE 1958M1 machines feature an ON/OFF vent valve on the test chamber for rapid reduction of the vacuum in the test chamber. A transfer loading plate provides the operator with a method of lifting heavier ammunition containers to slide them into the test chamber. A foot lever is used to raise the loading plate. A stop plate welded to the table frame prevents the can from sliding off the table.

APE 1958M2 machines are of the same design as APE 1958M1 machines, with the exception of a redesigned test chamber featuring a replaceable O-ring door seal and a pneumatic door clamping system. Additional pneumatic components were added to support the use of the pneumatic door clamp.

Tabulated Data:

APE No . . . . . . . . . . . . . . . . . . 19580000M2
Unit of issue: . . . . . . . . . . . . Each

Installation Data:
APE 1958M2:
  Length . . . . . . . . . . . . . . . . . . 48 inches
  Width . . . . . . . . . . . . . . . . . . . 30 inches
  Height . . . . . . . . . . . . . . . . . . . . . . 60 inches
  Cube . . . . . . . . . . . . . . . . . . . . . . . . . . 60 cu ft
  Weight . . . . . . . . . . . . . . . . . . . . . . . . . . 650 pounds

APE 1958E002:
  Length . . . . . . . . . . . . . . . . . . 18 inches
  Width . . . . . . . . . . . . . . . . . . . 9 inches
  Height . . . . . . . . . . . . . . . . . . . . . . 15 inches
  Cube . . . . . . . . . . . . . . . . . . . . . . . . . . 1.21 cu ft
  Weight . . . . . . . . . . . . . . . . . . . . . . . . . . 90 pounds

APE 1958E003:
  Length . . . . . . . . . . . . . . . . . . 25 inches
  Width . . . . . . . . . . . . . . . . . . . .22 inches
  Height . . . . . . . . . . . . . . . . . . . . . . . . . . 20 inches
  Cube . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . 6.4 cu ft
  Weight . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . 530 pounds

Utilities Required: TM 43-0001-47
Air at 80 psi
Production Capacity:
Not available

Shipping Data:
Length: . . . . . . . . . . . . . . . . . . Not available
Width: . . . . . . . . . . . . . . . . . . . . . . Not available
Height: . . . . . . . . . . . . . . . . . . . . . . . Not available
Cube: . . . . . . . . . . . . . . . . . . . . . . . . . . Not available
Weight: . . . . . . . . . . . . . . . . . . . . . . . . . . Not available

Associated Equipment:
None

Kits:
  1958E002 M621 Container Liner Kit
  1958E003 Test Chamber for Containers M548 and M592
  1958E004 PA125 Metal Container Liner Kit
  1958E005 PA120 Metal Container Liner Kit
Use:
The agent sampling unit is used for drilling, tapping and sampling lethal agent filled M23 mines, 115MM rockets, 105MM, 155MM and 8 inch projectiles. It also has the capability to chemically detoxify the complete munition and to transfer the agent to a ton container or standard D.O.T. bottle.

Description:
APE 1959M1 consists of a totally enclosed hood assembly with six plexiglass windows and eight glove ports. It also has eight drilling stations and a movable combination drill/tapper unit.

Difference Between Models:
APE 1959M1 has a ton container attaching fixture also a contaminated/decontaminated divider.

Tabulated Data:
APE No ............... 19590000M1
Unit of Issue .......... Each
Installation Data:

Length .................... 120 in.
Width ........................ 48 in.
Height ........................ 78 in.
Weight ........................ 4260 lbs

Utilities Required:

Air at 90 psi and 125 cfm; 110 vac, 60 Hz, single phase and 230 vac, 60 Hz, 3 phase.

Production Capacity:

Not applicable.

Shipping Data:

Length .................... 135 in.
Width ........................ 56 in.
Height ........................ 89 in.
Cube .......................... 389 cu ft
Weight ........................ 5000 lbs

Associated Equipment:

M6A1 gas particulate filter unit (4 ea).

Kits:

None.
Use:
The projectile concentricity check fixture is used to check the runout of the centering band and sheath and subprojectile of the M392 series (L36A1), 105MM, APDS-T projectile. The complete round can be concentricity checked with this machine.

Description:
APE 1960M1 consists of two dial indicators mounted on a base which has rollers for rotating the projectile. The complete cartridge kit 1960E001 adapts the fixture for use with complete cartridges.

Difference Between Models:
The APE 1960M1 has a follower roller with a ridge instead of a smooth roller and has been modified for floating on a steel ball when checking a complete round.

Tabulated Data:
APE No. ................. 19600000M1
Unit of Issue ......... Each

Installation Data:
BASIC MACHINE:
Length .................. 14-1/2 in.
Width .................. 9-3/4 in.

Height .................. 7 in.
Weight .................. 23 lbs

ADAPTER:
Length .................. 40-3/4 in.
Width .................. 14 in.
Height .................. 17-1/2 in.
Weight .................. 41 lbs

Utilities Required:
None.
Production Capacity:
Not applicable.

Shipping Data:
Length .................. 48 in.
Width .................. 24 in.
Height .................. 16 in.
Cube .................. 10.7 cu ft
Weight .................. 160 lbs

Associated Equipment:
None.

Kits:
1960E001 ADAPTER, Complete Cartridge
1960E002 ADAPTER, Standard, Projectile Setup
1960E003 ADAPTER, Standard, Complete Cartridge Setup
Use:
The subcaliber torque test fixture is used to apply a specified torque to the subcaliber projectile of the 105MM M392 series (136A1), APDS-T projectile.

Description:
The fixture consists of a torque driver and an adapter to grip the subcaliber projectile.

Difference Between Models:
Original design.

Tabulated Data:
APE No. ......................... 19610000
Unit of issue: ................. Each

Installation Data:
TORQUE DRIVER
Length: ......................... 8-1/2 in.
Width: ......................... 2 in.
Height: ......................... 3-1/2 in.
Weight: ......................... 5 lbs.

ADAPTER
Length: ......................... 4-1/4 in.
Width: ......................... 3-1/2 in.
Height: ......................... 2-7/8 in.
Weight: ......................... 1 lbs.

Utilities Required:
None

Production Capacity:
Not applicable.

Shipping Data:
Length: ......................... 13 in.
Width: ......................... 5 in.
Height: ......................... 5 in.
Cube: ......................... 325 cu in.
Weight: ......................... 7 lbs.

Associated Equipment:
APE 1065, APE 1204, APE 1294

Kits:
None
Use:
The primer torque test fixture is used to hold the 105MM cartridge case so a specified disassembly/assembly torque can be applied to its primer. With the addition of kits, the fixture can be adapted to perform continuity tests on the electric primers in: the 105MM cartridge case; the 5"/54 cartridge case with MK45 primer; and the MK42 primer.

Description:
APE 1962M1 torque test fixture consists of cartridge case base, a cartridge case holder and deflector to provide personnel protection. The basic machine may be disassembled and adapted to perform continuity tests of the Navy 5"/54 cartridge case and the MK42 primer.

Difference Between Models:
The APE 1962M1 is capable of holding the Navy 5"/54 cartridge case and the Navy MK42 primer in addition to the Army 105MM cartridge case. The exchange of the holding fixtures is accomplished by the removal of cap screws which hold the fixtures to the machine base. The APE 1962 is all welded construction and will only hold the 105MM cartridge case.
Tabulated Data:
APE No. ....................... 19620000M1
Unit of Issue ................. Each

Installation Data:
  Length .......................... 22 in.
  Width ............................ 24 in.
  Height ........................... 38 in.
  Weight ........................... 70 lbs
  Floor Space ........................ 3.7 sq ft
  Overall Cube ...................... 11.6 cu ft

Utilities Required:
  None.
Production Capacity:
  Not applicable.

Shipping Data:
  Length .......................... 30 in.
  Width ............................ 38 in.

Height ......................... 43 in.
Cube .............................. 37.0 cu ft
Weight ........................... 277 lbs

Associated Equipment:
  Torque Wrench
  APE 1980 - Universal Resistance Test Instrument
  Two Resistors

Kits:
  1962E002 ADAPTER, Torque, M80A1, Round Pin
  1962E003 ADAPTER, Torque, M80A1, Slotted
  1962E004 KIT, Continuity Test
  1962E005 5"/54 Cartridge Case Holder
  1962E006 KIT, MK42 Primer Resistance
APE 1963--UNIT, ELECTRONIC CONTROL

Use:
The electronic control unit is used to remotely control the firing of weapons and launchers. The unit provides a 28 vdc pulse to a solenoid. The duration of the pulse can be controlled.

Description:
APE 1963 consists of a control box, a solenoid cable assembly, and a solenoid. The unit has a key lock firing mechanism.

Difference Between Models:
Original design.

Tabulated Data:
APE No. ......................... 19630000
Unit Of Issue ..................... Each

Installation Data:
Length .......................... 20-1/8 in.

Utilities Required:
115 vac, 60 Hz, single phase.

Production Capacity:
Not applicable.

Shipping Data:
Length .......................... 24 in.
Width ............................ 10 in.
Height ............................ 12 in.
Cube ............................. 1.67 cu ft
Weight ........................... 36 lbs

Associated Equipment:
APE 1923, 1951M1.

Kits:
None.
Use:
The chemical agent detection device is used to test for the presence of mustard agent in igloos.

Description:
APE 1964 is a portable unit that houses a vacuum system: flowmeters, metering valves, vacuum gages, and vacuum pump; and, electrical controls that permit pre-selecting a time period for the operation of the vacuum pump for the testing procedure. The vacuum pump draws samples of air from four locations inside the igloo. The device is not designed to be positioned in the igloo as the electrical wiring is not explosion proof.

Difference Between Models:
Original design.

Tabulated Data:
APE No. .......................... 19640000
Use:
The function test equipment is used to function test M185 through M190 signals and check the fire pin force in the pyrotechnic projector in M185 through M190 signals.

Description:
APE 1967M1 consists of a holder assembly to hold the projector in the cocked position for remote firing. The equipment includes a cocking assembly, a projector assembly, a cable assembly, and a cover assembly. The equipment has its own storage box.

Difference Between Models:
The APE 1967M1 has a function control safety added to prevent a signal from being fired while it is being screwed into the projector and prevents re-use of fixture until safety is returned to safe position.
Tabulated Data:
APE No. .................. 19670000
Unit of Issue ................. Each

Installation Data:
BASIC EQUIPMENT:
Length .................. 12-1/2 in.
Width .................. 8-1/4 in.
Height .................. 16 in.
Weight .................. 26 lbs
STORAGE BOX:
Length .................. 15 in.
Width .................. 12-1/2 in.
Height .................. 19 in.
Weight .................. 16 lbs

Utilities Required:
None.
Production Capacity:
Not applicable.

Shipping Data:
Length .................. Not available
Width .................. Not available
Height .................. Not available
Cube .................. Not available
Weight .................. Not available

Associated Equipment:
APE 1903.

Kits:
1967E001 KIT, Force Indicator, Firing Pin for Projector Signal
Use:
The one ton container agent sampling unit is used for extracting chemical agent samples from ton containers.

Description:
APE 1969 consists of: a stainless steel glove box which can be positioned on or off the ton container with a portable hydraulic crane; a liquid transfer system for movement of liquid agent; and a tipping cradle assembly for rotating the ton container.

Difference Between Models:
Original design.

Tabulated Data:
APE No. 19690000
Unit of Issue Each
Installation Data:
Length 128 in.

Utilities Required:
Air at 90 psi and 125 cfm; 110 vac, 1 phase, 60 Hz, 208 vac, 3 phase, 60 Hz.

Production Capacity:
Not applicable.

Shipping Data:
Length Not available
Width Not available
Height Not available
Cube Not available
Weight Not available

Associated Equipment:
Two HEPA filter systems
M10 alarm system

Kits:
None.
Use:
The warhead conductivity test meter is used to determine the hardness properties of the M74, 66MM incendiary rocket warhead. It provides information to establish if the warhead is too soft for safe firing.

Description:
APE 1972 is a commercial battery powered unit which produces eddy currents in the warhead specimens. The magnitude of the eddy current is measured by the meter. This conductivity reading is proportional to the hardness of the warhead material.

Difference Between Models:
Original design.

Tabulated Data:
APE No. .................... 19720000
Unit of Issue ................ Each

Installation Data:
Length .................... 9-1/4 in.
Width .................... 6-3/4 in.
Height .................... 4 in.
Weight .................... 4-1/2 lbs

Utilities Required:
Two 1.5 volt batteries.

Production Capacity:
Not applicable.

Shipping Data:
Length .................... 9-3/4 in.
Width .................... 7-1/4 in.
Height .................... 4-1/2 in.
Cube .................... Not available
Weight .................... 5 lbs

Associated Equipment:
None.

Kits:
1972E001 KIT, Digital Thermocouple Readout Meter
Use:
The continuity test equipment for L8 series grenades, APE 1974 is designed for use in determining the serviceability of the L8 series red phosphorous smoke grenade. The test equipment serves as an operational shield in the event of accidental firing of the grenade.

Description:
APE 1974 consists of following major assemblies.

a. An upper chamber assembly that houses the grenade during the continuity test. In the event of the accidental functioning of the grenade, the grenade will be propelled into the base.

b. The test chamber top assembly secures the top of the chamber during testing and holds the breakaway grenade holder.

c. The electrical assembly provides two interlocks between the universal resistance test instrument, APE 1980 and the inner clip probe in the chamber cover.
Difference Between Models:
Original design.

Tabulated Data:
APE No. ..........................19740000
Unit of Issue ..................Each
Installation Data:
  Length ............................31 in.
  Width .............................31 in.
  Height ............................50 in.
  Weight ...........................323 lbs
Utilities Required:
  None.
Production Capacity:
  Not applicable.

Shipping Data:
  Length ............................ Not available
  Width .............................. Not available

Height ............................. Not available
Cube ............................... Not available
Weight ............................. Not available

Associated Equipment:
APE 1980, the Universal Resistance Test Instrument

Kits:
  1974E001 KIT, Function Test for L8 Series Grenades
  1974E002 KIT, Continuity Test for M76, Grenade Launcher, Smoke, IR Screening
  1974E003 KIT, Function Test Extension for M76 Grenade Launcher, Smoke, IR Screening
Use:
The pneumatic actuation system is a pneumatically hand operated machine designed to remotely operate the APE 1922M1 pneumatic launcher for function testing of H.E. and chemical hand grenades, the APE 1940M3 fixture for testing mine, AP, M16, and the APE 1940E001, kit for function testing mine, AP, M26.

Description:
APE 1976 consists of a large cabinet with three sections. The center section of the cabinet houses the pneumatic power and controls of the machine. The left and right sections of the cabinet are for storage of tools and equipment used in function testing. The following six satellite assemblies are used to adapt APE 1922M1, APE 1940M3, and APE 1940E001 for remote control use.

a. The scale box pneumatic assembly consists of three air cylinders which attach to the scale box of the APE 1940E001 kit.

b. The pneumatic lanyard pull assembly is composed of an air cylinder and three lanyards which attach to the M16 mine.
c. The pneumatic weight pull assembly consists of two cylinders used on the APE 1940E001.

d. The quick release valve pull assembly is used to activate the APE 1922M1 for grenade launching.

e. The pin pull assembly attaches to the pull gauge assembly of the APE 1922M1.

f. The air tank reservoir assembly is used to maintain the required compressed air pressure to function the APE equipment at remote distances from the air supply.

Equipment is provided to handle lanyards should they be used in place of the pneumatic system.

Difference Between Models:
Original design.

Tabulated Data:
APE No. 19760000
Unit of Issue Each
Installation Data:
Length 165-1/4 in.
Width 64 in.
Height 41-3/8 in.
Weight 4270 lbs
Utilities Required:
Air at 90 psi.
Production Capacity:
Not applicable.

Shipping Data:
CRATE 1:
Length 88 in.
Width 57 in.
Height 48 in.
Cube Not available
Weight 1200 lbs
CRATE 2:
Length 77 in.
Width 51 in.
Height 39 in.
Cube Not available
Weight 1830 lbs
CRATE 3:
Length 70 in.
Width 69 in.
Height 48 in.
Cube Not available
Weight 1240 lbs

Associated Equipment:
Approved personnel shelter and shield
Trench with removable cover
APE 1922M1, Launcher, Pneumatic for
Function Testing of HE and Chemical
Hand Grenades
APE 1940M3, Fixture for Testing
Mine AP, M16
APE 1940E001, Kit for Function Testing
Mine, AP, M26
APE 1978, Mine Test Monitoring System

Kits:
None.
Use:
The test equipment is designed to provide operators at a function test range the capability to remotely view, record and evaluate function test operations from a non-hazardous location. The monitor, recorder, video scaler and remote control units are located inside a test shelter. The camera and its affiliated equipment are mounted on an outside tower at a height permitting a total view of the function test range.

Description:
APE 1978 consists of a color video camera having a zoom lens attachment with automatic iris control, and an ac adapter to convert ac voltage to dc voltage. The camera, zoom lens and adapter are mounted in an environmental housing that provides automatic heating, cooling and a moisture barrier for these components. A camera cover assembly is provided as protection from possible shrapnel damage during function testing. These items are attached to the motorized pan/tilt unit. The entire mechanism will be mounted on a tower provided by the user at a test range site. The color video cassette recorder has slow motion and stop action features. The recorder, in conjunction with the video camera, is used to document function test proceedings. A color television monitor is
used for viewing of the function test as it occurs, permitting the operator to make camera adjustments as necessary to obtain the best possible vantage point for video taping of the test. The monitor is also used for reviewing video tapes to evaluate and document function test data. A video scaler generates and superimposes selectable scale or gridding onto the monitor and video recording of the function test. The scale or gridding mode best suited for individual function tests may be selected by the equipment operator. A pan/tilt remote control unit provides vertical and horizontal movement of the camera, allowing operator to adjust the field of view as necessary. A zooms lens control allows remote control of the motorized zoom lens. Pushbutton operation provides distance and focus adjustments to picture. An equipment cabinet with casters, adjustable shelves and doors that lock is provided to house the television monitor, video cassette recorder, the video scaler, pan/tilt remote control unit and the zoom lens remote control unit. The cabinet has an outlet box with a switch, 6 three–pronged ac outlets, a pilot light, 15 amp circuit breaker and a 15 foot power cord. The cabinet and its contents are located inside the test shelter.

Difference Between Models:
Original design.

Tabulated Data:
APE No. 19780000
Unit of Issue Each

Installation Data:
EQUIPMENT CABINET:
Length 28 in.
Width 55 in.
Height 23 in. (with cabinet doors closed)

CAMERA COVER ASSEMBLY:
Length 24-1/2 in.
Width 13-1/4 in.
Height 13-1/2 in.
Total Weight 360 lbs

Utilities Required:
120 vac, 20 amps (1 circuit in test shelter); 120 vac, 10 amps (2 circuits in camera housing)

Production Capacity:
Not available.

Shipping Data:
Length Not available
Width Not available
Height Not available
Cube Not available
Weight Not available

Associated Equipment:
None.

Kits:
None.
APE 1980--UNIVERSAL RESISTANCE TEST INSTRUMENT

Use:
The resistance test instrument is used to measure resistance values of projectile electric primers, blasting caps and other detonating devices with specifications applicable to milliohm resolution in the 20 ohm range.

Description:
APE 1980 consists of a portable 4-1/2 digit (19999) ohmmeter providing precise resistance readings to a milliohm resolution in the 20 ohm range. The test current and failsafe current is a 10 milliamperes maximum. Included with the instrument are three calibration resistance networks: zero ohm resistance value, 0.5 ohm resistance value, and 10 ohm resistance value.

Difference Between Models:
Original design.

Tabulated Data:
APE No. .............. 19800000
Unit of Issue ........ Each
Installation Data:
OHMMETER:
Length .............. 9 in.
Width .............. 8-1/2 in.
Height .............. 2-1/2 in.
Weight .............. 3-1/2 in.
Utilities Required:
Battery operated. Battery charger included for use with 115 vac, 50/60 Hz power outlet
Production Capacity:
Not applicable.

Shipping Data:
Length .............. Not available
Width .............. Not available
Height .............. Not available
Cube ................ Not available
Weight .............. Not available

NOTE
Electronics are very sensitive to temperature change in storage and transportation.

Associated Equipment:
None.

Kits:
None.
Use:
The chemical agent munition sampling unit is used for extracting agent samples from 105mm, 155mm, and 8" projectiles, 4.2" mortars, M23 land mines, 115mm M55 rockets, MC-1 and MK94 bombs.

Description:
APE 1981 is a three compartment enclosed, ventilated glove box equipped with the following: self-feed drill motor for drilling into agent cavity of munitions; mechanical transfer system to move munitions into and out of glove box; liquid transfer system for movement of liquid agent; control center; inflatable seals; and decon and washdown capabilities. The unit can transfer agent from drilled munitions to one ton containers. The unit can hold one each (explosive or non-explosive loaded) of any of the above-listed munitions.

Difference Between Models:
Original design.

Tabulated Data:
APE No. ................... 19810000
Unit of Issue ............... Each
Installation Data:
Length ................. 180 in.
Width .................. 42 in.
Height .................. 91 in.
Weight .................. 5000 lbs
Weight w/ancillary equipment ........ 6400 lbs

Utilities Required:
Air at 90 psi and 125 cfm; 110 vac, 1 phase; 230 vac, 3 phase, to operate filter units

Production Capacity:
Not applicable.

Shipping Data:
Length .................. Not available
Width .................. Not available
Height .................. Not available
Cube .................... 400 cu ft
Weight .................. 5500 lbs

Associated Equipment:
Two HEPA filter systems
M10 alarm system

Kits:
None.
The ton container plug and valve replacement equipment is used in surveillance operations to permit replacement of plugs and valves on the ends of a ton container.

Description:
APE 1982 consists of a ton container tipping cradle, glove box, personnel working platforms, and a 1000 cfm charcoal filter unit. The equipment permits changeout of plugs and/or valves in a negative pressure chamber.

Difference Between Models:
Original design.

Tabulated Data:
APE No. 19820000
Unit of Issue Each
Installation Data:
PLATFORM AND CRADLE:
Length 92 in.
Width 120 in.
Height 120 in.
Weight 2000 lbs
GLOVE BOX:
  Length ..................36 in.
  Width ..................36 in.
  Height ..................46 in.
  Weight .................125 lbs

utilities Required:
  110 vac, 1 phase; 208 vac, 3 phase

Production Capacity:
  Not applicable.

Shipping Data:
  Length .................Not available

Associated Equipment:
  Two HEPA filter systems
  M10 alarm system

Kits:
  None.
Use:
The range and elevation measuring equipment APE 1983, has an earth cover program which will determine the earth cover of various earth covered magazines. It is also designed to measure ammunition burst elevation and distance downrange.

Description:
APE 1983 is a complete system capable of performing the four basic functions:

a. Earth cover measurement equipment is capable of measuring the depth of earth cover and earth covered storage magazine in a non-destructive manner. The equipment is capable of storing this information and producing a detailed report.

b. Ammunition burst measurement equipment can be used to manually track ammunition shot from a predetermined position. It can automatically calculate the range and elevation of the ammunition burst. The equipment is capable of storing this information and producing a detailed report.
c. Sequential notepad equipment provides a means by which an operator can enter data, notes, or comments into a portable hand-held unit in a sequential order. The equipment is capable of storing this information and producing a detailed report.

d. Inspection checklist equipment provides a function for the purpose of inspections, by which an operator can go through a check list answering questions yes or no and adding notes. The equipment is capable of storing this information and producing a detailed report.

Difference Between Models:
Original design.

Tabulated Data:
APE No. ......... 19830000
Unit of Issue ......... Each

Installation Data:
Length ............... Not applicable
Width ............... Not applicable
Height ............... Not applicable

Weight ............... Non applicable
Utilities Required:
Printer - 155 Vac, 50/60 Hz.
Theodolite - "AA" disposable or rechargeable batteries data collection.
Unit - "9V" disposable or rechargeable "CR1/3N" lithium batteries production.
Production Capacity:
Not applicable.

Shipping Data:
Length ............... 96 in.
Width ............... 24 in.
Height ............... 18 in.
Cube ............... 65 lbs
Weight ............... Not available

Associated Equipment:
APE1974, Test Equipment for L8 Series Grenade.

Kits:
None.
Use:
The electric firing instrument’s primary design is for field testing of M4 and M6 blasting caps, and projectile electric primer. The APE 1984 may be applied to other field applications requiring a constant current source, including additional detonating devices.

Description:
The APE 1984 is a portable electronic control console which provides a constant direct current (DC) output signal controlled by an integral timer.

Difference Between Models:
Original design.

Tabulated Data:
APE No. .................. 19840000
Unit of Issue ............. Each
Installation Data:
Instrument Case:
20-1/4 x 19-1/2 x 15-1/4 in.
Digital Multimeter:
5-5/8 x 4-5/8 x 2 in.
Cable Assembly ........... 100 ft long
Weight ..................... 55 lbs
Utilities Required:
110 vac, 50/60 Hz.
Production Capacity:
Not applicable.

Shipping Data:
Instrument Case:
20-1/4 x 19-1/2 x 15-1/4 in.
Digital Multimeter:
5-5/8 x 4-5/8 x 2 in.
Cable Assembly:
100 ft long
Weight:
55 lbs

Associated Equipment:
None.

Kits:
1984E001 KIT, M4 and M6 Blasting Cap Fixture and Signal Transfer Box.
Use:
The testing equipment is designed to perform function tests of the M14, anti personnel nonmetallic mine with integral fuze.

Description:
APE 1985 tests one mine at a time. The mine is placed upright, in a user provided wooden holding block, under a weight assembly in the test chamber. The mine is functioned by lanyards from a remote position. In instances when the mine will not function by use of the weight assembly it will be functioned by a remotely located control panel. The APE 1985 consists of the following principal parts.

a. The test chamber assembly serves as a housing for function tests of the M14 mine.

b. The control cabinet and panel assemblies are used to remotely operate the test chamber when a mine fails to function.

c. The weight assembly which drops and causes the mine to function.
Difference Between Models:
Original design.

Tabulated Data:
APE No. .................. 19850000
Unit of Issue .............. Each

Installation Data:
TEST CHAMBER ASSEMBLY:
Length .................. 63-1/2 in.
Width .................... 18-1/2 in.
Height .................... 68 in.
Weight ................... Not available

CONTROL CABINET ASSEMBLY:
Length .................. 18 in.
Width .................... 20 in.
Height .................... 23 in.
Weight ................... Not available

CONTROL PANEL ASSEMBLY:
Length .................. 18 in.
Width .................... 18 in.
Height .................... 46 in.

Weight ................... Not available
Utilities Required:
Oil free air (minimum) 90 psi
at 50 cfm.
Production Capacity:
Not available.

Shipping Data:
Length ................... Not available
Width .................... Not available
Height .................... Not available
Cube ..................... Not available
Weight ................... Not available

Associated Equipment:
None.

Kits:
None.
Use:
The vertical pull apart rotating machine is used to pull or separate fixed type artillery ammunition ranging in size up to 40MM with exception of fin stabilized projectiles.

Description:
APE 2000 consists of a frame mounting a four station turntable. Each station is independent of each other and is mechanically operated. A projectile pickoff station removes the separate projectile from each pull apart station and exists the projectile from the working area. The machine is equipped with a protection barricade, but no deluge system and is only approved for 40MM.

Difference Between Models:
Original design.

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Utilities Required:
3 phase, 208/220 vac, 30 amp outlet.
Production Capacity:
360 rounds per hour.

Shipping Data:
Length .................... 134 in.
Width .................... 83 in.
Height .................... 105 in.

Cube ......................... 676 cu ft
Weight ...................... 11400 lbs

Associated Equipment:
None.

Kits:
2000E001 KIT, Basic Accessories
2000E002 KIT, Pull Apart of 40MM M81, M91, MK2, MK11
Use:
The 20MM breakdown machine is used to break apart 20MM cartridges and separate the components.

Description:
APE 2001M1 consists of a frame with a metal belt which carries the cartridges to a breakoff wedge where the projectile is forced out of the cartridge case. The projectiles exit the machine on a rubber belt. An operational shield is provided.

Difference Between Models:
Not available.

Tabulated Data:
APE No. ................. 20010000M1
Unit of Issue .......... Each
Installation Data:
  Length .................. 26 ft 3 in.
  Width ................... 79 in.
  Height ................... 79 in.
  Weight ................ 8441 lbs
Utilities Required:
  220/440 vac, 3 phase, 60 Hz.

Production Capacity:
  200 cartridges per minute.

Shipping Data:
MACHINE:
  Length ................. 27 ft
  Width ................ 4 ft
  Height ............... 5 ft
  Cube .................. 540 cu ft
  Weight ............ 6000 lbs
SHIELD:
  Length ............... 7 ft
  Width ............... 7 ft
  Height ............... 7 ft
  Cube ................. 343 cu ft
  Weight ........... 3000 lbs

Associated Equipment:
None.

Kits:
  2001E001 KIT, Cartridge Breakdown, 20MM; M187 and M204 Cartridge Case
  2001E002 KIT, Cartridge Breakdown, 20MM; M103
  2001E003 KIT, Cartridge Breakdown, 20MM; M21 Cartridge Case
APE 2006M1—MACHINE, DELINKING, CALIBER .50

Use:
The caliber .50 delinking machine is used to extract caliber .50 cartridges from M2 and M9 links by pulling on the extraction groove.

Description:
APE 2006M1 consists of a metal table with a delinking drum at one end of the table. The drum consists of a group of metal fingers which rotate and each finger pulls a cartridge from the belt as it passes the drum.

Difference Between Models:
The APE 2006M1 has a speed change on the machine.

Tabulated Data:
APE No. .................. 20060000M1
Unit of Issue ............ Each

Installation Data:
Length .................... 72 in.
Width ..................... 34 in.
Height .................... 54 in.
Weight ................... 1272 lbs
Utilities Required:
220/440 vac, 3 phase, 60 Hz.
Production Capacity:
830 cartridges per minute.

Shipping Data:
Length .................... 78 in.
Width ..................... 40 in.
Height .................... 62 in.
Cube ...................... 112 cu ft
Weight ................... 2350 lbs

Associated Equipment:

Kits:
None.
APE 2008--DELINKER-DEBELTER, CALIBER .30

Use:
The delinker-debelter is used to remove caliber .30 cartridges from web or metallic link belts. Cartridges are removed from the belts by pushing on the bullet tips.

Description:
APE 2008 consists of a metal frame, a positive cartridge belt feed, a wedge device for removing the cartridges from the belts, and an electric motor. Also included are two tables with a belt running down the center to feed the ammunition belts to the delinker-debelter.

Difference Between Models:
Original design.

Tabulated Data:
APE No. ................. 20080000
Unit of Issue ............. Each
Installation Data:
  Length .................. 16 ft 8 in.
  Width .................... 36 in.
  Height ................... 39 in.

Weight ................. 1450 lbs
Utilities Required:
  220/440 vac, 3 phase, 60 Hz.
Production Capacity:
  950 cartridges per minute.

Shipping Data:
BOX:
  Length .................. 78 in.
  Width .................... 39 in.
  Height ................... 19 in.
  Cube ........................ 33.4 cu ft
  Weight .................... 1018 lbs
CRATE:
  Length .................. 50 in.
  Width .................... 35 in.
  Height ................... 48 in.
  Cube ........................ 48.6 cu ft
  Weight .................... 788 lbs

Associated Equipment:
None.

Kits:
None.
Use:
The caliber .30 delinking machine is used to remove cartridges from metallic link belts by power operation. It will segregate a single round from a 4 to 1 ratio pack.

Description:
APE 2009 consists of a metal table with the delinking mechanism mounted on one end. A delink plate holds the links as the cartridges are pulled free by two rotating rubber rollers. The delink plate carries the links forward to the link discharge chute.

Difference Between Models:
Original design.

Tabulated Data:
APE No. ................. 20090000
Unit of Issue ............... Each
Installation Data:
  Length ..................... 108 in.

Width ..................... 36 in.
Height ..................... 40 in.
Weight ..................... 1378 lbs

Utilities Required:
115/230 vac, single phase, 60 Hz, 7.4/3.7 amp.

Production Capacity:
3000 cartridges per minute.
Straight Pack: 900 cartridges per minute ratio pack.

Shipping Data:
Length ..................... 130 in.
Width ..................... 43 in.
Height ..................... 52 in.
Cube ....................... 168.2 cu ft
Weight ..................... 1450 lbs

Associated Equipment:
None.

Kits:
None.
Use:
The rotary bullet pull machine is used to pull the bullet from the cartridge and segregate the bullet, the cartridge case, and the propellant.

Description:
APE 2011 consists of a metal frame, a cartridge wheel, a cartridge case cutter, a bullet breaker, a powder collection chute, three electric motors, and machine guards.

Difference Between Models:
Original design.

Tabulated Data:
APE No. 20110000
Unit of Issue Each
Installation Data:
Length 69 in.
Width 50 in.
Height 62 in.
Weight 1873 lbs
Utilities Required: 220/440 vac, 3 phase, 60 Hz
Production Capacity: 660 cartridges per minute.

Shipping Data:
Length 64 in.
Width 56 in.
Height 69 in.
Cube 143.1 cu ft
Weight 2360 lbs

Associated Equipment:

Kits:
2011E001 KIT, Caliber .30 Bullet Pull
2011E002 KIT, 7.62MM Bullet Pull
2011E003 KIT, 5.56MM Bullet Pull
Use:
The cartridge aliner is used to regiment and feed caliber .30 and 7.62MM cartridges to the rotary bullet pull machine.

Description:
APE 2012 consists of a metal frame with two power driven alining rolls and a cartridge feed chute.

Difference Between Models:
Original design.

Tabulated Data:
APE No. ................. 20120000
Unit of Issue ............ Each
Installation Data:
  Length ................. 50 in.
  Width .................. 28 in.
  Height ................ 82 in.

Weight .................. 750 lbs
Utilities Required:
  208/220/440 vac, 3 phase, 60 Hz.
Production Capacity:
  660 cartridges per minute.

Shipping Data:
  Length ................. 68 in.
  Width .................. 56 in.
  Height ................ 64 in.
  Cube ................... 141 cu ft
  Weight ................ 1185 lbs

Associated Equipment:
APE 2011, 2021, 2031, and 2032.

Kits:
  2012E001 KIT, 7.62MM Feed Chute
  2012E002 KIT, 7.62MM Cartridge Guide
  2012E003 KIT, Molin Roll Stand
Use:
The panel board assembly is used to centrally control several electrically operated machines in a small arms demilitarization line.

Description:
APE 2013M2 consists of a metal panel on legs on which are mounted the switches controlling the machines in a small arms demilitarization line. Two short belt conveyors are mounted on the back of the conveyor.

Difference Between Models:
Model based on configuration of SAA demilitarization line and APE utilized.

Tabulated Data:
APE No. 20130000M2
Unit of Issue Each

Installation Data:
Length 96 in.
Width 27 in.
Height 59 in.
Weight 494 lbs
Utilities Required: 220/440 vac, 3 phase, 60 Hz, 30 amp.
Production Capacity: Not applicable.

Shipping Data:
Length Not available
Width Not available
Height Not available
Cube Not available
Weight Not available

Associated Equipment:

Kits:
None.
Use:
The automatic feed machine is used to feed caliber .50 bullets into the decoring machine, APE 2126.

Description:
APE 2015M1 consists of a metal frame, a bullet hopper, a feed chain, an overflow chute, a feed tube, an electric motor drive, and the necessary guards.

Difference Between Models:
The APE 2015M1 model is equipped with a commercial overload coupling rather than a clutch.

Tabulated Data:
APE No. ..................20150000M1
Unit of Issue .............Each

Installation Data:
Length .................... 80 in.
Width ...................... 36 in.
Height ..................... 87 in.
Weight .................... 984 lbs

Utilities Required:
220/440 vac, 3 phase, 60 Hz.

Production Capacity:
275 bullets per minute.

Shipping Data:
Length .................... 84 in.
Width ...................... 38 in.
Height ..................... 96 in.
Cube ........................ 173 cu ft
Weight .................... 1400 lbs

Associated Equipment:
APE 2013M2, 2024, 2126.

Kits:
None.
APE 2016--MACHINE, ROTARY BULLET PULL, CALIBER .50

Use:
The rotary bullet pull machine is used to pull the bullet from the cartridge case of caliber .50 cartridges. It segregates the bullet, the cartridge case, and the propellant.

Description:
APE 2016 consists of a metal frame, a cartridge wheel, a cartridge case cutter, a bullet breaker, a powder collection chute, three electric motors, and machine guards.

Difference Between Models:
Original design.

Tabulated Data:
APE No. ...................... 20160000
Unit of Issue ................. Each

Installation Data:
Length ..................... 69 in.
Width ....................... 54 in.
Height ...................... 62 in.
Weight ..................... 2165 lbs
Utilities Required:
220/440 vac, 3 phase, 60 Hz.
Production Capacity:
320 cartridges per minute.

Shipping Data:
Length ..................... 64 in.
Width ....................... 56 in.
Height ...................... 69 in.
Cube ........................ 143.1 cu ft
Weight ..................... 2665 lbs

Associated Equipment:

Kits:
None.
APE 2017--CARTRIDGE ALINER, CALIBER .50

Use:
The caliber .50 cartridge aliner is used to regiment caliber .50 cartridges and feed them to the rotary bullet pull, APE 2016.

Description:
APE 2017 consists of a metal frame with four power driven alining rolls and a cartridge feed chute.

Difference Between Models:
Original design.

Tabulated Data:
APE No. .................. 20170000
Unit Of Issue ................. Each
Installation Data:
Length ....................... 100 in.

Utilities Required:
208–220/440 vac, 3 phase, 60 Hz.
Production Capacity:
320 cartridges per minute.

Shipping Data:
Length ....................... 75 in.
Width ......................... 53 in.
Height ....................... 85 in.
Cube .......................... 196 cu ft
Weight ....................... 2300 lbs

Associated Equipment:
APE 2013M2, 2016, and 2032.

Kits:
None.
Use:
The vibratory feeder is used to feed cartridges from a hopper to conveyor or another machine at a variable rate. The feeder may be used for other materials.

Description:
APE 2020 is a commercial vibrating feeder with explosion proof construction. A rheostat is included to control the speed the material is fed from the vibratory feeder.

Difference Between Models:
Original design.

Tabulated Data:
APE No. .................. 20200000
Unit of Issue ............... Each

Installation Data:
Length ................... 32 in.
Width .................... 15 in.
Height .................... 20 in.
Weight .................... 370 lbs
Utilities Required:
115/230 vac, single phase, 60 Hz.
Production Capacity:
600 cartridges per minute.

Shipping Data:
Length ................... 36 in.
Width .................... 18 in.
Height .................... 24 in.
Cube ....................... 9 cu ft
Weight .................... 450 lbs

Associated Equipment:
APE 2021, 2031.

Kits:
None.
Use:
The vibrating feeder hopper is used as a storage hopper from which small arms ammunition or other material can be fed onto a vibrating feeder tray.

Description:
APE 2021 is constructed of metal with one opening in the bottom. It has a metal top with a viewing port and an opening for filling the hopper. The hopper is supported on four legs.

Difference Between Models:
Original design.

Tabulated Data:
APE No. .................. 20210000
Unit of Issue ................. Each

Installation Data:
Length ...................... 56 in.
Width ....................... 53 in.
Height ...................... 66 in.
Weight ..................... 340 lbs
Utilities Required: None.
Production Capacity:
Not applicable.

Shipping Data:
Length ...................... 60 in.
Width ....................... 60 in.
Height ...................... 69 in.
Cube ...................... 144 cu ft
Weight ..................... 370 lbs

Associated Equipment:
APE 2020.

Kits:
None.
APE 2021M1—HOPPER, FEEDER, SINGLE (MODIFIED)

Use:
The modified single vibrating feeder hopper is used to hold and dispense vermiculite. The vermiculite is used to pack the fiberboard containers that hold the polystyrene boxes that house a M74, 66MM incendiary rocket clip.

Description:
APE 2021M1 consists of a modified APE 2021 vibrating feeder hopper.

Difference Between Models:
The APE 2021M1 is an APE 2021 that has had the upper hopper assembly and hopper outlet feed door removed.

Tabulated Data:

<table>
<thead>
<tr>
<th>APE No.</th>
<th>Unit of Issue</th>
<th>Installation Data</th>
</tr>
</thead>
<tbody>
<tr>
<td>20210000M1</td>
<td>Each</td>
<td>Length ................. 56 in.</td>
</tr>
</tbody>
</table>

Utilities Required:
None.

Production Capacity:
Renovation line production is 185 to 192 boxes per 8 hour shift.

Shipping Data:

<table>
<thead>
<tr>
<th>Length</th>
<th>Width</th>
<th>Height</th>
<th>Weight</th>
</tr>
</thead>
<tbody>
<tr>
<td>Not available</td>
<td>55-1/2 in.</td>
<td>117 in.</td>
<td>380 lbs</td>
</tr>
</tbody>
</table>

Associated Equipment:
APE 2194.

Kits:
2021E001 KIT, Vermiculite Dispenser
Use:
The central feed hopper is used to feed caliber .50 armor-piercing, ball, or incendiary bullets into four automatic feeders for decoring operations.

Description:
APE 2024 consists of a small hopper supported by metal legs with four feed tubes leading down from the hopper.

Difference Between Models:
Original design.

Tabulated Data:
APE No. ................. .20240000
Unit of Issue ............... Each
Installation Data:
  Length .................... .15 ft
  Width ..................... .5 ft
  Height .................... .11 ft
  Weight ................... .1100 lbs
Utilities Required:
  None.

Production Capacity:
  Feeds 1 to 4 automatic feeders, APE 2015, simultaneously.

Shipping Data:
CRATE:
  Length ................. 88 in.
  Width ................. 66 in.
  Height ............... 68 in.
  Cube .................. 237 cu ft
  Weight ............... 1442 lbs
Box:
  Length ................. 108 in.
  Width ................. 19 in.
  Height .............. 15 in.
  Cube .................. 18 cu ft
  Weight ............... 535 lbs

Associate Equipment:
APE 2015M1, 2032, and 2136.

Kits:
  None.
APE 2026--LINKING MACHINE, POWERED, CALIBER .50, M2 OR M9 LINK

Use:
The linking machine is used to link caliber .50 cartridges into M2 or M9 links by power operation. A delinking attachment may be attached to the machine for delinking cartridges from ammunition belts.

Description:
APE 2026 consists of a metal frame, a drive mechanism, an indexing assembly, an ammunition tray, and a link chute. A sheet metal guard covers the machine.

Difference Between Models:
Original design.

Tabulated Data:
APE No. .................... 20260000
Unit of Issue .............. Each
Installation Data:
   Length .................... .53-3/4 in.

Utilities Required:
110 vat, single phase, 60 Hz.
Production Capacity:
50 to 150 cartridges per minute.

Shipping Data:
Length .................... 51 in.
Width .................... 34 in.
Height .................... 25 in.
Cube .................... 25 cu ft
Weight .................... 470 lbs

Associated Equipment:
None.

Kits:
2026E001 KIT, Caliber .50 Delinking Attachment
Use:
The caliber .50 linking machine is used to link caliber .50 cartridges into M15A2 links. A tight link detector and marking assembly marks the cartridges requiring excessive force to insert them into the links.

Description:
APE 2027M4 consists of a metal frame, a drive mechanism, an indexing assembly, an ammunition tray, a link chute, and a tight link detector and marking assembly. A sheet metal guard covers the moving parts of the machine.
Difference Between Models:
Earlier models were built for the M15 and the M15A1 links.

Tabulated Data:
APE No. ....................................... 20270000M4
Unit of Issue .................................. Each

Installation Data:
Length .................................. 53-3/4 in.
Width ................................... 39 in.
Height ................................... 50 in.
Weight .................................. 350 lbs

Utilities Required:
110 vac, single phase, 60 Hz.

Production Capacity:
100 cartridges per minute.

Utilities Required:
110 vac, single phase, 60 Hz.

Production Capacity:
100 cartridges per minute.

Shipping Data:
Length .................................. 57 in.
Width ................................... 42 in.
Height ................................... 27 in.
Cube ................................... 37 cu ft
Weight .................................. 560 lbs

Associated Equipment:
None.

Kits:
None.
Use:
The delinking machine is used to extract caliber .50 cartridges from M15A2 links by power operation.

Description:
APE 2030 consists of a metal frame, a drive mechanism, an indexing assembly, and the infeed and exit trays. A sheet metal guard covers the moving parts of the machine.

Difference Between Models:
Original design.

Tabulated Data:

<table>
<thead>
<tr>
<th>APE No.</th>
<th>Unit of Issue</th>
<th>Installation Data</th>
<th>Length</th>
<th>Width</th>
<th>Height</th>
<th>Weight</th>
</tr>
</thead>
<tbody>
<tr>
<td>20300000</td>
<td>Each</td>
<td></td>
<td>54 in.</td>
<td>29 in.</td>
<td>18 in.</td>
<td>295 lbs</td>
</tr>
</tbody>
</table>

Utilities Required:
110 vac, single phase, 60 Hz.

Production Capacity:
50 to 150 cartridges per minute.

Shipping Data:
Length ..................... 58 in.
Width ...................... 31 in.
Height .................... 26 in.
Cube ........................ 27 cu ft
Weight .................... 435 lbs

Associated Equipment:
None.

Kits:
None.
Use:
The feeder hopper is used as a storage hopper from which small arms ammunition or other material can be fed onto two vibrator feeder trays.

Description:
APE 2031 is made of metal and has two openings at the bottom for feeding small arms ammunition. The cover has a viewing port and an opening for filling the hopper. The hopper is supported on four steel legs.

Difference Between Models:
Original design.

Tabulated Data:
APE No. ................. 20310000
Unit of Issue ..............Each

Installation Data:
Length .................. 62 in.
Width .................... 53 in.
Height ................... 66 in.
Weight ................... 440 lbs
Utilities Required:
None.
Production Capacity:
Not applicable.

Shipping Data:
Length .................. 66 in.
Width .................... 57 in.
Height ................... 72 in.
Cube ..................... 156 cu ft
Weight ................... 640 lbs

Associated Equipment:
APE 2020.

Kits:
None.
Use:
The powered belt conveyor is used to convey small arms ammunition and other small items short distances.

Description:
APE 2032 consists of two 10-foot frame sections, a drive end, an idler end, 8-inch wide belting, and the supporting legs. The conveyor may be set up for incline or horizontal use.

Difference Between Models:
Original design.

Tabulated Data:
APE No. 2032
Unit of Issue Each
Installation Data:
Length 136 in.
Width 19 in.
Height 33 in. to 103 in.
Weight 1560 lbs

Utilities Required:
208-220/440 vac, 3 phase, 60 Hz.
Production Capacity:
Not applicable.

Shipping Data:
PACKAGE 1:
Length 143 in.
Width 48 in.
Height 38 in.
Cube 151 cu ft
Weight 1635 lbs

PACKAGE 2:
Length 65 in.
Width 30 in.
Height 37 in.
Cube 41.8 cu ft
Weight 305 lbs

Associated Equipment:
None.

Kits:
None.

2-218 (2-219 blank)
Use:
The derust machine is used to remove rust from mortar projectiles with the fuze and fin assemblies removed. It will accommodate 60MM M49A2; 81MM M43A1, M56A1, M68, and M361; and 4.2-inch, M3A1 projectiles. A dust collector is supplied with the machine.

Description:
APE 2038 consists of a metal frame with adapters to hold the projectiles. An air motor rotates the projectile. An air driven wire brush is balanced over the machine. The dust collector is connected to the machine by a flexible hose.

Difference Between Models:
original design.

Tabulated Data:
APE No. ....................... 20380000
Unit of Issue ................. Each
Installation Data:
DERUST MACHINE:
Length ...................... 55 in.
Width ....................... 47 in.
Height ...................... 54 in.
Weight ..................... 585 lbs
DUST COLLECTOR:
  Length .................. 37 in.
  Width .................... 24 in.
  Height ................... 37 in.
  Weight ................... 196 lbs
Utilities Required:
  Air at 100 psi and 60 cfm; 220 vac, 3 phase, 60 Hz.
Production Capacity:
  Depends on size and condition of projectile.

Shipping Data:
  Length .................... 85 in.
  Width ..................... 57 in.
  Height .................... 68 in.
  Cube ........................ 190.7 cu ft
  Weight .................... 1643 lbs

Associated Equipment:
  None.

Kits:
  None.
Use:
The ignition cartridge removal fixture is used to remove ignition cartridges from M149 and M170 fin assemblies of M374 series HE and M375 series smoke 81MM mortar ammunition.

Description:
APE 2040 consists of a metal base, a filter-regulator, control valves, a flash shield and a toggle clamp.

Difference Between Models:
Original design.

Tabulated Data:
APE No. ......................... 20400000
Unit of Issue ................. Each

Installation Data:
Length ......................... 27-1/2 in.

Width ......................... 5-1/2 in.
Height ......................... 8-1/2 in.
Weight ......................... 8 lbs

Utilities Required:
Air at 110 psi.

Production Capacity:
180 cartridges per hour.

Shipping Data:
Length ......................... 29-1/2 in.
Width ......................... 7-1/2 in.
Height ......................... 10-1/2 in.
Cube ......................... 1.35 cu ft
Weight ......................... 29 lbs

Associated Equipment:
None.

Kits:
None.
Use:
The tooling and handling equipment is used to turn down the rotating band of the 155MM M101 projectile changing it to the M107B2 projectile.

Description:
APE 2041 consists of a modified floor mounted engine lathe with a special cutting tool.

Difference Between Models:
Original design.

Tabulated Data:
APE NO. ................. 20410000
Unit of Issue ............ Each
Installation Data:
Length .................. 104 in.
Width .................... 38 in.
Height .................. 80 in.
Weight .................. 5240 lbs

Utilities Required:
220/440 vac, 3 phase, 60 Hz, 25/13 amps; air at 80 psi and 7.5 cfm.

Production Capacity:
Not available.

Shipping Data:
Length .................. 100 in.
Width .................... 70 in.
Height .................. 72 in.
Cube ..................... 292 cu ft
Weight .................. 6145 lbs

Associated Equipment:
None.

Kits:
2041E001 KIT, Positioning Tool
2041E002 KIT, Width Tool
2041E003 KIT, Sharpening Jig
Use:
The explosives separator is used to receive military type explosive dusts, mix the dust with water, and hold the mixture as a sludge until it is drained from the separator through a valve.

Description:
The upper portion of the APE 2042 body is cylindrical in shape and has an inspection port for viewing the inside of the body. The lower portion is conical in shape and has an explosive sludge drain valve connected to the bottom end of the cone. APE 2042 is mounted on wheels and is equipped with hoses to connect it to a vacuum source.

Difference Between Models:
Original design.

Unit of Issue .............. Each

Installation Data:
Length .................... 28 in.
Width ..................... 28 in.
Height .................... 62 in.
Weight ................... 330 lbs

Utilities Required:
Vacuum source.

Production Capacity:
Not applicable.

Shipping Data:
Length .................... 42 in.
Width ..................... 41 in.
Height .................... 74 in.
Cube ...................... 73.7 cu ft
Weight ................... 685 lbs

Associated Equipment:
APE 2043.

Kits:
None.

Tabulated Data:
APE No. ..................... 20420000
APE 2043--VACUUM CLEANER (ELECTRIC PORTABLE)

Use:
The vacuum cleaner is used with military ammunition oriented equipment for the pick-up of explosive dusts and explosive material.

Description:
APE 2043 is a modified commercial type with enclosed filter. It cleans by suction only and is powered by a 5-horsepower motor. The unit is mounted on a three wheel cart.

Difference Between Models:
Original design.

Tabulated Data:
APE No. 20430000
Unit of Issue Each

Installation Data:
Length 66 in.
Width 24 in.
Height 68 in.
Weight 510 lbs
Utilities Required: 220 vac, 3 phase, 60 Hz.
Production Capacity: Not applicable.

Shipping Data:
Length 77 in.
Width 43 in.
Height 75 in.
Cube 143.7 cu ft
Weight 1099 lbs

Associated Equipment:
APE 2042.

Kits:
None.
Use:
The zone weighing scale is used to zone weigh artillery projectiles ranging in size from 75MM through 120MM.

Description:
APE 2044M1 is a bench model of the automatic indicating, portable platform, pendulum type. A metal stand is provided with each scale.

Difference Between Models:
The APE 2044M1 dial face was changed to include a greater variety of projectile types. Double indicator replaced with single indicator.

Tabulated Data:
APE No. .......................20440000M1
Unit of Issue ..................Each

Installation Data:
Length ....................... 31 in.
Width ....................... 25 in.
Height ....................... 51 in.
Weight ....................... 535 lbs
Utilities Required:
None.
Production Capacity:
Not applicable.

Shipping Data:
Length ....................... 49 in.
Width ....................... 32 in.
Height ....................... 66 in.
Cube ......................... 60 cu ft
Weight ....................... 600 lbs

Associated Equipment:
APE 2094.

Kits:
None.
Use:
The zone weighing scale is used to zone weigh artillery projectiles ranging in size from 155MM through 8 inch.

Description:
APE 2045M1 is a bench model of the automatic indicating, portable platform, pendulum type. A metal stand is provided with each scale.

Difference Between Models:
The APE 2045M1 had projectile size range changed from 155MM thru 240MM to 155MM thru 8 inch.

Tabulated Data:
APE No. 20450000M1
Unit of Issue Each

Installation Data:
Length 40 in.

Utilities Required:
None.

Production Capacity:
Not applicable.

Shipping Data:
Length 58 in.
Width 41 in.
Height 63 in.
Cube 86.7 cu ft
Weight 1037 lbs

Associated Equipment:
APE 2094.

Kits:
None.
APE 2046--SCALE, OVER-UNDER, DIAL INDICATING

Use:
The scale is used to weigh military explosive loaded items and/or equipment. The scale weighs in 0.01-pound increments.

Description:
APE 2046 is bench type and is set up to show the exact weight at the center of the dial. If the pointer is to the left of center, the weight is under the desired amount; if it is to the right of center, the weight is greater than the desired amount.

Difference Between Models:
Original design.

Tabulated Data:
APE No. ..................... 20460000
Unit of Issue ................ Each

Installation Data:
Length ...................... 41 in.
Width ....................... 35 in.
Height ...................... 60 in.
Weight ..................... 400 lbs

Utilities Required:
None.
Production Capacity:
Not applicable.

Shipping Data:
Length ...................... Not available
Width ....................... Not available
Height ...................... Not available
Cube ......................... 50 cu ft
Weight ..................... 732 lbs

Associated Equipment:
None.

Kits:
None.
Use:
The surveillance work table is used to perform surveillance tests of small arms ammunition. It provides work area for gaging operations and equipment for drop weight tests and spring tension tests on metallic link belts.

Description:
APE 2050M1 consists of two mating sections. The two sections when joined make a table 4 feet wide and 13-1/2 feet long. The table is equipped with a winch assembly and a scale assembly. A hinged plastic guard extends the full length of the table. The table is mounted on eight locking casters.

Difference Between Models:
APE 2050M1 has wider guard assemblies, narrower plywood boards and narrower storage area for the plywood boards. Use of 2050E001 kit requires APE 2050 configuration or upgrade to APE 2050M1 configuration.

Tabulated Data:
APE No ........................................ 20500000M1
Unit of Issue ......................... Each

Installation Data:
Length ................................. 14-1/2 ft
Width ................................. 4 ft
Height .................................. 5 ft
Weight ................................. 1260 lbs

Utilities Required:
None.
Production Capacity:
Not applicable.

Shipping Data:
SECTION I:
Length ................................. 93 in.
Width ................................. 53 in.
Height ................................. 41 in.
Cube ................................. 117 cu ft
Weight ................................. 1064 lbs

SECTION II:
Length ................................. 93 in.
Width ................................. 53 in.
Height ................................. 41 in.
Cube ................................. 117 cu ft
Weight ................................. 998 lbs

Associated Equipment:
None.

Kits:
2050E001 KIT, 20MM Inspection
2050E002 KIT, 25MM Inspection
Use:
The cavity resizing tool is used to ream the fuze cavity of projectile/cartridge with 2 inch dia. threads for assembly of fuzewell liner. The tool is hand operated.

Description:
The tool consists of a handwheel, an adapter comparable to a nose plug, a fly cutter blade for the reaming process, and an adjustable stop nut to control the depth of cut. The handwheel, stop nut, and adapter are knurled for ease in handling.

Difference Between Models:
Original design.

Tabulated Data:
APE No . . . . . . . . . . . . . . 20520000
Unit of issue: . . . . . . . . . . . . Each

Installation Data
Length: . . . . . . . . . . . . . . 3-1/2 in.
Width: . . . . . . . . . . . . . . 3-1/2 in.
Height: . . . . . . . . . . . . . . 7-1/8 in.
Weight: . . . . . . . . . . . . . . 3.5 lbs.

Utilities Required:
None

Production Capacity:
Varies with operator and condition of cartridge being processed.

Shipping Data
Length . . . . . . . . . . . . . . 5 in.
Width: . . . . . . . . . . . . . . 5 in.
Height: . . . . . . . . . . . . . . 9 in.
Cube: . . . . . . . . . . . . . . . . 0.13 cu. ft.
Weight: . . . . . . . . . . . . . . 4 lbs.

Associated Equipment:
None

Kits:
None
Use:
The air sampling device is used to test for leaks in toxic chemical filled munitions. It contains a vacuum pump which draws samples of air from within the munitions through detection devices as specified in "Ammunition Surveillance Procedures". If the device is to be used to sample VX filled artillery projectiles for leaks, it will be necessary to order the 2053E001 kit. Each kit consists of five detector ticket adapters.

Description:
APE 2053M3 consists of a metal cabinet with a vacuum pump mounted inside the cabinet. The pump draws samples through five separate rubber tubes. A work area is provided for sample tubes on the top of the cabinet. The cabinet is mounted on wheels for portability.

Difference Between Models:
APE 2053 was only able to draw samples through one tube and was not mounted on wheels. APE 2053M1 differs from APE 2053 in that it has five sampling tubes and mounts for battery pack for miners lamps. APE 2053M2 differs from APE 2053M1 in that it has an explosion proof incandescent light replacing the dc battery pack and miners lamps. APE 2053M3 differs from APE 2053M2 in that packaging of the M11 canister was changed to a hermetically sealed can without the cap and plug which was used to assure a tight seal when modified for use on the APE 2053M2. The APE 2053M3 incorporates the use of plastic canister caps, O-rings, gaskets, and a new mounting plate to seal the M11 canister.
Tabulated Data:
APE No. .................. 20530000M2
Unit of Issue .......... Each

Installation Data:
  Length ................. 32 in.
  Width .................. 31-1/2 in.
  Height .................. 67 in.
  Weight ................. 190 lbs

Utilities Required:
  120 vac, single phase, 60 Hz, 6.8 amp.

Production Capacity:
  Not applicable.

Shipping Data:
  Length .................. 64 in.
  Width .................. 34 in.
  Height .................. 29 in.
  Cube .................... 37 cu ft
  Weight .................. 410 lbs

Associated Equipment:
  None.

Kits:
  2053E001 Holder, Detector Ticket
Use:
The obliterating machine is used for obliterating stamped markings from the body of nose type fuzes.

Description:
APE 2055 consists of a metal table with an air motor mounted below the table. An obliterating disk is mounted on each side of the fuze holder. The air motor turns the disks and fuze holder to obliterate the markings.

Difference Between Models:
Original design.

Tabulated Data:
APE No. ................. 20550000
Unit of Issue ........... Each

Installation Data:
Length .................... 40-1/2 in.
Width ..................... 24-1/2 in.
Height ................... 41 in.
Weight ................... 380 lbs
Utilities Required:
Air at 90 psi and 40 cfm.
Production Capacity:
Not available.

Shipping Data:
Length .................... 48 in.
Width ..................... 32 in.
Height ................... 51 in.
Cube ...................... 45.3 cu ft
Weight ................... 680 lbs

Associated Equipment:
None.

Kits:
None.
APE 2057—MACHINE, PNEUMATIC STAKING

Use:
The pneumatic staking machine is used to stake a booster to the body of nose type fuzes.

Description:
APE 2057 consists of an 8-inch air cylinder with a punch assembly attached, a fuze holding block, a foot operated air valve, and a filter regulator lubricator.

Difference Between Models:
Original design.

Utilities Required:
Air at 80 psi and 4 cfm.

Production Capacity:
Depends on operator skill.

Shipping Data:
Length .................. 40 in.
Width ..................... 21 in.
Height ..................... 31 in.
Cube ........................ 15.1 cu ft
Weight .................... 318 lbs

Associated Equipment:
None.

Kits:
None.

Tabulated Data:
APE No. .................. 20570000
Unit of Issue .............. Each

Installation Data:
Length .................. 36 in.
Width ..................... 18 in.
APE 2058--CLIP LOADING MACHINE, EIGHT ROUND, CALIBER .30

Use:
The clip loading machine is used to insert eight caliber .30 cartridges into eight round clips by power operation.

Description:
APE 2058 consists of a cast metal frame, a cartridge aliner, a clip feed mechanism, a clipping mechanism, and a drive mechanism.

Difference Between Models:
original design.

Tabulated Data:
APE No. ................. 20580000
Unit of Issue ............ Each

Installation Data:
Length .................... 97 in.
Width ..................... 84 in.

Height .................... 66 in.
Weight .................... Not available
Utilities Required:
220/440 vac, 3 phase, 60 Hz.

Production Capacity:
85 clips per minute.

Shipping Data:
Length .................... 85 in.
Width ..................... 59 in.
Height .................... 76 in.
Cube ...................... 220.5 cu ft
Weight .................... 2902 lbs

Associated Equipment:
None.

Kits:
None.
Use:
The M605 mine fuze assembly and disassembly machine is used to assemble and torque and to disassemble the loading assembly from the head assembly of M605 mine fuzes. It is hand operated.

Description:
APE 2061 has a metal frame with an exhaust stack and a shield mounted on it. A hand-wheel supplies power for assembly and disassembly. Holding fixtures for the fuze are provided.

Difference Between Models:
Original design.

Tabulated Data:
APE No. ......................20610000
Unit of Issue ..............Each

Installation Data:
Length ..................... 28 in.
Width ....................... 23 in.
Height ...................... 29 in.
Weight ..................... 116 lbs

Utilities Required:
None.

Production Capacity:
Depends on condition of fuzes.

Shipping Data:
Length ...................... 30 in.
Width ....................... 20 in.
Height ...................... 26 in.
Cube ........................ 9 cu ft
Weight ..................... 175 lbs

Associated Equipment:
None.

Kits:
None.
Use:
The ultrasonic test set is used for rapid and simple nondestructive testing of materials by contact or immersion testing through the use of interchangeable plug-in search units.

Description:
APE 2062 is a single channel test instrument with a buzzer and a flashing light signal to indicate flaws in the items being tested.

Difference Between Models:
Original design.

Tabulated Data:
APE No. ................. 20620000
Unit of Issue .......... Each

Installation Data:
Length ................ 20 in.
Width ................ 20 in.
Height ................ 7 in.
Weight ................ 45 lbs

Utilities Required:
115 ±10 vac, single phase, 50/60 Hz, 2 amp.

Production Capacity:
Not applicable.

Shipping Data:
Length ................. 29 in.
Width ................ 26 in.
Height ................ 13 in.
Cube .................... 6 cu ft
Weight ................ 66 lbs

Associated Equipment:
None.

Kits:
2062E001 KIT, 66MM: M72 LAW Fuze Closure
2062E002 KIT, Hollow Core Eyebolt Lifting Plug
Use
The x-ray machine is used to inspect parts, components, and finished assemblies for defects. Items may range from thin walled aluminum and magnesium castings to 4-inch thick steel parts.

Description:
APE 2068M2 consists of a cylindrical x-ray head, a control panel, and connecting cables. These items are stored in two trunks.

Difference Between Models:
The APE 2068M1 has been modified to operate with a safety interlock system. The APE 2068M2 is procured with the interlock system built into the machine, not added on.

Tabulated Data:
- **APE No.**: 20680000M2
- **Unit of Issue**: Each
- **Installation Data:**
  - **X-RAY HEAD TRUNK:**
    - Length: 50 in.
    - Width: 20 in.
    - Height: 21 in.
    - Weight: 238 lbs
  - **CONTROL PANEL TRUNK:**
    - Length: 32 in.
    - Width: 16 in.
    - Height: 14 in.
    - Weight: 95 lbs
- **Utilities Required**: 115 vac, single phase, 60 Hz.
- **Production Capacity**: Not applicable.
### Shipping Data:

<table>
<thead>
<tr>
<th>X-RAY HEAD TRUNK</th>
<th>Control Panel Trunk</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Length</strong></td>
<td>50 in.</td>
</tr>
<tr>
<td><strong>Width</strong></td>
<td>30 in.</td>
</tr>
<tr>
<td><strong>Height</strong></td>
<td>21 in.</td>
</tr>
<tr>
<td><strong>Cube</strong></td>
<td>15 cu ft</td>
</tr>
<tr>
<td><strong>Weight</strong></td>
<td>238 lbs</td>
</tr>
<tr>
<td><strong>Height</strong></td>
<td>14 in.</td>
</tr>
<tr>
<td><strong>Cube</strong></td>
<td>5 cu ft</td>
</tr>
<tr>
<td><strong>Weight</strong></td>
<td>95 lbs</td>
</tr>
</tbody>
</table>

**Associated Equipment:**
APE 1288 and 2074.

**Kits:**
None.
Use:
The radiographic inspection facility is used to provide a portable facility for radiographic inspection of ammunition items.

Description:
APE 2074 consists of a skid mounted shelter, containing an x-ray head, x-ray controls, and photo developing and printing equipment.

Difference Between Models:
Original design.

Tabulated Data:
APE No. ..................20740000
Unit of Issue .............Each
Installation Data:
   Length ..................26 ft 1 in.

Width .....................8 ft 6-1/2 in.
Height ....................8 ft 11 in.
Weight ....................18000 lbs
Utilities Required:
120/208 vac, 3 phase, 60 Hz or 45 kw generator.
Production Capacity:
Not applicable.

Shipping Data:
Length ....................26 ft 1 in.
Width .....................8 ft 6-1/2 in.
Height ....................8 ft 11 in.
Cube ........................1989 cu ft
Weight ....................18000 lbs

Associated Equipment:
APE 1288, 2068M2.

Kits:
None.
Use:
The declipper is used to remove 5.56MM cartridges from 10 round clips and 7.62MM and caliber .30 cartridges from five round clips by power operation.

Description:
APE 2077 consists of a metal frame with a feed table mounted on top of the frame, and a clip feed chute mounted below the table in the center of the frame. An air motor is mounted over the clip feed chute. A roller mounted on the air motor removes the clips from the cartridges.

Difference Between Models:
Original design.

Tabulated Data:
APE No. 20770000
Unit of Issue Each
Installation Data:
Length 36 in.

Utilities Required:
Air at 90 psi.

Production Capacity:
Dependent on operator skill and condition of cartridges and clips.

Shipping Data:
Length 42 in.
Width 35 in.
Height 51 in.
Cube 43 cu ft
Weight 414 lbs

Associated Equipment:
APE 2021M1, 2031, 2032.

Kits:
2077E001 KIT, Center Guide, 5.56MM
2077E002 KIT, Center Guide, 7.62MM and Caliber .30
Use:
The nose cap removal wrench is used to remove the cap from the spike of the 90MM: M371 HEAT cartridge by hand operation. The wrench allows for application of minimum pressure for gripping the nose cap for the removal operation.

Description:
The wrench is constructed of steel and one handle is forked. The nose cap cup and 1 inch of the solid handle have a 1/16-inch slot centrally located. This spacing and the slotted cup allow application of minimum pressure for gripping the nose cap.

Difference Between Models:
Original design.

Installation Data:
Length ....................... 20 in.
Width ..................... 2 in.
Height ................... 1 in.
Weight ................. 1.5 lbs.

Utilities Required:
None

Production Capacity:
Not applicable

Shipping Data:
Length ....................... 22 in
Width ..................... 3 in
Height ................... 2 in.
Cube ....................... 132 cu. ft.
Weight ................. 3 lbs.

Associated Equipment:
None.

Kits:
None.

Tabulated Data:
APE No ..................... 20810000
Unit of Issue: .......... Each
Use:
The head removal fixture is used to remove and/or assemble the head assembly on the M48A1 series fuzes. The fixture will also accommodate the M51A4 Mod3 fuze.

Description:
APE 2083 consists of an operational shield, a fuze holder, a bose assembly holding assembly, an air motor, and the air controls.

Difference Between Models:
Original design.

Tabulated Data:
APE No ......................... 20830000
Unit of Issue .................... Each

Installation Data:
Length .......................... 36 in.
Width ............................ 60 in.
Height ............................ 24 in.
Weight ........................... 250 lbs
Utilities Required:
Air at 100 psi and 100 cfm.
Production Capacity:
240 fuzes per hour.

Shipping Data:
Length .......................... 40 in.
Width ............................ 66 in.
Height ............................ 30 in.
Cube ............................. 46 cu ft
Weight ........................... 300 lbs

Associated Equipment:
None.

Kits:
None.
Use:
The link-delink machine is designed for use in linking, delinking, or ratio changing 5.56MM cartridges with the M27 link. The machine is capable of handling straight or ratio packed ammunition. Linking or ratio changing will be in a sequence of five cartridges.

Description:
The APE 2086 is a drum type, frame mounted machine, convertible to linking, delinking or ratio changing.

During linking operations, cartridge feed chutes, feed wheel assemblies and the link feed chute simultaneously feed cartridges and links onto the drum grooves to be combined by the cartridge insert and link retainer assembly into one continuous belt. A vibrator is provided to keep cartridges and links moving into the grooves of the rotating drum. The link feed chute is supplied with links by twelve hand filled link magazines which must be removed and replace manually during linking operations.
Delinking operations are performed by means of ejector rods moved by a delink cone which pushes the cartridges from the links as the drum rotates. Links and cartridges are released into separate user supplied retrieval containers.

The ratio change operation is accomplished by a combination of the linking and delinking operations. Cartridges to be changed will be removed by ejector rods and replaced as in the linking procedure.

The machine is electrically operated by a variable speed, direct current motor drive controller.

Utilities Required:
115 Vac, single phase, 60 Hz, 20 amps.

Production Capacity:
The APE 2086 is a hand feed machine, the production rate given will vary dependent upon the operation being performed and the dexterity of the operators.

- Linking ............... 150 to 400 rounds per minute.
- Ratio Changing ........ 150 to 800 rounds per minute.
- Delinking ............. 150 to 1000 rounds per minute.

Difference Between Models:
Original design.

Tabulated Data:
APE No. ................. 20860000
Unit of Issue ............ Each

Installation Data:
- Length ............... 35 in.
- Width .................. 55 in.
- Height .................. 106 in.
- Weight ............... Not available
- Cubic Feet ............. 52.5 cu ft
- Floor Space ........... 12 sq ft

Shipping Data:
- Length ................ Not available
- Width .................. Not available
- Height .................. Not available
- Cube .................... Not available
- Weight ............... Not available

Associated Equipment:
None.

Kits:
None.
Use:
The can sealing machine is used to seal cans 3 to 10-1/2 inches in diameter and from 4 to 20 inches in height.

Description:
APE 2091 consists of a sealing head and can support mounted on a steel column. The column is attached to a pedestal. A drive motor is mounted on the side of the column.

Difference Between Models:
Original design.

Tabulated Data:
APE No. 20910000
Unit of Issue Each
Installation Data:
Length 37 in.

APE 2091--MACHINE, CAN SEALING

Utilities Required:
220/440 vac, 3 phase, 60 Hz.
Production Capacity:
100 to 125 containers per hour.

Shipping Data:
Length 48 in.
Width 42 in.
Height 72 in.
Cube 84 cu ft
Weight 740 lbs

Associated Equipment:
None.

Kits:
None.
APE 2094—DEVICE, LOCKING, SCALE PLATFORM

Use:
The scale platform locking device is used to hold the scale platform to reduce shock and protect the divots and other delicate scale parts from damage during the process and rolling projectiles on and off the scale platform.

Description:
APE 2094 consists of two air cylinders, a control assembly, and the stop assemblies. The stop assemblies are mounted on the sides of the scale platform. The air cylinders are mounted on the scale frame and clamp onto the stop assemblies to hold the platform still.

Difference Between Models:
Original design.

Tabulated Data:
APE No. 20940000
Unit of Issue Each

Installation Data:
Length 25-1/2 in.
Width 23 in.
Height 10 in.
Weight 14 lbs

Utilities Required:
Air at 80 psi and 0.5 cfm.

Production Capacity:
Not applicable.

Shipping Data:
Length 15 in.
Width 11 in.
Height 9 in.
Cube 1.0 cu ft
Weight 29 lbs

Associated Equipment:
APE 2044M1, 2045M1, 2089, 2090.

Kits:
None.
Use: The projectile holding device is used to hold ammunition items ranging in size from 60MM to 8 inches in diameter. It holds the projectile with a belt that is tightened by an air cylinder.

Description: APE 2097 consists of the belt holding device, an air system for operation and three 3-way air control valves in a control panel. The device can be installed in a vertical or horizontal position.
Difference Between Models:
Original design.

Tabulated Data:
APE No. . . . . . . . . . . . . . . . 20970000
Unit of Issue . . . . . . . . . . . Each

Installation Data:
DEVICE:
   Length . . . . . . . . . . . . . . . . 39 in.
   Width . . . . . . . . . . . . . . . . . 14-1/2 in.
   Height . . . . . . . . . . . . . . . . . 29 in.
   Weight . . . . . . . . . . . . . . . . . 263 lbs

CONTROL PANEL:
   Length . . . . . . . . . . . . . . . . . 20 in.
   Width . . . . . . . . . . . . . . . . . . 8-1/2 in.
   Height . . . . . . . . . . . . . . . . . . 4-3/4 in.
   Weight . . . . . . . . . . . . . . . . . Not available

Utilities Required:
   Air at 90 psi.

Production Capacity:
Dependent on operating being performed.

Shipping Data:
   Length . . . . . . . . . . . . . . . . . Not available
   Width . . . . . . . . . . . . . . . . . Not available
   Height . . . . . . . . . . . . . . . . . Not available
   Cube . . . . . . . . . . . . . . . . . . . Not available
   Weight . . . . . . . . . . . . . . . . . Not available

Associated Equipment:
None.

Kits:
None.
Use:
The rocket disassembly machine is used to remotely disassemble 3.5 white phosphorus rockets with an automatic or emergency dump chute.

Description:
APE 2099 is a hydraulically powered and pneumatically controlled machine. The machine consists of a frame, an upper disassembly head, lower disassembly head, fuze clamp assembly, detonator clamp assembly and fire sensor, automatic or emergency dump chute, pneumatic logic control system, remote control box and hydraulic power system.

Difference Between Models:
Original design.

Tabulated Data:
APE No. ................. 20990000

Unit of Issue ............ Each
Installation Data:
  Length .................. 41 in.
  Width ................... 36 in.
  Height .................. 90 in.
  Weight ................... 2000 lbs
Utilities Required:
  Air at 100 psi; 115 vac.
Production Capacity:
  Not available.

Shipping Data:
  Length .................. 61 in.
  Width ................... 46 in.
  Height .................. 102 in.
  Weight ................... 165.6 cU ft
  Cube ..................... 2300 lbs

Associated Equipment:
None.

Kits:
  None.
APE 2101—SCALE, OVER-UNDER

Use:
The over-under scale is used to weigh propellant powder and other small items weighing up to 4 ounces.

Description:
APE 2101 is a bench style with a commodity platter. It has a moving pointer to indicate if the item being weighed is overweight or underweight. The pointer is protected by a clear plastic cover.

Difference Between Models:
Original design.

Tabulated Data:
APE No. ................. 21010000
Unit of Issue ............ Each

Installation Data:
Length .................. 18-1/2 in.

Utilities Required:
110 vac, single phase, 60 Hz.

Production Capacity:
Not applicable.

Shipping Data:
Length .................. Not available
Width ................... Not available
Height ................... Not available
Cube ..................... Not available
Weight ................... Not available

Associated Equipment:
None.

Kits:
None.
Use:
The over-under scale is used to weigh propellant powder and other small items weighing up to 1 pound.

Description:
APE 2102 is a bench style with a commodity platter. It has a moving pointer to indicate if the item being weighed is overweight or underweight. The pointer is protected by a clear plastic cover.

Difference Between Models:
Original design.

Utilities Required:
110 vac, single phase, 60 Hz.

Production Capacity:
Not applicable.

Shipping Data:

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<tr>
<th>Length</th>
<th>Width</th>
<th>Height</th>
<th>Cube</th>
<th>Weight</th>
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Associated Equipment:
None.

Kits:
None.
Use:
The over-under scale is used to weigh propellant powder and other small items weighing up to 3 pounds.

Description:
APE 2103 is a bench style with a commodity platter. It has a moving pointer to indicate if the item being weighed is overweight or underweight. The pointer is protected by a clear plastic cover.

Difference Between Models:
Original design.

Tabulated Data:
APE No. 21030000
Unit of Issue Each

Installation Data:
Length 18-1/2 in.

Utilities Required:
110 vac, single phase, 60 Hz.

Production Capacity:
Not applicable.

Shipping Data:
Length Not available
Width Not available
Height Not available
Cube Not available
Weight Not available

Associated Equipment:
None.

Kits:
None.

Width 10-3/4 in.
Height 12-3/4 in.
Weight Not available
Use:
The over-under scale is used to weigh propellant powder and other small items weighing up to 6 pounds.

Description:
APE 2104 is a bench style with a commodity platter. It has a moving pointer to indicate if the item being weighed is overweight or underweight. The pointer is protected by a clear plastic cover.

Difference Between Models:
Original design.

Tabulated Data:
APE No. 21040000
Unit of Issue Each

Installation Data:
Length 25-1/2 in.

Utilities Required:
110 vac, single phase, 60 Hz.

Production Capacity:
Not applicable.

Shipping Data:
Length Not available
Width Not available
Height Not available
Cube Not available
Weight Not available

Associated Equipment:
None.

Kits:
None.
APE 2105--SCALE, OVER-UNDER

Use:
The over-under scale is used to weigh propellant powder and other small items weighing up to 12 pounds.

Description:
APE 2105 is a bench style with a commodit platter. It has a moving pointer to indicate if the item being weighed is overweight or underweight. The pointer is protected by a clear plastic cover.

Difference Between Models:
Original design.

Tabulated Data:
APE No. ..................... 21050000
Unit of Issue ................. Each
Installation Data:
Length ...................... 24-1/2 in.

Utilities Required:
110 vac, single phase, 60 Hz.

Production Capacity:
Not applicable.

Shipping Data:
Length ...................... 30 in.
Width ......................... 18 in.
Height ....................... 21 in.
Cube ......................... 6.3 cu ft
Weight ....................... 118 lb

Associated Equipment:
None.

Kits:
None.
Use:
The over-under scale is used to weigh propellant powder and other small items weighing up to 22 pounds.

Description:
APE 2106 is a bench style with a commodity platter. It has a moving pointer to indicate if the item being weighed is overweight or underweight. The pointer is protected by a clear plastic cover.

Difference Between Models:
Original design.

Tabulated Data:
APE No ............... 21060000
Unit of Issue ............ Each

Installation Data:
Length ............... 25-1/2 in.

Width ............... 14-1/2 in.
Height ............... 17 in.
Weight ............... Not available

Utilities Required:
110 vac, single phase, 60 Hz.

Production Capacity:
Not applicable.

Shipping Data:
Length ............... Not available
Width ............... Not available
Height ............... Not available
Cube ............... Not available
Weight ............... Not available

Associated Equipment:
None.

Kits:
None.
APE 2107-TOOL, FUZEWELL LINER EXPANSION

Use:
The expansion tool is used to secure fuzewell liners in artillery projectiles. The tool may be used for direct operation or remote control operation.

Description:
APE 2107 consists of a modified air brake chamber with controls for either direct or remote control operation. The tool has a rubber expansion ring positioned between metal guides. A filter regulator assembly is included with the tool.

Difference Between Models:
Original design.

Tabulated Data:
APE No. ............... 21070000
Unit of Issue ......... Each

Installation Data:
Length ............... 9 in.
Width ............... 8 in.
Height ............... 10 in.
Weight ............... 8-1/2 lbs
Utilities Required:
Air at 60 psi.
Production Capacity:
Not applicable.

Shipping Data:
Length ............... 14 in.
Width ............... 10 in.
Height ............... 8 in.
Cube .................... 0.65 cu ft
Weight ............... 21 lbs

Associated Equipment:
None.

Kits:
2107E001 KIT, Remote Control
APE 2126-MACHINE, CALIBER .50 DECORING

Use:
The decoring machine is used to cut the metal jackets on caliber .50 bullets for separation of metal jackets, lead tips, and steel cores for salvage operations.

Description:
APE 2126 consists of a metal frame with decoring head, discharge chute, shuttle assembly, and bullet feed tube. An electric motor is mounted on the frame. Moving parts are shielded by a metal guard.

Difference Between Models:
Original design.

Tabulated Data:
APE No 21260000
Unit of Issue Each
Installation Data:
Length 32 in.
Width 34 in.
Height 55 in.
Weight 587 lbs

Utilities Required:
220/440 vac, 3 phase, 60 Hz.

Production Capacity:
HAND FEED:
Tracer 48 per min
Armor-piercing or bal 73 per min
Incendiary 62 per min

AUTOMATIC FEED
Armor-piercing or bal 125 per min
Incendiary 100 per min

Shipping Data:
Length 34 in.
Width 42 in.
Height 58 in.
Cube 48 cu ft
Weight 887 lbs

Associated Equipment:
APE 2015M1.

Kits:
None.

2-258 (Change 1)
Use
The disassembly-assembly wrench is used to disassemble, assemble and torque 81MM mortar fins to projectiles.

Description:
The wrench is constructed of steel and has slots with rubber safety strips which accommodate the different mortar fin configurations. It has a 1/2 inch square drive for use with a socket wrench.

Difference Between Models:
Rubber safety strips were added to prevent contact with primers.

Tabulated Data:
APE No: 2128M1
Unit of issue: Each

Installation Data
Length: 4-1/2 in.
Width: 2-1/2 in.
Height: 2-1/2 in.
Weight: 1 lbs.

Utilities Required:
None

Production Capacity:
Not applicable.

Shipping Data
Length: 6 in.
Width: 6 in.
Height: 6 in.
Cube: 0.2 cu. ft.
Weight: 3 lbs.

Associated Equipment:
None

Kits:
None
APE 2130M1-ROTATOR, POWERED, COMPLETE ROUND, 75MM THRU 90MM

Use:
The complete round rotator is used to rotate and shield projectiles, 75Mm through 90MM cartridges during painting operations. Additional accessory kits provide the capability to adapt the machine for use with 76MM/62 Navy cartridges and 3"/50 Navy cartridges.

Description:
APE 2130M1 consists of a metal frame, an air drive motor, a drive shaft with drive wheels, an idler shaft with idler wheels, and a shield assembly.

Difference Between Models:
The APE 2130M1 added a static electricity eliminating brush to the original model design.

The APE 2130M2 is adaptable for use with the accessory kits APE 2130E004, rotator, powered, complete round, 76MM Navy and APE 2130E005, rotator, powered, complete round, 3"/50. The APE 2130M1 does not have these capabilities.
Tabulated Data:
APE No. ............... 21300000M2
Unit of Issue .......... Each

Installation Data:
Length ............ 47-7/8 in.
Width .............. 15-1/4 in.
Height ............. 15-1/2 in.
Weight ............. 55 lbs

Utilities Required:
Air at 80 psi and 11 cfm.

Production Capacity:
Not applicable.

Shipping Data:
Length ............... 43 in.

Width ................. 18 in.
Height .................. 22 in.
Cube .................... 10 cu ft
Weight ................ 155 lbs

Associated Equipment:
None.

Kits:
2130E001 KIT, 90MM Shield
2130E002 KIT, 75MM or 76MM Shield
2130E003 KIT, Foot Valve
2130E004 KIT, Rotator, Powered, Complete Round, 76MM Navy
2130E005 KIT, Rotator, Powered, 3"/50
Use:
The ultrasonic inspection equipment is used to search for flaws in the nose, forward bourrelet, rear bourrelet and base of the following projectiles:

105MM: M1 Cartridge
155MM: M107 Projectile
175MM: M437 Projectile
8 Inch: M106 Projectile

The projectile is then rotated about its axis, as five ultrasonic transducers focused at a determined location search for flaws. The transducers are connected to five portable ultrasonic flaw detector units mounted in the tester cabinet. When flaws are detected an alarm light and alarm horn is actuated.

Description:
APE 2132 accepts one projectile at a time placed horizontally on the elevator assembly and lowered into the immersion tank.

The principal assemblies which make up the ultrasonic inspection equipment are described below.
a. The frame assembly houses the projectile immersion tank and provides structural support for the components that make up the ultrasonic inspection equipment.

b. The tester cabinet and mounting assembly provides a housing for the portable ultrasonic flaw detector units and a shelf for mounting the alarm box assembly. The cabinet and mounting assembly are positioned above the machine which allows viewing the flaw detector units and alarm box during machine setup and operation.

c. The projectile elevator assembly takes one projectile at a time and lowers it into position for the screening operation in the projectile immersion tank.

d. The electrical assembly and the pneumatic assembly provide power to operate the machine.

e. One ultrasonic test standard assembly for each projectile. The machine is designed to inspect; A008 for 105MM:M1, A009 for 175MM:M437, A010 for 8 Inch:M106, and A011 for 155MM:M107.

Difference Between Models:
Original design.

Tabulated Data:
APE No. ......................... 21320000
Unit of Issue .................. Each

Installation Data:
Length ...................... 63 in.
Width ....................... 80 in.
Height ...................... 102 in.
Weight ...................... 2000 lbs
Floor Space ................ 33.69 sq ft

Utilities Required:
Electrical ................... 208-240 vac, 120 vac, 60 Hz @ 35 amps maximum
Air ......................... 1 cfm at 85 psi
Couplant .................. Distilled water mixed with Immunol #1228-2 water conditioner

Projectile Immersion Tank Capacity ... 187 gal
Immunol .................. Grade 1228-2
Pump Motor ............ 1/4 HP
Capacity ..................... 5.8 gallons per minute at 10 foot head

Production Capacity:
Not applicable.

Shipping Data:
Length ...................... 87 in.
Width ....................... 67 in.
Height ...................... 64 in.
Cube ......................... 226 cu ft
Weight ...................... 3540 lbs

Associated Equipment:
None.

Kits:
None.
APEC 2134—PACKER, BOX, LINKED 7.62MM CARTRIDGES

Use:
The box packer is used to assist in packing two 750 round belts of 7.62MM cartridges into cardboard packing sleeves and placing them into an M548 container.

Description:
APE 2134 consists of a metal table with powered roller feed for ammunition belts, a spacer dispenser, a tray positioned at a 50 degree angle on which to pack the packaging sleeve, and a rack to hold and position the M548 container for filling.

Difference Between Models:
Original design.

Tabulated Data:
APE No .................. 21340000
Unit of Issue .............. Each

Installation Data:
Length ...................... 24 in.

Width ...................... 51-1/2 in.
Height ...................... 45-5/8 in.
Weight ...................... 300 lbs

Utilities Required:
115 vac, single phase, 60 Hz; air at 60 to 100 psi.

Production Capacity:
Production is dependent on operator skill.

Shipping Data:
Length ...................... 60 in.
Width ...................... 43 in.
Height ...................... 54 in.
Cube ...................... 81 cu ft
Weight ...................... 520 lbs

Associated Equipment:
None.

Kits:
None.
Use:
The debander-rebander is used to remove the old plastic obturating band, replace it with a new band, and heat seal it in place.

Description:
APE 2136 consists of four separate stations. The first is a debanding station which consists of a table with a band cutter attached. The second station is a table to hold the projectiles until the third station is ready for them. The third station is a heat seal press. The fourth station is a test station with a test unit for testing the strength of the obturating band.

Difference Between Models:
Original design.

Tabulated Data:
APE No. ................ 21360000
Unit of Issue ................ Each
Installation Data:

DEBANDING STATION:
- Length: 14-1/2 in.
- Width: 26 in.
- Height: 55 in.
- Weight: Not available

SURGE STATION:
- Length: 14-1/2 in.
- Width: 26 in.
- Height: 35 in.
- Weight: Not available

HEAT SEAL AND PRESS:
- Length: 32 in.
- Width: 36 in.
- Height: 68 in.
- Weight: 500 lbs

TENSION TEST STATION:
- Length: 14-1/2 in.
- Width: 26 in.
- Height: 39-1/2 in.
- Weight: 85 lbs

Utilities Required:
- 110 vac, single phase, 60 Hz.

Production Capacity:
- 300 rounds per hour.

Shipping Data:
- Length: 60 in.
- Width: 53 in.
- Height: 79 in.
- Cube: 145 cu ft
- Weight: 1700 lbs

Associated Equipment:
- None.

Kits:
- None.
Use:
The windshield remover is used to remove the windshield or ogive from M90A1 fuzes.

Description:
APE 2139 has a flat metal base with two air brake cylinders mounted on top and a holding fixture to secure the fuze. A shield is fastened to the base.

Difference Between Models:
Original design.

Tabulated Data:
APE No. .......... 21390000
Unit of Issue .... Each
Installation Data:
  Length ............ 37 in.
  Width ............. 13 in.
Weight ............. 17 in.
Weight ............. 75 lbs
Utilities Required:
  Air at 90 psi and 80 cfm.
Production Capacity:
  Not applicable.

Shipping Data:
  Length ............ 42 in.
  Width ............. 18 in.
  Height ............ 24 in.
  Cube .............. 10.5 cu ft
  Weight ............ 125 lbs

Associated Equipment:
None.

Kits:
None.
Use:
The 20MM link-delink machine is used to link or delink 20MM cartridges with M12, M14, or M17 links. It can remove cartridges from one type of link and place them in another link in one operation.

Description:
APE 2140 is a self-contained, bench mounted, motor driver unit which mechanically links 20MM cartridges into a continuous flexible ammunition belt.

Difference Between Models:
Original design.

Tabulated Data:
APE No. .......... 21400000
Unit of Issue .......... Each

Installation Data:
Length .............. 24 in.
Height .............. 15 in.
Weight ............. 233 lbs

Utilities Required:
115 vac, single phase, 60 Hz.

Production Capacity:
72 cartridges per minute.

Shipping Data:
Length .............. 48 in.
Width .............. 24 in.
Height .............. 24 in.
Cube .................. 16 cu ft
Weight ............. 400 lbs

Associated Equipment:
None.

Kits:
None.
Use:
The lifting and positioning device is used to lift and position heavy objects such as artillery projectiles and bombs. The lifting capacity of the device is 400 pounds. The device when used with kit, projectile manipulator, APE 2146E001, is limited to 230 pounds.

Description:
APE 2146 consists of a base on wheels, a center column, a counterweighted lift arm, and a pneumatic circuit.

Difference Between Models:
Original design.

Tabulated Data:
APE No. ................. 21460000
Unit of Issue ............. Each
Installation Data:
- Length .................. 108 in.
- Width .................... 72 in.
- Height ................... 153 in.
- Weight ................... Not available
Utilities Required:
- Air at 100 psi.
Production Capacity:
- Not applicable.
Shipping Data:
Length .................. 81.5 in.
Width .................... 67 in.
Height .................... 37 in.
Cube ...................... 178.0 cu ft
Weight ................... 2053 lbs

Associated Equipment:
APE 1022M1, 1044M1.

Kits:
2146E001 KIT, Projectile Manipulator
(155MM, 175MM, 8 Inch Army, 5
Inch Navy, 6 Inch Navy and 8
Inch Navy).

NOTE
Maximum lifting capacity is
230 pounds.
Use:
The linker-delinker is used to link or de-link 20MM cartridges with M3, M8E1, M10, or M24 links.

Description:
APE 2147 consists of a cast frame, an electric motor, a drive assembly, and the linking or delinking kit applicable to the links and cartridges being linked or delinked.

Difference Between Models:
Original design.

Tabulated Data:
APE No. ............ 21470000
Unit of Issue ........ Each
Installation Data:
   Length ............ 54 in.
   Width ............ 48 in.
   Height ............ 34 in.
   Weight ............ 442 lbs

Utilities Required:
110 vac, single phase, 60 Hz, 5.1 amp.
Production Capacity:
   Linking--150 cartridges per minute;
   Delinking--250 cartridges per minute.

Shipping Data:
   Length ............ 68 in.
   Width ............ 29-1/2 in.
   Height ............ 26 in.
   Cube ............ 30.2 cu ft
   Weight ............ Not available

Associated Equipment:
None.

Kits:
2147E001 KIT, Linking, M3, M8E1 and M10 Link
2147E002 KIT, Delinking, M3, M8E1 and M10 Link
2147E003 KIT, Linking, M24 Link
2147E004 KIT, Delinking, M24 Link
Use:
The crimping machine is used to crimp 105MM projectiles to 105MM cartridge cases, M392 series.

Description:
APE 2148M1 consists of a crimping die assembled to a 60 ton hydraulic press. Pressure is supplied by an electrically operated hydraulic pumping unit.

Difference Between Models:
The APE 2148M1 has been modified to crimp 105MM, M392 cartridge and the original design APE 2148 was designed to crimp 40MM ammunition.

Tabulated Data:
APE No . . . . . . . . 21480000M1
Unit of Issue . . . . Each
Installation Data:
PRESS:
  Length . . . . . . . . 73 in.
  Width . . . . . . . . . 25 in.
  Height . . . . . . . . . 44 in.
  Weight . . . . . . . . . 2242 lbs
PUMP:
  Length . . . . . . . . . 48 in.
  Width . . . . . . . . . . 54 in.
  Height . . . . . . . . . . 56 in.
  Weight . . . . . . . . . . 1596 lbs
Utilities Required:
220/440 Vac, 60 Hz, 3 phase, 51/25.5 amps.

Production Capacity:
Not available

Shipping Data:
PRESS:
Length ................. 83 in.
Width ................. 45 in.
Height ................. 60 in.
Cube ................... 130 cu ft
Weight ................ 3162 lbs

PUMP:
Length ................. 61 in.
Width ................. 59 in.
Height ................. 70 in.
Cube ................... 146 cu ft
Weight ................ 2352 lbs

Associated Equipment:
None.

Kits:
None.
Use:
The rotating device is used to rotate projectiles at 40 to 125 rpm. It can also be used to hold projectiles stationary when the brake is used. The device accommodates loaded 90MM through 9-inch projectiles.

Description:
APE 2150 consists of a metal stand, a frame assembly containing the rotator, a brake assembly and a control panel.

Difference Between Models:
Original design.

Tabulated Data:
APE No. 21500000
Unit of Issue Each
Installation Data:
Length 45 in.
Width 24 in.

Height 60 in.
Weight 436 lbs

Utilities Required:
Air at 90 psi.

Production Capacity:
Depends on operation being performed.

Shipping Data:
Length 51 in.
Width 27 in.
Height 66 in.
Cube 53 cu ft
Weight 526 lbs

Associated Equipment:
None.

Kits:
None.
Use:
The primer remover and inserter machine was developed to back out screw type primers from artillery cartridge cases; to insert threaded primers into cartridge cases; and to torque the primer on a complete round.

Description:
APE 2151 consists of an operational shield, an air motor and remote controls to operate the machine.

Difference Between Models:
Original design.

Tabulated Data:
APE No. ................. 21510000
Unit of Issue ............ Each
Installation Data:
  Length .................. 22 in.
  Width ................... 34 in.
  Height .................. 72 in.
  Weight .................. 400 lbs
Utilities Required:
  Air, 25 cfm at 80 psi.
Production Capacity:
  Partial unthreaded-clean and insert 840 per 8 hour shift; insert primer only--2600 per 8 hour shift.
Shipping Data:
Length ............... 24 in.
Width .................. 36 in.
Height ................. 84 in.
Cube .................. 42 cu ft
Weight ............... 500 lbs

Associated Equipment:
None.

Kits:
2151E001 KIT, Insert M58 Primer into 76MM Cartridge Case
2151E002 KIT, Insert M58 Primer into 75MM M35 and M35A1 Cartridge Case
2151E003 KIT, Insert M78 and M92 Primers into 90M M371 Cartridge Case
2151E004 KIT, Insert or Remove M80 and M86 Primers on 105MM M115 and M150 Cartridge Cases
2151E005 KIT, Insert or Remove M83 Primer on 105M M148 Cartridge Case
2151E006 KIT, Insert M58 Primer into 90MM M108 and M108Bi Cartridge Case
2151E007 KIT, Insert or Remove M63 Primer on 105MM M341 Cartridge Case
Use:
The cutter is used to cut the plastic centering band from M392A2 (L 36A1) 105MM APDS-T projectiles.

Description:
APE 2153 consists of an aluminum frame, a projectile carriage, and a pneumatically operated cutter.

Difference Between Models:
Original design.

Tabulated Data:
APE No. . . . . . . . . . . . . 21530000
Unit of Issue . . . . . . . . . Each

Installation Data:
Length . . . . . . . . . . . . 14-3/8 in.
Width . . . . . . . . . . . . 9-3/4 in.

Utilities Required:
Air at 90 psi.
Production Capacity:
150 bands per hour.

Shipping Data:
Length . . . . . . . . . . . . 40 in.
Width . . . . . . . . . . . . 18 in.
Height . . . . . . . . . . . . 16 in.
Cube . . . . . . . . . . . . . 6-2/3 cu ft
Weight . . . . . . . . . . . . 92 lbs

Associated Equipment:
None.

Kits:
2153E001 ADAPTER, Complete Cartridge
Use:
The rack is used to move 105MM projectiles (APFS-T only) from one operation to the next in a maintenance line and to hold projectiles during a cooling cycle.

Description:
APE 2154 is constructed of plywood and hardboard. It holds 30 projectiles. It mounts on the frame of the APE 1176 ammunition cart.

Difference Between Models:
Original design.

Tabulated Data:
APE No. ................. 21540000
Unit of Issue ............. Each

Installation Data:
Length .................... 33-3/4 in.

Utilities Required:
None.
Production Capacity:
Not applicable.

Weight ................. 42 lbs

Shipping Data:
Length .................... 36 in.
Width .................... 32 in.
Height .................... 8 in.
Cube ..................... 5.3 cu ft
Weight .................... 75 lbs

Associated Equipment:
APE 1176 (only).

Kits:
None.
Use:
The centering band turning machine is used to turn the plastic centering band on M392 series, 105MM APDS-T projectiles. Centering bands can be turned on complete rounds or on projectiles separated from cartridge cases.

Description:
APE 2155M1 consists of a welded metal frame, a turning assembly powered by an air motor, a jaw assembly, a projectile height adjusting assembly, and a pneumatic control assembly.
Difference Between Models:
The original APE 2155 was a standard horizontal lathe with electronic controls and special soft jaws on the chuck.

APE 2155M1 is a vertical model with air control.

Tabulated Data:
APE No. ................. 21550000M1
Unit of Issue ............ Each

Installation Data:
- Length ................... 38 in.
- Width ..................... 48 in.
- Height ..................... 102 in.
- Weight .................... 2725 lbs

Utilities Required:
- Air at 90 psi and 75 cfm.

Production Capacity:
- 120 per hour.

Shipping Data:
- Length ..................... 110 in.
- Width ....................... 50 in.
- Height ...................... 64-1/2 in.
- Cube ......................... 205 cu ft
- Weight ..................... 3575 lbs

Associated Equipment:
None.

Kits:
- 2155E001 KIT, Centering Band Diameter Check
- 2155E002 KIT, Projectile Support
- 2155E003 KIT, Machine Setup
Use:
The hand grenade defuzing machine is used to remove grenade fuzes at a high production rate. The actual defuzing operation is accomplished within the operational shield.

Description:
APE 2156 is pneumatically driven and controlled. It consists of a protective barricade, a defuzing mechanism, a grenade transfer system, and a control and drive system. The grenades to be defuzed are manually loaded onto the transport belt on one side of the machine. They are then mechanically transported into the barricade, thru the defuzing mechanism, and out on the opposite side of tile barricade.

Difference Between Models:
Original design.

Tabulated Data:
- APE No. ................. 21560000
- Unit of Issue ............ Each
- Installation Data:
  - Length ................... 52 in.
  - Width .................... 68 in.
  - Height (less stack) .... 63 in.
  - Weight .................. 4400 lbs
Utilities Required:
Air at 80 psi, 40 cfm.
Production Capacity:
500 grenades per hour.

Shipping Data:
MACHINE:
- Length .................. 60 in.
- Width .................. 82 in.
- Height .................. 72 in.
- Cube .................. 205 cu ft
- Weight .................. 5300 lbs

STACK:
- Length .................. 54 in.
- Width .................. 35 in.
- Height .................. 35 in.
- Cube .................. 38.3 cu ft
- Weight .................. 400 lbs

Associated Equipment:
APE 1213M1 required for fragmentation grenades only.

Kits:
- 2156E001 KIT, Remove M213 Delay Fuzes from M33 and M67 Hand Grenades
- 2156E002 Device, Access Door Lifting
- 2156E003 KIT, Remove Fuzes from M15 Smoke Grenades
- 2156E004 KIT, Remove Fuzes from M34 Smoke Grenades
Use:
The fixture is used to expand liners against the periphery of cartridge cases.

Description:
APE 2157 consists of a rubber bladder with end caps, a central perforated tube, an air regulator and a foot valve.

Difference Between Models:
Original design.

Tabulated Data:
APE No. ............... 21570000
Unit of Issue .......... Each
Installation Data:
  Length .............. 2-3/4 in.
  Width .............. 2-3/4 in.
  Height ............ 24 in.

Associated Equipment:
None.

Kits:
None.
APE 2158-FIXTURE, PROJECTILE TURNING

Use:
The projectile turning fixture is used to support projectiles while the markings are being removed. It is designed for use on projectiles, 105MM, APDS-T, M392A2 (L36).

Description:
APE 2158 consists of a metal base, four modified casters, and a stop for the projectiles.

Difference Between Models:
Original design.

Tabulated Data:
APE No . . . . . . . . . . . . . . . 21580000  
Unit of Issue . . . . . . . . . . . . Each

Installation Data:
Length . . . . . . . . . . . . . . 16 in.  
Width . . . . . . . . . . . . . . 6-1/2 in.  
Height . . . . . . . . . . . . . . 5-3/4 in.  
Weight . . . . . . . . . . . . . . 8 lbs  
Utilities Required:  
None.
Production Capacity:  
Not applicable.

Shipping Data:
Length . . . . . . . . . . . . . . 18 in.  
Width . . . . . . . . . . . . . . 9 in.  
Height . . . . . . . . . . . . . . 9 in.  
Cube . . . . . . . . . . . . . . 85 cu ft  
Weight . . . . . . . . . . . . . . 12 lbs

Associated Equipment:
None.

Kits:
None.
Use:
The fixture is used to ascertain if there is enough space for insertion of a projectile between the mouth of the cartridge case and the top of the propellant charge in the cartridge case for the 105MM, APDS-T, M392A2. (L36).

Description:
The fixture is a piece of round aluminum bar machined to fit inside a 105MM cartridge case mouth. Stops are provided to tell the operator when the gap is sufficient. A handle is machined on the upper end of the fixture. A grounding clamp is assembled to the fixture.

Difference Between Models:
Original Design

Tabulated Data:
APE No. ....................... 21590000
Unit of issue .................... Each
APE 2160-PRESS, AMMUNITION COMPONENT

Use:
The ammunition component press is used to insert the base plug into a 105MM, APDS-T M392A2 projectile and to press and stake pins in the 8 inch M404 projectile.

Description:
APE 2160 is a modified pneumatic arbor press. Features include two hand, anti-tie down controls and guards over the moving parts of the press. Two accessories are required with this press.

Difference Between Models:
Original design.

Utilities Required:
- Air at 90 psi and 10 cfm.
- Production Capacity: 250 projectiles per hour (2 operators).

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Shipping Data:
- Length | 55-1/2 in. |
- Width | 37-1/2 in. |
- Height | 93 in. |
- Cube | 112 cu ft |
- Weight | 2250 lbs |

Associated Equipment:
None.

Kits:
- 2160E001 TABLE, Ammunition Component Indexing
- 2160E002 KIT, Base Plug Insertion, 105MM APDS-T M392A2 Projectile
- 2160E003 KIT, Projectile Pinning and Swaging
APE 2161-EQUIPMENT, TRACER REMOVAL AND REPLACEMENT, 105MM, APDS-T, M392A2 PROJECTILES

Use:
The tracer removal and replacement equipment is used to remove and replace M13 tracer in 105MM, APDS-T, M392A2 projectiles.

Description:
The equipment consists of one plug wrench assembly (0.605 inch to 0.610 inch), one plug wrench assembly (0.623 inch to 0.627 inch), 25 heat shields, one plug extractor, and one pair of lock ring pliers. The user will fabricate a tracer igniting tool, a non-sparking pick to remove closing disc from plug, and a table or holder to hold 25 M392A2 projectiles during tracer burnout.

Difference Between Models:
Original design.

Tabulated Data:
APE No. .......................... 21610000
Unit of issue ................. Each

Installation Data:
Length: ...................... Not applicable
Width: ...................... Not applicable
Height: ...................... Not applicable
Weight: ...................... 9 lbs.

Utilities required:
None.

Production capacity:
Not applicable.

Shipping Data:
Length: ...................... 20-1/2 in.
Width: ...................... 7-3/4 in
Height: ...................... 2-1/2 in
Cube: ...................... 1 cu. ft.
Weight: ...................... 12 lbs.

Associated Equipment:
None

Kits:
None
Use:
The rotating band replacement equipment is used to provide the necessary apparatus to remove and replace the fiber rotating band on the 105MM, APDS-T, M392A2.

Description:
APE 2162 is made up of nine units: a table mounted vise, a rotating band spreader tool, a rotating band facing lathe tooling, rotating band, slot cutting fixture, a milling machine, a base plate torque fixture, a base plate loosening fixture, a bench mounted disassemble/assembly projectile fixture, and a sub-projectile clearance check fixture.
Difference Between Models:
Original design.

Tabulated Data:
APE No. .......................... 21620000
Unit of Issue ........................ Each

Installation Data:
VISE:
  Length .......................... 32 in.
  Width .......................... 26 in.
  Height .......................... 40 in.
  Weight .......................... 500 lbs
SPREADER:
  Length .......................... 28 in.
  Width .......................... 28 in.
  Height .......................... 33 in.
  Weight .......................... 200 lbs
LATHE:
  Length .......................... 74 in.
  Width .......................... 36 in.
  Height .......................... 54 in.
  Weight (tooling only) ............ 26 lbs
CUTTING FIXTURE:
  Length .......................... 9 in.
  Width .......................... 13 in.
  Height .......................... 12 in.
  Weight .......................... 35 lbs
MILLING MACHINE:
  Length .......................... 9 ft
  Width .......................... 6 ft
  Height .......................... 8 ft
  Weight .......................... 8500 lbs
TORQUE FIXTURE:
  Length .......................... 38 in.
  Width .......................... 5 in.
  Height .......................... 4 in.
  Weight .......................... 5 lbs
LOOSENING FIXTURE:
  Length .......................... 35 in.
  Width .......................... 5 in.

Utilities Required:
  Vise - air at 100 psi;
  Spreader - air at 100 psi;
  Lathe - 220/440 vac, 60 Hz, 3 phase, 15 hp;
  Milling Machine - 220/440 vac, 60 Hz, 3 phase, 60 cycle;
  Motor sizes - 7.5 hp, 1 hp, .75 hp, .25 hp.

Production Capacity:
  600 per 8 hour shift.

Shipping Data:
  Length .......................... Not available
  Width .......................... Not available
  Height .......................... Not available
  Cube .......................... Not available
  Weight .......................... Not available

Associated Equipment:
APE 2155M1.

Kits:
None.
Use:
The Subprojectile ultrasonic inspection equipment is used for ultrasonic non-destructive testing by either direct contact or immersion techniques. It can be used for single or dual transducer testing.

Description:
APE 2163 consists of a portable ultrasonic flow detector, a battery box, twelve batteries, a test block and a manual for the ultrasonic flow detector.

Difference Between Models:
Original design.

Tabulated Data:
APE No. ..................... 21630000
Unit of Issue ................. Each
Installation Data:
  Length ....................... 14 in.
  Width ....................... 14 in.
  Height ...................... 8 in.
  Weight ..................... 16-1/4 lbs
Utilities Required:
18 vdc.
Production Capacity:
Not applicable.
Shipping Data:
Length ....................... 16 in.
Width ....................... 18 in.
Height ....................... 10 in.
Cube ......................... 1.7 cu ft
Weight ....................... 21 lbs

Associated Equipment:
None.

Kits:
2163E001 KIT, Transducer (cylindrical focus)
2163E002 KIT, Transducer (spherical focus)
2163E003 KIT, Waterproof cable
2163E004 KIT, 105MM APDS-T Subprojectile Handling Equipment
2163E005 KIT, Battery Charger
2163E006 KIT, Alarm Light
2163E007 KIT, Alignment Projectile
Use:
The projectile fuzewell rethread fixturing is used to ream and rethread the fuzewell of the 105MM, M84B1 smoke projectile.

Description:
APE 2165 consists of a vertical lathe, a chuck assembly, two projectile locator stop assemblies, a reamer assembly, a tapping assembly and a sling assembly.

Difference Between Models:
Original design.

Tabulated Data:
APE No. . . . . . . . . . . . . . 21650000
Unit of Issue . . . . . . . . . . Each
Installation Data:
  Length . . . . . . . . . . . . 121 in.
  Width . . . . . . . . . . . . 111 in.
  Height . . . . . . . . . . . . 151 in.
  Weight . . . . . . . . . . . . 36629 lbs
Utilities Required:
220/440 vac, 3 phase, 60 Hz (for 50 hp motor); motor amp draw – 125 amps at 220 vac; 65 amps at 440 vac. Branch circuit protector – 350 amps at 220 vac, 175 amps at 440 vac.
Production Capacity:
Not applicable.

Shipping Data:
BASIC MACHINE:
Length .................. 114 in. dia
Width ..................... 114 in. dia
Height (motor and gear box removed) ... 128 in.
Cube ....................... 756 cu ft
Weight .................... 32796 lbs

CHAIN SLING:
Length .................... 33 in.
Width ...................... 32 in.
Height ..................... 14 in.
Cube ....................... 85 cu ft
Weight .................... 314 lbs

CHAIN SLING:
Length .................... 102 in.

MOTOR:
Length .................... 50 in.
Width ...................... 33 in.
Height ..................... 32 in.
Cube ....................... 30.5 cu ft
Weight .................... 1337 lbs

COOLANT TANK, ELECTRICAL BOX, FILTER, ETC:
Length .................... 72 in.
Width ...................... 51 in.
Height ..................... 48 in.
Cube ....................... 102 cu ft
Weight .................... 620 lbs

Associated Equipment:
APE 2166.

Kits:
None.
Use:
The projectile fuzewell blanking fixture is used to remove the bottom of the fuzewell cavity of the 105MM M84B1 smoke projectile.

Description:
APE 2166 consists of a 100 ton hydraulic press, two die assemblies, a punch assembly, two blanking trays, a table cover, and a guard assembly.

Difference Between Models:
Original design.

Tabulated Data:
APE No. 21660000
Unit of Issue Each
Installation Data:
- Length: 103 in.
- Width: 40 in.
- Height: 155 in.
- Weight: 29425 lbs

Utilities Required:

Production Capacity:
- 3 projectiles/minute maximum.

Shipping Data:
- BASIC PRESS:
  - Length: 15 ft

- BOX OF FIXTURES:
  - Length: 5 ft
  - Width: 9 ft 1 in.
  - Height: 39 in.
  - Cube: 681 cu ft
  - Weight: 28600 lbs

Associated Equipment:
- None.

Kits:
- None.
Use:
The projectile lift device is used to raise and lower heavy projectiles, 155MM through 8-inch, to and from an overhead monorail conveyor.

Description:
APE 2168 consists of a table with a pneumatic operated lift that is actuated by a foot valve. The user must attach 6-inch to 9-inch long chain and hook assemblies to the APE 1044M1 monorail j-hooks when using this device.

Difference Between Models:
Original design.
Tabulated Data:
APE No. .................. 21680000
Unit of Issue ............ Each

Installation Data:
  Length .................... 36 in.
  Width ...................... 24 in.
  Height .................... 34 in.
  Weight .................... 627 lbs

Utilities Required:
  Air at 80 to 100 psi.

Production Capacity:
  Not applicable.

Shipping Data:
  Length .................... 45 in.
  Width ...................... 32 in.
  Height .................... 46 in.
  Cube ...................... 53 cu ft
  Weight .................... 770 lbs

Associated Equipment:
  APE 1044M1.

Kits:
  None.
Use:
The windshield cap removal machine is used to perform two operations on two 152MM projectiles or cartridges at the same time. The machine removes the windshield cap and power supply from a projectile or cartridge and another projectile or cartridge that has gone through the removal operation has a continuity test performed on it. The two operations are controlled independently at a control console located in a remote site.

Description:
APE 2169 consists of a removal machine and a control console. The removal machine frame houses the clamp assembly, the rotary shaft support assembly assembly, the nose cap removal assembly, and the pneumatic assembly. The clamp assembly has two V-Blocks and is rotated 180 degrees to accomplish the removal and continuity test operations. The control console houses the pneumatic controls for the removal operation and the milliohmeter for the continuity test.

Difference Between Models:
Original design.
Tabulated Data:
APE No. .......................... 21690000
Unit of Issue ....................... Each

Installation Data:
REMOVAL MACHINE:
  Length ......................... 92 in.
  Width .......................... 36 in.
  Height .......................... 56 in.
  Weight .......................... 1605 lbs
CONTROL CONSOLE:
  Length .......................... 28 in.
  Width .......................... 24 in.
  Height .......................... 2 in.
  Weight .......................... 108 lbs
Utilities Required:
Air at 85 psi and 60 cfm.
Production Capacity:
1 projectile per minute.

Shipping Data:
Length ................................ Not available
Width .................................. Not available
Height .................................. Not available
Cube ................................... Not available
Weight .................................. Not available

Associated Equipment:
None.

Kits:
2169E001 KIT, Base Plug and Fuze Lock Cup Removal
APE 217M1—CARTRIDGE CASE CUTOFF MACHINE

Use:
The cartridge case cutoff machine is designed to cut combustible cartridge cases to separate them from 152MM M409 and M411 series cartridges with straight or bulbous cases. It will accommodate 152MM M409 series cartridges with the windshield cap removed or installed, and M411 series with the windshield installed.

Description:
The machine is pneumatic and hydraulic operated. Projectiles are loaded into the machine on the cartridge loading tray. The projectile is positioned into the spindle and clamped, the cutoff operation is performed and the projectile and cartridge case removed.

Difference Between Models:
The APE 2170M1 is an improved version of the APE 2170, featuring extensive operational and design improvements.

Tabulated Data:

APE No. . . . . . . . . . . 21700000M1
Unit of issue: . . . . . . . Each

Installation Data:
Length: . . . . . . . . . . 56-3/4 in.
Width: . . . . . . . . . . . . 88-5/8 in.
Height: . . . . . . . . . . . 51-13/16 in.
Weight: . . . . . . . . . . 3710 pounds uncrated

Utilities Required:
Pneumatic:
100 PSI at 20 SCFM

Production Capacity:
Approximately 30 cartridges/hour
Shipping Data:
- Length: 101 in
- Width: 60 in
- Height: 64 in
- Cube: 250 cu/ft
- Weight: 4680 pounds

Associated Equipment:
None

Kits:
- 2170E001 Kit, 120MM Combustible Cartridge Case Cutoff Equipment
- 2170E002 Kit, 152MM M657 HE-T Combustible Cartridge Case Cutoff Equipment
- 2170E003 Kit, Interlock Actuator for 120MM M829 Cartridge
- 2170E004 Kit, Interlock Actuator for 120MM M829A1 Cartridge
- 2170E005 Kit, Interlock Actuator for 120MM M830 and M831 Cartridge
- 2170E007 Kit, Interlock Actuator for 120MM M865 Cartridge
Use:
The projectile base torque fixture is used to apply a specified assembly torque to the base plug on an 8-inch HE M404 projectile.

Description:
APE 2171 consists of a fixture that holds the projectile securely in a base-up position, a pin-wrench adapter assembly, and a manually operated torquing assembly.

Difference Between Models:
Original design.
Tabulated Data:
APE No. ............... 21710000
Unit Of Issue ........... Each

Installation Data:
Length .................... 46-1/2 in.
Width ..................... 37 in.
Height ..................... 54 in.
Weight .................... 655 lbs

Utilities Required:
None.

Production Capacity:
Depends on operator skill.

Shipping Data:
Length .................... 43 in.
Width ..................... 38 in.
Height ..................... 56 in.
Cube ....................... 53 cu ft
Weight .................... 770 lbs

Associated Equipment:
None.

Kits:
None.
Use:
The holding fixture is used to restrain the safety lever of the M213 grenade fuze during replacement of the grenades safety pin and ring. A modified pair of pliers is included and is used to impart a diamond crimp in the replacement safety pin. A clear plexiglass shield is additionally furnished for placement between the operator and the fixture. With the exception of the crimping pliers, all components are designed to be mounted to a work table furnished by the user.

Description:
APE 2172 is constructed primarily of low carbon steel while the shield is constructed of clear plexiglass. The assembly consists of a pedestal located in the center of the fixture that is threaded to accommodate the fuze threads of the M213 fuze. The recessed area of the pedestal accommodates and holds the grenade safety lever while the safety pin is being replaced. The blast deflection tube is constructed of 3” pipe with a baffled opening to direct the blast and fuze fragments away from the operator should it be inadvertently initiated. The crimping pliers are a standard 8 inch pair of commercial pliers that have been modified.

Difference Between Models:
Original design.
Tabulated Data:
APE No. . . . . . . . . . . . . . . 21710000
Unit of Issue . . . . . . . . . . . Each

Installation Data:
Length (mounted) . . . . . . 30 in.
Width . . . . . . . . . . . . . . 7-1/2 in.
Height . . . . . . . . . . . . . . 25 in.
Weight . . . . . . . . . . . . . . 50 lbs
Floor Space . . . . . . . . . . . Varies with table used

Utilities Required:
None.

Production Capacity:
Not applicable.

Shipping Data:
Length . . . . . . . . . . . . . . 36 in.
Width . . . . . . . . . . . . . . 8 in.
Height . . . . . . . . . . . . . . Not available
Cube . . . . . . . . . . . . . . 1 cu ft
Weight . . . . . . . . . . . . . . 60 lbs

Associated Equipment:
None.

Kits:
None.
Use:
The projectile body drilling equipment is used to drill six holes in the base of 8-inch M404 projectile bodies for retrofit operations.

Description:
APE 2173 consists of a bench mounted drill press, projectile clamping carriage and carriage guide. The projectile clamping carriage is equipped with a positioning device to equally space the six holes.

Difference Between Models:
Original design.
Tabulated Data:
APE No. 21730000
Unit of Issue Each

Installation Data:
  Length 54 in.
  Width 32 in.
  Height 70-3/4 in.
  Weight 600 lbs

Utilities Required:
  115 vac, 60 Hz, single phase.

Production Capacity:
  15 projectiles per hour.

Shipping Data:
  Length Not available

Associated Equipment:
  None.

Kits:
  2173E001 KIT, Power Feed Attachment
  2173E002 KIT, Coolant Unit, Spray Mist
  2173E003 KIT, Grinder, Drill Bit

Width Not available
Height Not available
Cube Not available
Weight Not available
APE 2174--PRESS, PROJECTILE PINNING AND STAKING

Use:
The projectile press is used in pinning and staking operations performed on the 8 inch M404 projectile.

Description:
APE 2174 consists of a bench mounted hydraulic press, projectile clamping carriage and carriage guide. The projectile clamping carriage is equipped with a positioning pin to align the six holes in the projectile with the RAM.

Difference Between Models:
Original design.

Tabulated Data:
APE No. ............... 21740000
Unit of Issue .......... Each

Installation Data:
Length ............... 57 in.
Width ............... 27 in.
Height ............... 72 in.
Weight ............... 1400 lbs

Utilities Required:
230 vac, 60 Hz, 3 phase;
3/8 inch water line.

Production Capacity:
15 projectiles per hour.

Shipping Data:
Length ............... Not available
Width ............... Not available
Height ............... Not available
Cube .................. Not available
Weight ............... Not available

Associated Equipment:
None.

Kits:
None.
Use:
The projectile saw machine is used to saw high explosive loaded projectiles for de-mil ranging in size from 75MM to 120MM.

Description:
APE 2175 is basically a circular cold saw. This type of saw is designed to saw material at low rotational speeds with a liquid coolant. An electronic sequencer (micro processor) is furnished with the machine for automatic and remote operation. Feed and discharge conveyors are also furnished with this machine. Each conveyor is approximately 8 inches wide by 10 feet long.

Difference Between Models:
Original design.

Tabulated Data:
APE No. . . . . . . . . . . . 2175000
Unit of Issue . . . . . . . . Each

Installation Data:
Length . . . . . . . . . . . 78 in.
Width . . . . . . . . . . . 66 in.
Height . . . . . . . . . . . 84 in.
Weight . . . . . . . . . . . 1500 lbs
Utilities Required:
208 vac, 3 phase, 60 Hz.

Production Capacity:
One projectile (90MM) per minute.

Shipping Data:
MACHINE:
- Length: 90 in
- Width: 78 in.
- Height: 92 in.
- Cube: 374 cu ft
- Weight: 2100 lbs

CONVEYORS:
- Length: 125 in
- Width: 16 in.
- Height: 18 in.
- Cube: 21 cu ft
- Weight: 250 lbs

Associated Equipment: None.

Kits: None.
Use:
The test equipment is designed to apply a specified tension to belted lengths of small arms ammunition in order to detect weak links.

Description:

Difference Between Models:
Original design.

Tabulated Data:
APE No. .................... 21760000

Unit of Issue ................. Each
Installation Data:
  Length .................... 192 in.
  Width .................... 12 in.
  Height ................... 35 to 45 in.
  Weight .................. 457 lbs
Utilities Required:
  Air at 90 psi.
Production Capacity:
  Not available.

Shipping Data:
  Length .................... 105 in.
  Width .................... 43 in.
  Height ................... 50 in.
  Cube ...................... 131 cu ft
  Weight .................. 1112 lbs
Associated Equipment:
  None.

Kits:
  None.
Use:
The cartridge case base marking fixture is used to automatically stencil the base of 37MM through 6-inch cartridge cases. The fixture is used on the APE 1106 or the APE 1229. The fixture stencils cartridge cases while they are contained at the second station of the prime/deprime machine.

Description:
APE 2178 consists of a commercial printing head which is modified to interface with APE 1106 or APE 1229. The fixture is modified to be operated pneumatically. The stencil equipment operates automatically and does not require operator attendance except for checking marking quality.

Difference Between Models:
Original design.

Tabulated Data:
APE No. ................. 21780000
Unit of Issue ............ Each
Installation Data:
Length .................. 24 in.
Width ................... 20 in.
Height ................... 26 in.
Weight .................. 220 lbs
Utilities Required:
  Air at 80 psi.
Production Capacity:
  Not available.

Associated Equipment:
  None.

Shipping Data:
  Length . . . . . . . . . . . . Not available
  Width . . . . . . . . . . . . Not available
  Height . . . . . . . . . . . . Not available

Kits:
  None.
Use:
The clip holding fixture is used to hold the M74, 66MM incendiary rocket four round clips during assembly and disassembly operations. (The clip handling fixture kit is used to prevent the rockets from falling from the clip assembly during operations where the rocket retainers are removed from the clip assembly.)

Description:
APE 2179 is a welded structure which supports the rocket clip. Eight retainer petals expanding rings used to expand the retainer petals on the rocket retainers when the retainers are being temperature conditioned are included with the fixture.

Difference Between Models:
Original design.

Tabulated Data:
APE No. ............... 21790000
Unit of Issue ............ Each
Installation Data:
FIXTURE:
  Length ............... 10 in.
  Width ............... 8 in.
  Height ............... 21-3/8 in.
  Weight .............. 36 lbs
KIT:
   Length ................  8 in.
   Width ..................  8 in.
   Height .................. 10-1/2 in.
   Weight .................. 5 lbs
Utilities Required:
   None.
Production Capacity:
   Not available.

Shipping Data:
   Length .................. Not available

Utilities Required:
   None.
Production Capacity:
   Not available.

Associated Equipment:
APE 2180, 2181, 2184, 2185, 2186, 2187, 2188, 2189, 2190, 2193, 2194, and 2021M1.

Kits:
   2179E001 KIT, Clip Handling Fixture
APE 2180—WRENCH, RETAINER REMOVAL

Use:
The retainer removal wrench is used to remove the plastic rocket retainer from the M74, 66mm incendiary rocket four round clip.

Description:
APE 2180 consists of a circular gripping device with two handles.

Difference Between Models:
Original design.

Tabulated Data:
APE No. 21800000
Unit of Issue Each

Installation Data:
Length 9-1/4 in.
Width 2-7/8 in.
Height 1/4 in.

Utilities Required:
None.

Production Capacity:
Not applicable.

Shipping Data:
Length 9-3/4 in.
Width 3-3/8 in.
Height 3/4 in.
Cube .01 cu ft
Weight 1-1/2 lbs

Associated Equipment:
APE 2179, 2181, 2184, 2185, 2186, 2187, 2188, 2189, 2190, 2193, 2194, and 2021M1.

Kits:
None.
Use:
The tube cap removal wrench is used to remove the tube cap from the M74, 66MM incendiary rocket four round clip without distorting the tube cap.

Description:
APE 2181 consists of two handles connected to a tube cap jaw and operated by a torsion spring. When the handles are squeezed together, the tube cap is gripped for removal.

Difference Between Models:
Original design.

Tabulated Data:
APE No. .................. 21810000
Unit of Issue ............... Each
Installation Data:
  Length .................... 10 in.
  Width ....................... 5-1/2 in.
  Height ...................... 1 in.
  Weight ..................... 2 lbs
Utilities Required:
  None.
Production Capacity:
  Not applicable.

Shipping Data:
  Length ..................... 10-1/2 in.
  Width ....................... 6 in.
  Height ..................... 1-1/2 in.
  Cube ......................... .05 cu ft
  Weight ..................... 2-1/2 lbs

Associated Equipment:
APE 2179, 2180, 2184, 2185, 2186, 2187, 2188, 2189, 2190, 2193, 2194, and 2021M1.

Kits:
  None.
Use:
The visual inspection fixture is used to support the individual M74, 66MM incendiary rockets during the visual inspection phase of the screening operation.

Description:
APE 2184 consists of a base and two sets of rollers to support the rockets. Included with the fixture are 40 fin retaining tubes to be used on a rocket when it is removed from four round clip tube.

Difference Between Models:
Original design.

Tabulated Data:
APE No. . . . . . . . . . . . . . . 21840000
Unit of Issue . . . . . . . . . . . Each
Installation Data:
FIXTURE:
   Length . . . . . . . . . . . . 16 in.
   Width . . . . . . . . . . . . . 6 in.
   Height . . . . . . . . . . . . 5 in.

Weight . . . . . . . . . . . . . . 5 lbs
TUBES:
   Length . . . . . . . . . . . . 2-7/8 in.
   Width . . . . . . . . . . . . . 2-7/8 in.
   Height . . . . . . . . . . . . . 2 in.
   Weight . . . . . . . . . . . . . 1/2 lb

Utilities Required:
None.
Production Capacity:
Not applicable.

Shipping Data:
Length . . . . . . . . . . . . . . Not available
Width . . . . . . . . . . . . . . . Not available
Height . . . . . . . . . . . . . . . Not available
Cube . . . . . . . . . . . . . . . . . Not available
Weight . . . . . . . . . . . . . . . Not available

Associated Equipment:
APE 2179, 2180, 2181, 2185, 2186, 2187, 2188, 2189, 2190, 2193, 2194, and 2021M1.

Kits:
None.
Use:
The retainer assembly tool is used to install the plastic rocket retainer into the tube cap on an M74, 66mm incendiary rocket when the rocket is in the four round clip.

Utilities Required:
None.

Production Capacity:
Not applicable.

Difference Between Models:
Original design.

Tabulated Data:
APE No. .................. 21850000
Unit of Issue ............. Each

Installation Data:
Length .................. 2-11/16 in.
Width .................... 2-11/16 in.
Height ................... 6 in.

Weight .................. 1 lb

Shipping Data:
Length .................. 2-1/2 in.
Width .................... 3-1/2 in.
Height ................... 6-1/2 in.
Cube ...................... .05 cu ft
Weight ................... 1-1/2 lbs

Associated Equipment:
APE 2179, 2180, 2181, 2184, 2186, 2187, 2188, 2189, 2190, 2193, 2194, and 2021M1.

Kits:
None.
Use:
The shield and knife are used to open polystyrene boxes containing an M74, 66MM four round clip. The shield is used to protect the operator from facial exposure to flame if leaking warhead contents should ignite upon exposure to air during the opening of the polystyrene box.

Description:
APE 2186 is a commercial utility knife. The shield consists of an aluminum angle frame with transparent nonflammable plastic sides and top.

Difference Between Models:
Original design.

Tabulated Data:
APE No. ................. 21860000
Unit of Issue .......... Each
Installation Data:
Length .................. 49 in.
Width .................... 26-1/2 in.
Height .................... 30 in.
Weight .................... 29 lbs
Utilities Required:
None.
Production Capacity:
185 to 192 clips per 8 hour shift.
Shipping Data:
Length ................................ Not available
Width .................................. Not available
Height .................................. Not available
Cube ..................................... Not available
Weight ................................... Not available

Associated Equipment:
APE 2179, 2180, 2181, 2184, 2185, 2187, 2188, 2189, 2190, 2193, 2194, and 2021M1.

Kits:
None.
Use:
The retaining screw removal press is used to remove the cross-recess head screw in the manifold cover assembly of an M74, 66MM incendiary rocket four round clip.

Description:
APE 2187 is a standard bench model drill press which has been modified for manual operation and has had the column lengthened. The press should be fastened to a user furnished table.

Difference Between Models:
Original design.

Tabulated Data:
APE No. 21870000
Unit of Issue Each
Installation Data:
Length 18 in.
Width 21 in.
Height 45-1/2 in.
Weight 150 lbs
Utilities Required: None.
Production Capacity:
  185 to 192 clips per 8 hour shift.

Associated Equipment:
  APE 2179, 2180, 2181, 2184, 2185, 2186, 2188, 2189, 2190, 2193, 2194, and 2021M1.

Shipping Data:
  Length . . . . . . . . . . . . Not available
  Width . . . . . . . . . . . . Not available
  Height . . . . . . . . . . . . Not available
  Cube . . . . . . . . . . . . Not available
  Weight . . . . . . . . . . . . Not available

Kits:
  2187E001 DRILL JIG for Removing Cover Screw on Rocket, Incendiary, 66MM, TPA, 4 Round Clip, M74.
Use:
The small items shear machine is used to punch holes in explosive items to facilitate better control of demil in the APE 1236 deactivation furnace. The machine will process defuzed M26 grenades, standard contour artillery fuzes with boosters, M21A4 boosters, M42 grenades, 40MM M384 and M406 grenades.

Description:
APE 2196 consists of two separate shear stations housed in an operational shield. Once loaded, the operation of transferring to the shear station, punching, and ejecting are all controlled by a microprocessor. Hydraulic power is supplied by a separate power unit, included with the machine.

Difference Between Models:
Original design.

Tabulated Data:
APE No. .................. 21960000
Unit of Issue .............. Each

Installation Data:
MACHINE:
| Length    | 73 in. |
| Width     | 63 in. |
| Height    | 69 in. |
| Weight    | 5000 lbs |

POWER UNIT:
| Length    | 46 in. |
| Width     | 39 in. |
| Height    | 33 in. |
| Weight    | 750 lbs |

Utilities Required:
110 vac, 60 Hz, single phase, and 208 vac, 60 Hz, 3 phase.
Production Capacity:
Six items per minute.

Shipping Data:
MACHINE:
Length .................. .84 in.
Width .................... .72 in.
Height ................... .78 in.
Cube ..................... .273 cu ft
Weight ................... 5500 lbs

POWER UNIT:
Length .................. .54 in.
Width .................... .48 in.
Height ................... .36 in.

Cube ..................... 54 cu ft
Weight ................... 1000 lbs

Associated Equipment:
APE 1236M1.

Kits:
2196EO01 KIT, M21A4 Booster
2196EO02 KIT, 40MM, M406
2196EO03 KIT, 40MM, M384
2196EO04 KIT, M500A1 (Series) Fuze w/M21A4 Booster
2196EO05 KIT, M26 Hand Grenade Unfuzed
2196EO06 KIT, M42 and M46 Grenade - ICM
Use:
The deprime machine is used to remove screw-type primers from Navy 3"/50 through 8-inch and Army 105MM and 120MM cartridge cases prior to cartridge case salvage and remove press primers from cases to be re-used.

Description:
APE 2197 design incorporates a 1/2 inch thick steel operational shield with a four station index turntable. A hydraulic power unit supplies hydraulics to operate a 100 ton punch cylinder, hydraulic motor and other machine cylinders. 110 vac electrical operates and controls the functioning of various micro-switches positioned on the machine.

Difference Between Models:
Original design.
Tabulated Data:
APE No. 21970000
Unit of Issue Each
Installation Data:
Length 60 in.
Width 62 in.
Height 84 in.
Weight 6640 lbs
Utilities Required:
208 vac, 3 phase, 15 hp hydraulic pump motor; 110 vac to operate machine controls. Alternate supply source 17 kva.
Production Capacity:
3 cartridge cases per minute.

Shipping Data:
Length 66 in.
Width 84 in.
Height 92 in.
Cube 181 cu ft
Weight 7730 lbs

Associated Equipment:
None.

Kits:
2197EO01 KIT, Deprime 8"/55 Cartridge Cases MK1, MOD-0, MOD-1 and MOD-2
2197EO02 KIT, Deprime 120MM, M109 an XM111 Cartridge Cases
2197EO03 KIT, Deprime 5"/38 MK5 MOD 0 and MOD 1, MK8 MOD 0, MK10 MOD 0 an MOD 1, MK11 MOD 1, and 5"/54 MK6 MOD 0, MK7 MOD 0, MK9 MOD 0 and MOD 1 Cartridge Cases
2197EO04 KIT, Deprime 6"/47 MK4 MOD 0, MK6 MOD 0 and MOD 1, MK7 MOD 0 Cartridge Cases
2197EO05 KIT, Deprime 3"/50 MK3 MOD 0, MOD 2, and MOD 3, MK7 MOD 0, MOD 1, and MOD 2, MK9 MOD 0 Cartridge Cases
2197EO06 KIT, Deprime 105MM M115, M148, and M150 Cartridge Cases with M80, M83, M86 Primers
Use:
The delinker is used to delink 7.62MM cartridges belts for ratio changing or one hundred percent delink. The machine may be combined with the APE 1217M1, 7.62MM linker, to delink and replace cartridges into five sequence ratio packs or straight pack ammunition belts, in one continuous operation.

Description:
APE 2198 consists of a metal frame, a power operated rotating drum, cam driven ejector pins, a cartridge belt feed guide and optional use cartridge sorting wheels.

Difference Between Models:
Original design.

Tabulated Data:
APE No. .................. 21980000
Unit of Issue ................ Each

Installation Data:
Length .................. 83 in.
Width .................. 26 in.

Height .................. 40 in.
Weight .................. 503 lbs
Cube .................. 50 cu ft
Floor Space ................ 15 Sq ft

Utilities Required:
115/230 vac, 9.2/4.6 amps, 60 Hz, single phase.

Production Capacity:
400 rounds per minute

Shipping Data:
Length .................. 98 in.
Width .................. 34 in.
Height .................. 47 in.
Cube .................. 133 cu ft
Weight .................. 1200 lbs

Associated Equipment:
APE 1217M1, Linker, 7.62 (for combined delink and linking operations only).

Kits:
2198E001 KIT, Delink 7.62 100 percent delink without cartridge sorting
Use:
The robot was developed to be interfaced with pieces of Ammunition Peculiar Equipment. The robot is presently interfaced with the APE 1002M2 defuzing machine w/E014 kit. The robot is used to replace a person in explosive hazard situations.

Description:
APE 2200 consists of a hydraulic system with electrically control servos, core memory system with encoders, electrical power circuit with electrical sensors and an electro magnet as a pick up device.

Difference Between Models:
Original design.

Tabulated Data:

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<th>22000000</th>
</tr>
</thead>
<tbody>
<tr>
<td>Unit of Issue</td>
<td>Each</td>
</tr>
</tbody>
</table>

Installation Data:
- Length ............... 80 in.
- Width ................ 160 in.
- Height ............... 60 in.
- Weight ............... 3500 lbs

Utilities Required:
- 230 or 460 vac, 3 phase, 60 Hz.
- 11.5 kva; 220 or 440 vac, 3 phase, 50 Hz, 12 kva.

Production Capacity:
- 2400 projectiles per 8 hour shift (40MM). Capable of rounds from 20MM to 90MM.
Shipping Data:
- Length: 70 in.
- Width: 54 in.
- Height: 60 in.
- Cube: Not available
- Weight: 3900 lbs

Associated Equipment:
- Is interfaced with various APE depending on operation.

Kits:
- None.
Use:
The single station screening machine is used to screen 155MM: M483A1 projectiles for cracks in the projectile base.

Description:
APE 2205 consists of a mechanical handling system that automatically positions a projectile after it has been manually inserted; recirculating supply of couplant for ultrasonic scanning; two ultrasonic testers with flaw alarms; one eddy current tester with flaw alarm; and, automatic rotation and scan cycling for the transducers and eddy current probe.

Difference Between Models:
Original design.

Tabulated Data:
APE No. .................. 22050000
Unit of Issue ............... Each
Installation Data:
Length .................... 56 in.
Width ..................... 96 in.
Height ..................... 64 in.
Weight ..................... Not available
Utilities Required:
120 vac, 50 or 60 Hz, 20 amp, single phase; air at 100 psi.
Production Capacity:
Not available.

Shipping Data:
Length ................. Not available
Width ................. Not available
Height ................. Not available

Associated Equipment:
None.

Kits:
None.
Use:
The Rocket Assisted Projectile Disassembly Machine, is designed to remotely remove the rocket motor from the 155MM, M549 and M549A1 projectile.

Description:
The machine consists of four components each with a separate function and interfaced together by hose and cable which supply the hydraulic, pneumatic, and intrinsically safe electrical power needed to operate the machine from an electrical control panel, a remote control panel, and a machine control panel. Their basic description and operation are as follows: Projectile Positioning Table Frame is attached to the Projectile Clamp and is designed to restrain and position the projectile into the Projectile Clamp.

The Projectile Clamp is attached between the Projectile Positioning Table Frame and the Hydraulic Motor Carriage and is designed to clamp the projectile during rocket motor removal. When the projectile has been automatically positioned into the Projectile Clamp the six jaw circumferential clamp is automatically energized and physically restrains the projectile. The Hydraulic Motor Carriage is attached to the Projectile Clamp and is designed to remove the rocket motor from the warhead. The Hydraulic Power Unit is located in an adjacent bay and is designed to provide the hydraulic power to operate the machine. Mounted to the Hydraulic power Unit is the Electrical Control Box which provides the electrical service to the entire machine.
Difference Between Models:
Original Design

Tabulated Data:
APE No. . . . . . . . . . . . . . . 22060000.
Unit of issue: . . . . . Each

Installation Data:
Length: . . . . . . . . . . . 16 feet 4 inches
Width: . . . . . . . . . . . 4 feet 1 inch
Height: . . . . . . . . . . . 9 feet 5 inches
Weight: . . . . . . . . . . . 10,850 lbs

Utilities required:
Air: 85-95 PSI
Electricity: 440V, 3 Phase, 100 AMP service

Production Capacity:
2 minutes per projectile.

Shipping Data:
5 crates
Shipping Data Crate 1:
Length: . . . . . . . . . . . . . . . . . . . . . . 57 inches
Width: . . . . . . . . . . . . . . . . . . . . . . 49 inches
Height: . . . . . . . . . . . . . . . . . . . . . . 87 inches
Cube: . . . . . . . . . . . . . . . . . . . . . . . . . . . 141 cu ft
Weight: . . . . . . . . . . . . . . . . . . . . . . . . . . . 2000 pounds

Shipping Data Crate 2:
Length: . . . . . . . . . . . . . . . . . . . . . . 92 inches
Width: . . . . . . . . . . . . . . . . . . . . . . . 63 inches
Height: . . . . . . . . . . . . . . . . . . . . . . . 77 inches
Cube: . . . . . . . . . . . . . . . . . . . . . . . . . . . 260 cu ft
Weight: . . . . . . . . . . . . . . . . . . . . . . . . . . . 2700 pounds

Shipping Data Crate 3:
Length: . . . . . . . . . . . . . . . . . . . . . . 52 inches
Width: . . . . . . . . . . . . . . . . . . . . . . . 60 inches
Height: . . . . . . . . . . . . . . . . . . . . . . . 36 inches
Cube: . . . . . . . . . . . . . . . . . . . . . . . . . . . 65 cu ft
Weight: . . . . . . . . . . . . . . . . . . . . . . . . . . . 200 pounds

Shipping Data Crate 4:
Length: . . . . . . . . . . . . . . . . . . . . . . 120 inches
Width: . . . . . . . . . . . . . . . . . . . . . . . 56 inches
Height: . . . . . . . . . . . . . . . . . . . . . . . 94 inches
Cube: . . . . . . . . . . . . . . . . . . . . . . . . . . . 132 cu ft
Weight: . . . . . . . . . . . . . . . . . . . . . . . . . . . 4000 pounds

Shipping Data Crate 5:
Length: . . . . . . . . . . . . . . . . . . . . . . 104 inches
Width: . . . . . . . . . . . . . . . . . . . . . . . 63 inches
Height: . . . . . . . . . . . . . . . . . . . . . . . 79 inches
Cube: . . . . . . . . . . . . . . . . . . . . . . . . . . . 252 cu ft
Weight: . . . . . . . . . . . . . . . . . . . . . . . . . . . 2800 pounds

Associated Equipment:
Closed Circuit Television System for Hazardous Environment, APE 1072M3 Projectile Elevator, APE 2232

Kits:
2206E001 Vacuum Removal Kit
2206E002 Rocket Motor Delay Removal Kit,
2206E003 8-Inch Rocket Assisted Projectile Disassembly Kit
Use:
The RTV sealant dispensing equipment, is designed to put a seal of Room Temperature Vulcanizing (RTV) silicone sealant between the expelling charge cup and the fuze well cavity of the 155MM M116A1 smoke projectile.

Description:
APE 2211 consists of the following assemblies:

a. The three-projectile carrier provided to move three projectiles along the projectile conveyor assembly and into position to be loaded and unloaded into the chuck assembly.

b. The chuck assembly which clamps the projectile into position and rotates the projectile so RTV sealant can be applied.

c. The dispensing assembly holds the palm gun and allows the dispensing nozzle to be lowered into the projectile for the sealing operation.
Difference Between Models:
Original design.

Tabulated Data:
APE No. ........................................ 22110000
Unit of Issue .................................. Each

Installation Data:
TABLE AND CONVEYOR
ASSEMBLIES:
Length .......................... 120 in.
Width ............................... 57 in.
Height ............................... 73 in.
Weight ............................... Not available

RTV PUMP:
Length .......................... 35 in.
Width ............................... 35 in.
Height ............................... 60 in.
Weight ............................... Not available

Utilities Required:
Not available.

Shipping Data:
TABLE AND CONVEYOR
ASSEMBLIES:
Length .......................... Not available
Width ............................... Not available
Height ............................... Not available
Cube ................................. Not available
Weight ............................... 2185 lbs

Associated Equipment:
None.

Kits:
None.
Use
The tool is designed to remove the M36 burster from a 115MM M55 Chemical Rocket Warhead after the fuze has been removed and before the adapter is removed.

Description:
The tool consists of an eight inch slip joint pliers with a tube welded between the open jaws that is used to remove the burster.

Difference Between Models:
Original design.

Tabulated Data:
APE No . . . . . . . . . . . . . . . . 22120000
Unit of issue . . . . . . . . . . . . . . Each

Installation Data
Length: . . . . . . . . . . . . . . . . Not available.
Width : . . . . . . . . . . . . . . . . Not available
Height : . . . . . . . . . . . . . . . . Not available
Weight: . . . . . . . . . . . . . . . . Not available

Utilities Required:
None

Production Capacity:
Not applicable.

Associated Equipment:
None

Kits:
None
APE 2213-M34 BURSTER REMOVAL TOOL

Use
The tool is designed to remove the M34 Chemical Rocket Warhead after the fuze, M36 burster and adapter have been removed.

Description:
The tool consists of a expandable rubber burster gripper attached to a shaft with a 1/2 inch socket drive.

Difference Between Models:
Original design.

Tabulated Data:
APE No: 2213000
Unit of issue: Each

Installation Data
Length: 5 in.
Width: 1-1/2 in.
Height: 5 in.
Weight: 1 lbs.

Utilities Required:
None

Production Capacity:
Not applicable.

Shipping Data:
Length: 6 in.
Width: 2 in.
Height: 6 in.
Cube: Not available.
Weight: 1-1/2 lbs.

Associated Equipment:
None

Kits:
None

(Change 1) 2-339
Use:
The 30MM breakdown equipment is designed to break down and segregate the component parts of 30MM ammunition, APIT, PGU-14/B and API, PGU-14A/B and PGU-14B/B; HEI, PGU-13/B; T, PGU-15/B. The objective of this breakdown process is to do so without damage to the projectile. The products of the process are the cartridge propellant, cartridge case (in two pieces), a primer, flashtube and an undamaged projectile.

Description:
APE 2214 major assemblies are:

a. The programmed controller which governs the application of the power systems inputs to the other major components to integrate and sequence their functioning.

b. The power systems, which include pneumatic, electrical and hydraulic systems.

c. The cartridge delivery assembly which is rotated by the transfer drive to deliver the cartridge to the breakdown center.

d. The breakdown center where a cartridge is processed. The major assemblies of the breakdown center are:
(1) Indexing Table Assembly which is rotated counterclockwise by a hydraulically driven top plate drive index table and which supports and delivers projectiles as they are broken down by the five processing stations.

(2) Cartridge Load Station, consists of a pneumatic cylinder that powers a pushrod which pushes a cartridge down from the cartridge delivery assembly into a cartridge cup assembly mounted on the indexing table.

(3) Projectile Breakout Station, consists of a hydraulically driven projectile breakout station slide on which are mounted two rollers that crimp the cartridge when the slide advances. This action breaks the cartridge case, forces out the projectile and allows the propellant to drain.

(4) Cartridge Case Shear Station, consists of a hydraulically driven shear station slide on which is mounted a shear station cutter. The shearing cutter cuts off the deformed portion of the cartridge case when the slide advances so the remainder of the cartridge case can be removed from the cartridge cup later.

(5) Primer Removal Station, consists of a hydraulic cylinder that powers a pushrod which pushes a primer from the cartridge case. The station also has a solenoid operated air jet system which blows the primer into a primer removal chute.

(6) Cartridge Case Unload Station consists of a hydraulically powered cylinder that powers a pushrod which pushes the remainder of the cartridge case from the cartridge case cup and robotic gripper hand which grasps the cartridge case and drop it onto the third conveyor belt for removal.

Difference Between Models:
Original design.

Tabulated Data:
APE No. ................. 22140000
Unit of Issue: ............ Each
Installation Data:
CONTROLLER ASSEMBLY:
   Length .................. 117-1/2 in.
   Width .................. 19-3/8 in.
   Height .................. 72-1/8 in.
   Weight .................. Not available.
CARTRIDGE DELIVERY ASSEMBLY AND CARTRIDGE BREAKDOWN CENTER:
   Length .................. 131-11/16 in.
   Width .................. 66-1/8 in.
   Height .................. 74-3/16 in.
   Weight .................. Not available
HYDRAULIC POWER UNIT ASSEMBLY:
   Length .................. 67-7/8 in.
   Width .................. 47-1/2 in.
   Height .................. 38-1/4 in.
   Weight .................. Not available
Hydraulic Oil
   Capacity ................ 60 gal
PROGRAMMER:
   Length .................. 19-1/2 in.
   Width .................. 8-1/2 in.
   Height .................. 17 in.
   Weight .................. Not available
Utilities Required:
440 to 460 vac, 60 Hz, 70 amps, 3 phase; 25 cfm and 80 psi minimum to 100 psi maximum.

Production Capacity:
7100 cartridges/8 hour shift.

Shipping Data:
Length .................. Not available
Width .................. Not available
Height .................. Not available
Cube .................. Not available
Weight .................. Not available

Associated Equipment:
Conveyors, closed circuit TV, powder draw-off vacuum system.

Kits:
2214E001 KIT, 30MM, M788, M789, M833
2214E002 KIT, 25MM, M791, M792 w/Fuze PDS, M578, M793

(Change 1) 2-341
Use:
The link-delink machine is designed to link or delink 25MM cartridges and M28 Links.

Description:
The APE 2215 is a hand fed, air/electrical powered machine consisting of a frame assembly or structural support, a link-delink wheel and a circuit control box. The machine is equipped to link cartridges into belts ranging in length from one cartridge to ten thousand cartridges. The machine will continuously delink cartridge belts and deposit the links and cartridges into separate retrieval areas.

Difference Between Models:
Original design.

Tabulated Data:
APE No. ................. 22150000
Unit of Issue ............ Each

Installation Data:
Length ................... 13 ft
Width ..................... 64 in.
Height ..................... 6 ft
Weight .................... Not available

Utilities Required:
Not available.

Production Capacity:
30 to 300 rounds per minute.
Shipping Data:
Length .................. Not available
Width ..................... Not available
Height ........................ Not available
Cube ........................ Not available
Weight ........................ Not available

Associated Equipment:
None.

Kits:
None.
Use:
The smoke pot derusting machine is used for cleaning M4A1, ABC-MS and M1 HC smoke pots.

Description:
APE 2216 is a free standing, air operated machine, consisting of a protective operational cabinet, air filter, device for rotating smoke pots, and blast cleaning air nozzles. In operation, smoke pots are rotated while the surface is cleaned with an abrasive blast cleaning medium.

Difference Between Models:
Original design.

Tabulated Data:
APE No. .................. 22160000
Unit of Issue .............. Each
Installation Data:
Length ................... 60 in.
Width ..................... 48 in.
Height .................... 120 in.
Weight .................... 2300 lbs
Utilities Required:
Compressed air at 90 psi; 110 vac, 2 phase.
Production Capacity:
60 smoke pots per hour.

Cube . . . . . . . . . . . . . . . . . . . 200 cu ft
Weight . . . . . . . . . . . . . . . . . 2500 lbs

Associated Equipment:
None.

Shipping Data:
Length . . . . . . . . . . . . . . . . . Not available
Width . . . . . . . . . . . . . . . . . . Not available
Height . . . . . . . . . . . . . . . . . . Not available

Kits:
None.
Use:
The smoke pot defuzing machine is used in maintenance and renovation operations that require removal of fuzes from smoke pots.

The machine is designed to remove M207A1 fuzes from M4A2 smoke pots.
Description:
APE 2217 is a free standing, hydraulic operated, programmable logic controlled controlled machine, consisting of a protective operational cabinet, defuzing mechanism, and a clamping device. In operation, smoke pots are clamped at their base while a wrench head grips the fuze and rotates to remove the fuze.

Difference Between Models:
Original design.

Tabulated Data:
APE No. ...................... 22170000
Unit of Issue ................. Each
Installation Data:
  Length ...................... 37 in.
  Width ...................... 20 in.

Utilities Required:
208 vac, 3 phase.
Production Capacity:
120 smoke pots per hour.

Shipping Data:
Length ....................... Not available
Width ....................... Not available
Height ....................... Not available
Cube ......................... 37.5 cu ft
Weight ....................... 1200 lbs

Associated Equipment:
None.

Kits:
None.
Use:
The delinker machine is designed to delink 30MM M788 and 30MM M789 cartridges from M29 links and load them into a 30MM Metallic Ammunition Strip using the kit, 30MM bulk ammunition strip, APE 2218E001.

Description:
The APE 2218 and APE 2218E001 are electrically integrated, requiring them to be used together. The system is hand fed and electrically powered, and consists of two assemblies: one delinker assembly and one ammunition strip loader assembly. The delinker assembly removes the cartridges from the linked belt. The ammunition strip loader assembly is devised to load the cartridges into ammunition strips. The system is equipped with limit switches and proximity sensors to shut down the equipment upon detection of any cartridge jams, link jams or ammunition strip jams. The system requires a support operation such as conveyors for efficient operation.
Difference Between Models:
Original design.

Tabulated Data:
APE No. .................. 2180000
Unit of Issue ............ Each

Installation Data:
BASIC MACHINE:
- Length .................. 8 ft
- Width .................. 7 ft
- Height .................. 5 ft
- Weight ................ 1851 lbs

KIT:
- Length .................. 10 ft
- Width ................ 2-1/2 ft
- Height .................. 5 ft
- Weight ................ 671 lbs

Utilities Required:
120 vac, 60 Hz, 40 amp.

Production Capacity:
Dependent upon drive dial setting,
anywhere from 118 cartridges per minute to 232 cartridges per minute.

Utilities Required:
120 vac, 60 Hz, 40 amp.

Production Capacity:
Dependent upon drive dial setting,
anywhere from 118 cartridges per minute to 232 cartridges per minute.

Shipping Data:
BASIC MACHINE:
- Length .................. 102 in.
- Width .................. 51 in.
- Height ................. 70 in.
- Cube .................. 211 cu ft
- Weight ................ 2585 lbs

KIT:
- Length .................. 127 in.
- Width .................. 35 in.
- Height .................. 65 in.
- Cube .................. 167 cu ft
- Weight ................ 1522 lbs

Associated Equipment:
None.

Kits:
2218E001 KIT, 30NM Bulk Ammunition Strip (required to be used with APE 2218)
Use:
The tool set is designed for specific rocket motor disassembly operations necessary in the demilitarization of M180 demolition kit.

Description:
APE 2219 consists of the following hand tools:

a. Detonator holding fixture which holds the detonator in a fixed position for removal of the blasting cap. The fixture has a plunger type mechanism to push the blasting cap out for removal by the operator.

b. The rocket motor head lifting handle to provide a grasping point for the operator to lift the head out of the motor case.

c. Retaining ring container which fits over the rim of the rocket motor case and prevents internal retaining rings from springing out when being removed.

d. The propellant disassembly fixture acts as a receptacle for holding the combined propellant and motor head in place for motor head removal.

e. The booster removal tool to grasp and remove the booster from the protector body of the detonator assembly.
f. The rocket protector retainer removal tool is used to unscrew the protector retainer from the detonator.

g. The tools are contained in a case for shipping and storage.

Difference Between Models:
Original design.

Tabulated Data:
APE No. .................... 22190000
Unit of Issue ............. Each
Installation Data:
HOLDING FIXTURE:
  Length .................. 5-3/8 in.
  Width ................... 10 in.
  Height .................. 10 in.
  Weight .................. 5 lbs
LIFTING HANDLE:
  Length .................. 3-3/4 in.
  Width ................... 12 in.
  Height .................. 1/2 in.
  Weight .................. 2 lbs
RETTAINING RING CONTAINER:
  Length .................. 2-1/2 in.
  Width ................... 7 in.
  Height .................. 7 in.
  Weight .................. 5 lbs
DISASSEMBLY FIXTURE:
  Length .................. 8-5/8 in.
  Width ................... 6-1/4 in.
  Height .................. 6-1/4 in.
  Weight .................. 5 lbs
BOOSTER REMOVAL TOOL:
  Length .................. 12 in.
  Width ................... 1-5/8 in.
  Height .................. 1-5/8 in.
  Weight .................. 2 lbs
RETTAINER RING REMOVAL TOOL:
  Length .................. 5-1/8 in.
  Width ................... 4 in.
  Height .................. 4 in.
  Weight .................. 3 lbs
STORAGE CASE:
  Length .................. 8 in.
  Width ................... 27 in.
  Height .................. 23 in.
  Weight .................. 10 lbs
  Weight .................. (empty)
Utilities Required:
None.
Production Capacity:
Not available.

Shipping Data (in storage case):
  Length .................. 27 in.
  Width ................... 23 in.
  Height .................. 8 in.
  Cube .................... 3 cu ft
  Weight .................. 32 lbs

Associated Equipment:
APE 7041M1, 0-6 Ton Bench Type Hydraulic Staking Machine, in conjunction with APE7041E001, Kit Igniter Remover, Demilitarization of M180 Demolition Kit.

APE 7023M1, Vise, Projectile, Navy, in conjunction with APE 7023E001, Kit, Jaw, M180 Demolition Kit.

Kits:
None.
Use:
The APE 2220 Projectile Ogive Replacement System is air operated and designed to remove ogives from 155mm M483A1, M718, and M741 projectiles and replace them with new ogives. The ogives removed in this operation cannot be re-used.

Description:
APE 2200 consists of three major assemblies:

a. The projectile positioning table assembly used to position the projectile into the projectile clamp assembly. This assembly consists of a control panel, associated valving, two conveyors, a projectile platform and framework.

b. The projectile clamp assembly is attached between the projectile positioning table and the ogive removal impact table assembly. It is used to clamp the projectile during ogive removal and replacement. The projectile clamp assembly consists of a six jaw circumferential clamp, two airfed drilling units, associated valving and framework.
c. The ogive removal impact table assembly is attached to the projectile clamp assembly to remove the ogive for replacement of a new ogive onto the projectile. The assembly consists of a control panel, associated valving, an ogive removal impact wrench, rails and an ogive removal chuck attached to the removal impact wrench. A die grinder with wire brush, new ogive replacement adapter and a new ogive installation impact wrench are provided for replacement of new ogives.

Difference Between Models:
Original design.

Tabulated Data:
APE No. ................. 22200000
Unit of Issue ................ Each
Installation Data:
  Length .................... 15 ft 5 in.
  Width ..................... 6 ft 8 in.
  Height .................... 9 ft 3 in.
  Weight .................... 7200 lbs
Utilities Required:
  Air at 90 minimum psi to
  125 maximum psi.
Production Capacity:
  Machine operation - 2-1/2 minutes per projectile.

Shipping Data:
CRATE 1:
  Length .................... 87 in.
  Width ..................... 47 in.
  Height .................... 39 in.
  Cube ....................... 92 cu ft
  Weight ..................... 1316 lbs
CRATE 2:
  Length .................... 120 in.
  Width ..................... 56 in.
  Height .................... 34 in.
  Cube ....................... 132 cu ft
  Weight ..................... 4150 lbs
CRATE 3:
  Length .................... 90 in.
  Width ..................... 53 in.
  Height .................... 77 in.
  Cube ....................... 213 cu ft
  Weight ..................... 3807 lbs
CRATE 4:
  Length .................... 104 in.
  Width ..................... 53 in.
  Height .................... 79 in.
  Cube ....................... 252 cu ft
  Weight ..................... 2777 lbs

Associated Equipment:
APE 2232.

Kits:
None.
Use:
The test fixture is used to insure that the projectile body and the replaced ogive on the 155MM M483A1 projectile are concentric.

Description:
APE 2221 consists of the following assemblies: A metal support frame; a projectile roller assembly for manual movement of projectiles; a pneumatically operated projectile lift assembly which lowers the projectile from the roller assembly into position for testing; A vertical ogive alignment assembly used to center the projectile; a large diameter concentricity gage and a small diameter concentricity gage for performing the concentricity test.

Difference Between Models:
Original design.

Tabulated Data:
APE No. .................... 22210000
Unit of Issue ............... Each
Installation Data:
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<tbody>
<tr>
<td>Length</td>
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<tr>
<td>Width</td>
<td>21-1/2 in.</td>
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<tr>
<td>Height</td>
<td>30 in.</td>
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<tr>
<td>Weight</td>
<td>620 lbs</td>
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Utilities Required:
Air at 90 psi.
Production Capacity:
   Not applicable.

Shipping Data:
   Length ....................... 63 in.
   Width  ....................... 45 in.
   Height ....................... 53 in.

Cube  ....................... 87 cu ft
Weight ....................... 1278 lbs

Associated Equipment:
   None.

Kits:
   None.
Use:
The air test device is used to insure that an airtight seal has been achieved between the ogive and projectile and the base plate and the projectile during renovation operations. The device is designed to test the 155MM M483A1 projectile and with the use of APE 2222E001 may be used to test 8 inch projectiles.

Description:
APE 2222 consists of the following major parts and assemblies: A frame assembly for structural support; A pressure chamber cover assembly and pressure chamber base which combine to form an airtight container for the projectile; A push button operated pneumatic control enclosure assembly provides automated movement for the chamber cover, automatic pressurization and depressurization of the chamber and provides housing for the air pressure gage; The air pressure gage is used to determine the validity of the ogive seal: a drop in the air pressure indicates a leak in the seal, if tight the air pressure will remain constant; Two projectile standards (leaking and non-leaking) are provided to assure reliability of test operations.
Difference Between Models:
Original design.

Tabulated Data:
APE No. 22220000
Unit of Issue: Each
Installation Data:
Length: 65 in.
Width: 37 in.
Height: 8 ft 9 in.
Weight: 1965 lbs
Utilities Required:
Air at 90 psi.
Production Capacity:
Not available.

Shipping Data:
Length: 73 in.
Width: 55 in.
Height: 93 in.
Cube: 216 cu ft
Weight: 2747 lbs

Associated Equipment:
None.

Kits:
2222E001 KIT, 8 Inch Projectile Air Test

TM 43-0001-47
Use:
The APE 2225 is designed to mechanically separate M15 series links from caliber .50 belted ammunition.

Description:
The machine is a large production model electric powered, chain driven delinker. A variable speed drive controller features controls for operating the system. Belts are fed into the machine at the feed drive where it is driven into the delinker drum and the cartridges are extracted from the links. Cartridges are expelled from the machine on a powered conveyer, and the links are removed down a chute.

Difference Between Models:
Original design

Tabulated Data:
APE No. .................................. 22250000
Unit of issue: .......................... Each

Installation Data:
Length: .......................... 164 in.
Width: .......................... 85-1/2 in.
Height: .......................... 67 in.

Utilities Required:
Electrical:
120VAC @ 20 Amperes, 50/60 Hertz

Pneumatic:
90 PSI @ 70 SCFM

Production Capacity:
600 cartridges/minute maximum
Shipping Data:
  Length: . . . . . . . . . 93 in.
  Width: . . . . . . . . . 78 in.
  Height: . . . . . . . . . 78 in.
  Cube: . . . . . . . . . 328 cu ft
  Weight: . . . . . . . . 4740 pounds (crated)

Associated Equipment:
  None

Kits:
  None
Use:
The detuber is designed to remove GAU-8/A ammunition (individual or mixed combinations) from linked tube carriers (LTC’S) belted together by fabric loops.

Description:
The detuber is a pneumatically powered, chain driven machine. It is an automated system operated by pneumatic controls. It is equipped with an emergency stop circuit to stop operation if an adverse condition occurs. The design also provides retubing capability for use in surveillance inspection operations. Two pneumatic timers at the control panel can be programmed for a prescribed count when the machine is used for surveillance. A mechanical totalizing counter displays the total number of cartridges processed.

Difference Between Models:
Original design

Tabulated Data:
APE No ........................................ 22260000
Unit of issue: ..................... Each
Installation Data:
Length: ............... 17 ft 5-1/4 inches
Width: ............... 62 inches
(with drawbar drive guard closed)
............. 82 inches
(with drawbar drive guard open)
............. 52 inches
(machine base)
Height: ............... 8 ft 7 inches
(with pickup in uppermost position)
............. 9 ft 6 inches
(with cover on pickup open and
and pickup in uppermost position)
Utilities required:  
Air: ......................... 100 PSI

Production Capacity:  
60 ammunition containers/8 hour shift.

Associated Equipment:  
None

Kits:  
2226E001 30MM Surveillance Inspection Kit

Shipping Data:
The machine is shipped in two crates. The larger crate contains the main machine. The smaller crate contains the frame extensions, the drawbar assembly and the transfer trucks.

<table>
<thead>
<tr>
<th>Large crate</th>
<th>Small crate</th>
</tr>
</thead>
<tbody>
<tr>
<td>Length: 137 inches</td>
<td>75 inches</td>
</tr>
<tr>
<td>Width: 84 inches</td>
<td>64 inches</td>
</tr>
<tr>
<td>Height: 103 inches</td>
<td>44 inches</td>
</tr>
<tr>
<td>Cube: 686 cu. ft.</td>
<td>123 cu. ft.</td>
</tr>
<tr>
<td>Weight: 6810 pounds</td>
<td>1574 pounds</td>
</tr>
</tbody>
</table>
Use:
The obturator removal fixture is designed to remove obturators from the 155MM and 8 inch projectiles. The manually operated, pneumatically powered fixture is mounted on a user supplied bench and holds one manually placed projectile in a horizontal position for obturator removal operations. The user must choose a kit suitable.

Description:
APE 2229 consists of the following principal parts:

a. The obturator removal fixture base which provides structural support.

b. Two adjustable v-block projectile support assemblies which hold and align the projectile during obturator removal operations.

c. The obturator cutting tool severs the obturator for removal.

d. The filter/regulator/lockout assembly provides the air supply controls of the fixture. The assembly is mounted on a separate bracket to allow the user a choice of locations appropriate to the worksite.
Difference Between Models:
Original design.

Tabulated Data:
APE No. ........................ 22290000
Unit of Issue ..................... Each

Installation Data:
  Length .......................... 60-5/8 in.
  Width ............................ 12 in.
  Height ............................ 30 in.
  Cube .............................. 12.63 cu ft
  Weight ............................ 258 lb

Utilities Required:
  Oil free air (minimum) 85 psi
  at 5 cfm.

Production Capacity:
  500 rounds per 8 hour shift.

Shipping Data:
  Length ............................ 83 in.

  Width .............................. 56 in.
  Height .............................. 42 in.
  Cube ............................... 113 cu ft
  Weight ............................. 978 lbs

Associated Equipment:
None.

Kits:
2229E001 KIT, Cutter, Obturator, 155MM
  Projectiles, M549 and M549A1
  HERA.
2229E002 KIT, Cutter, Obturator, 155MM
  Projectiles, M483A1, M587,
  M692, M718, M731, M741, and
  M795
2229E003 KIT, Cutter, Obturator, 8 Inch
  Projectiles, M509 and M650
Use:
The obturator installation fixture is designed to install obturators on the 155MM and 8-inch projectiles. A dual push button, pneumatic control unit actuates a cylinder which moves the obturator positioning jaw set (APE 2230E001, 2230E002, 2230E003), forward to push the obturator in place on the projectile. The fixture is mounted on a user provided bench and holds one manually placed projectile in a horizontal position for obturator installation. The user must choose a kit suitable to the obturator installation operation being performed.

Description:
The APE 2230 consists of the following principal parts:

a. The obturator installation fixture base which provides structural support.

b. The two adjustable v-block projectile support assemblies which hold the projectile and align it with the jaw set.

c. The filter/regulator/lockout assembly provides the air supply controls of the fixture. The assembly is mounted on a separate bracket to allow the user a choice of locations appropriate to the worksite.
Difference Between Models:
Original design.

Tabulated Data:
APE No. .................. 22300000
Unit of Issue ............... Each

Installation Data:
Length .................... 77 in.
Width ....................... 12 in.
Height ..................... 22-1/2 in.
Cube ........................ 12 cu ft
Weight .................... 173 lbs

Utilities Required:
Oil free air (minimum) 80 psi at 1 cfm.

Production Capacity:
500 rounds per 8 hour shift.

Shipping Data:
Length ..................... 83 in.
Width ....................... 56 in.

Height ..................... 42 in.
Cube ........................ 113 cu ft
Weight .................... 978 lbs

Associated Equipment:
APE 1278M2, Tank, Hot Water Conditioning; APE 1278E003, Kit, Obturator Holding Rack; APE 2229, Obturator Removal Fixture.

Kits:
2230E001 KIT, Jaw, Obturator Positioning, 155MM Projectiles, M549 and M59A1 HERA
2230E002 KIT, Jaw, Obturator Positioning, 155MM Projectiles, M483A1, M587, M692, M718, M731, M741, and M795
2230E003 KIT, Jaw, Obturator Positioning, 8 Inch Projectiles, M509 and M650
Use:
The projectile base plug system is designed to remove defective base plugs from 155MM M483A1 projectiles and replace them with new serviceable base plugs. The APE 2231 is pneumatically and hydraulically powered. The system is a single unit of equipment with individual stations for the performance of projectile handling, base plug removal, thread cleaning, shim stack test, base plug replacement and torque test operations.

Description:
The APE 2231 consists of the following major parts and assemblies:

a. The track and frame assembly provides the structure for the operation stations. The operation stations are mounted to the frame, which is surrounded by the track.

b. Eight projectile truck assemblies are supplied for transportation of projectiles about the track.

c. A projectile transfer cart and the transfer station exit lock assembly are provided for the removal of projectiles prior to the completion of the operation.

d. The conveyor section assembly and the upend station assembly are combined to form the incoming and outgoing station for projectiles.

e. The projectile clamp assembly is made up of jointed segments, which close around the projectile and pneumatically lock it into place during base plug removal, stack height test, base plug replacement and torque test operations.
f. Two identical stations are provided for base plug removal operations. Each station consists of a clamp assembly, a projectile base plug removal tool assembly with a base plug removal tool adapter a ratchet wrench assembly and base plug removal hydraulic pump assembly.

g. The thread cleaning station has a pneumatically powered tilt fixture which tilts the projectile truck thirty degrees to provide the operator with a better working and viewing angle. The threads of the projectile are cleaned using the thread cleaning equipment, which consists of an air powered cleaning brush and vacuum.

h. The stack height test station consists of a projectile clamp assembly, the 1000 pound stack height test hydraulic cylinder assembly and stack height test hydraulic pump assembly.

i. The torque station is used to perform the base plug replacement operation and to test the tightness of the thread engagement between the base plug and the projectile. The station consists of a projectile clamp assembly, the torque station assembly and the torque station hydraulic pump assembly.

j. The torque verification fixture assembly with a calibrated tension ring force gauge is supplied to insure that torque is measured accurately.

k. The stack test verification assembly with a calibrated compression ring force gauge is supplied to insure the accuracy of the projectile cargo stack test measurement.

Difference Between Models:
Original design.

Tabulated Data:
APE No. 22310000
Use:
The projectile elevator is designed to lift 155MM M483A1, M718, M741 and 8 Inch projectiles from lower levels to an operating height at a higher level. The elevator is the primary transportation equipment for the Projectile Ogive Replacement System, APE 2220.
APE 2232 is pneumatically powered and manually loaded. Dual projectile conveyor assemblies are lifted by a cylinder and chain mechanism that raise from eleven nominal inches above floor level to a height of 64 nominal inches. Both projectile conveyor assemblies are raised and lowered simultaneously. Height adjustment conveyor supports provide a means of changing the beginning height level of either one (not both in the same operation set-up) of the conveyors from eleven and one half nominal inches to 36 nominal inches. A movable operator’s control box allows for variation in operation set-ups. The load limit of the elevator is 225 pounds per conveyor. The projectile elevator consists of the following major parts and assemblies:

a. The frame which provides the structural support for the elevator.

b. The tracks which provide alignment for the conveyor lifters.

c. The conveyor lifters which hold the projectile conveyors as they are moved up or down.

d. The control box assembly which allows the operator to select the up or down direction of the elevator.

e. Two conveyor assemblies, located on opposite sides of the elevator, which provide for horizontal movement of the projectile. Each conveyor assembly is made up of a roller conveyor section which is 51 inches long and nine inches wide.

Difference Between Models:
Original design.

Tabulated Data:
APE No. .................... 22320000
Unit of Issue ............... Each

Installation Data:
Length ..................... 76 in. (pivot arm extended)
Width ....................... 40 in.
Height ..................... 75-1/2 in.
Weight ..................... 1017 lbs

Utilities Required:
Air at 90 psi.

Production Capacity:
Not applicable.

Shipping Data:
Length ..................... 85 in.
Width ....................... 83 in.
Height ..................... 54 in.
Cube ....................... 220 cu ft
Weight ..................... 2228 lbs

Associated Equipment:
APE 2220.

Kits:
None.
Use:
The projectile base plug drilling machine is designed to drill two holes in-line through the walls of the 155MM M483A1 projectile base plug. The APE 2234 is pneumatically powered and manually operated. The machine will drill one hole through one wall of the projectile base plug, the projectile is then manually rotated 180 degrees and locked in place to allow the second hole to be drilled. The APE 2234 is used as associated equipment with the Projectile Base Plug Replacement System, APE 2231, to provide gripping points for base lug removal operations.
Description:
The APE 2234 consists of the following major parts and assemblies:

a. The drill press is a floor model drill press for a No. 3 morse taper. The drill is powered by a 4.6 horsepower rotary vane air motor, with variable reversible speed and operating speeds of 300 RPMS to 3000 RPMS.

b. A manually controlled power feed unit provides the ON/OFF controls and the up or down movement of the modified drill bit.

c. The table assembly has an incoming conveyor section, two pneumatically powered projectile clamps and forwarding conveyor section.

d. The projectile alignment fixture provides a means of aligning the projectile in the clamp to insure that both holes are drilled 180 degrees apart and on the same center line.

e. The drill bit chip guard keeps the base plug and work area free of chips during the drilling operation.

Difference Between Models:
Original design.

Tabulated Data:
Models:
APE No. 22340000
Unit of Issue Each

Installation Data:
Length 100-1/2 in.
Width 46-1/2 in.
Height 69 in.
Weight Not available
Floor space 4648.125 sq in.

Utilities Required:
Air at 80 psi.
Production Capacity: Not available.

Shipping Data:
Length 108 in.
Width 58 in.
Height 87 in.
Cube 315 cu ft
Weight 2125 lbs

Associated Equipment:
APE 2231, Projectile Base Plug Replacement System.

Kits:
None.
Use:
The download machine is used for removing smoke grenades from the M176 Grenade launcher.

Description:
APE 2235 consists of an APE 1065 Pneumatic Vise modified by welding to it a base plate which holds a sabot holding tube. Additional components include a tubing cutter for cutting the launcher end cap off, and a spanner wrench for removing the impulse cartridge. The launcher is held in the pneumatic vise while performing these operations and while sliding the grenade-holding sabot into the sabot holding tube for removal of the grenades.

Difference Between Models:
Original design.

Tabulated Data:
APE No. 22350000
Unit of Issue Each
Installation Data:
Length 21 in.
Width 24 in.
Height 12 in.
Weight 55 lbs
Utilities Required:
Air at 10 psi.
Production Capacity:
12 launchers per hour.

Shipping Data:
Length ................. 23 in.
Width .................. 28 in.
Height ................. 15 in.

Cube .................... 5.8 cu ft
Weight ................... 70 lbs

Associated Equipment:
None.

Kits:
None.
Use:
The adhesive dispensing equipment is used to dispense adhesive to the shoulder and the threads of the new base plug prior to threading it into the 155MM M483A1 projectiles.

Description:
APE 2244 consists of air-operated equipment that dispenses adhesive to the base plug shoulder and threads simultaneously. After the projectile is manually loaded onto the rotary turntable, the cycle is initiated by a two-hand operated actuator. The application of the adhesive is performed automatically by two independently operated dispensing heads mounted on the dispensing assembly base. The speed of the turntable is adjustable, within a defined range, to assure bead application is as required. The free-standing pumping unit for the silicone compound (shoulder application) is located adjacent to the turntable while the pressure vessel for the anaerobic compound (thread application) is mounted on the dispensing assembly base with the turntable.
Difference Between Models:
Original design.

Tabulated Data:
APE No. . . . . . . . . . . . . . . . . . 22440000
Unit of Issue . . . . . . . . . . . . Each

Installation Data:
ROTARY Turntable:
  Length . . . . . . . . . . . . . . . . . . 30 in.
  Width . . . . . . . . . . . . . . . . . . . 24 in.
  Height . . . . . . . . . . . . . . . . . . 45 in.
  Weight . . . . . . . . . . . . . . . . . . Not available
Pneumatic Ram
ASSEMBLY:
  Length . . . . . . . . . . . . . . . . . . 15 in.
  Width . . . . . . . . . . . . . . . . . . . 15 in.
  Height . . . . . . . . . . . . . . . . . . . 50 in.
  Weight . . . . . . . . . . . . . . . . . . Not available

Utilities Required:
  Air at 80 psi.

Production Capacity:
  120 per hour.

Shipping Data:
  Length . . . . . . . . . . . . . . . . . . . . . . . . . 58 in.
  Width . . . . . . . . . . . . . . . . . . . . . . . . . . 45 in.
  Height . . . . . . . . . . . . . . . . . . . . . . . . . . 62 in.
  Cube . . . . . . . . . . . . . . . . . . . . . . . . . . . 94 cu ft
  Weight . . . . . . . . . . . . . . . . . . . . . . . . . . 1040 lbs

Associated Equipment:
  None.

Kits:
  None.
Use:
The 320 KV Mobile X-ray System is used to provide a source of X-rays for Radiography (Film and Radioscopic Real Time) of ammunition and ammunition components having a density up to the equivalency of three inches of steel.

Description:
The Mobile X-ray System is designed to be assembled or disassembled and transported to different Government locations. Components may be moved by one person from one position to another within a building and can be easily disassembled for packing into suitable crates for shipment or storage.

The complete system consists of the following components:
1. Control Console Unit
2. Anode and Cathode Transformers in separate Tanks.
3. Separate Two Wheeled Dollies for transportation of Anode and Cathode Transformers.
4. X-ray Tube Assembly with small and Large Focal Spot Size.
5. Remote Controlled Tube Shutter Collimator.
6. Oil Cooling Unit
7. Laser Beam Centering Device.
8. Wheeled, Hydraulic Raising and Lowering X-ray Tube Assembly Support
9. High and Low Voltage Cables.
10. Oil Hoses
Tabulated Data:
APE No: 22480000
Unit of issue: Each

Installation Data:
Length: Not available
Width: Not available
Height: Not available
Weight: Not available
Cube: Not available
Weight: Not available

Utilities Required:
Electricity:
Control Box: 220 VAC +/- 10%, single phase, 6 taps for 208V and 240V
Power Frequency: 50/60 Hz
Maximum Current Input: 12, 5 Amperes
Power Fuze Rating: 16A (slow blow)
Production Capacity:
Not applicable.

Shipping Data:
Length: Not available
Width: Not available
Height: Not available

Associated Equipment:
None

Kits:
None

(Change 1) 2-373
Use:
The Torque Adapter is used to assemble, disassemble, or torque cartridge containers, cartridge container extensions or striker nuts on 4.2 inch mortars.

Description:
The Torque Adapter is designed with rollers inside which adjust to grip the cartridge container or cartridge container extension as the adapter end cap is turned. The Torque Adapter will fit onto a 1/2 inch drive.

Difference Between Models:
Original design.

Tabulated Data:
APE No. ................. 22490000
Unit of issue: ............ Each

Installation Data:
Length: ..................... 4-1/16 in.
Width: ....................... 2-1/2 in. dia.
Weight: ...................... 3 lbs.

Utilities Required:
None

Production Capacity:
Not applicable.

Shipping Data:
Length: ..................... 5 in.
Width: ....................... 3 in.
Weight: ...................... 3 lbs.

Associated Equipment:
None

Kits:
None
The APE 2258, Device, 30MM Loose Fuze Tester, is designed for detecting loose fuzes in 30MM M789 HEDP cartridges and removing the defective cartridges from the link belt.

Description:
The device consists of two pieces of equipment: A loose fuze tester to detect loose fuzes. The tester is manually operated and pneumatically powered. A 30MM manual delinker assembly to remove defective cartridges (cartridges with loose fuzes) from the link belt.

Difference Between Models:
Original design.

Tabulated Data:
APE No. . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . 22580000
Unit of issue: . . . . . . . . . . . . . . . . . . . . . . . . . . . Each

Installation Data:

**Loose Fuze Tester**
Length: . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . 34 inches
Width: . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . 27 inches
Height: . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . 17 inches
Weight: . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . 130 pounds

**30MM Manual Delinker**
Length: . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . 20-1/2 inches
Width: . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . 5 inches
Height: . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . 17 inches
Weight: . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . 7 pounds

Utilities Required: 90 PSI air supply
Production Rate: 300 cartridges/hour.

Associated Equipment:
None

Kits:
None

(Change 1) 2-374.1 (2-374.2 blank)
Use:
The linking machine is used to link 20MM cartridges with M3 or M10 links. Machine can also delink.

Description:
APE 3002A is a portable machine with a 1/4 horsepower motor, an ammunition tray, link chute, link loading wheel guide, ammunition feed assembly and two pushers. A special attachment is used to delink.

Difference Between Models:
Original design.

Tabulated Data:

<table>
<thead>
<tr>
<th>APE No.</th>
<th>30020000A</th>
</tr>
</thead>
<tbody>
<tr>
<td>Unit of Issue</td>
<td>Each</td>
</tr>
</tbody>
</table>

Installation Data:

<table>
<thead>
<tr>
<th>Length</th>
<th>55 in.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Width</td>
<td>48 in.</td>
</tr>
<tr>
<td>Height</td>
<td>34 in.</td>
</tr>
<tr>
<td>Weight</td>
<td>300 lbs</td>
</tr>
</tbody>
</table>

Utilities Required:
115 230 vac, 60 Hz, single phase.

Production Capacity:

<table>
<thead>
<tr>
<th>Length</th>
<th>66 in.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Width</td>
<td>60 in.</td>
</tr>
<tr>
<td>Height</td>
<td>28 in.</td>
</tr>
<tr>
<td>Cube</td>
<td>64 cu ft</td>
</tr>
<tr>
<td>Weight</td>
<td>400 lbs</td>
</tr>
</tbody>
</table>

Associated Equipment:

None.

Kits:

None.
Use:
The pull test machine is used to ascertain the pressure necessary to pull
the projectile from the cartridge case after crimping.

Description:
APE 3022 is made up of two units. The loading unit consists of a metal base,
four uprights an upper cross head assembly and a lower cross head
assembly. The indicating unit consists of a console with indicating gages,
controls and hydraulic pump inside the console.

Difference Between Models:
Original design.

Tabulated Data:
APE No. .................. 30220000
Unit of Issue ................. Each
Installation Data:
LOADING UNIT:
Length ...................... 24-1/4 in.
Width ....................... 14 in.
Height ...................... 84 in.
Weight ...................... 1800 lbs
INDICATING UNIT:
Length ...................... 41 in.
Width ....................... 22 in.
Height ...................... 67 in.
Weight ...................... 1100 lbs
Utilities Required:
   220 vac, 3 phase, 60 Hz.
Production Capacity:
   Not applicable.

Shipping Data:
LOADING UNIT:
   Length .................. 45 in.
   Width .................... 45 in.
   Height ................... 91 in.
   Cube ..................... 106.6 cu ft
   Weight ................... 2195 lb

INDICATING UNIT:
   Length ................. 42 in.
   Width .................. 45 in.
   Height ................ 74 in.
   Cube .................. 100 cu ft
   Weight .............. 1400 lbs

Associated Equipment:
   None.

Kits:
   3022E001 KIT, Pull Test M392A2 (L36A1) 105MM
APE 3041A—CLEANER, PORTABLE VACUUM

Use:
The vacuum cleaner is used with military ammunition oriented equipment for the pick up of explosive dusts and explosive material.

Description:
APE 3041A is a modified commercial type with enclosed filter. It cleans by suction only and is powered by a 5 horsepower motor. The unit is mounted on a four wheel cart.

Difference Between Models:
APE 3041A is a model PC-5 which was manufactured by United States Hoffman Machine Corporation of Syracuse, New York. This item is being replaced by APE 2043.

Tabulated Data:
APE No ......................... 30410000A
Unit of Issue .................. Each

Installation Data:
Length ....................... 84 in.
Width .......................... 25 in.
Height ......................... 72 in.
Weight ....................... 950 lbs
Utilities Required:
220/440 vac, 3 phase, 60 Hz.
Production Capacity:
Not applicable.

Shipping Data:
Length ....................... 88 in.
Width .......................... 29 in.
Height ......................... 80 in.
Cube ............................ 118 cu ft
Weight ....................... 1225 lbs

Associated Equipment:
APE 2042.

Kits:
None.
APE 3041B—CLEANER, PORTABLE VACUUM

Use:
The vacuum is used with military ammunition oriented equipment for the pick up of explosive dust and explosive material.

Description:
APE 3041B is a modified commercial type with enclosed filter. It cleans by suction only and is powered by a 5 horsepower motor. The unit is mounted on a three wheel cart.

Difference Between Models:
APE 3041B is a model P-5 which was manufactured by Allen Billmyre Corporation of South Norwalk, Connecticut. This item is being replaced by APE 2043.

Tabulated Data:
APE No. ................. 30410000B
Unit of Issue .......... Each

Installation Data:
Length .................. 67 in.
Width .................... 29 in.
Height ................... 70 in.
Weight ................... 875 lbs
Utilities Required:
220/440 vac, 3 phase, 60 Hz.
Production Capacity:
Not applicable.

Shipping Data:
Length .................. 72 in.
Width .................... 33 in.
Height ................... 78 in.
Cube ...................... 108 cu ft
Weight ................... 1175 lbs

Associated Equipment:
APE 2042.

Kits:
None.
Use:
The inspection booth is used to inspect and perform agent leak tests on chemical munitions during their unpack for P&P or maintenance. The inspection booth is designed to operate under a slight negative pressure. This prevents escape of the agent from the booths in the event a leaker is found during leak testing.

Description:
APE 5015M1 consists of a prefabricated, free standing steel structure. It is equipped with two personnel airlocks to maintain negative pressure inside the booth during personnel entry and egress. Two drench type showers are provided for decontamination of personnel. Chemical munitions are introduced into the booth by means of a sloped roller conveyor located on the far end of the booth. A .5 ton jib crane and electric hoist are provided for handling munitions inside the booth. Inspected munitions exit out of the front of the booth by means of an APE 1022M1 power conveyor. Both the munition input and output conveyor openings are fitted with airlocks to prevent escape of agent if leaking munitions are found. A negative pressure of .05 - .10 H can be maintained inside the booth during operations using three M6A1 gas particulate filters (filters are furnished by user). Required interior ventilation ducting is furnished with the booth.

Difference Between Models:
The APE 5105 booth differs from the APE 5015M1 in that the munition input conveyor is located on the right rear side of the booth instead of the back end of the booth. The 5015 booth is furnished with shower pans to collect contaminated shower water.
Tabulated Data:
APE No. 50150000M1
Unit of Issue Each
Installation Data:
  Length 29 ft
  Width 16 ft
  Height 9' 9" overall
  (9" inside, usable height)
  Weight (approx) 7500 lbs
Utilities Required:
  110 vac - 1 phase - 22 amps; 208 vac - 3 phase - 9 amps. Water from a 1" supply line.
Production Capacity:
  Not applicable.

Shipping Data:
  Length Not available
  Width Not available
  Height Not available
  Cube Not available
  Weight 9500 lbs

Associated Equipment:
  M6A1 electric particulate filters.

Kits:
  None.
Use:
The vise is hand operated, pneumatically powered vise designed to hold a 3, 4, 5 or 6 inch projectile in a vertical position.

Description:
APE 7007 consists of a power clamp assembly mounted on top of an open/back table assembly. An emergency trap door that is open while a base-ejection type projectile with expelling charge is clamped in the vise, and which is directly above a water-filled container, is mounted on the table top directly below the clamp jaws. Two hand-operated levers are mounted on the table top on either side of the clamp assembly.

Difference Between Models:
Original design.

Tabulated Data:
APE No. .......................... 70070000
Unit of Issue ....................... Each
Installation Data:
  Length ............................ 38 in.
  Width .............................. 33 in.
  Height ............................ 44 in.
  Weight ............................ 1015 lbs
Utilities Required:
Air at 2 cfm, 90 psi.

Production Capacity:
Not applicable.

Cube ....................... 36.0 cu ft
Weight .................... 650 lbs

Associated Equipment:
None.

Shipping Data:
Length .................... Not available
Width .................... Not available
Height .................... Not available

Kits:
None.
Use:  
The 5" projectile angular mounting vise is used to hold 5" projectiles for windshield assembly.

Description:  
APE 7014 consists of two circular jaws powered by a 5 inch stroke air cylinder. The vise is mounted at a 55 degree angle from horizontal on a steel table.

Difference Between Models:  
Original design.

Tabulated Data:  

<table>
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<th>70140000</th>
</tr>
</thead>
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<td>Each</td>
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<td>Installation Data</td>
<td></td>
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<tr>
<td>Length</td>
<td>48 in.</td>
</tr>
<tr>
<td>Width</td>
<td>30 in.</td>
</tr>
<tr>
<td>Height</td>
<td>48 in.</td>
</tr>
<tr>
<td>Weight</td>
<td>250 lbs</td>
</tr>
</tbody>
</table>
Utilities Required:
   Cube . . . . . . . . . . . . . . . . . . . 40.0 cu ft
   Air at 100 psi.
   Weight . . . . . . . . . . . . . . . . . . 250 lbs

Production Capacity:
   Not applicable.

Associated Equipment:
   None.

Shipping Data:
   Length . . . . . . . . . . . . . . . . . . . Not available
   Width . . . . . . . . . . . . . . . . . . . Not available
   Height . . . . . . . . . . . . . . . . . . . Not available

Kits:
   None.
Use:
The case crimper is used to crimp a plug into the 5"/38 and 5"/54 propelling charges. The crimper can also be used to pull plugs from the propelling charge cartridge cases.

Description:
APE 7019 consists of a base, movable platen and a crimping head assembly. The machine is operated by compressed air using a hydraulic circuit powered by an air over oil booster unit.

Difference Between Models:
Original design.

Tabulated Data:
APE No. ................. 70190000
Unit of Issue ............ Each
Installation Data:
  Length .................. 39-1/4 in.
  Width .................... 33-3/4 in.
  Height ................... 90 in.
  Weight ................... 2600 lbs
Utilities Required:
  Air at 100 psi.
Production Capacity:
200 per hour crimping.
125 per hour pull apart.

Shipping Data:
Length ................. 53 in.
Width .................. 57 in.
Height .................. 100 in.

Cube ..................... 175 cu ft
Weight ................... 3270 lbs

Associated Equipment:
None.

Kits:
None.
Use:
The impact testing fixture is used to impact test 5"/38 and 5"/54 propelling charges to assure proper securing of the plug to the cartridge case.

Description:
APE 7020 consists of a frame, a barrel assembly with a piston assembly for the impact testing and a cartridge case support for both the 5"/38 and 5"/54 propelling charges.

Difference Between Models:
Original design.

Tabulated Data:
APE No. . . . . . . . . . . . . . . . 70200000
Unit of Issue . . . . . . . . . . . Each
Installation Data:
   Length . . . . . . . . . . . . . . . . . 24 in.
   Width . . . . . . . . . . . . . . . . 26 in.
   Height . . . . . . . . . . . . . . . . . . 85-1/2 in.
   Weight . . . . . . . . . . . . . . . . . . 610 lbs
Utilities Required:
None.
Production Capacity:
60 per hour.

Cube . . . . . . . . . . . . . . . . . . . 74.0 cu ft
Weight . . . . . . . . . . . . . . . . . . . 1108 lbs

Associated Equipment:
None.

Shipping Data:
Length . . . . . . . . . . . . . . . . . . Not available
Width . . . . . . . . . . . . . . . . . . . Not available
Height . . . . . . . . . . . . . . . . . . . Not available

Kits:
None.
APE 7021M1—TESTER, BOMB FUZE CABLE

Use:
The bomb fuze cable tester consists of two units. The low voltage tester is used to make continuity tests on cable assemblies in bombs containing high explosives. The high voltage tester is used for continuity tests and electrical leakage tests on cable assemblies prior to insertion of the cable assembly into the loaded bomb.

Description:
APE 7021M1 consist of a low voltage tester, a high voltage tester, two cable inserting tools, a retaining clip removal tool, a lock ring inserting tool and a retaining clip insertion tool.

Difference Between Models:
APE 7021M1 redesigned high voltage tester which incorporates newer solid state circuitry.

Unit of Issue . . . . . . . . . Each
Installation Data:
Length . . . . . . . . . . . . . . . Not available
Width . . . . . . . . . . . . . . . Not available
Height . . . . . . . . . . . . . . . Not available
Weight . . . . . . . . . . . . . . . Not available
Utilities Required:
Leakage test voltage - 500 vdc. Low voltage - dry cell batteries 1.5 v.
Production Capacity:
Not available.

Shipping Data:
Length . . . . . . . . . . . . . . . Not available
Width . . . . . . . . . . . . . . . Not available
Height . . . . . . . . . . . . . . . Not available
Cube . . . . . . . . . . . . . . . Not available
Weight . . . . . . . . . . . . . . . Not available

Associated Equipment:
None.

Tabulated Data:
APE No. . . . . . . . . . . . . . 70210000

Kits:
None.

2-390(2-391 blank)
Use:
The Navy projectile vise is used to hold 3"/50, 5" and 6" projectiles while performing various assembly and disassembly operations. The vise may be removed from the cart and mounted on a table if required.

Description:
APE 7023M1 consists of the vise with six sets of jaws, nine nose adapters, two locating brackets and a cart assembly with a storage cabinet. The vise rotates 360 degrees and locks at 90 degree intervals.

Difference Between Models:
The APE 7023M1 was made with new components of welded and machined construction to replace cast components on the original design. It is now mounted on a cart and a cabinet is provided for storage of the jaws, adapters and brackets.
Tabulated Data:
APE No. 70230000M1
Unit of Issue Each
Installation Data:
VISE:
  Length 32 in.
  Width 14 in.
  Height 15 in.
  Weight 190 lbs
VISE AND CART:
  Length 62 in.
  Width 24 in.
  Height 43-1/2 in.
  Weight 600 lbs
Utilities Required:
  None.
Production Capacity:
  Not applicable.

Shipping Data:
Length 63 in.
Width 34 in.
Height 45 in.
Cube 62 cu ft
Weight 875 lbs

Associated Equipment:
  None.

Kits:
  7023E001 KIT, Jaw, M180 Demolition Kit
Use:
The projectile cavity drilling equipment is a pneumatically powered double-end cavity drill that is used to drill fuze cavities in the nose and/or base end of explosive loaded Army and navy projectiles.

Description:
APE 7025 consists of a drilling table assembly with a pneumatic drill unit positioned at each end and a holding fixture with a pneumatic clamp assembly in the center, which provide vertical pressure for holding a projectile during drilling operations. The nose end fixed drill assembly is bolted in place on the drilling table. An air cylinder, located under the base end of the drilling table, moves the base end sliding drill assembly back and forth. This action provides the horizontal force to hold a projectile during a drilling operation. Both drill assemblies are designed such that the rotational speeds of the quills cannot exceed the constrains of AMC-R-385-100. They are also designed to be connected to a vacuum system, which will collect the explosive as it is drilled from a projectile. The vacuum system is interlocked with the pneumatic system so the machine will not operate if the vacuum system is not operating. The machine is connected to a remote control console assembly by a pneumatic connector assembly, which permits a separation up to 100 feet between the machine and control console. Interchangeable large projectile handling components and small projectile handling components are furnished as parts for the cradle, positioner and clamp assemblies. The handling components are used to accommodate these assemblies for operations on the various sizes of projectiles.
The following projectiles are those for which this machine and its associated kits are designed:

a. Army - 90MM, 105MM, 4.2 inch 155MM and 8 inch;

b. Navy - 3 inch/50 caliber, 5 inch/38 caliber, 5 inch/54 caliber, 5 inch/47 caliber and 8 inch/55 caliber.

Difference Between Models:
Original design.

Tabulated Data:
APE No. ................. 70250000
Unit of Issue ............ Each

Installation Data:
DRILLING TABLE
ASSEMBLY:
Length .................... 150 in.
Width ....................... 34 in.
Height ...................... 60 in.
Weight ..................... 3000 lbs
Cube ....................... 177 cu ft
Floor space ............... 35.4 sq ft

CONTROL CONSOLE
ASSEMBLY:
Length .................... 30 in.
Width ....................... 23 in.
Height ...................... 38 in.
Weight ..................... 200 lbs
Cube ....................... 15.2 cu ft
Floor space ............... 5 sq ft

PNEUMATIC CONNECTION
ASSEMBLY:
Length .................... 100 ft

Utilities Required:
Air at 80 to 100 psi and 200 cu ft per minute minimum volume.

Production Capacity:
Approximate drilling time, 1 minute per 1 round.

Shipping Data:
Not available

Associated Equipment:
Vacuum draw-off system, 200 cubic feet per minute with suction of 6.0 inches of mercury.

Kits:
7025E001 KIT, 5"38 IR, 5/38" VT MK51 MOD, 5"/54 VT MK41 MOD 0 Cutter Head
7025E002 KIT, 5"/38 Recap Cutter Head
7025E003 KIT, 5"/38 HE-CVT MK66 and MK379 ADF Cutter Head
7025E004 KIT, 5"/54 MK64, MK65 and MK396 ADF Cutter Head
7025E005 KIT, 5"/54 AAC MK61 MOD 0 Cutter Head
7025E006 KIT, 5"/54 FCL VT MK73 and MK360, MK361 and MK362 VT
7025E007 KIT, 5"/54 and 5"/38 MK54 ADF Cutter Head
7025E008 KIT, Army Projectile Cutter Head
7025E009 KIT, 3"/50, 6"47 and 8"/55 MK44 and MK52 Cutter Head
7025E010 KIT, 5"/38 and 5"/54 MK83 cutter Head
7025E011 KIT, 3"/50, 6"/47 and 8"/55 MK54 and MK55 ADF Cutter Head
7025E012 KIT, Navy Base Fuze Cutter Head
7025E014 KIT, 90MM Army Setup Tooling
7025E015 KIT, 105MM Army Setup Tooling
7025E016 KIT, 155MM Army Setup Tooling
7025E017 KIT, 8 inch Army Setup Tooling
7025E018 KIT, 3 Inch Navy Setup Tooling
7025E019 KIT, 5"/38 and 5"/54 Navy Tooling
7025E020 KIT, 6 Inch Navy Setup Tooling
7025E021 KIT, 8 Inch Navy Setup Tooling
7025E022 KIT, 5"/54 Projectile Nose End Drill Bushing
7025E023 KIT, 5"/38, 6 Inch and 8 Inch Navy Projectile Nose End Drill Bushing
7025E024 KIT, 3"/50 and Army Projectile Nose End
7025E025 KIT, Thread Chaser (chases threads of all other kits)
7025E026 KIT, Mortar Set-up, Tooling 4.2 in.
Use:
The gas check seal press is used for inserting gas check seals into 5”/38, 5”/54 and 6”/47 Navy projectile bases.

Description:
APE 7026 is hydraulic operated, with worktable and holding fixtures for projectiles, and a hydraulic ram for pressure-forming copper gas check seals around the base fuzes. The press has a separate, free-standing hydraulic pump unit.

Difference Between Models:
Original design.

Tabulated Data:
APE No. ................. 70260000
Unit of Issue ............. Each
Installation Data:
PRESS:
Length .................. 36 in.
Width ................... 36 in.
Height ................... 84 in.
Weight ................... Not available
PUMP UNIT:
Length .................. 48 in.
Width .................... 41 in.
Height .................... 72 in.
Weight ..................... Not available

Utilities Required:
208 vac, 3 phase, 60 Hz.

Production Capacity:
Not available.

Shipping Data:
Length ..................... Not available
Width ...................... Not available
Height ..................... Not available
Cube ........................ Not available
Weight ...................... 3000 lbs

Associated Equipment:
None.

Kits:
None.
APE 7031—CART, PROJECTILE, NAVY

Use:
The projectile cart is used in plant movement of heavy munition items or components, especially Navy 5" and 6" projectiles.

Description:
APE 7031 is an aluminum fabricated cart with casters and brake. Bed of cart measures 25 inches by 50 inches.

Difference Between Models:
Original design.

Tabulated Data:
APE No. ................. 70310000
Unit of Issue .............. Each
Installation Data:
Length ...................... 57 in.

Utilities Required:
None.
Production Capacity:
Not applicable.

Shipping Data:
Length ...................... 62 in.
Width ...................... 32 in.
Height ...................... 42 in.
Cube ......................... 48 cu ft
Weight ...................... Not available

Associated Equipment:
None.

Kits:
None.
Use:
The disassembly machine is used to separate Navy 20MM projectiles from the cartridge case and dump the propellant. The machine removes the rounds from the shipping tubes before the breakdown process.

Description:
APE 7033 consists of a base assembly, presser arm assembly, stripper idler assembly, breakoff assembly and air assembly. The operation is automatic.

Difference Between Models:
Original design.

Tabulated Data:
APE No. ..................... 70330000
Unit of Issue ................. Each

Installation Data:
Length ...................... 4 ft
Width ....................... 3 ft
Height ...................... 6 ft
Weight ..................... 800 lbs
Utilities Required:
Air at 90 psi.
Production Capacity:
180 rounds per minute.

Shipping Data:
Length ...................... Not available
Width ....................... Not available
Height ...................... Not available
Cube ........................ Not available
Weight ..................... Not available

Associated Equipment:
None.

Kits:
None.
Use:
The defuze-deplug machine is a remotely operated horizontal double spindle machine designed to remove the nose fuze, adapter with auxiliary detonating fuze, base fuze, and base plate with fuze from Navy medium caliber ammunition (3-inch/50 caliber, 5-inch/38 caliber, 5-inch/54 caliber, and 6-inch/47 caliber projectiles), also the nose fuze from Army 76MM, 90MM, and 105MM projectiles.

Description:
The APE 7040 is computer programmed and a variety of programs are available for the different combinations of projectile sizes and fuze combinations. The machine has two work stations designated SIDE A and SIDE B. This allows the loading of two projectiles on the machine and simultaneously removes fuzes from both projectiles. The APE 7040 consists of five components each with a separate function and interfaced together by hose and cable assemblies which supply the pneumatic, electrical, and hydraulic power needed to operate the machine from the controller assembly. Various tooling has been prepared in lieu of kits. The user should specify projectile models and operations to be performed; the proper tooling will be fitted to the machine prior to shipment. The major functional components of the APE 7040 are:
a. The power systems which include pneumatic, electrical, and hydraulic systems.

b. The controller assembly, which is computer programmed and governs the application of the power systems inputs and outputs of the other major functional components to integrate and sequence their functioning. Included on the controller assembly are the controls to remotely operate the machine in manual, or auto mode.

c. The hydraulic power unit assembly, which provides the power to all the hydraulic valves and the two hydraulic motors that drive the spindles and removes the fuzes from the projectile.

d. The air dryer assembly, which provides clean dry air to the machines pneumatic components.

e. The intrinsically safe valve cabinet assembly, which houses the air solenoid valves that pilot the hydraulic valves and sequence their functioning on the machine.

Difference Between Models:
Original design.

Tabulated Data:
APE No. 70400000
Unit of Issue Each

Installation Data:
BASIC:
Length 112 in.
Width 115 in.

Weight .................. 58 in.

CONTROLLER ASSEMBLY:
Length ............... 60 in.
Width ................. 33 in.
Height ............... 56 in.
Weight .................. Not available

HYDRAULIC POWER UNIT:
Length ............... 65 in.
Width ................. 67 in.
Height ............... 83 in.
Weight .................. Not available

AIR DRYER ASSEMBLY:
Length ............... 12 in.
Width ................. 12 in.
Height ............... 70 in.
Weight .................. Not available

SAFE VALVE CABINET
ASSEMBLY:
Length .................. 21 in.
Width .................. 31 in.
Height .................. 37 in.
Weight .................. Not available

Utilities Required:
Air at 85–95 psi and 18 cfm;
440 vac, 3 phase, 100 amp.
Production Capacity:
5 minutes per projectile.

Shipping Data:
Length .................. Not available
Width .................. Not available
Height .................. Not available
cube .................. 400 cu ft
Weight .................. 14000 lbs

Associated Equipment:
None.

Kits:
None.
Use:
APE 7041M1 is designed to stake an auxiliary detonating fuze (ADF) to a fuze adapter for use in Navy projectiles. The machine is used to stake the following ADFs and adapters: 2.65 inch external thread diameter adapter (Drawing No. 434045) to ADFs model numbers MK54 MOD 2 (Drawing No. 490100) and MK89 MOD 0 (Drawing No. 180359); 2.35 inch external thread diameter adapter (Drawing No. 434054) to ADFs model numbers MK43 MOD 0 & 1 (Drawing No. 394538), MK54 MOD 0 & 1 (Drawing No. 438127), and MK55 MOD 0 & 1 (Drawing No. 438127); 2.20 inch external thread diameter adapter (Drawing No. 2838990) to ADF model number MK54 MOD 2 (Drawing No. 2838991).

Description:
APE 7041M1 consists of: A hydraulic press staking machine, with inching wheel; A pneumatically operated precision work holder which retains and aligns the ADF and its adapter to within 0.002 inch diameter; The staking head which stakes the fuze body into the adapter; A hydraulic/pneumatic control assembly which interfaces between the hydraulic operated...
staking machine and the pneumatically operated work holder assembly to insure that the work holder is engaged before the staking machine can function and that the staking operation is complete before the work holder can be disengaged.

Difference Between Models:
The bench press of the APE 7041 has an 18 inch daylight opening. The bench press of the APE 7041M1 has a 20 inch daylight opening. The pneumatic controls for the APE 7041M1 were changed to incorporate model changes in the manufacturer’s components.

Tabulated Data:
APE No. ................. 70410000M1
Unit of Issue ............. Each
Installation Data:
   Length .................... 37-1/2 in.
   Width ..................... 32-3/4 in.
   Height ................... 83-5/8 in.
   Weight ................... 1620 lbs

Floor space ............... 8.5 sq ft
Cube ..................... 59.4 cu ft
Utilities Required:
   230/460 vac, 3 phase, 60 Hz;
   air at 90 psi; water at 45 psi.
Production Capacity:
   120 per hour.

Shipping Data:
Length .................... Not available
Width ..................... Not available
Height ................... Not available
Cube ..................... Not available
Weight ................... Not available

Associated Equipment:
None.

Kits:
7041E001 KIT, Igniter Remover Demil-
tarization of M180 Demolition
Kit
7041E002 KIT, Staking, Expulsion Charge
Cup, 155MM (M483) Ogive
Use:
The gas check gasket removal machine is used to cut the gas check gasket for removal from the projectile.

Description:
APE 7042 is a horizontal, manually-operated, air-driven machine that locates and clamps a projectile in a cradle vise to prevent its rotation during the cutting cycle. The cutting head, powered by an air motor, is designed to enable the operator to align the hole pins of the locking head with the in holes of the projectile base fuze or base fuze hole plug.

Difference Between Models:
Original design.

Tabulated Data:
APE No. ....................... 70420000
Unit of Issue ................. Each

Installation Data:
Length ....................... 48 in.
Width ....................... 24 in.
Height ..................... 44 in.
Weight .................... 458.5 lbs
Utilities Required:
Air at 90 psi and 30 cfm.

Production Capacity:
Not available.

Associated Equipment:
None.

Shipping Data:
Length . . . . . . . . . . . . . Not available
Width . . . . . . . . . . . . . Not available
Height . . . . . . . . . . . . . Not available

Kits:
None.
Use:
The link delink machine is designed to link or delink 20MM ammunition belts containing M50 configuration ammunition with MK7 links.

Description:
APE 7043 consists of the following major assemblies:

a. The table frame assembly which provides an operational table for linking/delinking and structural support.

b. The drum assembly, grooved to accept the 20MM cartridge and with the guidance provided by the adjustable cartridge guide assembly that conveys the cartridge and links through the operational link/delink assembly.
c. The electrical assembly which includes a 3/4 horsepower motor that drives a series of gears, sprockets, chains, pulleys and belts.

d. The pneumatic assembly which includes a pneumatic clutch that will stall-out the drum assembly when the torque loads become excessive.

e. A 20MM ammunition conveyor assembly which has color coded trays for ratio-packing, and delivers ammunition to the machine for the linking operation.

Difference Between Models:
Original design.

Tabulated Data:
APE No. 70430000
Unit of Issue Each
Installation Data:
LINK/DELINK ASSEMBLY:
Length 4 ft 3 in.
Width 4 ft 2 in.
Height 3 ft 10-1/2 in.
Weight Not available
CONVEYOR ASSEMBLY:
Length 12 ft 8 in.
Width 2 ft
Height 3 ft 10-3/8 in.

Weight ............... Not available
LINK/DELINK ASSEMBLY
ASSEMBLY:
Length ............... 16 ft
Width ............... 4 ft 5 in.
Height ............... 3 ft 10-3/8 in.
Weight ............... 2763 lbs
Floor space ........... 71 sq ft
Utilities Required:
120 vac, 60 Hz, 25 amp; air at 80 psi and 25 cfm.
Production Capacity:
Not available.

Shipping Data:
Length ............... Not available
Width ............... Not available
Height ............... Not available
Cube ............... Not available
Weight ............... Not available

Associated Equipment:
None.

Kits:
7043E001 KIT, MK 2 Linking
7043E002 KIT, MK 2 Delinking
7043E003 KIT, MK 6 Linking
7043E004 KIT, MK 6 Delinking
7043E005 KIT, M14 Linking
7043E006 KIT, M14 Delinking
Use:
The cartridge machine is used to seat 106MM projectile, HEAT M344A1, in the 106MM M93B1 cartridge case.

Description:
The APE 7057 is a vertical, pneumatically powered and controlled cartridge assembly machine.

Difference Between Models:
Original design.

Tabulated Data:
APE No. .......................... 70570000
Unit of Issue ........................ Each
Installation Data:
  Length .......................... 22 in.
  Width .......................... 30 in.
  Height .......................... 84 in.
  Weight .......................... 425 lbs
Utilities Required:
   Air at 90 psi and 25 cfm.
Production Capacity:
   400 per 8 hour shift (estimate)

Shipping Data:
   Length .................. 30 in.
   Width ................... 36 in.
   Height .................. 90 in.

Associated Equipment:
   Approved barricade.

Kits:
   None.

Cube ..................... 56 cu ft
Weight .................... 500 lbs
Use:
The defusing machine is used to remove base fuzes, nose fuzes and an auxiliary adapter, from 8"/55 and 16"/50 Navy projectiles.

Description:
APE 7066 consists of a base plate and three columns; an upper table that can be elevated or lowered to a desired height, with three screw jactuators, for base or nose fuze removal; a table which is elevated or lowered, using an air-driven hydraulic pump for clamping the projectile; four lever-operated valves to manually control machine functioning; and a pedestal-mounted control panel used for remote machine control.

Difference Between Models:
Original design.

Tabulated Data:
APE No. ................. 70660000
Unit of Issue ............ Each
Installation Data:
MACHINE:
Length .................. 60 in.
Width ................. 49 in.
Height ................. 119 in.
Cube .................. 202 cu ft
Weight (est) ............ 3200 lbs
Floor space ............ 20 sq ft
AMMUNITION CART:
   Length .................... 54 in.
   Width .................... 36 in.
   Height .................... 50 in.
   Cube .................... 56.25 cu in.
   Weight (est) ............ 525 lbs

Utilities Required:
   Air at 100 psi and 80 cfm; 110 vac,
   60 Hz, single phase, 20 amp.

Production Capacity (est):
   2 rounds per hour.

Shipping Data:
MACHINE:
   Length .................... 66 in.
   Width .................... 54 in.

AMMUNITION CART:
   Height .................... 125 in.
   Cube .................... 257 cu ft
   Weight .................... 3550 lbs

Associated Equipment:
APE 7067, 7068.

Kits:
   7066E001 KIT, for Removing Fuze from 8"/55
Use:
The swing brush machine is used to clean and derust 16"/50 MK13, MK14, and MK8 Navy projectiles.

Description:
APE 7067 consists of a base plate, four trunnion rollers, a support roller to cradle the projectile during cleaning and derusting processes, a Tol-o-matic cylinder to traverse the swing brush longitudinally along the projectile, and a dust collector system.

Difference Between Models:
Original design.

Tabulated Data:
APE No. ......................... 70670000
Unit of Issue .................. Each

Installation Data:
Length ......................... 90 in.

Utilities Required:
Air at 100 psi and 80 cfm; 220 vac, 3 phase.
Production Capacity:
Depends on condition of item being cleaned or de-rusted.

Shipping Data:
Length ................. 96 in.
Width ................. 92 in.
Height ................. 96 in.
Cube .................. 490 cu ft
Weight ................. 2500 lbs

Associated Equipment:
None.

Kits:
1105E001 KIT, Dust Collector
Use:
The renovation tools are used to manually renovate Navy gun ammunition.

Description:
APE 7068 consists of forty-nine separate tooling items, required for use on renovation of Navy gun ammunition. These tooling items are standardized as APE component assemblies to the APE 7068, but will not be issued as a complete end item.

Difference Between Models:
Original design.

Assemblies:
- 7068A001 Torque Wrench Adapter for Projectile Adapter 434045 used on 5"/38, 6"/47, 8"/55 and 16"/45-50
- 7068A002 Pick, Explosive "D" Thread Cleaning (All projectiles)
- 7068A003 Nose, Fuze Adapter Wrench (Vise Grip) for 5"/38, 6"/47 SP, 16" and 8"/55 Projectiles
- 7068A004 ADF Staking Tool for 3"/50, 5"/38-54, 6"/47 SP - 47 DP, 8"/55, and 16"/45-50
- 7068A005 ADF Stake Removal Tool for 3"/50, 5"/38-54, 6"/47 DP, 8"/55, and 16"/45-50
- 7068A006 Tracer/Tracer Cavity Plug Removal Tool
- 7068A007 Wrench, Install/Remove Projectile Adapters on 5"/38, 6"/37 SP, 8"/55, and 16"/45-50
- 7068A008 ADF Holder, Install/Remove Projectile Adapter on 3"/50, 5"/38, and 5"/54
- 7068A009 Torque Wrench Adapter for Torquing mk31/MK83 BDF and Base Fuze Hole Plugs to 5"/38
- 7068A010 Sealing Cup Removal Tool for 3"/50, 5"/38, and 5"/54 SCs Not Having Soldered Cover Discs or are Stuck
- 7068A011 Sealing Cup Removal Tool for 3"/50, 5"/38, and 5"/54 During SC Replacement Procedures
- 7068A012 Wrench, Remove, Install and Torque ADF Body Plug in Projectile Adapters on 3"/50, 5"/38, and 5"/54
- 7068A013 Wrench, MK2 Spanner, Remove Waterproof Protective Cap from 5"/38 and 5"/54
- 7068A014 Wrench, Install/Remove MK29 or MK66 PDF on 5"/38 and 16"/50
- 7068A015 Wrench, Remove/Install Dummy Nose Plug in 16" Projectile
- 7068A016 Gas Check Seal Installation Tool for 16"/50
- 7068A017 Trunnion Band, for Handling 16"/50 Projectiles
- 7068A018 Tool, Lipping, for Repairing Minor Dents on 16"/50 Rotating Band
- 7068A019 Reamer,Resize Base Fuze Cavity
- 7068A020 Sling, for Handling 16"/50 Projectiles
- 7068A021 Adapter, Remove, Install/Torque MK29 or MK30 PD Fuze
- 7068A022 Heating Device, Remove Windshields from 5", 6", and 8" Projectiles
- 7068A023 Holding Fixture, Holds Projectile Adapters in 5", 6", and 8" Projectiles During Fuze Installation/Removal
- 7068A024 Fixture, Spinning, for Painting and Stripping 3", 105MM, 5"/38, 5"/54, and 6" Projectiles
- 7068A025 Wrench, Remove MK393-0 MT/PD Fuze from 5"/54 Projectile
- 7068A026 Wrench, Set Sleeve on MK15, MK18, MK22, MK11, M1907, and MK57-1 Time Fuzes
- 7068A027 Torque Adapter, for Torquing MK29 PD Fuze to 5"/38 Projectile
- 7068A028 Holding Fixture, Holds ADF During Removal/Installation of Projectile Adapter on 3"/50, 5"/38, and 5"/54
- 7068A029 Holding Fixture, for Staking ADF and Holding ADF/Adapter during Installation/Removal of PDF on 3"/50, 5"/38, and 5"/54
- 7068A030 Tool, Install/Remove Body Plug in ADF during SCA Replacement on 3"/50, 5"/38, and 5"/54
Adapter, Torque CFT Fuze Windshield on 5"/38 and 5"/54

Wrench, Remove/Install CVT Fuze Windshield on 5"/38 and 5"/54

Adapter, Torque Fuze Adapter or Dummy Nose Plug to 3"/50 and 5"/38 Projectiles

Wrench, Remove/Install Fuze Cavity Liner in 3"/50, 5"/38, and 5"/54

Wrenches, Remove/Install Nose Fuze, Base Plug, and Waterproof Protective Cap on 5"/38

Wrench, Remove 3", 5", and 6" Cartridge Tank Lid

Wrench, MK3-0, Remove Waterproof Protective Cap from 5"/38 and 5"/54 Projectiles

Wrench, Remove/Install 5"/38 Common Windshield

Adapter, Wrench, Remove/Install 5"/38 Adapter Assembly

Wrench, Set Fuzes on 5"/38 and 5"/54 Projectiles

Tool, Press Gas Check Seals on 5"/38 and 5"/54

Wrench, Remove MK66 PD Fuze from 5" Ammunition

Wrench, Remove/Install Lids on 5" MK6, Class 2, Type 2 Cartridge Tanks

Tool, Remove Pyralin/Plastic/Polyethylene Wads from 3", 5", and 6" Propelling Charges

Wrench, Remove Tracer/Base plug from MK27 and MK29 3"/50 and MK34 3"/70 BL and P/T Projectile

Tool, Lipping, for Repairing Minor Dents on Medium Caliber Rotating Bands

Wrench, Install BDFs MK20, 21, 28, 31, 48, 64 and Tracer Adapter 434100

Adapter, Holds Adapter 2494081 while Assembling M514A1 CVT Fuze-MK357-362, MK365-367, MK369-371

Socket, Assemble and Torque Holding Ring to CVT Fuze and Adapter MK357-362, MK365-367, MK369-371
Use:
The projectile weighing scale is used to weigh renovated 16"/50 projectiles and other munitions to meet the accuracy requirements of the applicable DMWRS.

Description:
APE 7069 is a commercial platform scale. The scale has the capacity and tare functions needed to weigh items up to 4500 pounds. The dial indicates 0 to 2000 pounds. Use of the tar poise and capacity poise permits the scale to weigh up to the 4500 pound level.

Difference Between Models:
Original design.

Tabulated Data:
APE No. ................. 70690000
Unit of Issue ............ Each
Installation Data:
SCALE:
Length .................. 70 in.
Width .................... 52-3/4 in.
Height ................... 72-5/8 in.
Weight ................... Not available
SCALE MOUNTED ON PALLET:
Length .................. 93 in.
Width .................... 59 in.
Height ................... 78-1/2 in.
Weight ................... 1432 lbs
Utilities Required: None.
Production Capacity: Not applicable.

Shipping Data:
Length .................. 85 in.
Width .................... 59 in.
Height ................... 48 in.
Cube ...................... 139 cu ft
Weight ................... 1827 lbs

Associated Equipment:
None.

Kits:
None.
Use:
The projectile vise is used to hold and restrain the movement of a 16"/50 projectile. The vise is used while applying the torque required to seat the adapter subassembly (adapter and auxiliary detonating fuze) to the projectile nose container.

Description:
APE 7070 consists of a table, two vise jaws and a vise jaw support. Guide rails on the aluminum table top are used to roll the projectile into position in the jaws and then to roll the projectile from the vise table. The upper and lower jaws are operated by two air cylinders activated by a foot air valve. The upper jaw support can be lowered for use with the accessory, 7070E001 kit.

Difference Between Models:
Original design.

Tabulated Data:
APE No. ............... 70700000
Unit of Issue ........... Each
Installation Data:
  Length . . . . . . . . . . . . . . . . 50 in.
  Width . . . . . . . . . . . . . . . . . 36 in.
  Height . . . . . . . . . . . . . . . . 78 in.
  Weight . . . . . . . . . . . . . . . 790 lbs

Utilities Required:
  Air at 100 psi.

Production Capacity:
  Not applicable.

Shipping Data:
  Length . . . . . . . . . . . . . . . . . Not available

Width . . . . . . . . . . . . . . . . . Not available
Height . . . . . . . . . . . . . . . . . Not available
Cube . . . . . . . . . . . . . . . . . Not available
Weight . . . . . . . . . . . . . . . . . Not available

Associated Equipment:
  None.

Kits:
  7070E001 KIT, 8 Inch Projectile
Use:
The gas check seal press is used to press a gas check seal into the gas check groove on the base end of a 16"/50 H.C. projectile.

Description:
APE 7071 consists of a base that accommodates the nose end of the projectile; a press frame that sits on the base of the projectile and supports the gas check tool; two legs that provide the distance needed to mount the press frame above the projectile; and a hydraulic cylinder for operation of the press.

Difference Between Models:
Original design.

Tabulated Data:
APE No. .................... 70710000
Unit of Issue: Each

Installation Data:
- Length: 40 in.
- Width: 40 in.
- Height: 99 in.
- Weight: 1462 lbs

Utilities Required: None.

Production Capacity: Not applicable.

Shipping Data:
- Length: Not available
- Width: Not available
- Height: Not available
- Cube: Not available
- Weight: Not available

Associated Equipment: None.

Kits:
- 7071E001 KIT, 16"/50 A.P. Projectile Gas Check Seal Press
APE 7072--CARRIER, 16"/50 PROJECTILE, HC AND AP

Use:
The projectile carrier is used to carry a 16"/50 H.C. and A.P. projectile in a vertical or horizontal position. The carrier is secured around the projectile and suspended from an appropriately load tested lifting device.

Description:
APE 7072 consists of the yoke assembly that encircles and holds the projectile. The yoke and projectile are lifted by attachment of a lifting device to either the horizontal lifting eye on the yoke or the wire rope vertical lifting assembly that attaches to the yoke.

Difference Between Models:
Original design.

Tabulated Data:
APE No. . . . . . . . . . . . . . . . . 70720000
Unit of Issue . . . . . . . . . . Each

Installation Data:
Length . . . . . . . . . . . . . . 17-1/2 in.
Width . . . . . . . . . . . . . . 22 in.
Height . . . . . . . . . . . . . . 78 in.
Weight . . . . . . . . . . . . . . 136 lbs
Utilities Required: None.
Production Capacity: Not applicable.

Cube: Not available
Weight: Not available

Associated Equipment: None.

Shipping Data:
Length: Not available
Width: Not available
Height: Not available

Kits:
7072E001 KIT, 16"/50 A.P. Projectile Carrier
Use:
The propellant settling device is designed to settle propellants to the correct (PPD) production picking depth for Navy cartridge cases:

- 76MM/62 Caliber
- 3"/50 Caliber
- 5"/38 Caliber
- 5"54 Caliber
- 6"/47 Caliber
- 8"/55 Caliber

Description:
APE 7073 is seven feet tall, consisting of a propellant hopper that can be raised and lowered. A jaw and shoe assembly holds the cartridge case in place during filling operations. A timer located on the frame of the device controls the length of time each cartridge case is vibrated to settle the propellant.

Without difficulty. The device is pneumatically operated creating no explosive problems when operated in an explosive dust environment.

Designed for assembly line operations, but capable of filling a single cartridge case.
Difference Between Models:
Original design.

Tabulated Data:
APE No. . . . . . . . . . . . . . . . . . 70730000
Unit of Issue .............. Each
Installation Data:
   Length (Base) . . . . . . . . . . . . . . 37-1/2 in.
   Width (Base) . . . . . . . . . . . . . . 37-1/2 in.
   Height (with hopper attached - minimum) . . . 96 in.
   Weight . . . . . . . . . . . . . . . . . Not available
   Floor Space . . . . . . . . . . . . . . . 63 cu ft
Utilities Required:
   Not available
Production Capacity:
   200 cartridge cases per 8 hour shift

Shipping Data:
   Length . . . . . . . . . . . . . . . . . Not available

Width . . . . . . . . . . . . . . . . . Not available
Height . . . . . . . . . . . . . . . . . Not available
Cube . . . . . . . . . . . . . . . . . Not available
Weight . . . . . . . . . . . . . . . . . Not available

Associated Equipment:
   Air compressor
   Conveyor

Kits:
   7073E001 KIT for 5"/38 and 5"/54 Cartridge Cases
   7073E002 KIT for 6"/47 Cartridge Cases
   7073E003 KIT for 76MM Cartridge Case
   7073E004 KIT for 3"/50 Cartridge Case

NOTE
The jaw/shoe assembly for the 8"/55 cartridge case is not a kit, but a basic part of the machine to which the other kits can be attached.
Use:
The continuity test fixture is used to check the continuity of 5" Zuni rocket motors. The continuity testing is done remotely from behind a substantial dividing wall.

Description:
APE 7074 consists of the machine frame, two clamping cylinders and clamping fixtures, rocket motor positioning fixture, two hydraulic reservoirs, continuity test probes and cylinder, remote control panel w/continuity tester, exhaust fixture and pneumatic controls.

Difference Between Models:
Original design.

Tabulated Data:
APE No. .................. 70740000
Unit of Issue .............. Each
Installation Data:
  Length .................. 117 in.
  Width .................... 12 in.
  Height .................. 25 in. (min)
  Cube ..................... 20.3 cu ft
  Weight ................... 900 lbs
Utilities Required:
  Air at 60 psi.
Production Capacity:
Not available.

Cube . . . . . . . . . . Not available
Weight . . . . . . . . . Not available

Associated Equipment:
None.

Shipping Data:
Length . . . . . . . . . Not available
Width . . . . . . . . . . Not available
Height . . . . . . . . . . Not available

Kits:
None.
Use:
The projectile gas check press is designed for the purpose of installing gas check gaskets on projectile base of fuzes of 5"/54 Navy projectiles which have the dummy nose plug or nose fuze removed. The APE 7076 is a replacement for the APE 7026.

Description:
APE 7076 is composed of a double acting hydraulic cylinder, a hydraulic pump unit, a nose adapter and a projectile support bracket assembly that position each projectile in alignment with the hydraulic ram. Two pins, one for each side of the machine table frame, for positioning the press bed at the elevation required. Copper gas check gaskets are pressure conformed around the base fuze of projectiles by pressure exerted through machine ram. The gas check head assembly on the hydraulic cylinder ram is of a self-centering type that allows it to center on the projectile. Two punches are available for installing either 1.50 inch or 2.00 inch type gaskets.

Difference Between Models:
Original design.

Tabulated Data:
APE No. ............... 70760000
Unit of Issue ........... Each

Installation Data:
Length ............... 40-1/2 in.
Width ............... 30 in.
Height ............... 76 in.
Weight ............... Not available

Utilities Required:
Not available.

Production Capacity:
Not available.

Shipping Data:
Length ............... Not available
Width ............... Not available
Height ............... Not available
Cube ............... Not available
Weight ............... Not available

Associated Equipment:
None.

Kits:
7076E001 KIT, 6"/47 Projectile, Unfuzed
7076E002 KIT, 5"/38 Projectile, Unfuzed
7076E003 KIT, 5"/54 and 6"/47 Projectile, Fuzed

NOTES
Where there is a requirement for installing gas check gaskets on projectile base fuzes of 6"/47 Navy projectiles which have the dummy nose plug or nose fuze installed, APE 7076E001 and APE 7076E003 must be used together.
Use:
The defuze-deplug machine is used to remove fuzes, plugs, or adapters from medium caliber projectiles in a remote operation.

Description:
APE 7079 consists of the defuzing-deplugging machine that accommodates projectiles in the vertical position. A lift bed raises the projectile, clamped in a vise, into proximity of the tool holder. The hydraulically operated tool holder, fitted with tooling appropriate to the removal task being performed, engages the fuze/plug and rotates at a predetermined speed to remove fuze/plug. The machine is powered by a hydraulic power unit equipped with door interlock switches, and operated from a hydraulic control panel located remotely from the machine.

Difference Between Models:
Original design.
Tabulated Data:
APE No. 70790000
Unit of Issue Each
Installation Data:
DEFUZER/DEPLUGGER:
  Length 48 in.
  Width 36 in.
  Height 106 in.
  Weight Not available
CONTROL PANEL:
  Length 40 in.
  Width 20 in.
  Height 66 in.
  Weight Not available
HYDRAULIC POWER UNIT:
  Length 60 in.
  Width 52 in.
  Height 54 in.
  Weight Not available
Utilities Required:
  220/440 vac, 60 Hz, 3 phase.

Production Capacity:
Not available.

Shipping Data:
5 CRATES:
  Length Not available
  Width Not available
  Height Not available
  Cube Not available
  Weight Not available

Associated Equipment:
None.

Kits:
7079E002 KIT, M55 Chemical Rocket Warhead Fuze Removal
7079E002 KIT, M55 Chemical Rocket Warhead Adapter Removal
CHAPTER 3
NONSTANDARD AMMUNITION PECULIAR EQUIPMENT

Nonstandard APE are approved, locally designed and fabricated tools, jigs and fixtures used to supplement standard APE in ammunition operations.

The following listing includes the nonstandard APE in sequence according to the designated ammunition item and component that it supports. The listing also includes the assigned non-standard APE number, nomenclature, description or purpose, and the drawing photo or sketch numbers of the installation designing the item.

<table>
<thead>
<tr>
<th>AMMUNITION ITEM AND COMPONENT</th>
<th>NON-STANDARD APE NO.</th>
<th>NOMENCLATURE – DESCRIPTION OR PURPOSE</th>
<th>DESIGN ACTIVITY IDENTIFICATION NO.</th>
</tr>
</thead>
<tbody>
<tr>
<td>FSC 1305 Small Arms Ammu-</td>
<td>0223</td>
<td>FIXTURE, DEMILITARIZATION - remove</td>
<td>Savanna Depot Activity AMXSV-7512A</td>
</tr>
<tr>
<td>nition thru 30MM Component – Complete Round or Item</td>
<td>control, air operated fixture used to demil cartridge 30MM T.P. Operation is viewed by use of mirrors.</td>
<td></td>
<td></td>
</tr>
<tr>
<td>FSC 1305 Small Arms Ammu-</td>
<td>0258</td>
<td>TRASH SEPARATOR - used to separate</td>
<td>Red River Army Depot AMXRR – 6712F</td>
</tr>
<tr>
<td>nition thru 30MM Component - Work Tables, Benches, Etc</td>
<td>trash from small arms ammunition field returns</td>
<td></td>
<td></td>
</tr>
<tr>
<td>FSC 1305 Small Arms Ammu-</td>
<td>0538</td>
<td>PULL APART ATTACHMENT, CARTRIDGE 30MM GAU 9/A - used in conjunction with APE 1001M1 vertical pull apart machine to pull apart 30MM cartridge for reclamation of the propellant for air force use</td>
<td>Anniston Army Depot ANAD 0538</td>
</tr>
<tr>
<td>nition thru 30MM Component - Links, Belt, Clips</td>
<td>0614</td>
<td>MACHINE, MAGNET SORTING - used to separate ferrous and non-ferrous metal from deactivation furnace</td>
<td>Reserve Storage Activity Miesau RSAM A-410</td>
</tr>
<tr>
<td>FSC 1305 Small Arms Ammu-</td>
<td>0552</td>
<td>TABLE, SMALL ARMS AMMUNITION PULL TEST - used to pull test belted 7.62MM small arms ammunition</td>
<td>McAlester Army Ammunition Plant McAlester Dwg D-1917</td>
</tr>
<tr>
<td>nition thru 30MM Component -</td>
<td>0086</td>
<td>TABLE, PULL TEST - used to perform pull testing of linked metallic belts of various small arms ammunition</td>
<td>Naval Ammunition Production Engr Center NAPEC SK-466</td>
</tr>
<tr>
<td>ANMUNITION ITEM AND COMPONENT</td>
<td>NON-STANDARD APE NO.</td>
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</tr>
<tr>
<td>FSC 1305 Small Arms Ammunition thru 30MM Component - Links, Belt, Clips -- Continued</td>
<td>0143</td>
<td>EXTRACTOR, LINKED BELT - used to break continuous linked metallic belts of caliber .30 ammunition into proper lengths</td>
<td>Letterkenny Army Depot AMXLE-6905A</td>
</tr>
<tr>
<td>0144</td>
<td>EXTRACTOR, LINKED BELT - used to break continuous linked metallic belts of caliber .50 ammunition into proper lengths</td>
<td>Letterkenny Army Depot AMXLE-6905B</td>
<td></td>
</tr>
<tr>
<td>0157</td>
<td>PACKING TEMPLATE - used to arrange caliber .30 ammo (linked) in proper orientation for packing in ammunition box</td>
<td>Letterkenny Army Depot AMXLE-7008A</td>
<td></td>
</tr>
<tr>
<td>0412</td>
<td>DELINKER, SINGLE ROUND - used for removing a caliber .50 round from linked belts of caliber .50 in M15A2 links</td>
<td>Red River Army Depot AMXRR-6704E</td>
<td></td>
</tr>
<tr>
<td>0438</td>
<td>ROUND COUNTER, CALIBER .50 IN M2 LINKS - used to assure that 100 rounds of caliber .50 ammunition are in a linked unit for packing</td>
<td>Red River Army Depot AMXRR-6903A Local Dwg 1010153</td>
<td></td>
</tr>
<tr>
<td>0439</td>
<td>ROUND COUNTER, CALIBER .50 IN M15A2 LINKS - used to assure that exactly 90 rounds of caliber .50 ammunition are in a linked unit for packing</td>
<td>Red River Army Depot AMXRR-6903B Local Dwg 10110152</td>
<td></td>
</tr>
<tr>
<td>0442</td>
<td>DECLIPPING ATTACHMENT, CARTRIDGE 7.62MM - augments APE 1114 machine to declip 7.62MM ammunition</td>
<td>McAlester Army Ammunition Plant McAlester Dug</td>
<td></td>
</tr>
<tr>
<td>0448</td>
<td>TABLE, PULL TEST - used to perform pull testing of linked metallic belts of various small arms ammunition</td>
<td>Red River Army Depot SDSRR-7801A</td>
<td></td>
</tr>
<tr>
<td>0454</td>
<td>MACHINE, LINK FEED - used in conjunction with APE 1259 or 1114 to expedite feeding of links for cartridge 7.62MM</td>
<td>Umatilla Depot Activity AMXMU-7203A</td>
<td></td>
</tr>
<tr>
<td>0520</td>
<td>LINKER, HAND, SINGLE ROUND, CALIBER .50 - used to link individual rounds of caliber .50 in M9 links</td>
<td>Savanna Depot Activity AMXSV-6704B</td>
<td></td>
</tr>
<tr>
<td>AMMUNITION ITEM AND COMPONENT</td>
<td>NON-STANDARD APE NO.</td>
<td>NOMENCLATURE - DESCRIPTION OR PURPOSE</td>
<td>DESIGN ACTIVITY IDENTIFICATION NO.</td>
</tr>
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</tr>
<tr>
<td>LINKER-DELINKER, 25MM W/M28 LINK HAND- used to link-delink 25MM cartridges</td>
<td>0605</td>
<td></td>
<td>AMCCOM 28620</td>
</tr>
<tr>
<td>LINKER-DELINKER, CALIBER .50 - M15 LINKS - used to hand link or delink .50 caliber with M15 links</td>
<td>0611</td>
<td></td>
<td>U.S. Army Defense Ammunition Center and School NSA 0611</td>
</tr>
<tr>
<td>TOOL, TEAR STRIP REMOVAL - used with any drill to engage and remove the tear strip from hermetically sealed metal cans (small arms cans, fuze cans, etc.)</td>
<td>0220</td>
<td></td>
<td>Savanna Depot Activity AMXSV-7112A (Local sketch SK-160)</td>
</tr>
<tr>
<td>ADAPTER, AIR DRILL - used to remove wing nuts from small arms packing cases</td>
<td>0336</td>
<td></td>
<td>Sierra Army Depot AMXSE-710C</td>
</tr>
<tr>
<td>ADAPTER, AIR DRILL - engages tear strip on metal container and is turned by air drill to remove the strip on SAA containers</td>
<td>0337</td>
<td></td>
<td>Sierra Army Depot AMXSI-710D</td>
</tr>
<tr>
<td>TOOL, HAND, TERNE PLATE LINER REMOVAL - used to remove terne late liner lids by hand methods</td>
<td>0338</td>
<td></td>
<td>Sierra Army Depot AMXSI-710E</td>
</tr>
<tr>
<td>TOOL, TERNE PLATE LINER - used to open terne plate liners in M1917 boxes</td>
<td>0493</td>
<td></td>
<td>Seneca Army Depot AMXSE-7208A</td>
</tr>
<tr>
<td>DEVICE, 20MM DETUBING - used to remove cardboard tube form Navy cartridges without nose fuze</td>
<td>0629</td>
<td></td>
<td></td>
</tr>
<tr>
<td>TABLE, SMALL ARMS AMMUNITION PULL TEST - used to pull test belted 7.62MM small arms ammunition</td>
<td>0552</td>
<td></td>
<td>McAlester Army Ammunition Plant McAlester Dwg D-1917</td>
</tr>
<tr>
<td>MACHINE, PULL APART, HORIZONTAL - a barricaded horizontal pull apart machine for fixed artillery ammunition. This machine is replaced by standard APE 1001M1 or 2000 machines which are vertical orientation.</td>
<td>0217</td>
<td></td>
<td>Savanna Depot Activity AMXSV-7002B</td>
</tr>
</tbody>
</table>

FSC 1305
Small Arms Ammunition thru 30MM Component - Metal & Wood Containers

FSC 1305
Small Arms Ammunition thru 30MM Component - Work Tables, Benches, Etc

FSC 1310
Ammunition 30MM to 75MM Component - Complete Round or Item

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<table>
<thead>
<tr>
<th>AMMUNITION ITEM AND COMPONENT</th>
<th>NON-STANDARD APE NO.</th>
<th>NOMENCLATURE – DESCRIPTION OR PURPOSE</th>
<th>DESIGN ACTIVITY IDENTIFICATION NO.</th>
</tr>
</thead>
<tbody>
<tr>
<td>FSC 1310 Ammunition 30MM to 75MM Component – Complete Round or Item – Continued</td>
<td>0244</td>
<td>EQUIPMENT, DISASSEMBLY, REMOTE CONTROL – used to disassemble fuzes and tracers from projectiles, plugs from bombs, rocket heads, etc (single spindle machine similar to APE 1002M2).</td>
<td>Red River Army Depot AMXRR-7104A</td>
</tr>
<tr>
<td>0247</td>
<td>ADAPTER, CONVEYOR (MONORAIL) HANGER – used to adapt various type hangers to the APE 1044 monorail conveyor</td>
<td>Red River Army Depot AMXRR-6711E</td>
<td></td>
</tr>
<tr>
<td>0255</td>
<td>MACHINE, PROJECTILE STENCILING – similar to APE 1175 for marking projectiles</td>
<td>Red River Army Depot AMXRR-6712C</td>
<td></td>
</tr>
<tr>
<td>0275</td>
<td>TORQUE ADAPTER, PROJECTILE TO CARTRIDGE CASE ASSEMBLY, 57MM – used to check the torque on the crimp of the projectile to cartridge case assembly on 57MM cartridges</td>
<td>Red River Army Depot AMXRR-6805G</td>
<td></td>
</tr>
<tr>
<td>0440</td>
<td>EXTRACTOR, PROFILE &amp; ALIGNMENT GAGE – used to extract stuck 40MM complete rounds from the chamber gage</td>
<td>Red River Army Depot AMXRR-6904A Local Dwg 1050872</td>
<td></td>
</tr>
<tr>
<td>FSC 1310 Ammunition 30MM to 75MM Component – Cartridge Case &amp; Liners</td>
<td>0201</td>
<td>TOOL, PLASTIC LINER REMOVAL – used to remove the plastic liner from 57MM cartridge cases</td>
<td>Lexington-Blue Grass Depot Activity AMXLX-7303E</td>
</tr>
<tr>
<td>0203</td>
<td>FIXTURE, PLASTIC LINER INSTALLATION – used to install the plastic liner in the 57MM cartridge cases</td>
<td>Lexington-Blue Grass Depot Activity AMXLX-7202G</td>
<td></td>
</tr>
<tr>
<td>0221</td>
<td>PUNCH, CARTRIDGE CASE MUTILATION – used in conjunction with APE 1042 to mutilate empty and deprimed cartridge cases</td>
<td>Savanna Depot Activity AMXSV-7304A Local Dwg SK-188</td>
<td></td>
</tr>
<tr>
<td>0270</td>
<td>TOOL, PLASTIC LINER INSERTION – used to install the plastic liner in the 57MM cartridge case</td>
<td>Red River Army Depot AMXRR-6805A</td>
<td></td>
</tr>
<tr>
<td>0308</td>
<td>HOLDING JAW, CARTRIDGE CASE MUTILATION – used to hold 30MM thru 125MM cartridge cases for mutilation in APE 1002M2 machine</td>
<td>Sierra Army Depot AMXSI-7212B</td>
<td></td>
</tr>
<tr>
<td>AMMUNITION ITEM AND COMPONENT</td>
<td>NON-STANDARD APE NO.</td>
<td>NOMENCLATURE – DESCRIPTION OR PURPOSE</td>
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</tr>
<tr>
<td>FSC 1310 Ammunition 30MM to 75MM Component - Primers</td>
<td>0544</td>
<td>PRESS, DEPRIME, CARTRIDGE CASE - used to deprime fired primers from cases returned from posts, camps (forts), and stations. Cases may be dirty, rusty, or mutilated and obligated for salvage only</td>
<td>Red River Army Depot (photograph only)</td>
</tr>
<tr>
<td></td>
<td>0028</td>
<td>WRENCH, PRIMER REMOVAL - used to remove M32, M34, and M71 primers from 60MM and 81MM mortars</td>
<td>Naval Ammunition Production Engineering Center WPEC Dwg 2253</td>
</tr>
<tr>
<td></td>
<td>0165</td>
<td>DEVICE, PRIMER REMOVAL - used to remove tight primers from the 57MM M90A1 fuze</td>
<td>Letterkenny Army Depot AMXLE-7107B Local Dwg A-70499</td>
</tr>
<tr>
<td></td>
<td>0259</td>
<td>PRIMER PROTECTOR, 40MM - used to protect primers on 40MM clipped ammunition</td>
<td>Red River Army Depot AMXRR-6801A</td>
</tr>
<tr>
<td></td>
<td>0281</td>
<td>PRIMER PROTECTOR, 40MM - used to protect primers on 40MM clipped (M1 clip) ammunition</td>
<td>Red River Army Depot AMXRR-6810A</td>
</tr>
<tr>
<td></td>
<td>0286</td>
<td>PRIMER PROTECTOR, 57MM - used to protect primers on 57MM M30A1B1 cartridge cases while round is in an unpacked configuration</td>
<td>Red River Army Depot AMXRR-6811A</td>
</tr>
<tr>
<td></td>
<td>0384</td>
<td>PIN WRENCH, MORTAR PRIMER - used to prime live and deprime fired primers on 60MM and 81MM mortars</td>
<td>Red River Army Depot AMXRR-SA-6701H Local Dwg 1020534</td>
</tr>
<tr>
<td></td>
<td>0447</td>
<td>PRESS, CARTRIDGE CASE DEPRIME (SALVAGED CASES) - used for depriming salvaged cartridge cases returned from overseas (fired primers only)</td>
<td>Red River Army Depot DRXRR-7702A</td>
</tr>
<tr>
<td></td>
<td>0544</td>
<td>PRESS, DEPRIME, CARTRIDGE CASE - used to deprime fired primers from cases returned from posts, camps (forts), and stations. Cases may be dirty, rusty, or mutilated and obligated for salvage only</td>
<td>Red River Army Depot (photograph only)</td>
</tr>
<tr>
<td></td>
<td>0582</td>
<td>COVER, PRIMER PROTECTOR - used to protect primer on cartridge case base when in an unpacked condition</td>
<td>Naval Ammunition Production Engineering Center</td>
</tr>
<tr>
<td>AMMUNITION ITEM AND COMPONENT</td>
<td>NON-STANDARD APE NO.</td>
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<tr>
<td>FSC 1310 Ammunition 30MM to 75MM Component - Fuzes</td>
<td>0151</td>
<td>VISE, PNEUMATIC W/MOTOR - used for remote control debooster of 60MM and 81MM mortar fuzes</td>
<td>Savanna Depot Activity AMXSV-6804A</td>
</tr>
<tr>
<td></td>
<td>0165</td>
<td>DEVICE, PRIMER REMOVAL - used to remove tight primers from the 57MM M90A1 fuze</td>
<td>Letterkenny Army Depot AMXLE-7107B Local Dwg A-70499</td>
</tr>
<tr>
<td></td>
<td>0173</td>
<td>THREAD DIE, FUZE THREAD CLEANING - used for cleaning fuze threads on M52 series fuzes for 60MM &amp; 81MM mortar</td>
<td>Letterkenny Army Depot AMXLE-7003D Local Dwg A-70399</td>
</tr>
<tr>
<td></td>
<td>0174</td>
<td>THREAD DIE, FUZE THREAD CLEANING - used for cleaning fuze threads on fuze, PD, M51, M500 series, and M557</td>
<td>Letterkenny Army Depot AMXLE-7003E Local Dwg A-70404</td>
</tr>
<tr>
<td></td>
<td>0254</td>
<td>HANGER, MONORAIL CONVEYOR, FUZED PROJECTILES - used to suspend 57MM thru 106MM fuzed projectiles from a monorail conveyor</td>
<td>Red River Army Depot AMXRR-6712B</td>
</tr>
<tr>
<td></td>
<td>0358</td>
<td>WRENCHED, FUZE REMOVAL - used for the removal of M500 series fuzes from various projectiles</td>
<td>Lexington-Blue Grass Depot Activity AMXLX-AP-2-6702B Local Dwg LBAD 9-145</td>
</tr>
<tr>
<td></td>
<td>0476</td>
<td>BARRICADE - used for transporting reject 40MM rounds with partially armed fuzes to disposal site</td>
<td>Anniston Army Depot AMXAN-6804A Local Dwg E-33-65</td>
</tr>
<tr>
<td></td>
<td>0595</td>
<td>WRENCH, FUZE - used to assemble, torque and disassemble fuzes from mortar rounds</td>
<td>Naval Ammunition Production Engineering Center NAPEC 0440</td>
</tr>
<tr>
<td>FSC 1310 Ammunition 30MM to 75MM Component - Fin &amp; Fin Kits</td>
<td>0207</td>
<td>THREAD CHASER, FIN THREADS - used to chase the internal threads on 60MM mortar fins</td>
<td>Red River Army Depot AMXRR-6701T</td>
</tr>
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<tr>
<td></td>
<td>0381</td>
<td>WRENCH, FIN REMOVAL - used to remove fins from 60MM mortar rounds</td>
<td>Red River Army Depot AMXRR-6701D Local Dwg RRAD 1010136</td>
</tr>
<tr>
<td>FSC 1310 Ammunition 30MM to 75MM Component - Projectiles</td>
<td>0516</td>
<td>TOOL, FIN REMOVAL &amp; ASSEMBLY - used to remove and assemble to M2 fin to the 60MM mortar rounds</td>
<td>Letterkenny Army Depot AMXLE-7106A</td>
</tr>
<tr>
<td>FSC 1310 Ammunition 30MM to 75MM Component - Propellant &amp; Holders</td>
<td>0274</td>
<td>HOLDING FIXTURE, FUZED PROJECTILE 57MM - used to hold a fuzed 57MM projectile in a horizontal position for drilling stakes between fuze and projectile</td>
<td>Red River Army Depot AMXRR-6805F</td>
</tr>
<tr>
<td>FSC 1310 Ammunition 30MM to 75MM Component - Fuzewell and Liner</td>
<td>0310</td>
<td>DRILL, AIR, THREAD CLEANING - used with an adapter for a bronze wire brush to clean threads in various sizes</td>
<td>Seneca Army Depot AMXSE-6803I</td>
</tr>
<tr>
<td>FSC 1310 Ammunition 30MM to 75MM Component - Fuzewell and Liner</td>
<td>0319</td>
<td>THREAD CHASER, PROJECTILE FUZE THREADS - used to chase threads in nose fuze well by hand operation for projectiles 57MM thru 106MM</td>
<td>Sierra Army Depot AMXSI-6902A</td>
</tr>
<tr>
<td>FSC 1310 Ammunition 30MM to 75MM Component - Fuzewell and Liner</td>
<td>0481</td>
<td>BUFFING MACHINE, PROJECTILES 57MM THRU 106MM - used for powered brush cleaning of projectiles and other components</td>
<td>Anniston Army Depot SBSAN-7709A</td>
</tr>
<tr>
<td>FSC 1310 Ammunition 30MM to 75MM Component - Propellant &amp; Holders</td>
<td>0335</td>
<td>CABINET, ARTILLERY PROPELLANT COLLECTION - used on collection of artillery propellant in lieu of APE 1028</td>
<td>Sierra Army Depot AMXSI-7104B</td>
</tr>
<tr>
<td>FSC 1310 Ammunition 30MM to 75MM Component - Fuzewell and Liner</td>
<td>0331</td>
<td>DIAL DEPTH GAGE - FUZEWELL - used to gage the depth of cavities in rounds which have been deep drilled</td>
<td>Sierra Army Depot AMXSU-7009B</td>
</tr>
<tr>
<td>FSC 1310 Ammunition 30MM to 75MM Component - Fuzewell and Liner</td>
<td>0422</td>
<td>WRENCH, FUZEWELL LINER (POWERED) - used for insertion and removal of fuze well liners</td>
<td>Red River Army Depot AMXRR-6710B</td>
</tr>
<tr>
<td>FSC 1310 Ammunition 30MM to 75MM Component - Fuzewell and Liner</td>
<td>0537</td>
<td>FIXTURE, FUZEWELL LINER REMOVAL - used to remove fuze well liners from projectiles that cannot be removed using APE 1128 or 1140</td>
<td>Lexington-Blue Grass Activity SDSLX-7708A</td>
</tr>
<tr>
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<tr>
<td>FSC 1310 Ammunition 30MM to 75MM Component - Supplementary Charge</td>
<td>0152</td>
<td>TOOL, SUPPLEMENTARY CHARGE REMOVAL DEEP CAVITY SHELLS - used to remove paper lined supplementary charges from all deep cavity shells</td>
<td>Savanna Depot Activity AMXSV-6805A (Dwg ORDJ-115)</td>
</tr>
<tr>
<td>FSC 1310 Ammunition 30MM to 75MM Component Safety Clips</td>
<td>0582</td>
<td>COVER, PRIMER PROTECTOR - used to protect primer on cartridge case base when in an unpacked condition</td>
<td>Naval Ammunition Production Engineering Center NAPEC 1438</td>
</tr>
<tr>
<td>FSC 1310 Ammunition 30MM to 75MM Component - Boosters</td>
<td>0151</td>
<td>VISE, PNEUMATIC W/MOTOR - used for remote control deboostering of 60MM and 81MM mortar fuzes</td>
<td>Savanna Depot Activity AMXSV-6804A</td>
</tr>
<tr>
<td>FSC 1310 Ammunition 30MM to 75MM Component - Percussion Primers</td>
<td>0582</td>
<td>DEBOOSTERING MACHINE, FUZE - used on fuzes that are difficult to deboost in APE 1118 (mortar fuzes 60MM and 81MM)</td>
<td>Red River Army Depot AMXRR-6701C</td>
</tr>
<tr>
<td>FSC 1310 Ammunition 30MM to 75MM Component - Fiber &amp; Plastic Containers</td>
<td>0149</td>
<td>LID PULLER, FIBER CONTAINERS, ARTILLERY AMMUNITION - modification kit to APE 1003 to pull a single lid</td>
<td>Savanna Depot Activity AMXSV-6705A</td>
</tr>
<tr>
<td></td>
<td>0155</td>
<td>DEVICE, PAINTING, FIBER CONTAINER CHEMICAL AMMUNITION - used for painting chemical stripes on M253 fiber containers</td>
<td>Letterkenny Army Depot AMXLE-7007G</td>
</tr>
<tr>
<td></td>
<td>0178</td>
<td>KNIFE, TAPE CUTTING - knife with a disc guard used to cut the sealing tape on fiber container end cap to body joint</td>
<td>Lexington-Blue Grass Depot Activity AMXLX-6705B Local Dwg LBAD 9-147</td>
</tr>
<tr>
<td></td>
<td>0238</td>
<td>TURNTABLE, AIR POWERED, FIBER CONTAINER PAINTING - used to rotate fiber containers for ease in painting. Used on cntrs model M201A1, M263, M251, M171A1, M202A1, M166A2, M105A2, M451</td>
<td>Red River Army Depot AMXRR-6708J</td>
</tr>
<tr>
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<tr>
<td>HANGER, PAINT FOR FIBER CONTAINERS</td>
<td>0266</td>
<td>used to hold fiber container on monorail conveyor or a suspended hook for painting</td>
<td>Red River Army Depot AMXRR-6802G</td>
</tr>
<tr>
<td>TIMER, TAPING MACHINE</td>
<td>0267</td>
<td>used w/APE 1004 (basic) to determine speed of taping machine head to allow an increase or decrease of speed</td>
<td>Red River Army Depot AMXRR-6803A</td>
</tr>
<tr>
<td>TAPING MACHINE, HAND OPERATED</td>
<td>0312</td>
<td>used for sealing fiber containers 57MM thru 106MM with acetate tape</td>
<td>Seneca Army Depot AMXSE-6803H</td>
</tr>
<tr>
<td>TOOL, CARTRIDGE REMOVAL, SWELLED FIBER CONTAINERS</td>
<td>0340</td>
<td>hand tool that fits over cartridge case head enabling operator to pull round from container</td>
<td>Sierra Army Depot AMXSI-7112A</td>
</tr>
<tr>
<td>TOOL, TEAR STRIP REMOVAL</td>
<td>0220</td>
<td>used with any drill to engage and remove the tear strip from hermetically sealed metal cans (small arms cans, fuze cans, etc)</td>
<td>Savanna Depot Activity AMXSV-7112A (local sketch SK-160)</td>
</tr>
<tr>
<td>FIXTURE, P&amp;A GAGE EXTRACTOR, 57MM</td>
<td>0176</td>
<td>holds gage and extracts the 57MM cartridge from the gage</td>
<td>Lexington-Blue Grass Depot Activity AMXLLX-6705A Local Dwg LBAD 9-149</td>
</tr>
<tr>
<td>FIXTURE, P&amp;A GAGE EXTRACTOR, 40MM</td>
<td>0280</td>
<td>holds gage and extracts the 40MM cartridge from the gage</td>
<td>Red River Army Depot AMXRR-6809A</td>
</tr>
<tr>
<td>FIXTURE, P&amp;A GAGE EXTRACTOR, 40MM</td>
<td>0290</td>
<td>holds gage and extracts the 40MM cartridge from the gage</td>
<td>Red River Army Depot AMXRR-6903C</td>
</tr>
<tr>
<td>FIXTURE, P&amp;A GAGE EXTRACTOR, 40MM</td>
<td>0295</td>
<td>removes stuck rounds from the 40MM P&amp;A gage</td>
<td>Red River Army Depot AMXRR-7109A</td>
</tr>
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<td>AMMUNITION ITEM AND COMPONENT</td>
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<tr>
<td>FSC 1310 Ammunition 30MM to 75MM Component - Chamber Gage -- Continued</td>
<td>0409</td>
<td>EXTRACTOR, CHAMBER GAGE, ARTILLERY PROJECTILES - used to remove cartridges from the chamber gage after gaging is complete</td>
<td>Red River Army Depot AMXRR-6701AM</td>
</tr>
<tr>
<td>FSC 1310 Ammunition 30MM to 75MM Components - Mortar Primers</td>
<td>0028</td>
<td>WRENCH, PRIMER REMOVAL - used to remove M32, M34 and M71 primers from 60MM and 81MM mortars</td>
<td>Naval Ammunition Production Engineering Center WPEC Dwg 2253</td>
</tr>
<tr>
<td></td>
<td>0378</td>
<td>HOLDING FIXTURES, MORTAR PRIMER - used for disassembly of 60MM mortar primer assembly</td>
<td>Red River Army Depot AMXRR-SA-6701A</td>
</tr>
<tr>
<td></td>
<td>0384</td>
<td>PIN WRENCH, MORTAR - used for priming live and depriming fired mortar primers</td>
<td>Red River Army Depot AMXRR-SA-6701H Local Dwg 1020534</td>
</tr>
<tr>
<td>FSC 1310 Ammunition 30MM to 75MM Component - Fuze Pull Cords, Mortar Fuzes</td>
<td>0190</td>
<td>TOOL, CRIMPING, MORTAR FUZE PULL CORD - used to crimp the pull cord on 60MM and 81MM (M52A2) mortar fuzes</td>
<td>Letterkenny Army Depot AMXLE-7003C</td>
</tr>
<tr>
<td></td>
<td>0206</td>
<td>TOOL, CRIMPING, MORTAR FUZE PULL CORD - used to crimp the pull cord on 60MM and 81MM (M52A2) mortar fuzes</td>
<td>Red River Army Depot AMXRR-6701Q</td>
</tr>
<tr>
<td>FSC 1310 Ammunition 30MM to 75MM Component - Rotating Bands</td>
<td>0317</td>
<td>MACHINE, ROTATING BAND CLEANING &amp; TAPING - removes corrosion and tapes rotating band on 37MM thru 8 inch projectiles prior to painting</td>
<td>Sierra Army Depot AMXSI-6811C</td>
</tr>
<tr>
<td>FSC 1315 Ammunition 75MM to 125MM Component - Complete Round or Item</td>
<td>0217</td>
<td>MACHINE, PULL APART, HORIZONTAL - a barricaded horizontal pull apart machine for fixed artillery ammunition. This machine is replaced by standard APE 1001M1 or 2000 machines which are vertical orientation</td>
<td>Savanna Depot Activity AMXSV-7002B</td>
</tr>
<tr>
<td></td>
<td>0244</td>
<td>EQUIPMENT, DISASSEMBLY, REMOTE CONTROL - used to disassemble fuzes and tracers from projectiles, plugs from bombs, rocket heads, etc. (single spindle machine similar to APE 1002M2)</td>
<td>Red River Army Depot AMXRR-7107A</td>
</tr>
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<td>AMMUNITION ITEM AND COMPONENT</td>
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<tr>
<td>0246 HANGER, PAINTING - used to suspend the 81MM practice mortar for painting purposes</td>
<td>Red River Army Depot AMXRR-6711D</td>
<td></td>
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</tr>
<tr>
<td>0247 ADAPTER, CONVEYOR (MONORAIL) HANGER - used to adapt various type hangers to the APE 1044 monorail conveyor</td>
<td>Red River Army Depot AMXRR-6711E</td>
<td></td>
<td></td>
</tr>
<tr>
<td>0255 MACHINE, PROJECTILE STENCILING - similar to APE 1175 for marking projectiles</td>
<td>Red River Army Depot AMXRR-6712C</td>
<td></td>
<td></td>
</tr>
<tr>
<td>0366 MACHINE, BASE-PLUG TORQUE - used to torque base plugs of projectile 105MM M84A1</td>
<td>Lexington-Blue Grass Depot Activity SDLX-7807A</td>
<td></td>
<td></td>
</tr>
<tr>
<td>0630 FIXTURE, 81MM HOLDING - used to hold cartridge in hose-down position while propellant increments are being attached</td>
<td>Red River Army Depot Dwg 1020610</td>
<td></td>
<td></td>
</tr>
<tr>
<td>FSC 1315 Ammunition 75MM to 125MM Component - Cartridge Case &amp; Liners</td>
<td>0018 COVER, PRIMER PROTECTION, 3&quot;/50 CARTRIDGE CASES - used for primer protection of 3&quot;/50 propelling charge when in an unpacked configuration</td>
<td>Naval Ammunition Production Engineering Center NAPEC Dwg 0409</td>
<td></td>
</tr>
<tr>
<td>0126 FIXTURE, LOADING PLUG REMOVAL, 106MM M344A1 CARTRIDGE - used to remove the loading plug from cartridge case base of the M93, M93B1 and M94B1 cartridge cases</td>
<td>Anniston Army Depot AMXAN-7303A</td>
<td></td>
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</tr>
<tr>
<td>0135 TOOLER, LINER INSERTION, CARTRIDGE 106MM HEP-T M346 - used to assemble spacer, inner &amp; outer liner, to seat cartridge case liners and to hold speed nut while primer is being assembled into cartridge case</td>
<td>Lexington-Blue Grass Depot Activity AMXLX-7407A Local Dwg LBAD 9-153</td>
<td></td>
<td></td>
</tr>
<tr>
<td>0141 PULLER, PLASTIC LINERS, CARTRIDGE 75MM - used for pulling elastic liners from the 75MM cartridge cases</td>
<td>Savanna Depot Activity AMXSV-7005A</td>
<td></td>
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</tr>
<tr>
<td>0221 PUNCH, CARTRIDGE CASE MUTILATION - used in conjunction with APE 1042 to mutilate empty and deprimed cartridge cases</td>
<td>Savanna Depot Activity AMXSV-7304A Local Dwg SK-188</td>
<td></td>
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<tr>
<td>0308 HOLDING JAW, CARTRIDGE CASE MUTILATION - used to hold 30MM thru 125MM cartridge cases for mutilation in APE 1002M2 machine</td>
<td>Sierra Army Depot AMXSI-7212B</td>
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<tr>
<td>0488</td>
<td>Punch, Primer, 105mm M148A1 Cartridge Case - used to punch out the large fired screw type primers</td>
<td>Seneca Army Depot AMXSE-6808A</td>
<td></td>
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<tr>
<td>0544</td>
<td>Press, Deprime, Cartridge Case - used to deprime fired primers from cases returned from posts, camps (forts), stations. Cases may be dirty, rusty, or mutilated and obligated for salvage only</td>
<td>Red River Army Depot (photograph only)</td>
<td></td>
</tr>
<tr>
<td>0017</td>
<td>Primer Protector, 81mm Mortar (Except Illuminating) - protects mortar primers during maintenance operations</td>
<td>Naval Ammunition Production Engineering Center NAPEC Dwg 0386</td>
<td></td>
</tr>
<tr>
<td>0018</td>
<td>Cover, Primer Protection, 3&quot;/50 Cartridge Cases - used for primer protection of 3&quot;/50 propelling charge when in an unpacked configuration</td>
<td>Naval Ammunition Production Engineering Center NAPEC Dwg 0409</td>
<td></td>
</tr>
<tr>
<td>0025</td>
<td>Chuck, Table Top - used to hold 81mm M374, M375 while removing primer</td>
<td>Naval Ammunition Production Engineering Center WPEC Dwg 2307</td>
<td></td>
</tr>
<tr>
<td>0028</td>
<td>Wrench, Primer Removal - used to remove M32, M34 and M71 primers from 60mm and 81mm mortars</td>
<td>Naval Ammunition Production Engineering Center WPEC Dwg 2253</td>
<td></td>
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<tr>
<td>0033</td>
<td>Cover, Primer Protection, 105mm Cartridge Cases - used to protect primer on 105mm cartridge cases when items are in an unpacked configuration</td>
<td>Crane Army Ammunition Activity NAD Crane Dwg 7260</td>
<td></td>
</tr>
<tr>
<td>0110</td>
<td>Cover, Primer Protection, 76mm/62 caliber Cartridge - used to protect primer whenever cartridge is in an unpacked configuration</td>
<td>Crane Army Ammunition Activity CAAA Dwg 7722</td>
<td></td>
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<tr>
<td>0136</td>
<td>Tool, Speed Nut Seating - used to seat speed nut inside cartridge case of 106mm HEP-T M346 round after priming is completed</td>
<td>Lexington-Blue Grass Depot Activity AMXLX-7407B Local Dwg LBDA 9-152</td>
<td></td>
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<td>AMMUNITION ITEM AND COMPONENT</td>
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<tr>
<td>Adapter, Primer Torque Test</td>
<td>0332</td>
<td>Adapter, Primer Torque Test - used with an approved torque wrench for testing M58 primer torque in 90MM cartridge cases</td>
<td>Sierra Army Depot AMXSI-7010A</td>
</tr>
<tr>
<td>Pin Wrench, Mortar Primer</td>
<td>0384</td>
<td>Pin Wrench, Mortar Primer - used to prime live and deprime fired primers on 60MM and 81MM mortars</td>
<td>Red River Army Depot AMXRR-SA-6701H Local Dwg 1020534</td>
</tr>
<tr>
<td>Chamber, Firing, 81MM Mortar Primer</td>
<td>0385</td>
<td>Chamber, Firing, 81MM Mortar Primer - a deactivation chamber to fire mortar primers prior to deprime operation</td>
<td>Red River Army Depot AMXRR-67011 Local Dwg 10500784</td>
</tr>
<tr>
<td>Nest, Holding, 81MM Mortar Primer</td>
<td>0410</td>
<td>Nest, Holding, 81MM Mortar Primer - used to hold the 81MM M57A1 mortar while removing primer from the M4A1 fin</td>
<td>Red River Army Depot AMXRR-6704C</td>
</tr>
<tr>
<td>Press, Cartridge Case Deprime ( Salvaged Cases)</td>
<td>0447</td>
<td>Press, Cartridge Case Deprime (Salvaged Cases) - used for depriming salvaged cartridge cases returned from overseas (fired primers only)</td>
<td>Red River Army Depot DRXRR-7702A</td>
</tr>
<tr>
<td>Punch, Primer, 105MM M148A1 Cartridge Case</td>
<td>0448</td>
<td>Punch, Primer, 105MM M148A1 Cartridge Case - used to punch out the large fired screw type primers</td>
<td>Seneca Army Depot AMXSE-6808A</td>
</tr>
<tr>
<td>Press, Deprime, Cartridge Case</td>
<td>0544</td>
<td>Press, Deprime, Cartridge Case - used to deprime fired primers from cases returned from posts, camps (forts), stations. Cases may be dirty, rusty, or mutilated and obligated for salvage only</td>
<td>Red River Army Depot (photograph only)</td>
</tr>
<tr>
<td>Fixture, Staking</td>
<td>0022</td>
<td>Fixture, Staking - used for staking the closing screw on the M48A3 PD fuze</td>
<td>Naval Ammunition Production Engineering Center NAPEC Dwg 1202</td>
</tr>
<tr>
<td>Stand, Vise, Fuzing &amp; Defuzing, 3&quot;/50</td>
<td>0024</td>
<td>Stand, Vise, Fuzing &amp; Defuzing, 3&quot;/50 - used to hold the 3&quot;/50 projectile for fuzing/defuzing operation</td>
<td>Naval Ammunition Production Engineering Center WPEC Dwg 1850</td>
</tr>
<tr>
<td>Wrench, Torque, M91 BD Fuze</td>
<td>0035</td>
<td>Wrench, Torque, M91 BD Fuze - used to torque the M91 BD fuze to the projectile during renovation of cartridge 105MM, HEP-T, M327</td>
<td>Naval Ammunition Production Engineering Center Hawthorne AAP Dwg 74-41</td>
</tr>
<tr>
<td>AMMUNITION ITEM AND COMPONENT</td>
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<tr>
<td>FSC 1315 Ammunition 75MM to 125MM Component – Fuzes -- Continued</td>
<td>0041</td>
<td>REMOVAL TOOL – used to remove the adapter and the auxiliary detonating fuze from the projectile</td>
<td>Naval Ammunition Production Engineering Center NAPEC Dwg 0291-A</td>
</tr>
<tr>
<td></td>
<td>0042</td>
<td>ADAPTER HOLDING FIXTURE 3”/50 AMMUNITION – used as a holding fixture for staking the ADF to the adapter. Also used to hold the ADF/adapter during installation or removal of the PDF</td>
<td>Naval Ammunition Production Engineering Center NAPEC Dwg 0291-B</td>
</tr>
<tr>
<td></td>
<td>0043</td>
<td>EQUIPMENT, STAKE REMOVAL, 3”/50 AMMUNITION – a jig and drill press used to drill out the retaining pins when removing the PDF from the adapter</td>
<td>Naval Ammunition Production Engineering Center NAPEC Dwg 0291-c</td>
</tr>
<tr>
<td></td>
<td>0046</td>
<td>TOOL, REMOVAL, ADF/ADAPTER – used to remove adapter 1227710 and ADF from the projectile. See NAPEC Dwg 0291 item #21. Used on 3”/50 ammunition</td>
<td>Naval Ammunition Production Engineering Center NAPEC Dwg 0291-F</td>
</tr>
<tr>
<td></td>
<td>0095</td>
<td>TOOL, FUZE LIFTING – used to remove PIBD FUZE M509A1 from the 120MM projectile</td>
<td>Naval Ammunition Production Engineering Center NAPEC Dwg 432</td>
</tr>
<tr>
<td></td>
<td>0119</td>
<td>DRIVE ADAPTER – used in conjunction with a Navy defuzing machine to remove VT-FR fuzes from 3”/50 and 3”/70 cartridge</td>
<td>Naval Ammunition Production Engineering Center NAPEC Dwg 1326</td>
</tr>
<tr>
<td></td>
<td>0120</td>
<td>WRENCH, BODY – used in conjunction with a Navy defuzing machine to remove VT-IR fuzes from 3”/50 and 3”/70 cartridge</td>
<td>Naval Ammunition Production Engineering Center NAPEC Dwg 1328</td>
</tr>
<tr>
<td></td>
<td>0123</td>
<td>WRENCH, DEFUZING – used to remove M91 BDF from 105MM HEP-T cartridge</td>
<td>Crane Army Ammunition Activity NAD Crane Dwg 7535</td>
</tr>
<tr>
<td></td>
<td>0124</td>
<td>WRENCH, FUZE – used to remove the M66 fuze from 3”/50 and 3”/70 cartridges</td>
<td>Naval Ammunition Production Engineering Center ALPEC Dwg 599-A-6</td>
</tr>
<tr>
<td></td>
<td>0151</td>
<td>VISE, PNEUMATIC W/MOTOR – used for remote control deboostering of 60MM and 81MM mortar fuzes</td>
<td>Savanna Depot Activity AMXSV-6804A</td>
</tr>
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<tr>
<td>Thread, Die, Fuze Thread Cleaning</td>
<td>0173</td>
<td>Letterkenny Army Depot AMXLE-7003D Local Dug A-70399</td>
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<tr>
<td>Thread, Die, Fuze Thread Cleaning</td>
<td>0174</td>
<td>Letterkenny Army Depot AMXLE-7003E Local Dug A-70404</td>
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<tr>
<td>Hanger, Monorail Conveyor, Fuzed Projectiles</td>
<td>0254</td>
<td>Red River Army Depot AMXRR-6712B</td>
<td></td>
</tr>
<tr>
<td>Wrench, Fuze Removal</td>
<td>0358</td>
<td>Lexington-Blue Grass Depot Activity AMXLX-AP-2-6702B Local Dug LBAD 9-145</td>
<td></td>
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<tr>
<td>Shield, Operational</td>
<td>0370</td>
<td>Pueblo Depot Activity AMXPU-6802A</td>
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<tr>
<td>Wrench, Fuze (Flat Type W/Inserts)</td>
<td>0588</td>
<td>Naval Ammunition Production Engineering Center NAPEC 0411-9</td>
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<tr>
<td>Wrench, Fuze (Flat Type W/Inserts)</td>
<td>0589</td>
<td>Naval Ammunition Production Engineering Center NAPEC 0411-10</td>
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<tr>
<td>Wrench, Fuze (Flat Type W/Inserts)</td>
<td>0590</td>
<td>Naval Ammunition Production Engineering Center NAPEC 0411-11</td>
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<tr>
<td>Wrench, Fuze (Flat Type W/Inserts)</td>
<td>0591</td>
<td>Naval Ammunition Production Engineering Center NAPEC 0411-12</td>
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<tr>
<td>Wrench, Fuze (Flat Type W/Inserts)</td>
<td>0592</td>
<td>Naval Ammunition Production Engineering Center NAPEC 0411-13</td>
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<tr>
<td>FSC 1315 Ammunition 75MM to 125MM Component – Fuzes –– Continued</td>
<td>0593</td>
<td>WRENCH, FUZE – used to assemble, torque and disassemble fuzes from mortar rounds</td>
<td>Naval Ammunition Production Engineering Center NAPEC 0440</td>
</tr>
<tr>
<td>FSC 1315 Ammunition 75MM to 125MM Component – Fin &amp; Fin Kits</td>
<td>0595</td>
<td>WRENCH, FUZE – used to assemble, torque and disassemble fuzes from mortar rounds</td>
<td>Naval Ammunition Production Engineering Center NAPEC 0440</td>
</tr>
<tr>
<td>FSC 1315 Ammunition 75MM to 125MM Component – Fin &amp; Fin Kits</td>
<td>0003</td>
<td>WRENCH, 81MM, MORTAR BOOM – used to install/remove boom assembly of 81MM M362 series mortar during production, renovation, rework</td>
<td>Naval Ammunition Production Engineering Center NAPEC Dwg 0065</td>
</tr>
<tr>
<td>FSC 1315 Ammunition 75MM to 125MM Component – Fin &amp; Fin Kits</td>
<td>0023</td>
<td>WRENCH, FIN – used to assemble/disassemble the fin assembly M149, M170, M4A1 from the 81MM mortar RDS</td>
<td>Naval Ammunition Production Engineering Center NAPEC Dwg 1208</td>
</tr>
<tr>
<td>FSC 1315 Ammunition 75MM to 125MM Component – Fin &amp; Fin Kits</td>
<td>0098</td>
<td>TOOL, FIN ASSEMBLY – used for removal of fin assembly on 120MM projectile</td>
<td>Naval Ammunition Production Engineering Center NAPEC Dwg 977</td>
</tr>
<tr>
<td>FSC 1315 Ammunition 75MM to 125MM Component – Fin &amp; Fin Kits</td>
<td>0325</td>
<td>TOOLS, HAND, MORTAR – used for assembly of the fin and propellant system to 81MM mortar detecting set seismic, AN/GSQ 136</td>
<td>Sierra Army Depot AMXSI-6907A</td>
</tr>
<tr>
<td>FSC 1315 Ammunition 75MM to 125MM Component – Fin &amp; Fin Kits</td>
<td>0354</td>
<td>ADAPTER, TORQUE WRENCH, MORTAR FIN – used in conjunction with a torque wrench for assembling fins to 81MM mortar bodies</td>
<td>Lexington-Blue Grass Depot Activity AMXLX-6701C Local Dwg (LBDA 9-137)</td>
</tr>
<tr>
<td>FSC 1315 Ammunition 75MM to 125MM Component – Fin &amp; Fin Kits</td>
<td>0355</td>
<td>VISE, AIR FIN HOLDING – used to hold 81MM mortar fins during deprime-reprime operation</td>
<td>Lexington-Blue Grass Depot Activity AMXLX-6701A</td>
</tr>
<tr>
<td>FSC 1315 Ammunition 75MM to 125MM Component – Fin &amp; Fin Kits</td>
<td>0356</td>
<td>WRENCH, MORTAR FIN REMOVAL – used to remove fins from 81MM mortar bodies</td>
<td>Lexington-Blue Grass Depot Activity AMXLX-6701B</td>
</tr>
<tr>
<td>FSC 1315 Ammunition 75MM to 125MM Component – Fin &amp; Fin Kits</td>
<td>0379</td>
<td>WRENCH, FIN REMOVAL – used for removing 81MM mortar fins M3, M4A1, M141</td>
<td>Red River Army Depot AMXRR-6701B Local Dwg 1020533</td>
</tr>
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<tr>
<td>HOLDING FIXTURE, 81MM</td>
<td>0386</td>
<td>used to hold the 81MM mortar for assembly of the M141 fin</td>
<td>Red River Army Depot AMXRR-6701J Local Dug 1030586</td>
</tr>
<tr>
<td>FIN WRENCH, M3 MORTAR FIN</td>
<td>0390</td>
<td>used for assembly and torque of the M3 fin to the 81MM mortar projectile</td>
<td>Red River Army Depot AMXRR-6701N Local Dug 1020566</td>
</tr>
<tr>
<td>HANGING JIG, OVERHEAD CONVEYOR</td>
<td>0065</td>
<td>used for hanging fuzed or plugged projectile from an overhead conveyor. Used on 75MM, 76MM, 90MM, 105MM, 3&quot;/50</td>
<td>Anniston Army Depot SDSAN Dug AS-1-78</td>
</tr>
<tr>
<td>HANGER, MONORAIL, PROJECTILE</td>
<td>0292</td>
<td>used to suspend the 105MM plugged projectile from the monorail conveyor for painting (nose down)</td>
<td>Red River Army Depot AMXRR-6908A</td>
</tr>
<tr>
<td>DRILL, AIR, THREAD CLEANING</td>
<td>0310</td>
<td>with an adapter for a bronze wire brush to clean threads in various size projectile fuze cavities</td>
<td>Seneca Army Depot ANXSE-6803I</td>
</tr>
<tr>
<td>THREAD CHASER, PROJECTILE FUZE THREADS</td>
<td>0319</td>
<td>used to chase threads in noze fuzewell by hand operation for projectiles 57MM thru 106MM</td>
<td>Sierra Army Depot AMXSI-6902A</td>
</tr>
<tr>
<td>BUFFING MACHINE, PROJECTILES 57MM THRU 106MM</td>
<td>0481</td>
<td>used for powered brush cleaning of projectiles and other components</td>
<td>Anniston Army Depot SDSAN-7709A</td>
</tr>
<tr>
<td>GAGE, V-BLOCK (TMDE)</td>
<td>0519</td>
<td>used to check the concentricity of the XM10 tracer assembled to 90MM M71A1 projectile</td>
<td>Savanna Depot Activity AMXSV-6704A</td>
</tr>
<tr>
<td>TOOL, IGNITION CARTRIDGE REMOVAL</td>
<td>0170</td>
<td>used to remove the ignition cartridge from cartridge 4.2 inch M329 (shielded opn)</td>
<td>Letterkenny Army Depot AMXLE-6908A Local Dug # A-70371</td>
</tr>
<tr>
<td>TORQUE ADAPTER, IGNITION CARTRIDGE HOUSING</td>
<td>0271</td>
<td>used for torquing the ignition cartridge housing on 4.2” mortars</td>
<td>Red River Army Depot AMXRR-6805B</td>
</tr>
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<tr>
<td>FSC 1315 Ammunition 75MM to 125MM Component - Ignition Cartridge -- Continued</td>
<td>0341</td>
<td>TOOL, IGNITION CARTRIDGE HOUSING REMOVAL - used to remove the ignition cartridge housing from 81mm M362 &amp; M374 mortar cartridges</td>
<td>Sierra Army Depot (photograph only)</td>
</tr>
<tr>
<td>FSC 1315 Ammunition 75MM to 125MM Component - Propellant &amp; Holders</td>
<td>0172</td>
<td>TOOL, INCREMENT HOLDER SEATING - used to seat increment holders on cartridge 4.2” M329</td>
<td>Letterkenny Army Depot AMXLE-6909A Local Dwg # B70377</td>
</tr>
<tr>
<td>FSC 1315 Ammunition 75MM to 125MM Component - Cartridge Extension</td>
<td>0335</td>
<td>CABINET, ARTILLERY PROPELLANT COLLECTION - used on collection of artillery propellant in lieu of APE 1028</td>
<td>Sierra Army Depot AMXSI-7104B</td>
</tr>
<tr>
<td>FSC 1315 Ammunition 75MM to 125MM Component - Cartridge Extension</td>
<td>0171</td>
<td>TOOL, CARTRIDGE CENTER EXTENSION REMOVAL - used for removing tight cartridge container extension from 4.2” M329A1</td>
<td>Letterkenny Army Depot AMXLE-6812C Local Dwg # A-70386</td>
</tr>
<tr>
<td></td>
<td>0219</td>
<td>WRENCH, CARTRIDGE EXTENSION - used to assemble, disassemble or torque cartridge center extension on 4.2” M329 round</td>
<td>Savanna Depot Activity AMXSV-7012B Local Dwg SK 128</td>
</tr>
<tr>
<td></td>
<td>0341</td>
<td>TOOL, IGNITION CARTRIDGE HOUSING REMOVAL - used to remove the ignition cartridge housing from 81MM M362 &amp; M374 mortar cartridges</td>
<td>Sierra Army Depot (photographs only)</td>
</tr>
<tr>
<td></td>
<td>0391</td>
<td>WRENCH, SPANNER, CARTRIDGE HOUSING ASSEMBLY - used for assembly of the cartridge housing to the 81MM M362 mortar</td>
<td>Red River Army Depot AMXRR-6701-0 Local Dwg 1020565</td>
</tr>
<tr>
<td></td>
<td>0392</td>
<td>WRENCH, SPANNER, CARTRIDGE HOUSING DISASSEMBLY - used for disassembly of the cartridge housing from the 81MM M362 mortar</td>
<td>Red River Army Depot AMXRR-6701-P Local Dwg 1020564</td>
</tr>
<tr>
<td></td>
<td>0542</td>
<td>EQUIPMENT, DISASSEMBLY, STRIKER NUT &amp; CENTER EXTENSION - accessory to APE 1210 to remove frozen cartridge center extensions and frozen striker nuts</td>
<td>Caerwent Depot Activity AERUK-7710A</td>
</tr>
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<tr>
<td>FSC 1315 Ammo 75MM to 125MM Component - Fuzewell &amp; Liner</td>
<td>0331</td>
<td>DIAL DEPTH GAGE – FUZEWELL - used to gage the depth of cavities in rounds which have been deep drilled</td>
<td>Sierra Army Depot AMXSI-7009B</td>
</tr>
<tr>
<td></td>
<td>0422</td>
<td>WRENCH, FUZEWELL LINER, POWERED - used for insertion and removal of fuzewell liners</td>
<td>Red River Army Depot AMXRR-6701B Local Dwg 1020343</td>
</tr>
<tr>
<td></td>
<td>0537</td>
<td>FIXTURE, FUZEWELL LINER REMOVAL - used to remove fuzewell liners from projectiles that cannot be removed using APE 1128 or 1140</td>
<td>Lexington-Blue Grass Depot Activity SDSLX-7708A</td>
</tr>
<tr>
<td>FSC 1315 Ammo 75MM to 125MM Component - Bursters &amp; Wells</td>
<td>0011</td>
<td>TOOL, BURSTER REMOVAL - used to remove bursters from Marine Corps 90MM, 105MM and 106MM ammunition</td>
<td>Naval Ammunition Production Engineering Center NAPEC Dwg 0320</td>
</tr>
<tr>
<td></td>
<td>0210</td>
<td>MACHINE, CLEANING AND DERUSTING - used for cleaning and derusting burster wells in 105MM GB M360 projectiles</td>
<td>Tooele Army Dept AMXTE 7206A</td>
</tr>
<tr>
<td>FSC 1315 Ammo 75MM to 125MM Component - Supplementary Charge</td>
<td>0152</td>
<td>TOOL, SUPPLEMENTARY CHARGE REMOVAL - used for removing supplementary charge paper liners from all deep cavity shells</td>
<td>Savanna Depot Activity AMXSV-6805A Local Dwg ORD-JU-115</td>
</tr>
<tr>
<td>FSC 1315 Ammo 75MM to 125MM Component - Closing Plugs</td>
<td>0094</td>
<td>WRENCH, CLOSING PLUG - used for removing the M99 closing plug on 120MM propellant charge assembly</td>
<td>Naval Ammunition Production Engineering Center NAPEC Dwg 431</td>
</tr>
<tr>
<td>FSC 1315 Ammo 75MM to 125MM Component - Closing Plugs</td>
<td>0096</td>
<td>HOLDING FIXTURE - used to hold prop charge while removing closure plug on 120MM prop charge assembly</td>
<td>Naval Ammunition Production Engineering Center NAPEC Dwg 433</td>
</tr>
<tr>
<td></td>
<td>0130</td>
<td>WRENCH, ADAPTER, NOSE PLUG REMOVAL - used to remove dummy nose plug from 3&quot;/50 MK 27 &amp; 3&quot;/70 MK 34 projectiles</td>
<td>Naval Ammunition Production Engineering Center ALPEC Dwg 328-H-11</td>
</tr>
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<tr>
<td>FSC 1315 Ammunition 75MM to 125MM Component – Base Plates</td>
<td>0122</td>
<td>TOOL, BASE PLUG &amp; LOAD REMOVAL – used to remove the base plug and illuminating load from 3”/50 and 3”/70 projectiles</td>
<td>Naval Ammunition Production Engineering Center NAPEC Dwg 1203</td>
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<tr>
<td></td>
<td>0366</td>
<td>MACHINE TORQUING, BASE PLUG – used to assemble and torque the base plug to 105MM M84 Al projectiles</td>
<td>Lexington-Blue Grass Depot Activity SDSLX-7807A</td>
</tr>
<tr>
<td>FSC 1315 Ammunition 75MM to 125MM Component – Cartridges</td>
<td>0603</td>
<td>ADAPTER, PRESSURE PLATE NUT TORQUE – used to torque the pressure plate nut on 4.2 in. mortar HE M329 to 70 in. pound</td>
<td>Red River Army Depot Local Dwg 1030648</td>
</tr>
<tr>
<td>FSC 1315 Ammunition 75MM to 125MM Component – Boosters</td>
<td>0030</td>
<td>DRILL FIXTURE, BOOSTER – used to drill a new stake notch on the M125A1 booster</td>
<td>Crane Army Ammunition Activity NAD Crane Dwg 6916</td>
</tr>
<tr>
<td></td>
<td>0032</td>
<td>FIXTURE, HOLDING – used to hold the M48 series fuze in place to assemble booster prior to staking</td>
<td>Crane Army Ammunition Activity NAD Crane Dwg 7158</td>
</tr>
<tr>
<td></td>
<td>0151</td>
<td>VISE, PNEUMATIC W/MOTOR – used for remote control deboostering of 60MM and 81MM mortar fuzes</td>
<td>Savanna Depot Activity AMXSU-6804A</td>
</tr>
<tr>
<td></td>
<td>0380</td>
<td>DEBOOSTERING MACHINE, FUZE – used on fuzes that are difficult to debooster in APE 1118 (mortar fuzes 60MM &amp; 81MM)</td>
<td>Red River Army Depot AMXRR-6701C Local Dwg 1050741</td>
</tr>
<tr>
<td>FSC 1315 Ammunition 75MM to 125MM Component – Parachute</td>
<td>0122</td>
<td>TOOL, BASE PLUG &amp; LOAD REMOVAL – used to remove the base plug and illuminating load from 3”/50 and 3”/70 projectiles</td>
<td>Naval Ammunition Production Engineering Center NAPEC Dwg 1203</td>
</tr>
<tr>
<td>FSC 1315 Ammunition 75MM to 125MM Component – Closing Screw</td>
<td>0029</td>
<td>WRENCH, FUZE – used to install/remove the bottom closing screw</td>
<td>Crane Army Ammunition Activity NAD Crane Dwg 6833</td>
</tr>
<tr>
<td></td>
<td>0031</td>
<td>FIXTURE, HOLDING – used to hold the M48 series fuze while drilling out the bottom closing screw stakes</td>
<td>Crane Army Ammunition Activity NAD Crane Dwg 7149</td>
</tr>
<tr>
<td>ANMUNITION ITEM AND COMPONENT</td>
<td>NON-STANDARD APE NO.</td>
<td>NONENCELATURE - DESCRIPTION OR PURPOSE</td>
<td>DESIGN ACTIVITY IDENTIFICATION NO.</td>
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<tr>
<td>FSC 1315 Ammunition 75MM to 125MM Component - Adapters - Nose Adapter &amp; Base Adapter</td>
<td>0099</td>
<td>ADAPTER, REMOVAL DEVICE - used for removal of adapter assembly and pulling auxiliary detonating fuze on 5&quot;/54 Comp A projectiles or 4.5&quot; rocket head</td>
<td>Crane Army Ammunition Activity Crane Dwg 2932</td>
</tr>
<tr>
<td>FSC 1315 Ammunition 75MM to 125MM Component - Fiber &amp; Plastic Containers</td>
<td>0228</td>
<td>WRENCH, BOOSTER ADAPTER - used to remove nose adapter from projectiles that have booster remaining in adapter after disassembly</td>
<td>Red River Army Depot AMXRR-6701I</td>
</tr>
<tr>
<td>FSC 1315 Ammunition 75MM to 125MM Component - Fiber &amp; Plastic Containers</td>
<td>0149</td>
<td>LID PULLER, FIBER CONTAINERS, ARTILLERY AMMUNITION - modification kit to APE 1003 to pull a single lid</td>
<td>Savanna Depot Activity AMXSV-6705A</td>
</tr>
<tr>
<td>FSC 1315 Ammunition 75MM to 125MM Component - Fiber &amp; Plastic Containers</td>
<td>0155</td>
<td>DEVICE, PAINTING, FIBER CONTAINER, CHEMICAL AMMUNITION - used for painting chemical stripes on M253 containers</td>
<td>Letterkenny Army Dept AMXLE-7007G</td>
</tr>
<tr>
<td></td>
<td>0178</td>
<td>KNIFE, TAPE CUTTING - knife with a disc guard used to cut the sealing tap on fiber container end cap to body joint</td>
<td>Lexington-Blue Grass Depot Activity AMXLX-6705B Local Dwg LBAD 9-147</td>
</tr>
<tr>
<td></td>
<td>0238</td>
<td>TURNTABLE, AIR POWERED, FIBER CONTAINER PAINTING - used to rotate fiber containers for ease in painting. Used on containers model M201A1, M263, M251, M71A1, M202A1, M166A2, M105A2, M451</td>
<td>Red River Army Depot AMXRR-6708J</td>
</tr>
<tr>
<td></td>
<td>0266</td>
<td>HANGER, PAINTING FOR FIBER CONTAINERS - used to hold fiber container on a monorail conveyor or suspended hook for painting</td>
<td>Red River Army Depot AMXRR-6802G</td>
</tr>
<tr>
<td></td>
<td>0267</td>
<td>TIMER, TAPING MACHINE - used with APE 1004 (basic) to determine speed of taping machine head to allow an increase or decrease of speed</td>
<td>Red River Army Depot AMXRR-6803A</td>
</tr>
<tr>
<td></td>
<td>0312</td>
<td>TAPING MACHINE, HAND OPERATED - used for sealing fiber containers 57MM thru 106MM with acetate tape</td>
<td>Seneca Army Depot AMXSE-6803H</td>
</tr>
<tr>
<td>AMMUNITION ITEM AND COMPONENT</td>
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<tr>
<td>FSC 1315 Ammunition 75MM to 125MM Component -- Fiber &amp; Plastic Containers -- Continued</td>
<td>0340</td>
<td>TOOL, CARTRIDGE REMOVAL, SWELLED FIBER CONTAINERS -- hand tool that fits over cartridge case head enabling operator to pull round from container</td>
<td>Sierra Army Depot AMXSI-7107A</td>
</tr>
<tr>
<td></td>
<td>0436</td>
<td>TORQUE ADAPTER, PLASTIC CONTAINER LIDS -- used to tighten lids on plastic containers, 81MM M513, to a specified assembly torque</td>
<td>Red River Army Depot AMXRR-6805H Local Dwg 1020576</td>
</tr>
<tr>
<td></td>
<td>0437</td>
<td>FIXTURE, HOLDING, PLASTIC CONTAINER -- used to hold the 81MM M513 container for removal of lid</td>
<td>Red River Army Depot AMXRR-6805I Local Dwg 1030603</td>
</tr>
<tr>
<td></td>
<td>0487</td>
<td>TORQUE ADAPTER, PLASTIC CONTAINER LIDS -- used to tighten caps on plastic containers for cartridge 81MM, HE M374 to a specified torque</td>
<td>Seneca Army Depot AMXSE-6803L</td>
</tr>
<tr>
<td>FSC 1315 Ammunition 75MM to 125MM Component -- Barrier Bags</td>
<td>0004</td>
<td>FIXTURE, BARRIER BAG EXPANDER -- used to insert fiber containers for 90MM, 105MM &amp; 106MM into barrier bags. Fixture minimizes possibility of tearing the bag while inserting the fiber container</td>
<td>Naval Ammunition Production Engineering Center NAPEC Dwg 0174</td>
</tr>
<tr>
<td>FSC 1315 Ammunition 75MM to 125MM Component -- Packing Supports</td>
<td>0535</td>
<td>EXTRACTOR, WOODEN SUPPORT RING -- used to remove binding wooden support rings from the M574A1, 105MM rap round fiber container to enable upack of the projectile</td>
<td>Red River Army Depot (photograph description only)</td>
</tr>
<tr>
<td>FSC 1315 Ammunition 75MM to 125MM Component -- Tracers</td>
<td>0100</td>
<td>WRENCH, TRACER REMOVAL -- used for removing the M5A2B1 tracer from the 120MM projectile</td>
<td>Crane Army Ammunition Activity Crane Dwg 7588</td>
</tr>
<tr>
<td></td>
<td>0329</td>
<td>WRENCH, TRACER REMOVAL -- used with a pneumatic wrench to remove the M5A2B1 tracer from 90MM HVAP RDS</td>
<td>Sierra Army Depot AMXSI-7001B</td>
</tr>
<tr>
<td></td>
<td>0451</td>
<td>TORQUE WRENCH, TRACER ADAPTER, 90MM -- used to torque the tracer into the 90MM projectile base</td>
<td>Tooele Army Depot TEAD Sketch SK-90-1</td>
</tr>
<tr>
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<td>0519</td>
<td>GAGE, V-BLOCK (TMDE) - used to check the concentricity of the XM10 tracer assembled to the 90MM M71A1 projectile</td>
<td>Savanna Depot Activity AMXSV-6704A</td>
</tr>
<tr>
<td>FSC 1315 Ammunition 75MM to 125MM Component - Base Plugs</td>
<td>0541</td>
<td>TOOL, TRACER ELEMENT REMOVAL - used to remove the M5 series tracer element from the 120MM T16E3 smoke projectile</td>
<td>Tooele Army Depot TEAD Sketch AC-SK-82-05-A</td>
</tr>
<tr>
<td></td>
<td>0618</td>
<td>TOOL TRACER REMOVAL - used to remove M13 tracer on 90MM projectiles, M318 &amp; M353</td>
<td>Naval Ammunition Production Engineering Center NAPEC 1374</td>
</tr>
<tr>
<td></td>
<td>0619</td>
<td>WRENCH, HAND, TRACER REMOVAL - used to remove M3, M5A2, M5A2B1 and M10 tracers</td>
<td>TMX 30125</td>
</tr>
<tr>
<td></td>
<td>0079</td>
<td>WRENCH ASSEMBLY FOR BASE FUZE HOLE PLUG - used to remove and install base fuze hole plugs in projectiles</td>
<td>Naval Ammunition Production Engineering Center ALPEC Dwg 335-B-1</td>
</tr>
<tr>
<td></td>
<td>0122</td>
<td>TOOL, BASE PLUG &amp; LOAD REMOVAL - used to remove the base plug and illuminating load from 3&quot;/50 and 3&quot;/70 projectiles</td>
<td>Naval Ammunition Production Engineering Center NAPEC Dwg 1203</td>
</tr>
<tr>
<td></td>
<td>0225</td>
<td>WRENCH, EASE PLUG, 105MM PROJECTILE - used to remove and assemble the base plug on 105MM projectile</td>
<td>Red River Army Depot AMXRR-6704B</td>
</tr>
<tr>
<td></td>
<td>0366</td>
<td>MACHINE, BASE PLUG TORQUE - used to torque base plugs of projectiles 105MM M84A1</td>
<td>Lexington-Blue Grass Depot Activity SDSLX-7807A</td>
</tr>
<tr>
<td>FSC 1315 Ammunition 75MM to 125MM Component - Expelling Charges</td>
<td>0075</td>
<td>DEVICE, EXPPELLING CHARGE REMOVAL - used to remove plastic cased expelling charges from 105MM M84A1 smoke rounds by push out of charge through nose. Cylinder piston pushes cartridge through body</td>
<td>USAGH Akizuki, Japan Pictorial &amp; Description</td>
</tr>
<tr>
<td></td>
<td>0175</td>
<td>PROBE, EXPPELLING CHARGE REMOVAL - used to remove stuck expelling charges from the 105MM M84 leaflet rounds</td>
<td>Lexington-Blue Grass Depot Activity</td>
</tr>
<tr>
<td>AMMUNITION ITEM AND COMPONENT</td>
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<tr>
<td>FSC 1315 Ammunition 75MM to 125MM Component - Fuze Lock Plug</td>
<td>0097</td>
<td>WRENCH, LOCK PLUG - used to remove the fuze lock plug from the 120MM projectiles</td>
<td>Naval Ammunition Production Engineering Center NAPEC Dwg 434</td>
</tr>
<tr>
<td>FSC 1315 Ammunition 75MM to 125MM Component - Cartridge Case Loading Plug</td>
<td>0126</td>
<td>FIXTURE, LOADING PLUG REMOVAL, 106MM M344A1 CARTRIDGES - used to remove the loading plug from cartridge case base of the M93, M93B1 and M94B1 cartridge cases</td>
<td>Anniston Army Depot AMXAN-7303A</td>
</tr>
<tr>
<td>FSC 1315 Ammunition 75MM to 125MM Component - Dummy Nose Plug or Nose Plug</td>
<td>0130</td>
<td>WRENCH, ADAPTER, NOSE PLUG REMOVAL - used to remove dummy nose plug from 3&quot;/50 MK27 &amp; 3&quot;/70 MK34 projectiles</td>
<td>Naval Ammunition Production Engineering Center ALPEC Dwg 328-H-11</td>
</tr>
<tr>
<td></td>
<td>0589</td>
<td>WRENCH, FUZE (FLAT TYPE W/INSERTS) - used to remove and install CVT, MTF, PDF fuzes and dummy nose plugs</td>
<td>Naval Ammunition Production Engineering Center NAPEC 0411-10</td>
</tr>
<tr>
<td></td>
<td>0590</td>
<td>WRENCH, FUZE (FLAT TYPE W/INSERTS) - used to remove and install MTF fuzes and dummy nose plugs</td>
<td>Naval Ammunition Production Engineering Center NAPEC 0411-11</td>
</tr>
<tr>
<td>FSC 1315 Ammunition 75MM to 125MM Component - Chamber Gage</td>
<td>0134</td>
<td>CHAMBER GAGE EXTRACTOR - used to push the cartridge from the chamber gage by applying pressure to nose end of projectile</td>
<td>Letterkenny Army Depot AMXLE-6803A Local Dwg # A-70177</td>
</tr>
<tr>
<td></td>
<td>0409</td>
<td>EXTRACTOR, CHAMBER GAGE, ARTILLERY PROJECTILES - used to remove cartridge from the chamber gage after gaging is complete</td>
<td>Red River Army Depot AMXRR-6701AM</td>
</tr>
<tr>
<td>FSC 1315 Ammunition 75MM to 125MM Component - Mortar Primers</td>
<td>0028</td>
<td>WRENCH, PRIMER REMOVAL - used to remove M32, M34 and M71 primers from 60Mm and 81MM mortars</td>
<td>Naval Ammunition Production Engineering Center WPEC Dwg 2253</td>
</tr>
<tr>
<td></td>
<td>0162</td>
<td>TOOL, STAND &amp; FIRING, T-68 PRIMERS - used to fire T-68 primers when they cannot be easily removed from the M141 fin assembly</td>
<td>Letterkenny Army Depot AMXLE-7011B Local Dwg B-70480</td>
</tr>
<tr>
<td>AMMUNITION ITEM AND COMPONENT</td>
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<tr>
<td>DEVICE, FIRING, MORTAR PRIMER</td>
<td>0364</td>
<td>a remote control method for firing primers in 81MM mortar fins for safer removal</td>
<td>Lexington-Blue Grass AMXLX-7107D</td>
</tr>
<tr>
<td>PIN WRENCH, MORTAR</td>
<td>0384</td>
<td>used for priming live and depriming fired mortar primers</td>
<td>Red River Army Depot AMXRR-SA6701H Local Dwg 1020534</td>
</tr>
<tr>
<td>TOOL, PRIMER REMOVAL, M34 PRIMER</td>
<td>0517</td>
<td>used for removal and assembly of M34 primer from cartridge, 81MM: M43A1, M56A1 and M57A1</td>
<td>Letterkenny Army Depot AMXLE-7107A</td>
</tr>
<tr>
<td>TOOL, CRIMPING, MORTAR FUZE PULL CORD</td>
<td>0190</td>
<td>used to crimp the pull cord on 60MM &amp; 81MM (M52A2) mortar fuzes</td>
<td>Letterkenny Army Depot AMXLE-7003C</td>
</tr>
<tr>
<td>TOOL, CRIMPING, MORTAR FUZE PULL CORD</td>
<td>0206</td>
<td>used to crimp the pull cord on 60MM and 81MM (M52A2) mortar fuzes</td>
<td>Red River Army Depot AMXRR-6701q</td>
</tr>
<tr>
<td>FIXTURE, PROPELLANT SETTING</td>
<td>0194</td>
<td>attachment to APE 2020 to settle propellant</td>
<td>Lexington-Blue Grass Depot Activity AMXLX-7107C</td>
</tr>
<tr>
<td>MACHINE, ROTATING BAND CLEANING</td>
<td>0253</td>
<td>used to clean the rotating band on projectiles 75MM thru 8 inch</td>
<td>Red River Army Dept AMXRR-6712A</td>
</tr>
<tr>
<td>MACHINE, ROTATING BAND CLEANING AND TAPING</td>
<td>0317</td>
<td>removes corrosion and tapes rotating band on 37MM thru 8 inch projectiles prior to painting</td>
<td>Sierra Army Depot AMXSI-6811C</td>
</tr>
<tr>
<td>MACHINE, FULL APART, HORIZONTAL</td>
<td>0217</td>
<td>used to pull apart fixed artillery ammunition oriented in a horizontal configuration</td>
<td>Savanna Depot Activity AMXSV-7002B</td>
</tr>
<tr>
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<tr>
<td>FSC 1320 Ammunition 125MM to 16 inch Component - Complete Round or Item -- Continued</td>
<td>0244</td>
<td>EQUIPMENT, DISASSEMBLY, REMOTE CONTROL - used to disassemble fuzes and tracers from projectiles, plugs from bombs, rocket heads, etc (single spindle machine similar to APE 1002M2)</td>
<td>Red River Army Depot AMXRR-7107A</td>
</tr>
<tr>
<td></td>
<td>0247</td>
<td>ADAPTER, CONVEYOR (MONORAIL) HANGER - used to adapt various type hangers to the APE 1044 monorail conveyor</td>
<td>Red River Army Depot AMXRR-6711E</td>
</tr>
<tr>
<td></td>
<td>0255</td>
<td>MACHINE, PROJECTILE STENCILING - similar to APE 1175 for marking projectiles</td>
<td>Red River Army Dept AMXRR-6712C</td>
</tr>
<tr>
<td></td>
<td>0489</td>
<td>AIR VISE, PROJECTILE 8 INCH - used for holding 8 inch projectiles for torquing the eyebolt lifting plugs or cleaning of threads</td>
<td>Seneca Army Depot AMXSE-6902A</td>
</tr>
<tr>
<td></td>
<td>0608</td>
<td>FIXTURE, PROJECTILE OGIVE CLEANING - uses glass beads as shot blast to remove rust from 155MM ogives</td>
<td>Reserve Storage Activity Carewent RSAC Dwg 84-33 RSAC Dwg 84-36 RSAC Dwg 84-37 RSAC Dwg 84-35</td>
</tr>
<tr>
<td>FSC 1320 Ammunition 125MM to 16 inch Component – Cartridge Case &amp; Liners</td>
<td>0221</td>
<td>PUNCH, CARTRIDGE CASE MUTILATION - used in conjunction with APE 1042 to mutilate empty and deprimed cartridge cases</td>
<td>Savanna Depot Activity AMXSV-7304A Local Dwg SK-188</td>
</tr>
<tr>
<td></td>
<td>0571</td>
<td>COVER, 5 IN PROPELLING CHARGE CHARGE OR CARTRIDGE CASE PRIMER PROTECTIVE - used to protect the primer from accidental initiation while the propelling charge/cartridge case is removed from the propelling charge tank</td>
<td>Naval Ammunition Production Engineering Center NAPEC 1410</td>
</tr>
<tr>
<td></td>
<td>0572</td>
<td>COVER, 6 IN PROPELLING CHARGE CHARGE OR CARTRIDGE CASE PRIMER PROTECTIVE - used to protect the primer from accidental initiation while the propelling charge/cartridge case is removed from the propelling charge tank</td>
<td>Naval Ammunition Production Engineering Center NAPEC 1411</td>
</tr>
<tr>
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<tr>
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<td>0573</td>
<td>COVER, 8 IN PROPELLING CHARGE CHARGE OR CARTRIDGE CASE PRIMER PROTECTIVE - used to protect the primer from accidental initiation while the propelling charge/cartridge case is removed from the propelling charge tank</td>
<td>Naval Ammunition Production Engineering Center NAPEC 1412</td>
</tr>
<tr>
<td>FSC 1320 Ammunition 125MM to 16 inch Component - Primer</td>
<td>0571</td>
<td>COVER, 5 IN PROPELLING CHARGE CHARGE OR CARTRIDGE CASE PRIMER PROTECTIVE - used to protect the primer from accidental initiation while the propelling charge/cartridge case is removed from the propelling charge tank</td>
<td>Naval Ammunition Production Engineering Center NAPEC 1410</td>
</tr>
<tr>
<td></td>
<td>0572</td>
<td>COVER, 6 IN PROPELLING CHARGE CHARGE OR CARTRIDGE CASE PRIMER PROTECTIVE - used to protect the primer from accidental initiation while the propelling charge/cartridge case is removed from the propelling charge tank</td>
<td>Naval Ammunition Production Engineering Center NAPEC 1411</td>
</tr>
<tr>
<td></td>
<td>0573</td>
<td>COVER, 8 IN PROPELLING CHARGE CHARGE OR CARTRIDGE CASE PRIMER PROTECTIVE - used to protect the primer from accidental initiation while the propelling charge/cartridge case is removed from the propelling charge tank</td>
<td>Naval Ammunition Production Engineering Center NAPEC 1412</td>
</tr>
<tr>
<td></td>
<td>0022</td>
<td>FIXTURE, STAKING - used for staking the closing screw on the M48A3 PD Fuze</td>
<td>Naval Ammunition Production Engineering Center NAPEC 1410</td>
</tr>
<tr>
<td>FSC 1320 Ammunition 125MM to 16 inch Component - Fuze</td>
<td>0027</td>
<td>ADAPTER, TORQUE WRENCH - used for torque of BDF MK31, 83 and base fuze hole plugs BUORD 881163 &amp; 1152944 in 5”/38 and 16”/50 projectiles</td>
<td>Naval Ammunition Production Engineering Center WPEC Dwg 2442</td>
</tr>
<tr>
<td></td>
<td>0087</td>
<td>WRENCHES &amp; PULLER - used to remove fuzes and adapters from 5” and 6” Navy projectiles</td>
<td>Naval Ammunition Production Engineering Center ALPEC 335-A-1</td>
</tr>
<tr>
<td></td>
<td>0174</td>
<td>THREAD DIE, FUZE THREAD CLEANING - used for cleaning fuze threads on fuze, PD, M51, M500 series and M57</td>
<td>Letterkenny Army Depot AMXLE-7003E Local Dwg A 70404</td>
</tr>
<tr>
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<tr>
<td>FSC 1320 Ammunition 125MM to 16 inch Component - Fuze -- Continued</td>
<td>0344</td>
<td>WRENCH, DEFUZING F/REMOTE OPERATION - used for remote de fuzing (with a defuzing machine) of BD fuzes MK21 &amp; MK48 from 16’’/50 projectiles</td>
<td>Crane Army Ammunition Activity NAD Crane Dwg 2168</td>
</tr>
<tr>
<td></td>
<td>0358</td>
<td>WRENCH, FUZE REMOVAL - used for the removal of M500 series fuzes from various projectiles</td>
<td>Lexington-Blue Grass Depot Activity AMXLX-AP-2-6702B Local Dwg LBAD 9-145</td>
</tr>
<tr>
<td></td>
<td>0583</td>
<td>WRENCH, FUZE SETTING - used to setting sleeve on time fuzes</td>
<td>Naval Ammunition Production Engineering Center BUORD 510361</td>
</tr>
<tr>
<td></td>
<td>0585</td>
<td>WRENCH, FUZE (BELL-TYPE) - used to remove, torque and install the MK174 VT fuze to projectile</td>
<td>Naval Ammunition Production Engineering Center NAPEC 0411-6A</td>
</tr>
<tr>
<td></td>
<td>0586</td>
<td>WRENCH, FUZE (FLAT TYPE - W/INSERTS) - used to remove and install VT fuze to projectile</td>
<td>Naval Ammunition Production Engineering Center NAPEC 0411-7</td>
</tr>
<tr>
<td></td>
<td>0587</td>
<td>WRENCH, FUZE (FLAT TYPE W/INSERTS) - used to remove and install VT fuzes and adapters to projectile</td>
<td>Naval Ammunition Production Engineering Center NAPEC 0411-8</td>
</tr>
<tr>
<td></td>
<td>0588</td>
<td>WRENCH, FUZE (FLAT TYPE W/INSERTS) - used to remove and install VT fuzes and dummy nose plugs from projectiles</td>
<td>Naval Ammunition Production Engineering Center NAPEC 0411-9</td>
</tr>
<tr>
<td></td>
<td>0589</td>
<td>WRENCH, FUZE (FLAT TYPE W/INSERTS) used to remove and install CVT, MTF, PDF fuzes and dummy nose plugs</td>
<td>Naval Ammunition Production Engineering Center NAPEC 0411-10</td>
</tr>
<tr>
<td></td>
<td>0590</td>
<td>WRENCH, FUZE (FLAT TYPE W/INSERTS) - used to remove and install NTF fuzes and dummy nose fuzes</td>
<td>Naval Ammunition Production Engineering Center NAPEC 0411-11</td>
</tr>
<tr>
<td></td>
<td>0591</td>
<td>WRENCH, FUZE (FLAT TYPE W/INSERTS) - used to remove and install the MT/ PDF and PD/PO delay fuzes</td>
<td>Naval Ammunition Production Engineering Center NAPEC 0411-12</td>
</tr>
<tr>
<td>AMMUNITION ITEM AND COMPONENT</td>
<td>NON-STANDARD APE NO.</td>
<td>NOMENCLATURE - DESCRIPTION OR PURPOSE</td>
<td>DESIGN ACTIVITY IDENTIFICATION NO.</td>
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<tr>
<td>WRENCH, FUZE (FLAT TYPE - W/INSERTS)</td>
<td>0592</td>
<td>used to remove, torque and remove the MK149 nose fuze from projectile</td>
<td>Naval Ammunition Production Engineering Center NAPEC 0411-13</td>
</tr>
<tr>
<td>WRENCH, FUZE (FLAT TYPE - W/INSERTS)</td>
<td>0593</td>
<td>used to remove, torque and remove the MK174 VT fuze</td>
<td>Naval Ammunition Production Engineering Center NAPEC 0411-14</td>
</tr>
<tr>
<td>TABLE, MOUNTING, PROJECTILE VISE</td>
<td>0026</td>
<td>used to mount projectile vise, ALPEC Dwg 424-A (non standard APE 0020)</td>
<td>Naval Ammunition Production Engineering Center WPEC Dwg 2409</td>
</tr>
<tr>
<td>FIXTURE, 155MM PROJECTILE HOLDING</td>
<td>0104</td>
<td>used to hold the projectile during removal and replacement of the fuze adapter on the 155MM, VX, M121A1 round</td>
<td>Anniston Army Depot ANAD Dwg E-2-81</td>
</tr>
<tr>
<td>ADAPTER, COLLAR, SEPARATE LOADING PROJECTILE</td>
<td>0169</td>
<td>used to lift &amp; rotate 155MM projectile during the washout operation</td>
<td>Letterkenny Army Depot AMXLE-7403A Local Dwg B-70564</td>
</tr>
<tr>
<td>DRILL, AIR, THREAD, CLEANING</td>
<td>0310</td>
<td>used with an adapter for a bronze wire brush to clean threads in various size projectile fuze cavities</td>
<td>Seneca Army Depot AMXSE-6803I</td>
</tr>
<tr>
<td>THREAD CHASER, PROJECTILE FUZE THREADS</td>
<td>0319</td>
<td>used to chase threads in nose fuze well by hand operation for projectiles 57MM thru 106MM</td>
<td>Sierra Army Depot AMXSI-6902A</td>
</tr>
<tr>
<td>TRUCK, HAND, PROJECTILE, MK 2 MOD 4</td>
<td>0345</td>
<td>used to handle and transport single projectiles, 16”/50 in size, on ships, docks or any hard surface, NSN 4925-00-389-4522</td>
<td>Naval Sea Systems Command BUORD Dwg 466404</td>
</tr>
<tr>
<td>TOOL, OBTURATOR REMOVAL</td>
<td>0612</td>
<td>used to remove the obturator ring from projectile</td>
<td>CAERWENT AERUK RSAC 84-26 RSAC-84-27 RSAC-84-28</td>
</tr>
<tr>
<td>TOOL, OBTURATOR REPLACEMENT</td>
<td>0613</td>
<td>used to replace the obturator ring on the projectile</td>
<td>CAERWENT AERUK RSAC 85-28</td>
</tr>
<tr>
<td>AMMUNITION ITEM AND COMPONENT</td>
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<tr>
<td>FSC 1320 Ammunition 125MM to 16 inch Component – Fuzewell &amp; Liner</td>
<td>0034</td>
<td>45 DEGREE POSITIONING CLAMP – used to hold the projectile during removal or installation of the burster, fuzewell cup, lifting plugs and processing of fuze threads</td>
<td>Crane Army Ammunition Activity NAD Crane Dwg 7547</td>
</tr>
<tr>
<td></td>
<td>0331</td>
<td>DIAL DEPTH GAGE – FUZEWELL – used to gage the depth of cavities in rounds which have been deep drilled</td>
<td>Sierra Army Depot AMXSI-7009B</td>
</tr>
<tr>
<td></td>
<td>0357</td>
<td>WRENCH, FUZEWELL LINER REMOVER – designed to remove shallow cavity liners from M104 and M110 WP projectiles</td>
<td>Lexington-Blue Grass Depot Activity AMXLX-6702A Local Dwg LBAD-BCD9-1099</td>
</tr>
<tr>
<td></td>
<td>0422</td>
<td>WRENCH, FUZEWELL LINER, POWERED – used for insertion and removal of fuzewell liners</td>
<td>Red River Army Depot AMXRR-6710B Local Dwg 1020343</td>
</tr>
<tr>
<td></td>
<td>0459</td>
<td>TOOL, HAND, FUZE SEAT LINER – used for tightening fuze seat liners in 155MM and 175MM projectiles</td>
<td>Sierra Army Depot AMXSI-6804A</td>
</tr>
<tr>
<td></td>
<td>0478</td>
<td>TOOL, FUZEWELL LINER &amp; BOOSTER CUP REMOVAL – used to remove booster cups and fuzewell liners from 155MM projectiles</td>
<td>Anniston Army Depot AMXAN-7111A</td>
</tr>
<tr>
<td></td>
<td>0537</td>
<td>FIXTURE, FUZEWELL LINER REMOVAL – used to remove fuzewell liners from projectiles that cannot be removed using APE 1128 or 1140</td>
<td>Lexington-Blue Grass Depot Activity SDSLX-7708A</td>
</tr>
<tr>
<td>FSC 1320 Ammunition 125MM to 16 inch Component – Burster &amp; Wells</td>
<td>0034</td>
<td>45 DEGREE POSITIONING CLAMP – used to hold the projectile during removal or installation of the burster, fuzewell cup, lifting plugs and processing of fuze threads</td>
<td>Crane Army Ammunition Activity NAD Crane Dwg 7547</td>
</tr>
<tr>
<td></td>
<td>0137</td>
<td>TOOL, BURSTER REMOVAL – used for removing M6 burster from the projectile 155MM, smoke, WP, M110</td>
<td>Lexington-Blue Grass Depot Activity AMXLX-7107A</td>
</tr>
<tr>
<td></td>
<td>0339</td>
<td>TOOL, BURSTER CHARGE REMOVAL – tool slides over end of M54 burster charge and when tipped slightly will remove the charge</td>
<td>Sierra Army Depot AMXSI-7106M</td>
</tr>
<tr>
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<tr>
<td>FSC 1320 Ammunition 125MM to 16 inch Component - Supplementary Charges</td>
<td>0152</td>
<td>TOOL, SUPPLEMENTARY CHARGE REMOVAL - used for removing supplementary charge paper liners from all deep cavity shells</td>
<td>Savanna Depot Activity AMXSV-6805A Local Dwg ORDJU-115</td>
</tr>
<tr>
<td>0414</td>
<td>CUTTER, PAPER (PUNCH &amp; DIE) - used for cutting paper disc supplementary charge spacers on 155MM projectiles</td>
<td>Red River Army Depot AMXRR-6707A</td>
<td></td>
</tr>
<tr>
<td>0530</td>
<td>PNEUMATIC PICK F/SUPPL CHARGE DISC REMOVAL - used to remove the aluminum disc from stuck supplementary charges</td>
<td>Savanna Depot Activity AMXSV-7211A</td>
<td></td>
</tr>
<tr>
<td>0531</td>
<td>PNEUMATIC DRILL, STUCK SUPPL CHGE REMOVAL - used to drill supplementary charges which are stuck in rounds</td>
<td>Savanna Depot Activity AMXSV-7211B</td>
<td></td>
</tr>
<tr>
<td>FSC 1320 Ammunition 125MM to 16 inch Component - Closing Plugs</td>
<td>0105</td>
<td>CORK PLUG CUTTING MACHINE - used to remove cork plugs that cannot be removed in APE 7019 or that break off during attempted removal w/APE 7019 from propelling charge assemblies on 5”/38, 5”/54 and 6”/47 ammunition</td>
<td>Naval Ammunition Production Engineering Center NAPEC Dwg 2420</td>
</tr>
<tr>
<td>0574</td>
<td>PULLER, 5 INCH CARTRIDGE CASE PLUG - used to remove only the polyurethane plugs with igniter hole in plug from 5 inch propelling charge assemblies (will not work on cork or solid polyurethane plugs)</td>
<td>Naval Ammunition Production Engineering Center NAPEC 1364</td>
<td></td>
</tr>
<tr>
<td>0575</td>
<td>BOLT, CLOSING PLUG EXTRACTOR - used to remove cork or polyurethane plugs from 5 inch propelling charge by inserting extractor bolt into igniter hole in plug</td>
<td>Naval Weapon Station Charlestown NSW Charlestown 05-47</td>
<td></td>
</tr>
<tr>
<td>0576</td>
<td>BOLT, CLOSING PLUG EXTRACTOR- used to remove cork or polyurethane plugs from 5 inch propelling charge by inserting extractor</td>
<td>McAlester Army Ammunition Plant NAD McAlester B-1904</td>
<td></td>
</tr>
<tr>
<td>FSC 1320 Ammunition 125MM to 16 inch Component - Baseplates</td>
<td>0426</td>
<td>PIN WRENCH - used to hold the base plug from 155MM projectiles</td>
<td>Red River Army Depot AMXRR-6711G Local Dwg 1020514</td>
</tr>
<tr>
<td>FSC 1320 Ammunition 125MM to 16 inch Component - Booster</td>
<td>0032</td>
<td>FIXTURE, HOLDING - used to hold the M48 series fuze in place to assemble booster prior to staking</td>
<td>Crane Army Ammunition Activity NAD Crane Dwg 7158</td>
</tr>
<tr>
<td>AMMUNITION ITEM AND COMPONENT</td>
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</tr>
<tr>
<td>FSC 1320 Ammunition 125MM to 16 inch Component – Closing Screw</td>
<td>0029</td>
<td>WRENCH, FUZE – used to install/remove the bottom closing screw</td>
<td>Crane Army Ammunition Activity NAD Crane Dwg 6833</td>
</tr>
<tr>
<td></td>
<td>0031</td>
<td>FIXTURE, HOLDING – used to hold the M48 series fuze while drilling out the bottom closing screw stakes</td>
<td>Crane Army Ammunition Activity NAD Crane Dwg 7149</td>
</tr>
<tr>
<td>FSC 1320 Ammunition 125MM to 16 inch Component – Percussion Primer</td>
<td>0571</td>
<td>COVER, 5 INCH PROPELLING CHARGE OR CARTRIDGE CASE PRIMER PROTECTIVE – used to protect the primer from accidental initiation while the propelling charge/cartridge case is removed from the propelling charge tank</td>
<td>Naval Ammunition Production Engineering Center NAPEC 1410</td>
</tr>
<tr>
<td></td>
<td>0572</td>
<td>COVER, 6 INCH PROPELLING CHARGE OR CARTRIDGE CASE PRIMER PROTECTIVE – used to protect the primer from accidental initiation while the propelling charge/cartridge case is removed from the propelling charge tank</td>
<td>Naval Ammunition Production Engineering Center NAPEC 1411</td>
</tr>
<tr>
<td></td>
<td>0573</td>
<td>COVER, 8 INCH PROPELLING CHARGE OR CARTRIDGE CASE PRIMER PROTECTIVE – used to protect the primer from accidental initiation while the propelling charge/cartridge case is removed from the propelling charge tank</td>
<td>Naval Ammunition Production Engineering Center NAPEC 1412</td>
</tr>
<tr>
<td>FSC 1320 Ammunition 125MM to 16 inch Component – Adapters – Nose Adapter &amp; Base Adapter</td>
<td>0080</td>
<td>WRENCH ASSEMBLY, NOSE FUZE ADAPTER – used for assembly of the nose fuze adapter on 5&quot;/38 projectiles and also on the 6&quot;/47 MK 34 projectile</td>
<td>Naval Ammunition Production Engineering Center ALPEC Dwg 335-C-1</td>
</tr>
<tr>
<td></td>
<td>0081</td>
<td>WRENCH ASSEMBLY, NOSE FUZE ADAPTER – used for assembly of nose fuze adapter 5&quot;/54 – 6&quot;/47 BUORD Dwg 434054 Rev “F”, 5&quot;/54 adapter BUWEPS Dwg 2662963, Rev C</td>
<td>Naval Ammunition Production Engineering Center ALPEC Dwg 335-D-1</td>
</tr>
<tr>
<td></td>
<td>0087</td>
<td>WRENCHES &amp; PULLER – used to remove fuzes and adapters from 5&quot; and 6&quot; Navy projectiles</td>
<td>Naval Ammunition Production Engineering Center ALPEC Dwg 335-A-1</td>
</tr>
<tr>
<td>AMMUNITION ITEM AND COMPONENT</td>
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</tr>
<tr>
<td>FSC 1320 Ammunition 125MM to 16 inch Component – Cartridge Case Plugs (Cork &amp; Plastic)</td>
<td>0574</td>
<td>PULLER, 5 INCH CARTRIDGE CASE PLUG – used to remove only the polyurethane plugs with igniter hole in plug from 5 inch propelling charge assemblies (will not work on cork or solid polyurethane plugs)</td>
<td>Naval Ammunition Production Engineering Center NAPEC 1364</td>
</tr>
<tr>
<td></td>
<td>0575</td>
<td>BOLT, CLOSING PLUG EXTRACTOR – used to remove cork or polyurethane plugs from 5 inch propelling charge by inserting extractor bolt into igniter hole in plug</td>
<td>Naval Weapon Station Charlestown NSW Charlestown 05-47</td>
</tr>
<tr>
<td></td>
<td>0576</td>
<td>BOLT, CLOSING PLUG EXTRACTOR – used to remove cork or polyurethane plugs from 5 inch propelling charge by inserting extractors</td>
<td>McAlester Army Ammunition Plant NAD McAlester B-1904</td>
</tr>
<tr>
<td>FSC 1320 Ammunition 125MM to 16 inch Component – Fiber &amp; Plastic Containers</td>
<td>0149</td>
<td>LID PULLER, FIBER CONTAINERS, ARTILLERY AMMUNITION – modification kit to APE 1003 to pull a single lid</td>
<td>Savanna Depot Activity AMXSV-6705A</td>
</tr>
<tr>
<td></td>
<td>0155</td>
<td>DEVICE, PAINTING, FIBER CONTAINER, CHEMICAL AMMUNITION – used for painting chemical stripes on M253 fiber containers</td>
<td>Letterkenny Army Depot AMXLE-7007G</td>
</tr>
<tr>
<td></td>
<td>0178</td>
<td>KNIFE, TAPE CUTTING – knife with a disc guard used to cut the sealing tape on fiber container end cap to body joint</td>
<td>Lexington-Blue Grass Depot Activity AMXLX-6705D</td>
</tr>
<tr>
<td></td>
<td>0312</td>
<td>TAPING MACHINE, HAND OPERATED – used for sealing fiber containers 57MM thru 106MM with acetate tape</td>
<td>Seneca Army Depot AMXSE-6803H</td>
</tr>
<tr>
<td>FSC 1320 Ammunition 125MM to 16 inch Component – Ammunition Cart</td>
<td>0345</td>
<td>TRUCK, HAND, PROJECTILE, MK 2 MOD 4 – used to handle and transport single projectiles, 16’’/50 inch size, on ships, docks, or any hard surface, NSN 4925-00-389-4522</td>
<td>Naval Sea Systems Command BUORD Dwg 466404</td>
</tr>
<tr>
<td>FSC 1320 Ammunition 125MM to 16 inch Component – Propellant Charge Containers</td>
<td>0128</td>
<td>RESIZING MACHINE, PROPELLANT CONTAINER – used to remove dents from walls of the 175MM propelling charge container</td>
<td>Anniston Army Depot SDSAN-7710A Local Dwg E-48-77</td>
</tr>
<tr>
<td>AMMUNITION ITEM AND COMPONENT</td>
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</tr>
<tr>
<td>FSC 1320 Ammunition 125MM to 16 inch Component - Propellant Charge Containers -- Continued</td>
<td>0511</td>
<td>TOOL, AIR TEST PLUG - used to remove air test plugs on powder containers or from propelling charge container lids</td>
<td>Letterkenny Army Depot AMXLE-7007H</td>
</tr>
<tr>
<td>FSC 1320 Ammunition 125MM to 16 inch Component - Slings, Hangers, Restraining Devices</td>
<td>0596</td>
<td>WRENCH, POWER TANK - used to remove and tighten tank lid cover on 16 inch powder tanks MKIII</td>
<td>Naval Ammunition Production Engineering Center BUORD 204245</td>
</tr>
<tr>
<td>FSC 1320 Ammunition 125MM to 16 inch Component - Lifting Plugs</td>
<td>0346</td>
<td>TRUNNION BAND, PROJECTILE - used in conjunction with a sling to handle 16”/50 projectile</td>
<td>Crane Army Ammunition Activity NAD Crane 2958</td>
</tr>
<tr>
<td>0532</td>
<td>LIFTING &amp; ROTATING DEVICE - used to lift and rotate 280MM projectiles for washout</td>
<td>Savanna Depot Activity AMXSV-7303A</td>
<td></td>
</tr>
<tr>
<td>0597</td>
<td>CARRIER, 16 INCH PROPELLANT TANK MK2-0- used to lift and carry empty or loaded propellant tanks</td>
<td></td>
<td></td>
</tr>
<tr>
<td>FSC 1320 Ammunition 125MM to 16 inch Component - Lifting Plugs</td>
<td>0034</td>
<td>45 DEGREE POSITIONING CLAMP - used to hold the projectile during removal or installation of the burster fuze well cup, lifting plugs and processing of fuze threads</td>
<td>Crane Army Ammunition Activity NAD Crane Dwg 7547</td>
</tr>
<tr>
<td>0218</td>
<td>DEVICE, PRESSURE TEST, 155MM ICM AMMUNITION - used to pressure test the modified eyebolt lifting plug assembled to ICM rounds</td>
<td>Savanna Depot Activity AMXSV-7006A</td>
<td></td>
</tr>
<tr>
<td>0252</td>
<td>ADAPTER, MONORAIL CONVEYOR, EYEBOLT LIFTING PLUG - adapts projectiles 155MM, 175MM, 8-inch with eyebolt lifting plugs to hooks on the monorail conveyor</td>
<td>Red River Army Depot AMXRR-6711J</td>
<td></td>
</tr>
<tr>
<td>0359</td>
<td>ADAPTER, TORQUE WRENCH - used for torque of lifting plugs on 155MM, 175MM or 8-inch projectiles. Plugs may be with or without air sampling plugs</td>
<td>Lexington-Blue Grass Depot Activity AMXLR-6705B Local LBAD 9-146</td>
<td></td>
</tr>
<tr>
<td>0417</td>
<td>TORQUE ADAPTER, EYEBOLT LIFTING PLUG - used for removal, insertion and torquing of eyebolt lifting plugs on 155MM, 175MM &amp; 8-inch projectiles</td>
<td>Red River Army Depot AMXRR-6707G</td>
<td></td>
</tr>
<tr>
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</tr>
<tr>
<td>FSC 1320 Ammunition 125NM to 16 inch Component - Base Plugs</td>
<td>0588</td>
<td>WRENCH, FUZE (FLAT TYPE W/INSERTS) - used to remove and install VT fuzes and dummy nose plugs from projectiles</td>
<td>Naval Ammunition Production Engineering Center NAPEC 0411-9</td>
</tr>
<tr>
<td>FSC 1320 Ammunition 125MM to 16 inch Component - Expelling Charge</td>
<td>0078</td>
<td>BASE PLUG WRENCH - used to remove the base plug w/fuze from the projectile base on 5&quot;/38 and 6&quot;/47 projectiles</td>
<td>Crane Army Ammunition Activity Crane Dug 2987</td>
</tr>
<tr>
<td>FSC 1320 Ammunition 125MM to 16 inch Component - Expelling Charge</td>
<td>0079</td>
<td>WRENCH ASSEMBLY FOR BASE FUZE HOLE PLUG - used to remove and install base fuze hole plugs in projectiles</td>
<td>Naval Ammunition Production Engineering Center ALPEC Dug 335-B-1</td>
</tr>
<tr>
<td>FSC 1320 Ammunition 125MM to 16 inch Component - Expelling Charge</td>
<td>0082</td>
<td>WRENCH, EASE FUZE W/O TRACER - used for removal/installation of base fuzes (w/o tracer element) in 5&quot; and 6&quot; projectiles</td>
<td>Naval Ammunition Production Engineering Center ALPEC Dug 335-E-1</td>
</tr>
<tr>
<td>FSC 1320 Ammunition 125MM to 16 inch Component - Expelling Charge</td>
<td>0083</td>
<td>WRENCH, EASE FUZE W/TRACER - used for removal/installation of base fuzes (with tracer element) in 5&quot; and 6&quot; projectiles</td>
<td>Naval Ammunition Production Engineering Center ALPEC Dug 335-E-1</td>
</tr>
<tr>
<td>FSC 1320 Ammunition 125MM to 16 inch Component - Expelling Charge</td>
<td>0084</td>
<td>WRENCH ASSEMBLY, BASE PLUG - used to remove/install base plugs in 5&quot; and 6&quot; projectiles</td>
<td>Naval Ammunition Production Engineering Center ALPEC Dug 335-G-1</td>
</tr>
<tr>
<td>FSC 1320 Ammunition 125MM to 16 inch Component - Expelling Charge</td>
<td>0099</td>
<td>DEVICE, ADAPTER REMOVAL - used for removal of adapter assembly and pulling auxiliary detonating fuze on 5&quot;/54 comp A projectile</td>
<td>Crane Army Ammunition Activity Crane Dug 2932</td>
</tr>
<tr>
<td>FSC 1320 Ammunition 125MM to 16 inch Component - Expelling Charge</td>
<td>0233</td>
<td>THREAD CHASER - used to chase threads in the 155MM projectile base plug cavity</td>
<td>Red River Army Depot AMXRR-6708D</td>
</tr>
<tr>
<td>FSC 1320 Ammunition 125MM to 16 inch Component - Expelling Charge</td>
<td>0249</td>
<td>WRENCH, PIN, EASE PLUG - used for removal/installation of the base plug on 155MM separate loading projectiles</td>
<td>Red River Army Depot AMXRR-6711G</td>
</tr>
<tr>
<td>FSC 1320 Ammunition 125MM to 16 inch Component - Expelling Charge</td>
<td>0584</td>
<td>TORQUE WRENCH AND ADAPTER/EXPPELLING CHARGE - used to torque the expelling charge assembly to the ballast</td>
<td>Crane Army Ammunition Activity NAD Crane 6039</td>
</tr>
<tr>
<td>AMMUNITION ITEM AND COMPONENT</td>
<td>NON-STANDARD APE NO.</td>
<td>NOMENCLATURE - DESCRIPTION OR PURPOSE</td>
<td>DESIGN ACTIVITY IDENTIFICATION NO.</td>
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<tr>
<td>FSC 1320 Ammunition 125MM to 16 inch Component - Gas Check Seals</td>
<td>0131</td>
<td>PRESS, GAS CHECK SEAL - used to press gas check seals into the 8&quot;/55 HC projectile</td>
<td>Naval Ammunition Production Engineering Center NAPEC Dwg 0066</td>
</tr>
<tr>
<td>FSC 1320 Ammunition 125MM to 16 inch Component - Dummy Nose Plug or Nose Plug</td>
<td>0589</td>
<td>WRENCH, FUZE (FLAT TYPE W/INSERTS) - used to remove and install CVT, MTF, PDF fuzes and dummy nose plug</td>
<td>Naval Ammunition Production Engineering Center NAPEC 1411-10</td>
</tr>
<tr>
<td></td>
<td>0590</td>
<td>WRENCH, FUZE (FLAT TYPE W/INSERTS) - used to remove and install the NTF fuzes and dummy nose plugs</td>
<td>Naval Ammunition Production Engineering Center NAPEC 1411-11</td>
</tr>
<tr>
<td>FSC 1320 Ammunition 125MM to 16 inch Component - Chamber Gage</td>
<td>0409</td>
<td>EXTRACTOR, CHAMBER GAGE, ARTILLERY PROJECTILES - used to remove cartridges from the chamber gage after gaging is complete</td>
<td>Red River Army Depot AMXRR-6701AM</td>
</tr>
<tr>
<td>FSC 1320 Ammunition 125MM to 16 inch Component - Rotating Bands</td>
<td>0245</td>
<td>PROTECTOR, ROTATING BAND - used for protecting the rotating band during sand blast and/or painting of the projectiles</td>
<td>Red River Army Depot AMXRR-6711B</td>
</tr>
<tr>
<td></td>
<td>0253</td>
<td>MACHINE, ROTATING BAND CLEANING - used to clean the rotating band on projectiles 75MM to 8 inch</td>
<td>Red River Army Depot AMXRR-6712A</td>
</tr>
<tr>
<td></td>
<td>0317</td>
<td>MACHINE, ROTATING BAND CLEANING &amp; TAPPING - removes corrosion and tapes rotating band on 37MM thru 8 inch projectiles prior to painting</td>
<td>Sierra Army Depot AMXSI-6811C</td>
</tr>
<tr>
<td>FSC 1325 Bombs - Component - Complete Round or Item</td>
<td>0244</td>
<td>EQUIPMENT, DISASSEMBLY, REMOTE CONTROL - used to disassemble fuzes and tracers from projectiles, plugs from bombs, rocket heads, etc (single spindle machine similar to APE 1002M2)</td>
<td>Red River Army Depot AMXRR-7107A</td>
</tr>
<tr>
<td></td>
<td>0561</td>
<td>TABLE, BOMB DISASSEMBLY - hold bomb for removal of boosters, fuzewell liners, fuze cables, cavity maintenance, etc</td>
<td>Cane Army Ammunition Activity NAD Crane 5735</td>
</tr>
<tr>
<td>AMMUNITION ITEM AND COMPONENT</td>
<td>NON-STANDARD APE NO.</td>
<td>NOMENCLATURE - DESCRIPTION OR PURPOSE</td>
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</tr>
<tr>
<td>FSC 1325 Bombs - Components - Fuze Components</td>
<td>0142</td>
<td>DEBOOSTERING DEVICE - augments APE 1002M2 to perform a remote booster removal operation on bomb V.T. fuzes</td>
<td>Letterkenny Army Depot AMXLE-6902A Local Dwg A-70337</td>
</tr>
<tr>
<td></td>
<td>0327</td>
<td>PRESS, ARBOR, BOOSTER CHARGE REMOVAL - used to remove lead booster from M147A1</td>
<td>Sierra Army Depot AMXSI-6911A</td>
</tr>
<tr>
<td></td>
<td>0562</td>
<td>TOOL, CABLE LOCK RING - used to remove the lock ring from the bomb fuze cable</td>
<td>Crane Army Ammunition Activity NAD Crane 6071</td>
</tr>
<tr>
<td></td>
<td>0563</td>
<td>TOOL, CABLE REMOVAL - used to remove the fuze cable from the bomb body</td>
<td>Crane Army Ammunition Activity NAD Crane 6072</td>
</tr>
<tr>
<td></td>
<td>0564</td>
<td>WRENCH, CHARGING WELL SHIPPING PLUG - used to remove the shipping plug from the charging well</td>
<td>Crane Army Ammunition Activity NAD Crane 6713</td>
</tr>
<tr>
<td></td>
<td>0565</td>
<td>HEATER, STEAM CAVITY LINER - used to melt explosives around the cavity liner for removal</td>
<td>Crane Army Ammunition Activity NAD Crane 7551</td>
</tr>
<tr>
<td></td>
<td>0566</td>
<td>CUTTER BOMB CHARGING TUBE - used to cut the charging tube loose from the bomb body</td>
<td>Naval Ammunition Production Engineering Center NAPEC 0430</td>
</tr>
<tr>
<td></td>
<td>0567</td>
<td>WRENCH, CHARGING TUBE FITTING NUT - used to remove the fitting nut which affixes the charging tube to the bomb body</td>
<td>Crane Army Ammunition Activity NAD Crane 6217</td>
</tr>
<tr>
<td></td>
<td>0578</td>
<td>WRENCH, FUZE T - used to remove the explosive lead and housing assembly from base of MK 339 fuze</td>
<td>Naval Ammunition Production Engineering Center NAPEC 2X0194-Y3</td>
</tr>
<tr>
<td>FSC 1325 Bombs - Component - Fin &amp; Fin Kits</td>
<td>0579</td>
<td>CLAMP, SAFETY, DISPENSER TAIL FIN - used to restrain the tail cone assembly while working around or with this item</td>
<td>Naval Ammunition Production Engineering Center NAPEC 2X0194-Y4</td>
</tr>
<tr>
<td>FSC 1325 Bombs - Component - Fuzewell &amp; Liner</td>
<td>0234</td>
<td>TOOL, BOMB FUZEWELL ADAPTER - used to insert the bomb fuzewell adapter into the bomb body</td>
<td>Red River Army Depot AMXRR-6708E</td>
</tr>
<tr>
<td></td>
<td>0565</td>
<td>HEATER, STEAM CAVITY LINER - used to melt explosives around the cavity liner for removal</td>
<td>Crane Army Ammunition Activity NAD Crane 7551</td>
</tr>
<tr>
<td>AMMUNITION ITEM AND COMPONENT</td>
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<tr>
<td>FSC 1325 Bombs - Component - Burster &amp; Wells</td>
<td>0566</td>
<td>CUTTER BOMB CHARGING TUBE - used to cut the charging tube loose from the bomb body</td>
<td>Naval Ammunition Production Engineering Center NAPEC 0430</td>
</tr>
<tr>
<td>FSC 1325 Bombs - Component - Burster &amp; Wells</td>
<td>0567</td>
<td>WRENCH, CHARGING TUBE FITTING NUT - used to remove the fitting nut which affixes the charging tube to the bomb body</td>
<td>Crane Army Ammunition Activity NAD Crane 6217</td>
</tr>
<tr>
<td>FSC 1325 Bombs - Component - Body</td>
<td>0577</td>
<td>TOOL, CAVITY LINER REMOVER - used to remove the nose fuzewell cavity liner from bombs to allow steam out of the filler through the bomb nose end</td>
<td>Naval Ammunition Production Engineering Center NAPEC 1425</td>
</tr>
<tr>
<td>FSC 1325 Bombs - Component - Body</td>
<td>0577</td>
<td>TOOL, CAVITY LINER REMOVAL - used to remove the nose fuzewell cavity liner from bombs to allow steam out of the filler through the bomb nose end</td>
<td>Naval Ammunition Production Engineering Center NAPEC 1425</td>
</tr>
<tr>
<td>FSC 1325 Bombs - Component - Closing Plugs</td>
<td>0561</td>
<td>TABLE, BOMB DISASSEMBLY - hold bomb for removal of boosters, fuzewell liners, fuze cables, cavity maintenance, etc</td>
<td>Crane Army Ammunition Activity NAD Crane 5735</td>
</tr>
<tr>
<td>FSC 1325 Bombs - Component - Closing Plugs</td>
<td>0213</td>
<td>ADAPTER, TORQUE WRENCH - used to remove the nose plug from 750 # bombs</td>
<td>Savanna Depot Activity AMXSV-6810A</td>
</tr>
<tr>
<td>FSC 1325 Bombs - Component - Closing Plugs</td>
<td>0214</td>
<td>ADAPTER, TORQUE WRENCH - used to remove the tail plug from 750 # bombs</td>
<td>Savanna Depot Activity AMXSV-6810B</td>
</tr>
<tr>
<td>FSC 1325 Bombs - Component - Suspension Lugs &amp; Bands</td>
<td>0037</td>
<td>LOAD TESTER, SUSPENSION LUG - used to pull-test hell-coil inserts in the suspension lug wells of the MK 80 series low drag bombs</td>
<td>NAVAIR Systems Command SA 2810670</td>
</tr>
<tr>
<td>FSC 1325 Bombs - Component - Suspension Lugs &amp; Bands</td>
<td>0055</td>
<td>LOAD TESTER, HOISTING LUG - used to pull-test hell-coil insert in the hoisting lug well of MK 80 series low drag bombs</td>
<td>NAVAIR Systems Command SA 2810670</td>
</tr>
<tr>
<td>FSC 1325 Bombs - Component - Clustering Adapters</td>
<td>0607</td>
<td>DEVICE 500 LB GP BOMB SUSPENSION - used for hoisting and suspending bombs from APE 1035 BSR</td>
<td>Red River Army Depot (photograph only)</td>
</tr>
<tr>
<td>FSC 1325 Bombs - Component - Clustering Adapters</td>
<td>0148</td>
<td>HOLDING FIXTURE, DOWNLOADING, BOMB CLUSTER ADAPTER - holds the ADU 253/B cluster adapter while downloading bomblets from adapter</td>
<td>Savanna Depot Activity AMXSV-7005B</td>
</tr>
<tr>
<td>AMMUNITION ITEM AND COMPONENT</td>
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<tr>
<td>FSC 1325 Bombs - Component - Baseplates</td>
<td>0243</td>
<td>WRENCH, BOMB, BASEPLATE - used to install/remove baseplates on the 4000 # M56 bomb</td>
<td>Red River Army Depot AMXRR-7206A</td>
</tr>
<tr>
<td>FSC 1325 Bombs - Component - Explosive Leads Arming Wire Cable</td>
<td>0578</td>
<td>WRENCH, FUZE T - used to remove the explosive lead and housing assembly from base of MK 339 fuze</td>
<td>Naval Ammunition Production Engineering Center NAPEC 2X0194-Y3</td>
</tr>
<tr>
<td>FSC 1325 Bombs - Component - Dispensers &amp; Tubes</td>
<td>0216</td>
<td>PLUG GAGE SUU-14A/A DISPENSER - used to gage inside diameter of the SSU-14A/A dispenser tubes</td>
<td>Savanna Depot Activity AMXSI-7002A</td>
</tr>
<tr>
<td></td>
<td>0326</td>
<td>TOOL, DENT REMOVAL, SUU-14A/A OR SUU-25 DISPENSER - used to remove dents from empty SUU-14A/A o SUU-25 dispenser tubes</td>
<td>Sierra Army Depot AMXSI-6907B</td>
</tr>
<tr>
<td></td>
<td>0579</td>
<td>CLAMP, SAFETY, DISPENSER TAIL FIN - used to restrain the tail cone assembly while working around or with this item</td>
<td>Naval Ammunition Production Engineering Center NAPEC 2X0194-Y4</td>
</tr>
<tr>
<td>FSC 1325 Bombs - Component - Bomblets or Payload</td>
<td>0333</td>
<td>CART, MODIFIED FOR DOWNLOAD - UPLOAD CABINET - a modified cart used with a cabinet to download - upload. BLU-17/B bomblets into SUU-14A/A dispenser tubes</td>
<td>Sierra Army Depot AMXSI-7010B</td>
</tr>
<tr>
<td></td>
<td>0334</td>
<td>SHIELD FOR T-162 CABINET - shield used with NSA # 0333 during download upload of BLU-17/B WP bomblets</td>
<td>Sierra Army Depot AMXSI-7011A</td>
</tr>
<tr>
<td></td>
<td>0526</td>
<td>BARRICADE, BOMBLET - used for transporting armed BLU-3/B fragmentation bomblets to the demolition area</td>
<td>Savanna Depot Activity AMXSV-7003A</td>
</tr>
<tr>
<td></td>
<td>0536</td>
<td>EQUIPMENT, DOWNLOADING, CBU-25A/A &amp; CBU-25B/A - gravity type download device to safely unload the BLU-24/B bomblets from the SU-14A/A dispenser</td>
<td>Sierra Army Depot (photographs only)</td>
</tr>
<tr>
<td></td>
<td>0579</td>
<td>CLAMP, SAFETY, DISPENSER TAIL FIN - used to restrain the tail cone assembly while working around or with this item</td>
<td>Naval Ammunition Production Engineering Center NAPEC 2X0194-Y4</td>
</tr>
<tr>
<td>FSC 1325 Bombs - Component - Adapter Boosters</td>
<td>0195</td>
<td>HOLDING FIXTURE - used w/APE 1206 to remove booster casing on adapter booster, bomb tail, M147</td>
<td>Lexington-Blue Grass Depot Activity AMXLI-7111A</td>
</tr>
<tr>
<td>AMMUNITION ITEM AND COMPONENT</td>
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<tr>
<td>FSC 1325 Bombs - Component - Adapter Boosters -- Continued</td>
<td>0425</td>
<td>PIN WRENCH - used for removal of the adapter booster bushing from 750# bombs by remote control</td>
<td>Red River Army Depot</td>
</tr>
<tr>
<td>FSC 1325 Bombs - Component - Cable Assemblies</td>
<td>0049</td>
<td>TOOL, INSERTING, CABLE, T7 - used to install the fuze control cable assembly into MK 80 series low drag bombs</td>
<td>Harry Diamond Labs Dwg 10400011</td>
</tr>
<tr>
<td></td>
<td>0050</td>
<td>TOOL, INSERTING, CABLE, T6 - used to install the fuze control cable assembly into MK 80 series low drag bombs</td>
<td>Harry Diamond Labs Dwg 10400012</td>
</tr>
<tr>
<td>FSC 1325 Bombs - Component - Boosters</td>
<td>0142</td>
<td>DEBOOSTERING DEVICE - augments APE 1002M2 to perform a remote booster removal operation on bomb V.T. fuzes</td>
<td>Letterkenny Army Depot AMXLE-6902A Local Dwg A-70337</td>
</tr>
<tr>
<td></td>
<td>0327</td>
<td>PRESS, ARBOR, BOOSTER CHARGE REMOVAL - used to remove lead booster from M147A1 fuze</td>
<td>Sierra Army Depot AMXSI-6911A</td>
</tr>
<tr>
<td></td>
<td>0578</td>
<td>WRENCH, FUZE T - used to remove the explosive lead and housing assembly from base of MK 339 fuze</td>
<td>Naval Ammunition Production Engineering Center NAPEC 2x0194-Y3</td>
</tr>
<tr>
<td>FSC 1325 Bombs - Component - Shipping Plugs</td>
<td>0226</td>
<td>WRENCH, HAND - used to remove and assemble the shipping plug from tritonal bombs</td>
<td>Red River Army Depot AMXRR-6707D</td>
</tr>
<tr>
<td></td>
<td>0564</td>
<td>WRENCH, CHARGING WELL SHIPPING PLUG - used to remove the shipping plug from the charging well</td>
<td>Crane Army Ammunition Activity NAD Crane 6713</td>
</tr>
<tr>
<td>FSC 1325 Bombs - Component - Adapters Nose Adapter &amp; Base Adapter</td>
<td>0524</td>
<td>ADAPTER, SPANNER WRENCH - used to retorque the adapter in the tail of 750# M117A1 bombs after removal of the tail plug</td>
<td>Savanna Depot Activity AMXSV-6812A</td>
</tr>
<tr>
<td>FSC 1325 Bombs - Component - Metal &amp; Wooden Containers</td>
<td>0328</td>
<td>HANDLING DEVICE, CBU CONTAINERS - used to handle empty or packed metal containers containing CBUS by pushing or pulling - not lifting in rail cars</td>
<td>Sierra Army Depot AMXSI-6912D</td>
</tr>
<tr>
<td>AMMUNITION ITEM AND COMPONENT</td>
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<tr>
<td>FSC 1325 Bombs – Component – Slings, Hang-ers, Restraining Devices</td>
<td>0347</td>
<td>HANDLING SLING, BOMB – used to handle bombs up to 1000# gross weight</td>
<td>Crane Army Ammu-nition Activity NAD Crane Dwg 4193 Rev B</td>
</tr>
<tr>
<td>FSC 1325 Bombs – Component – Work Tables, Benches, etc</td>
<td>0561</td>
<td>TABLE, BOMB DISASSEMBLY – hold bomb for removal of boosters, fuzewell liners, fuze cables, cavity mainte-nance etc</td>
<td>Crane Army Ammu-nition Activity NAD Crane 5735</td>
</tr>
<tr>
<td>FSC 1325 Bombs – Component – Lifting Plug</td>
<td>0262</td>
<td>PLUG, LIFTING, EYEBOLT, BOMB – used for lifting the 4000# bomb by the nose end</td>
<td>Red River Army Depot AMXRR-6801E</td>
</tr>
<tr>
<td>FSC 1325 Bombs – Component – Base Plugs</td>
<td>0227</td>
<td>WRENCH, BOMB, BASE &amp; NOSE PLUG – used to remove and assemble base and nose plugs for bombs</td>
<td>Red River Army Depot AMXRR-6707J</td>
</tr>
<tr>
<td>FSC 1325 Bombs – Component – Dummy Nose Plug or Nose Plug</td>
<td>0232</td>
<td>WRENCH, BOMB, BASE &amp; NOSE PLUG (RE-MOTE CONTROL) – used in conjunction with a remote control disassembly machine to remove nose and base plugs</td>
<td>Red River Army Depot AMXRR-6708C</td>
</tr>
<tr>
<td>FSC 1325 Bombs – Component</td>
<td>0213</td>
<td>ADAPTER, TORQUE WRENCH – used to re-move the nose plug from 750# bombs</td>
<td>Savanna Depot Activity AMXSV-6810A</td>
</tr>
<tr>
<td></td>
<td>0214</td>
<td>ADAPTER, TORQUE WRENCH – used to re-move the tail plug from 750# bombs</td>
<td>Savanna Depot Activity AMXSV-6810B</td>
</tr>
<tr>
<td></td>
<td>0227</td>
<td>WRENCH, BOMB, BASE &amp; NOSE PLUG – used to remove and assemble base and nose plugs for bombs</td>
<td>Red River Army Depot AMXRR-6707J</td>
</tr>
<tr>
<td></td>
<td>0231</td>
<td>WRENCH, BOMB, NOSE PLUG – used to remove and assemble bomb nose plugs and to torque whenever necessary</td>
<td>Red River Army Depot AMXRR-6708B</td>
</tr>
<tr>
<td></td>
<td>0232</td>
<td>WRENCH, BOMB, BASE &amp; NOSE PLUG (RE-MOTE CONTROL) – used in conjunction with a remote control disassembly machine to remove nose and base plugs</td>
<td>Red River Army Depot AMXRR-6708C</td>
</tr>
<tr>
<td>FSC 1325 Bombs – Component – Retaining Clips</td>
<td>0059</td>
<td>TOOL, REMOVAL, RETAINING CLIP – used to remove the retaining clip during replacement of the fuze control cable assembly on MK80 series Low Drag Bombs. This item is now a com-ponent part of APE 7021</td>
<td>Naval Sea Sys-tems Command BUORD Dwg 1180471</td>
</tr>
<tr>
<td>AMMUNITION ITEM AND COMPONENT</td>
<td>NON-STANDARD APE NO.</td>
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</tr>
<tr>
<td>FSC 1325 Bombs – Component - Retaining Clips — Continued</td>
<td>0060</td>
<td>TOOL, REMOVAL, RETAINING CLIP - used to insert the retaining clip during replacement of the fuze control cable assembly on MK80 series Low Drag Bombs. This item is now a component part of APE 7021</td>
<td>Harry Diamond Labs Command HDL Dwg 10402535</td>
</tr>
<tr>
<td>FSC 1325 Bombs – Component - Fin Lock Nut</td>
<td>0235</td>
<td>WRENCH, SPANNER FOR BOMB FIN LOCK NUT - used to loosen or tighten the fin lock nut on bombs</td>
<td>Red River Army Depot AMXRR-6708P</td>
</tr>
<tr>
<td>FSC 1330 Hand &amp; Rifle Grenades Component – Complete Round or Item</td>
<td>0242</td>
<td>FIXTURE, RIFLE GRENADE DISASSEMBLY - fixture for pull apart of the M31 Rifle Grenade. Used in conjunction with APE 1001</td>
<td>Red River Army Depot AMXRR-7203A</td>
</tr>
<tr>
<td></td>
<td>0244</td>
<td>EQUIPMENT, DISASSEMBLY, REMOTE CONTROL - used to disassemble fuzes and tracers from projectiles, plugs from bombs, rocket heads, etc (single spindle machine similar to APE 1002M2)</td>
<td>Red River Army Dept AMXRR-7104A</td>
</tr>
<tr>
<td></td>
<td>0305</td>
<td>BARRICADE, PITCH IN, HAND GRENADE FUZE - used to dispose of M213 grenade fuzes which may become armed</td>
<td>Red River Army Depot AMXRR-7505A</td>
</tr>
<tr>
<td></td>
<td>0350</td>
<td>PITCH-IN CONTAINER - used to dispose of WP M15 or M34 hand grenades in emergency situations</td>
<td>Tooele Army Depot SR-81-30F</td>
</tr>
<tr>
<td>FSC 1330 Hand &amp; Rifle Grenades Component – Fuze</td>
<td>0108</td>
<td>TOOL, WASHER INSERTION - hand tool used for inserting a rubber washer in a metal washer retainer for the M213 hand grenade fuze prior to assembly to the M67 grenade</td>
<td>Red River Army Depot (photograph only)</td>
</tr>
<tr>
<td></td>
<td>0187</td>
<td>HOLDING FIXTURE GRENADE - used to hold the M26 grenade in an upright position for fuzing</td>
<td>Letterkenny Army Depot AMXLE-6912A</td>
</tr>
<tr>
<td></td>
<td>0204</td>
<td>FIXTURE, FUZING DEFUZING, M18 COLORED SMOKE GRENADE - used to fuze-defuze the M18 smoke grenade</td>
<td>Lexington-Blue Grass Depot Activity AMXLX-7303H</td>
</tr>
<tr>
<td></td>
<td>0224</td>
<td>TOOL, GRENADE SLEEVE ASSEMBLY - used to insert a fiberglass sleeve over the stem of the M204 fuze</td>
<td>Red River Army Depot AMXRR-6701Y</td>
</tr>
<tr>
<td>AMMUNITION ITEM AND COMPONENT</td>
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</tr>
<tr>
<td>Adapter, Torque Wrench</td>
<td>0360</td>
<td>ADAPTER, TORQUE WRENCH - used for defuzing-refuzing M26 hand grenades</td>
<td>Lexington-Blue Grass Depot Activity AMXLX-6705C</td>
</tr>
<tr>
<td>Fixtures, Torque</td>
<td>0395</td>
<td>FIXTURE, TORQUE - used for torquing hand grenade fuzes to the M26 grenade body</td>
<td>Red River Army Depot AMXRR-6701U local Dwg 1010115</td>
</tr>
<tr>
<td>Torque Wrenchholder</td>
<td>0396</td>
<td>TORQUE WRENCH HOLDER - used to hold the M26 grenade in position for torquing fuze</td>
<td>Red River Army Depot AMXRR-6701V local Dwg 1050728</td>
</tr>
<tr>
<td>Trays, Shielded Fuse</td>
<td>0397</td>
<td>TRAY, SHIELDED FUZE - a combination tray and shield for transporting and temporary storage when fuzes are removed from hand grenades</td>
<td>Red River Army Depot AMXRR-6701W local Dwg 1020456</td>
</tr>
<tr>
<td>Fixtures, Vibrating</td>
<td>0429</td>
<td>FIXTURE, VIBRATING - used during fuzing of MK 2 grenades to shake grenade body</td>
<td>Red River Army Depot AMXRR-6801C local Dwg 0150849</td>
</tr>
<tr>
<td>Drill, Hand</td>
<td>0297</td>
<td>DRILL, HAND - used to drill the fuzewell cavity 1/16&quot; deeper in the M67 grenade</td>
<td>Red River Army Depot AMXRR-7110B</td>
</tr>
<tr>
<td>Tool, Cavity Gage</td>
<td>0306</td>
<td>TOOL, CAVITY GAGE - used to gage the fuze cavity on M67 hand grenades</td>
<td>Red River Army Depot AMXRR-7509A</td>
</tr>
<tr>
<td>Cleaner, Grenade Fuzewell Thread</td>
<td>0449</td>
<td>CLEANER, GRENADE FUZEWELL THREAD - used to clean the fuzewell thread on M59 hand grenades</td>
<td>Red River Army Depot SDSRR-7810A</td>
</tr>
<tr>
<td>Hanger, Painting</td>
<td>0263</td>
<td>HANGER, PAINTING - used to suspend the M26 grenade body (w/o fuze) for painting</td>
<td>Red River Army Depot AMXRR-6802B</td>
</tr>
<tr>
<td>Fixture, Hand Grenade Holding</td>
<td>0568</td>
<td>FIXTURE, HAND GRENADE HOLDING - used to hold the hand grenade body while the fuze is torqued</td>
<td>Reserve Storage Activity, CAEWENT RSAC 82-2</td>
</tr>
<tr>
<td>AMMUNITION ITEM AND COMPONENT</td>
<td>NON-STANDARD APE NO.</td>
<td>NOMENCLATURE - DESCRIPTION OR PURPOSE</td>
<td>DESIGN ACTIVITY IDENTIFICATION NO.</td>
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<tr>
<td>FSC 1330 Hand &amp; Rifle Grenades Component - Body -- Continued</td>
<td>0569</td>
<td>CABINET, GRENADE BODY DRYING - used to dry defuzed grenade bodies prior to refuzing</td>
<td>Reserve Storage Activity, CAEWENT RSAC 82-37B &amp; 82-39 Local RSAS-8331</td>
</tr>
<tr>
<td>FSC 1330 Hand &amp; Rifle Grenades Component - Safety Clips</td>
<td>0146</td>
<td>TOOL, SAFETY CLIP SPREADER - used to spread the legs of the safety clip (cotter pin) to the required angle on hand grenades</td>
<td>Letterkenny Army Depot AMXLE-6905F</td>
</tr>
<tr>
<td></td>
<td>0192</td>
<td>GAGE, GO-NO-GO - used for checking the spread of the cotter pin legs on grenade safety clips for MK 2 &amp; M26 grenades</td>
<td>Letterkenny Army Depot AMXLE-7007E</td>
</tr>
<tr>
<td></td>
<td>0208</td>
<td>GAGE, GRENADE COTTER KEY SPREAD - used to check the angle of spread on the cotter pin safety device of grenade fuzes</td>
<td>Red River Army Depot AMXRR-6701X</td>
</tr>
<tr>
<td>FSC 1330 Hand &amp; Rifle Grenades Component - Fiber &amp; Plastic Containers</td>
<td>0211</td>
<td>MACHINE, STENCIL, FIBER CONTAINER - used for stenciling fiber containers for the WP M34 hand grenade</td>
<td>Tooele Army Depot AMXTE-7303A</td>
</tr>
<tr>
<td></td>
<td>0294</td>
<td>FIXTURE, TAPE CUTTER, FIBER CONTAINER - tape cutting fixture for use in tape sealing the M415A1 grenade fiber container used on M33 grenade packout</td>
<td>Red River Army Depot AMXRR-7108A</td>
</tr>
<tr>
<td>FSC 1330 Hand &amp; Rifle Grenades Component - Metal &amp; Wooden Containers</td>
<td>0220</td>
<td>TOOL, TEAR STRIP REMOVAL - used with any drill to engage and remove the tear strip from hermetically sealed metal cans (small arms cans, fuze cans, rocket igniters, etc)</td>
<td>Savanna Depot Activity AMXSV-7112A Local Sketch SK-160</td>
</tr>
<tr>
<td>FSC 1330 Hand &amp; Rifle Grenades Component - Slings, Hangers, Restraining Devices</td>
<td>0604</td>
<td>FIXTURE, HAND GRENADE HOLDING - used to hold grenade while pull test safety clip</td>
<td>Savanna Depot Activity (photograph only)</td>
</tr>
<tr>
<td>FSAC 1330 Hand &amp; Rifle Grenades Component - Grenade Fuze</td>
<td>0192</td>
<td>GAGE, GO-NO-GO - used for checking the spread of the cotter pin legs on grenade safety clips for MK 2 and M26 grenades</td>
<td>Letterkenny Army Depot AMXLE-7007E</td>
</tr>
<tr>
<td>AMMUNITION ITEM AND COMPONENT</td>
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<tr>
<td>0224 TOOL, GRENADE SLEEVE ASSEMBLY</td>
<td>used to insert a fiberglass sleeve over the stem of the M204 fuze</td>
<td>Red River Army Depot AMXRR-6701Y</td>
<td></td>
</tr>
<tr>
<td>0616 FIXTURE, HOLDING, W/TORQUE ADAPTER M7A3 FOR GS GRENADE</td>
<td>- used to secure grenade during torquing of the M201 series fuze</td>
<td>U.S. Army Defense Ammunition Center and School NSA 0616</td>
<td></td>
</tr>
<tr>
<td>FSC 1330 Hand &amp; Rifle Grenades Component - Delay Fuze Grenade Housing</td>
<td>0256 CLAMP WRENCH, DELAY HOUSING GRENADE FUZE</td>
<td>holds M204A1 fuze by clamping the delay housing of the fuze</td>
<td>Red River Army Depot AMXRR-6712D</td>
</tr>
<tr>
<td>FSC 1340 Rockets Component - Complete Round or Item</td>
<td>0167 TRAY, HOLDING, ROCKET ASSEMBLY</td>
<td>used to hold the complete 3.5” M29A2 rocket</td>
<td>Letterkenny Army Depot AMXLE-7209B Local Dwg A-70524</td>
</tr>
<tr>
<td>0229 FIXTURE, HOLDING</td>
<td>used to hold the 66MM (LAW) rocket in a fixed position</td>
<td>Red River Army Depot AMXRR-6707F</td>
<td></td>
</tr>
<tr>
<td>0241 MACHINE, PULL TEST, PNEUMATIC</td>
<td>used to perform a pull test on the (LAW) rocket separating warhead from closure</td>
<td>Red River Army Depot AMXRR-7009A</td>
<td></td>
</tr>
<tr>
<td>0244 EQUIPMENT, DISASSEMBLY, REMOTE CONTROL</td>
<td>used to disassemble fuzes and tracers from projectiles, plugs from bombs, rocket heads, etc (single spindle machine similar to APE 1002M2)</td>
<td>Red River Army Depot AMXRR-7104A</td>
<td></td>
</tr>
<tr>
<td>0247 ADAPTER, CONVEYOR (MONORAIL) HANGER</td>
<td>- used to adapt various type hangers to the APE 1044 monorail conveyor</td>
<td>Red River Army Depot AMXRR-6711E</td>
<td></td>
</tr>
<tr>
<td>0466 FLASH SHIELD</td>
<td>used with rocket disassembly machine APE 1215 to disassemble only the M29A2 practice rocket</td>
<td>Sierra Army Depot AMXS1-7005A</td>
<td></td>
</tr>
<tr>
<td>FSC 1340 Rockets Component - Fuzes</td>
<td>0529 FIXTURE, ROCKET FUZE</td>
<td>- used to remove boosters from the M404 3.5” rocket fuze (accessory to APE 1002) (remote control only)</td>
<td>Savanna Depot Activity AMXSV-7203A</td>
</tr>
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</tr>
<tr>
<td>FSC 1340 Rocket Component - Fuzes - Continued</td>
<td>0606</td>
<td><strong>FIXTURE, 2.75” WARHEAD FUZE REMOVAL ADAPTATION</strong> - used to remove the M427 fuze from the 2.75” M151 warhead in conjunction with APE 1153M1</td>
<td>McAlester Army Ammunition Plant Local Dwg D-2018</td>
</tr>
<tr>
<td>FSC 1340 Rockets Component - Fin &amp; Fin Kits</td>
<td>0161</td>
<td><strong>TOOL, FIN &amp; NOZZLE</strong> - used to assemble and remove fins and nozzles on 2.75” rocket motors</td>
<td>Letterkenny Army Depot AMXLE-7011A Local Dwg A70479</td>
</tr>
<tr>
<td>FSC 1340 Rockets Component - Windshield</td>
<td>0594</td>
<td><strong>WRENCH, FUZE (FLAT TYPE W/INSERTS)</strong> - used to install and remove the ogive nose on a rocket head</td>
<td>Naval Ammunition Production Engineering Center NAPEC 0411-15</td>
</tr>
<tr>
<td>FSC 1340 Rockets Component - Fuzewell &amp; Liner</td>
<td>0315</td>
<td><strong>TOOL, ROCKET, FUZEWELL LINER REMOVAL</strong> - used to remove fuzewell liners from 2.75” rocket warheads</td>
<td>Seneca Army Depot AMXSE-7303A</td>
</tr>
<tr>
<td>FSC 1340 Rockets Component - Closing Plugs</td>
<td>0160</td>
<td><strong>TOOL, CLOSING PLUG REMOVAL, 5” ROCKET</strong> - used to remove the 3/4” square drive closing plug on 5” rockets</td>
<td>Letterkenny Army Depot AMXLE-701F</td>
</tr>
<tr>
<td></td>
<td></td>
<td><strong>TOOL, CLOSURE DISC REMOVAL, 5” ROCKET MOTORS</strong> - used to remove the front closure disc</td>
<td>Savanna Depot Activity AMXSV-7506A</td>
</tr>
<tr>
<td></td>
<td></td>
<td><strong>TOOL, CLOSING PLUG REMOVAL</strong> - used for removing closing plugs on 5” rockets with 1/2” square drive plugs</td>
<td>Letterkenny Army Depot AMXLE-7010G</td>
</tr>
<tr>
<td>FSC 1340 Rockets Component - Primer Detonators</td>
<td>0472</td>
<td><strong>TOOL, DETONATOR REMOVAL</strong> - presses out the detonator from the detonator housing on 3.5” rockets</td>
<td>Fort Wingate Depot Activity AMXFW-7010B FWAD 896</td>
</tr>
<tr>
<td>FSC 1340 Rockets Component - Igniters</td>
<td>0114</td>
<td><strong>FIXTURE, HOLDING</strong> - used to hold the MK 165 MODS 0, 1 igniters</td>
<td>Anniston Army Depot AMXAN-7012A</td>
</tr>
<tr>
<td>FSC 1340 Rockets Component - Safety Clips</td>
<td>0117</td>
<td><strong>SHORTING CLIP</strong> - used to short the 5” Zuni rocket motor by installing clip over contact band and detent groove as rocket motor is removed from launcher tube</td>
<td>Naval Ammunition Production Engineering Center NAPEC Dwg 0079</td>
</tr>
<tr>
<td>FSC 1340 Rockets Component - Launcher</td>
<td>0237</td>
<td><strong>FIXTURE, ROCKET LAUNCHER</strong> - used for seating the aft end cover of the 66MM rocket launcher</td>
<td>Red River Army Depot AMXRR-6708I</td>
</tr>
<tr>
<td></td>
<td></td>
<td><strong>DIE, 66MM ROCKET TRIGGER COVER</strong> - retainer clip die for 66MM rocket trigger cover</td>
<td>Red River Army Depot AMXRR-6905A</td>
</tr>
<tr>
<td>AMMUNITION ITEM AND COMPONENT</td>
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</tr>
<tr>
<td>FSC 1340 Rockets Component - Warhead</td>
<td>0115</td>
<td>WRENCH, PLUG, MK 2, 3 - used to remove nose shipping plugs on 5&quot; rocket warheads MK 6 mods 1, 4</td>
<td>Naval Ammunition Production Engineering Center ALPEC Dwg 328-H-22</td>
</tr>
<tr>
<td></td>
<td>0450</td>
<td>WRENCH, TORQUE, WARHEAD - used to assemble the WDU4A/A warhead to the 2.75&quot; rocket motor</td>
<td>Red River Army Depot AMXRR-7507A Local Dwg PE-5831</td>
</tr>
<tr>
<td></td>
<td>0494</td>
<td>KIT, DISASSEMBLY, 5&quot; ROCKET HEAD - used for disassembly of 5&quot; rocket heads MK 25</td>
<td>Seneca Army Depot AMXSE-7211A</td>
</tr>
<tr>
<td></td>
<td>0551</td>
<td>FIXTURE, 2.75&quot; ROCKET WARHEAD AND MOTOR TORQUE - used to torque rocket warhead to motor without a fuze installed</td>
<td>Red River Army Depot RRAD 1030647</td>
</tr>
<tr>
<td></td>
<td>0594</td>
<td>WRENCH, FUZE (FLAT TYPE W/INSERTS) - used to install and remove the ogive nose on a rocket head</td>
<td>Naval Ammunition Production Engineering Center NAPEC 0411-15</td>
</tr>
<tr>
<td>FSC 1340 Rockets Component - Motor</td>
<td>0074</td>
<td>TOOL, REMOVAL, FRONT CLOSURE SUBASSEMBLY - used to remove the front closure subassembly during demil of 5&quot; rocket motor MK 10</td>
<td>Hawthorne Army Ammunition Plant NAD Hawth RDD-1-29-79</td>
</tr>
<tr>
<td></td>
<td>0089</td>
<td>DOLLY HAWK MISSILE - hold &amp; transport missile</td>
<td>Red River Army Depot Dwg 1050949</td>
</tr>
<tr>
<td></td>
<td>0166</td>
<td>TRAY, HOLDING - used for holding &quot;inert&quot; 3.5&quot; M29A2 motors</td>
<td>Letterkenny Army Depot AMXLE-7209A Local # A 70523</td>
</tr>
<tr>
<td></td>
<td>0222</td>
<td>TOOL, CLOSURE DISC REMOVAL 5&quot; ROCKET MOTORS - used to remove the front closure disc</td>
<td>Savanna Depot Activity AMXSV-7506A</td>
</tr>
<tr>
<td></td>
<td>0268</td>
<td>HANGER, PAINTING, FOR ROCKET MOTOR - used to suspend the M8 rocket motor for painting items suspended on monorails and run thru a standard paint booth</td>
<td>Red River Army Depot AMXRR-6803C</td>
</tr>
<tr>
<td></td>
<td>0273</td>
<td>HANGER, PAINTING FOR ROCKET MOTOR - used to suspend the 5&quot; MK 10 &amp; MODS rocket motors for painting</td>
<td>Red River Army Depot AMXRR-6805E</td>
</tr>
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</tr>
<tr>
<td>FSC 1340 Rockets Component - Motor -- Continued</td>
<td>0296</td>
<td>HANGER, MONORAIL - suspension device used to hand 2.75&quot; rocket motors from a monorail conveyor</td>
<td>Red River Army Depot AMXRR-7110A</td>
</tr>
<tr>
<td></td>
<td>0477</td>
<td>CRIMPING TOOL, PNEUMATIC - used to tighten rivets on the 3.5&quot; rocket motor</td>
<td>Anniston Army Depot AMXAN-6804B Local Dwg AS-1-68</td>
</tr>
<tr>
<td></td>
<td>0551</td>
<td>FIXTURE 2.75&quot; ROCKET WARHEAD AND MOTOR TORQUE - used to torque rocket warhead to motor without a fuze installed</td>
<td>Red River Army Depot RRAD 1030647</td>
</tr>
<tr>
<td></td>
<td>0620</td>
<td>HOLDING FIXTURE FOR 2.75&quot; ROCKET NOZZLE - used to hold rocket on table while the ground clip is being assembled</td>
<td>Red River Army Depot two photo Local Dwg 1050972</td>
</tr>
<tr>
<td></td>
<td>0621</td>
<td>TOOL, SEATING, GROUND CLIP 2.75&quot; ROCKET - used to seat the ground clip on 2.75&quot; rocket nozzle</td>
<td>Red River Army Depot one photo Local Dwg 1020601</td>
</tr>
<tr>
<td></td>
<td>0622</td>
<td>HANGER FOR 2.75&quot; ROCKET WARHEAD - used to suspend the 2.75&quot; warhead on hooks for overhead conveyer</td>
<td>Red River Army Depot one photo Local Dwg 1020600</td>
</tr>
<tr>
<td>FSC 1340 Rockets Component - Tube Closure</td>
<td>0154</td>
<td>WRENCH, CLOSURE NUT - used to remove the closure nut on JATO 14DS1000, MK 4 MOD 2</td>
<td>Savanna Depot Activity AMXSVM-6808A</td>
</tr>
<tr>
<td>FSC 1340 Rockets Component - Shorting Clips &amp; Plugs</td>
<td>0117</td>
<td>SHORTING CLIP - used to short the 5&quot; Zuni rocket motor by installing clip over contact band and detent, groove as rocket motor is removed from launcher tube</td>
<td>Naval Ammunition Production Engineering Center NAPEC Dwg 0079</td>
</tr>
<tr>
<td>FSC 1340 Rockets Component - Boosters</td>
<td>0070</td>
<td>TOOL, BOOSTER CUP REMOVAL - used to remove the booster assembly from the warhead following washout of the explosive cavity in the MK 25 rocket warhead</td>
<td>Hawthorne Army Ammunition Plant NAD Hawthorne SA 2458829</td>
</tr>
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<tr>
<td><strong>FSC 1340 Rockets Component</strong></td>
<td>0072</td>
<td><strong>WRENCH, BOOSTER CASE COVER</strong> - used to remove the booster case cover when the booster assembly cannot be removed with the booster cup removal tool for the MK 32 rocket warhead</td>
<td>Hawthorne Army Ammunition Plant NAD Hawthorne SA 2458044</td>
</tr>
<tr>
<td><strong>FSC 1340 Rockets Component</strong></td>
<td>0471</td>
<td><strong>TOOL, BOOSTER CUP MILL</strong> - used to mill the top of booster cup for 3.5” rocket fuze</td>
<td>Fort Wingate Depot Activity AMXFW-7010A</td>
</tr>
<tr>
<td><strong>FSC 1340 Rockets Component</strong></td>
<td>0473</td>
<td><strong>TOOL, BOOSTER CUP REMOVAL</strong> - used for removal of booster cup and booster from holder assembly on 3.5” rockets</td>
<td>Fort Wingate Depot Activity AMXFW-7012A</td>
</tr>
<tr>
<td><strong>FSC 1340 Rockets Component</strong></td>
<td>0529</td>
<td><strong>FIXTURE, ROCKET FUZE</strong> - used to remove boosters from the M404 3.5” rocket fuze (accessory to APE 1002) (remote control only)</td>
<td>Savanna Depot Activity AMXS-7203A</td>
</tr>
<tr>
<td><strong>FSC 1340 Rockets Component</strong></td>
<td>0073</td>
<td><strong>WRENCH, NOSE SHIPPING PLUG</strong> - used to remove the nose shipping plug and gasket during deim of the MK 25 rocket warhead</td>
<td>Hawthorne Army Ammunition Plant NAD Hawthorne SA 2458061</td>
</tr>
<tr>
<td><strong>FSC 1340 Rockets Component</strong></td>
<td>0099</td>
<td><strong>ADAPTER REMOVAL DEVICE</strong> - used for removal of adapter assembly and pulling auxiliary detonating fuze on 5”/54 comp C projectile or 4.5” rocket head</td>
<td>Crane Army Ammunition Activity Crane Dwg 2932</td>
</tr>
<tr>
<td><strong>FSC 1340 Rockets Component</strong></td>
<td>0594</td>
<td><strong>WRENCH, FUZE (FLAT TYPE W/INSERTS)</strong> - used to install and remove the ogive nose on a rocket head</td>
<td>Naval Ammunition Production Engineering Center NAPEC 0411-15</td>
</tr>
<tr>
<td><strong>FSC 1340 Rockets Component</strong></td>
<td>0099</td>
<td><strong>ADAPTER REMOVAL DEVICE</strong> - used for removal of adapter assembly and pulling auxiliary detonating fuze on 5”/54 comp C projectile or 4.5” rocket head</td>
<td>Crane Army Ammunition Activity Crane Dwg 2932</td>
</tr>
<tr>
<td><strong>FSC 1340 Rockets Component</strong></td>
<td>0550</td>
<td><strong>MACHINE, FIBER CONTAINER TAPING</strong> - used to tape fiber container up to 68” long</td>
<td>Red River Army Depot RRAD photo</td>
</tr>
<tr>
<td><strong>FSC 1340 Rockets Component</strong></td>
<td>0088</td>
<td><strong>PULLER, END CAP</strong> - used to remove the end cap from M55 - 115MM rocket containers (chemical item)</td>
<td>Lexington-Blue Grass Depot Activity LBAD Dwg 9-157</td>
</tr>
<tr>
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</tr>
<tr>
<td>FSC 1340 Rockets Component - Metal &amp; Wooden Containers -- Continued</td>
<td>0220</td>
<td>TOOL, TEAR STRIP REMOVAL - used with any drill to engage and remove the tear strip from hermetically sealed metal cans (small arms cans, fuze cans, rocket igniters, etc)</td>
<td>Savanna Depot Activity AMXSV-7112A (local sketch SK-160)</td>
</tr>
<tr>
<td>FSC 1340 Rockets Component - Packing Supports</td>
<td>0324</td>
<td>TOOL - DENT REMOVAL - used for removing dents from 2.75 inch rocket containers and CBU dispensers</td>
<td>Sierra Army Depot AMXSI-6903B</td>
</tr>
<tr>
<td>FSC 1340 Rockets Component - Slings, Hangers, Restraining Devices</td>
<td>0441</td>
<td>EQUIPMENT, STUCK ROCKET REMOVAL - used to remove M229 rockets stuck in fiber containers due to adhesive bond between container &amp; horseshoe washer</td>
<td>Tooele Army Depot TEAD SK 82-06F</td>
</tr>
<tr>
<td>FSC 1340 Rockets Component - Base Plugs</td>
<td>0424</td>
<td>PAINT HANGER, MONORAIL CONVEYOR - used to hold 5&quot; rockets MK 10 mods from a monorail conveyor for painting in a paint booth</td>
<td>Red River Army Depot AMXRR-6805E</td>
</tr>
<tr>
<td>FSC 1340 Rockets Component - Initiators</td>
<td>0067</td>
<td>WRENCH, BASE PLUG - used to remove the case plug from the case base on the MK 25 rocket warhead</td>
<td>Hawthorne Army Ammunition Plant SA 2458058</td>
</tr>
<tr>
<td>FSC 1340 Rockets Component - Base Plugs</td>
<td>0068</td>
<td>EXTRACTOR, INITIATOR CASE LOCKING PLUG - used to remove the initiator assembly on the MK 25 rocket warhead</td>
<td>Hawthorne Army Ammunition Plant SA 2458800</td>
</tr>
<tr>
<td>FSC 1340 Rockets Component - Initiators</td>
<td>0069</td>
<td>WRENCH, INITIATOR, CASE LOCKING PLUG - used to remove the initiator case locking ring prior to removing the initiator case</td>
<td>Hawthorne Army Ammunition Plant NAD Hawthorne SA 2458814</td>
</tr>
<tr>
<td>FSC 1340 Rockets Component - Base</td>
<td>0071</td>
<td>WRENCH, BASE ADAPTER - used to remove the warhead base during disassembly of the MK 32 rocket whd</td>
<td>Hawthorne Army Ammunition Plant NAD Hawthorne SA 2458039</td>
</tr>
<tr>
<td>FSC 1345 Land Mines Component - Complete Round or Item</td>
<td>0453</td>
<td>EQUIPMENT FOR DISASSEMBLY OF MINE M2A4 - used for disassemble M2A4 mines for demil. Accessory to APE 1001M1 for remote operation</td>
<td>Umatilla Depot AMXUM-6711A</td>
</tr>
<tr>
<td>FSC 1345 Land Mines Component - Fuze</td>
<td>0492</td>
<td>EQUIPMENT FOR DISASSEMBLY OF MINE M2 SERIES - used to remove the cap from mine M2 series. Accessory to APE 1001M1 for remote operation</td>
<td>Seneca Army Depot AMXSE-7202A</td>
</tr>
<tr>
<td>FSC 1345 Land Mines Component - Fuze</td>
<td>0209</td>
<td>THREAD CHASING DIE &amp; WIRE BRUSH - used for cleaning fuze adapter on mine, land, gas, VX, M23</td>
<td>Tooele Army Depot AMXTE-6712A</td>
</tr>
<tr>
<td>AMMUNITION ITEM AND COMPONENT</td>
<td>NON-STANDARD APE NO.</td>
<td>NOMENCLATURE - DESCRIPTION OR PURPOSE</td>
<td>DESIGN ACTIVITY IDENTIFICATION NO.</td>
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</tr>
<tr>
<td>FSC 1345 Land Mines Compo-</td>
<td>0230</td>
<td>FIXTURE, FUZE CAVITY CLEANING - used</td>
<td>Red River Army Depot AMXRR-6708A</td>
</tr>
<tr>
<td>nent - Fuzewell &amp; Liner</td>
<td></td>
<td>for cleaning the M605 fuze cavity in</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>M16 series mines</td>
<td></td>
</tr>
<tr>
<td>FSC 1345 Land Mines Compo-</td>
<td>0109</td>
<td>BUSHING ADAPTER - used to check the</td>
<td>Savanna Depot Activity Sketch only</td>
</tr>
<tr>
<td>nent - Burster &amp; Wells</td>
<td></td>
<td>disassembly torque of the bushing in</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>M16 series AP mines</td>
<td></td>
</tr>
<tr>
<td>FSC 1345 Land Mines Compo-</td>
<td>0180</td>
<td>CAP PULLER, AP MINE - used to pull</td>
<td>Lexington-Blue Grass Depot Activity</td>
</tr>
<tr>
<td>nent - Mine Body</td>
<td></td>
<td>cap of AP M2 series mines. Used in</td>
<td>AMXLX-6912A</td>
</tr>
<tr>
<td></td>
<td></td>
<td>conjunction with APE 101 remote con-</td>
<td></td>
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<td></td>
<td></td>
<td>trol</td>
<td></td>
</tr>
<tr>
<td></td>
<td>0193</td>
<td>DEVICE, CLOSING DISC REMOVAL - used</td>
<td>Lexington-Blue Grass Depot Activity</td>
</tr>
<tr>
<td></td>
<td></td>
<td>to remove the closing disc in M3 AP</td>
<td>AMXLX-7107B</td>
</tr>
<tr>
<td></td>
<td></td>
<td>mines by remote control utilizing an</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>air cylinder (remote operation)</td>
<td></td>
</tr>
<tr>
<td></td>
<td>0307</td>
<td>JAW, HOLDING - used to hold the M2</td>
<td>Sierra Army Depot AMXSI-7212A</td>
</tr>
<tr>
<td></td>
<td></td>
<td>series mine while mutilating mine</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>case in APE 1002M2 machine</td>
<td></td>
</tr>
<tr>
<td>FSC 1345 Land Mines Compo-</td>
<td>0365</td>
<td>DISASSEMBLY MACHINE - a holding fix-</td>
<td>Lexington-Blue Grass Depot Activity</td>
</tr>
<tr>
<td>nent - Boosters</td>
<td></td>
<td>ture for removal of the housing</td>
<td>AMXLX-7206A</td>
</tr>
<tr>
<td></td>
<td></td>
<td>relay booster from the projectile.</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>Used w/APE 1206 and 1001-E001 shield</td>
<td></td>
</tr>
<tr>
<td>FSC 1365 Military Chemical</td>
<td>0196</td>
<td>MOUNT - mounts the M12A1 decontami-</td>
<td>Lexington-Blue Grass Depot Activity</td>
</tr>
<tr>
<td>Agents Component - Filler</td>
<td></td>
<td>nation apparatus for use with a ten</td>
<td>AMXLX-7204A</td>
</tr>
<tr>
<td>(Explosive, Chemical,</td>
<td></td>
<td>ton trailer, &amp; other associated de-</td>
<td></td>
</tr>
<tr>
<td>Smoke, etc)</td>
<td></td>
<td>contamination items such as a quick</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>fill hopper</td>
<td></td>
</tr>
<tr>
<td>FSC 1365 Military Chemical</td>
<td>0040</td>
<td>FIXTURE, HANDLING, ONE-TON CONTAINER</td>
<td>Toodle Army Depot RMA Dwg-E10-7-15</td>
</tr>
<tr>
<td>Agents Component - Metal &amp;</td>
<td></td>
<td>- used to rotate 1-ton container for</td>
<td></td>
</tr>
<tr>
<td>Wooden Containers</td>
<td></td>
<td>valve changes and sample access.</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>Tube replaced by standard APE 1982</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>ton container, plug &amp; valve replace-</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>ment equipment</td>
<td></td>
</tr>
<tr>
<td></td>
<td>0617</td>
<td>FORKLIFT ADAPTER FOR M1 LIFTING BEAM</td>
<td>DACS</td>
</tr>
<tr>
<td></td>
<td></td>
<td>- used for transfer one-ton contain-</td>
<td></td>
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<tr>
<td></td>
<td></td>
<td>er</td>
<td></td>
</tr>
<tr>
<td>FSC 1370 Pyrotechnics Com-</td>
<td>0570</td>
<td>CLAMP, OUTER TUBE CRADLE - used to</td>
<td>Naval Ammunition Production Engi-</td>
</tr>
<tr>
<td>ponents - Complete Round or</td>
<td></td>
<td>hold the signal while cutting the</td>
<td>neering Center NAPEC 1344</td>
</tr>
<tr>
<td>Item</td>
<td></td>
<td>outer tube for removal of the fuze</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>and expellant assembly</td>
<td></td>
</tr>
<tr>
<td>AMMUNITION ITEM AND COMPONENT</td>
<td>NON-STANDARD APE NO.</td>
<td>NOMENCLATURE - DESCRIPTION OR PURPOSE</td>
<td>DESIGN ACTIVITY IDENTIFICATION NO.</td>
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</tr>
<tr>
<td>FSC 1370 Pyrotechnics Components - Complete Round or Item -- Continued</td>
<td>0600</td>
<td>FLARE CRADLE - restraints the MK 45-0 flare and orients flare so end to be drilled is facing the end shield</td>
<td>Naval Ammunition Production Engineering Center NAPEC 1264</td>
</tr>
<tr>
<td>FSC 1370 Pyrotechnics Components - Fuze</td>
<td>0601</td>
<td>FIXTURE, FLARE HOLDING - holds the flare in an upright position to remove and replace the MK 364 fuze</td>
<td>Naval Ammunition Production Engineering Center NAPEC 1245</td>
</tr>
<tr>
<td>FSC 1370 Pyrotechnics Components - Fuze</td>
<td>0558</td>
<td>FIXTURE, FUZE BODY AND GUIDE SHOE - used in the disassembly of the fuze and propellant assembly</td>
<td>Crane Army Ammunition Activity NAD Crane 4770</td>
</tr>
<tr>
<td>FSC 1370 Pyrotechnics Components - Fuze</td>
<td>0559</td>
<td>TOOL, NUT HAND - used in the disassembly of the fuze and propellant assembly</td>
<td>Crane Army Ammunition Activity NAD Crane 4999</td>
</tr>
<tr>
<td>FSC 1370 Pyrotechnics Components - Fuze</td>
<td>0560</td>
<td>TOOL, INSULATOR HAND - used in the removal of insulator form the squib and battery assembly</td>
<td>Crane Army Ammunition Activity NAD Crane 5003</td>
</tr>
<tr>
<td>FSC 1370 Pyrotechnics Components - Fuze</td>
<td>0601</td>
<td>FIXTURE, FLARE HOLDING - holds the flare in an upright position to remove and replace the MK 364 fuze</td>
<td>Naval Ammunition Production Engineering Center NAPEC 1245</td>
</tr>
<tr>
<td>FSC 1370 Pyrotechnics Components - Closing Plug</td>
<td>0570</td>
<td>CLAMP, OUTER TUBE CRADLE - used to hold the signal while cutting the outer tube for removal of the fuze and expellant assembly</td>
<td>Naval Ammunition Production Engineering Center NAPEC 1344</td>
</tr>
<tr>
<td>FSC 1370 Pyrotechnics Components - Timers</td>
<td>0553</td>
<td>RAM AND HOLDER - used to hold upper carrier assembly for removing the timer by pressing out with arbor press ram</td>
<td>Naval Ammunition Production Engineering Center NAPEC Dwg 1347</td>
</tr>
<tr>
<td>FSC 1370 Pyrotechnics Components - Firing Devices</td>
<td>0398</td>
<td>FIXTURE, TRIP FLARE ASSEMBLY - used to assemble the firing mechanism to the M49A1 trip flare (springs, levers, striker assemblies)</td>
<td>Red River Army Depot AMXRR-6701AA</td>
</tr>
<tr>
<td>FSC 1370 Pyrotechnics Components - Ogive</td>
<td>0554</td>
<td>PULLER, OUTER TUBE NOSE - used to pull the nose end of the signal from the outer tube</td>
<td>Naval Ammunition Production Engineering Center NAPEC Dwg 1348</td>
</tr>
<tr>
<td>FSC 1370 Pyrotechnics Components - Ogive</td>
<td>0555</td>
<td>PULLER, UPPER CARRIER NOSE - used to pull the signal nose from the upper carrier assembly</td>
<td>Naval Ammunition Production Engineering Center NAPEC Dwg 1349</td>
</tr>
<tr>
<td>AMMUNITION ITEM AND COMPONENT</td>
<td>NON-STANDARD APE NO.</td>
<td>NOMENCLATURE - DESCRIPTION OR PURPOSE</td>
<td>DESIGN ACTIVITY IDENTIFICATION NO.</td>
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<tr>
<td>FSC 1370 Pyrotechnics Com-</td>
<td>0556</td>
<td>TOOL, UPPER CARRIER REMOVAL - used</td>
<td>Crane Army Ammu-</td>
</tr>
<tr>
<td></td>
<td></td>
<td>to remove the upper carrier from the</td>
<td>nition Activity</td>
</tr>
<tr>
<td></td>
<td></td>
<td>outer tube</td>
<td>NAD Crane 5505</td>
</tr>
<tr>
<td>FSC 1375 Demolition Mate-</td>
<td>0090</td>
<td>TABLE, STANDARD - standard table</td>
<td>Crane Army Ammu-</td>
</tr>
<tr>
<td></td>
<td></td>
<td>used for the repack of MK 24 mods 3</td>
<td>nition Activity</td>
</tr>
<tr>
<td></td>
<td></td>
<td>&amp; 4 A/C flares</td>
<td>NAD Crane Dwg 3333</td>
</tr>
<tr>
<td>FSC 1375 Demolition Mate-</td>
<td>0156</td>
<td>TOOL, BORE BRUSH - used to hold cal</td>
<td>Letterkenny Army</td>
</tr>
<tr>
<td></td>
<td></td>
<td>.30 and .50 caliber bore brushes to</td>
<td>Depot AMXLE-7007I</td>
</tr>
<tr>
<td></td>
<td></td>
<td>clean detonator wells for Bangalore</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>torpedoes and demolition charges</td>
<td></td>
</tr>
<tr>
<td>FSC 1375 Demolition Mate-</td>
<td>0153</td>
<td>TOOL, EXERCISING, FIRING DEVICE -</td>
<td>Savanna Depot</td>
</tr>
<tr>
<td></td>
<td></td>
<td>used to exercise firing device, de-</td>
<td>Activity AMXSV-6805B</td>
</tr>
<tr>
<td></td>
<td></td>
<td>molition, pull-release, type M3</td>
<td></td>
</tr>
<tr>
<td>FSC 1375 Demolition Mate-</td>
<td>0260</td>
<td>SHIELD, FIRING DEVICE - provides a</td>
<td>Red River Army</td>
</tr>
<tr>
<td></td>
<td></td>
<td>flash tube when working on firing</td>
<td>Depot AMXRR-6801B</td>
</tr>
<tr>
<td></td>
<td></td>
<td>devices</td>
<td></td>
</tr>
<tr>
<td>FSC 1375 Demolition Mate-</td>
<td>0283</td>
<td>GAGE, GO-NO-GO FIRING DEVICE - go-</td>
<td>Red River Army</td>
</tr>
<tr>
<td></td>
<td></td>
<td>no-go gage for use on the M3 firing</td>
<td>Depot AMXRR-6810C</td>
</tr>
<tr>
<td></td>
<td></td>
<td>device</td>
<td></td>
</tr>
<tr>
<td>FSC 1375 Demolition Mate-</td>
<td>0284</td>
<td>FIXTURE, HOLDING, FIRING DEVICE -</td>
<td>Red River Army</td>
</tr>
<tr>
<td></td>
<td></td>
<td>used to hold the M3 firing device</td>
<td>Depot AMXRR-6810D</td>
</tr>
<tr>
<td></td>
<td></td>
<td>for hand reaming operation</td>
<td></td>
</tr>
<tr>
<td>FSC 1375 Demolition Mate-</td>
<td>0285</td>
<td>TOOL, SPACING, FIRING DEVICE - used</td>
<td>Red River Army</td>
</tr>
<tr>
<td></td>
<td></td>
<td>for spacing the firing pin slots on</td>
<td>Depot AMXRR-6810E</td>
</tr>
<tr>
<td></td>
<td></td>
<td>M3 firing device</td>
<td></td>
</tr>
<tr>
<td>FSC 1375 Demolition Mate-</td>
<td>0287</td>
<td>REAMER - used with a stop and guide</td>
<td>Red River Army</td>
</tr>
<tr>
<td></td>
<td></td>
<td>to ream the body of the M3 firing</td>
<td>Depot AMXRR-6811B</td>
</tr>
<tr>
<td></td>
<td></td>
<td>device</td>
<td></td>
</tr>
<tr>
<td>FSC 1375 Demolition Mate-</td>
<td>0101</td>
<td>SHIELD, ELECTRIC BLASTING CAP TEST-</td>
<td>Savanna Depot</td>
</tr>
<tr>
<td></td>
<td></td>
<td>ING - protects operator during test-</td>
<td>Activity un-numbered</td>
</tr>
<tr>
<td></td>
<td></td>
<td>ing of electric blasting caps</td>
<td>sketch</td>
</tr>
<tr>
<td>FSC 1375 Demolition Mate-</td>
<td>0168</td>
<td>FIXTURE, DEMIL - used for demil of</td>
<td>Letterkenny Army</td>
</tr>
<tr>
<td></td>
<td></td>
<td>charge demolition linear, M2A1 &amp; M3</td>
<td>Depot AMXLE-7303A</td>
</tr>
<tr>
<td></td>
<td></td>
<td>by cutting rolled edge of charge</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>container</td>
<td></td>
</tr>
<tr>
<td>FSC 1376 Bulk Explosives</td>
<td>0427</td>
<td>AIR TEST LID - used for conducting</td>
<td>Red River Army</td>
</tr>
<tr>
<td></td>
<td>Component - Prop-</td>
<td>an air test on powder cans in stor-</td>
<td>Depot AMXRR-6711H</td>
</tr>
<tr>
<td></td>
<td>pellant &amp; Holders</td>
<td>age</td>
<td></td>
</tr>
<tr>
<td>AMMUNITION ITEM AND COMPONENT</td>
<td>NON-STANDARD APE NO.</td>
<td>NOMENCLATURE - DESCRIPTION OR PURPOSE</td>
<td>DESIGN ACTIVITY IDENTIFICATION NO.</td>
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</tr>
<tr>
<td>FSC 1376 Bulk Explosives Component - Filler (Explosive, Chemical, Smoke, etc)</td>
<td>0257</td>
<td>TOOL, FLUME CLEANING - shovel used for cleaning flume in the APE 1300 washout plant</td>
<td>Red River Army Depot AMXRR-6712E</td>
</tr>
<tr>
<td>FSC 1376 Bulk Explosives Component - Metal &amp; Wooden Containers</td>
<td>0250</td>
<td>FIXTURE, AIR TEST - used for air test of powder cans with a spider type lid</td>
<td>Red River Army Depot AMXRR-6711H</td>
</tr>
<tr>
<td>FSC 1376 Bulk Explosives Component - Propellant Charge Containers</td>
<td>0159</td>
<td>TOOL, AIR TEST - used to air test bulk powder containers</td>
<td>Letterkenny Army Depot AMXLE-7010D Local Dwg D-150</td>
</tr>
<tr>
<td>FSC 1377 Cartridge Actuated Devices/Propellant Actuated Devices Component - Initiators</td>
<td>0511</td>
<td>TOOL, AIR TEST PLUG - used to remove air test plugs on propellant charge containers</td>
<td>Letterkenny Army Depot AMXLE-7007H</td>
</tr>
<tr>
<td></td>
<td>0514</td>
<td>TOOL, AIR TEST - used for air testing of small powder containers</td>
<td>Letterkenny Army Depot AMXLE-7010E</td>
</tr>
<tr>
<td>FSC 1377 Cartridge Actuated Devices/Propellant Actuated Devices Component - Initiators</td>
<td>0112</td>
<td>FIXTURE, FUNCTION TEST, IGNITER - fixture used in conducting a surveillance function test of ignition cylinders flamethrower, M1</td>
<td>Anniston Army Depot AMXAN-7011A</td>
</tr>
<tr>
<td></td>
<td>0139</td>
<td>FIXTURE, FUNCTION TEST, IGNITER - fixture used in conducting a surveillance function test of ignition cylinders flamethrower, M1</td>
<td>Pueblo Depot Activity AMXOU-7202A</td>
</tr>
<tr>
<td>FSC 1390 Fuzes &amp; Primers Component - Complete Round or Item</td>
<td>0383</td>
<td>TORQUE WRENCH ADAPTER - used to torque M500 series, and M519, M521, M524, M526 mortar fuzes</td>
<td>Red River Army Depot AMXRR-6701F Local Dwg 1020459</td>
</tr>
<tr>
<td>FSC 1390 Fuzes &amp; Primers Component - Primer</td>
<td>0299</td>
<td>DEVICE, FIRING PIN, PRIMER TESTING - used in conjunction with APE 1931 to test fire M92 primers</td>
<td>Red River Army Depot AMXRR-7312A</td>
</tr>
<tr>
<td></td>
<td>0300</td>
<td>DEVICE, FIRING PIN, PRIMER TESTING - used in conjunction with APE 1931 to test fire M38 primers</td>
<td>Red River Army Depot AMXRR-7312B</td>
</tr>
<tr>
<td>Ammunition Item and Component</td>
<td>Non-Standard Ape No.</td>
<td>Nomenclature - Description or Purpose</td>
<td>Design Activity Identification No.</td>
</tr>
<tr>
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</tr>
<tr>
<td><strong>Device, Inspection, Primer</strong></td>
<td>0301</td>
<td>Inspection mirror for use in inspecting the M58 primer</td>
<td>Red River Army Depot AMXRR-7401A</td>
</tr>
<tr>
<td><strong>Adapter, Primer Torque Test</strong></td>
<td>0332</td>
<td>Used with an approved torque wrench for testing M58 primer torque in 90MM cartridge cases</td>
<td>Sierra Army Depot AMXSI-7010A</td>
</tr>
<tr>
<td><strong>Drill Guide and Primer Remover</strong></td>
<td>0372</td>
<td>Used for removal and replacement of the M29A1 primer assembly for the M501 series fuze</td>
<td>Pueblo Army Depot AMXPU-6911A</td>
</tr>
<tr>
<td><strong>Primer Inserter</strong></td>
<td>0373</td>
<td>Used for installing new M29A1 primer in M501 fuze</td>
<td>Pueblo Army Depot AMXPU-6911B</td>
</tr>
<tr>
<td><strong>Primer Staking Guide</strong></td>
<td>0374</td>
<td>Used for staking new M29A1 primer assemblies in M501 fuze</td>
<td>Pueblo Army Depot AMXPU-6911C</td>
</tr>
<tr>
<td><strong>Primer Tester Holder</strong></td>
<td>0479</td>
<td>Used for function testing of primer assembly M29A1 (augments APE 1931)</td>
<td>Anniston Army Depot AMXAN-7312A</td>
</tr>
<tr>
<td><strong>Machinist, Staking</strong></td>
<td>0125</td>
<td>Used for staking of M520 series fuze assemblies</td>
<td>Anniston Army Depot AMXAN-7210A</td>
</tr>
<tr>
<td><strong>Fixture, Positioning</strong></td>
<td>0127</td>
<td>Used to position paint &amp; heat shields on VT fuzes prior to coating</td>
<td>Anniston Army Depot AMXAN-7407A &amp; D-70258 &amp; one photo</td>
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<tr>
<td><strong>Tool, Booster Removal</strong></td>
<td>0132</td>
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<td>Letterkenny Army Depot AMXLE-6905E &amp; D-70258 &amp; one photo</td>
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<td><strong>Vise, Air Activated, Portable</strong></td>
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<td><strong>Fixture, Staking</strong></td>
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<td>Pueblo Army Depot AMXPU-7304A</td>
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FSC 1390 Fuzes & Primers Component - Fuzes
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<tr>
<td>CLEANING FIXTURE, FUZE OGIVE</td>
<td>0205</td>
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<td>THREAD CHASER, FUZE</td>
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<td>Red River Army Depot AMXRR-6711F</td>
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<td>WRENCH, TORQUE ADAPTER</td>
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<tr>
<td>WRENCH, TORQUE ADAPTER</td>
<td>0282</td>
<td>used for torque test of MK 27 fuze used on 40MM projectile (used in conjunction of APE 1065 or 1204)</td>
<td>Red River Army Depot AMXRR-6810B</td>
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<tr>
<td>CLEANING DEVICE, FUZE</td>
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<td>DRILL PRESS W/PLEXIGLASS SHIELD</td>
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<td>ADAPTER, TORQUE, FUZE HEAD ASSEMBLY</td>
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<td>WRENCH, FUZE</td>
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<td>MACHINE, BOOSTER REMOVAL</td>
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<tr>
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<tr>
<td>PRIMER INserter</td>
<td>0373</td>
<td>used for installing new M29A1 primer in M501 fuze</td>
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<tr>
<td>FSC 1390 Fuzes &amp; Primers Component - Fuze --- Continued</td>
<td>0374</td>
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<td>Pueblo Army Depot AMXPU-6911C</td>
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<td></td>
<td>0406</td>
<td>ADAPTER, TORQUE WRENCH - used to torque the M500 series, M519, M524, M526, M572 fuze to their boosters</td>
<td>Red River Army Depot AMXRR-6701AJ Local Dwg 1020459</td>
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<td>0408</td>
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<td>Red River Army Depot AMXRR-6701AL</td>
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<td>0416</td>
<td>TORQUING FIXTURE - used with a standard torque wrench when necessary to torque fuze heads on mortar fuze bodies</td>
<td>Red River Army Depot AMXRR-6707E</td>
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<td>0485</td>
<td>GAGE, FUZE - used to gage the M557 fuze assembly</td>
<td>Seneca Army Dept AMXSE-6803B</td>
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<td>0505</td>
<td>HOLDER, FUZE - holds fuze while removing excess tetryl from the base of the fuze</td>
<td>Letterkenny Army Depot AMXLE-6907F</td>
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<td>0512</td>
<td>BARRICADE, FUZE - used for deboostering V.T. fuzes</td>
<td>Letterkenny Army Depot AMXLE-7008B</td>
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<td></td>
<td>0518</td>
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<td>Letterkenny Army Depot AMXLE-7108A</td>
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<td>Letterkenny Army Depot AMXLE-6910A</td>
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<tr>
<td></td>
<td>0185</td>
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<td>Letterkenny Army Depot AMXLE-6910C</td>
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<tr>
<td></td>
<td>0401</td>
<td>FUZE NEST - nest for drilling the windshield of M51A5 fuze for conversion to M572 fuzes</td>
<td>Red River Army Depot AMXRR-6701AF Local Dwg 1050778</td>
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<tr>
<td></td>
<td>0407</td>
<td>EQUIPMENT, EPOXY DISPENSING - used to epoxy fill the windshield of converted M572 fuzes</td>
<td>Red River Army Depot AMXRR-6701AK</td>
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<td>FSC 1390 Fuzes &amp; Primers Component - Fuze-well &amp; Liner</td>
<td>0322</td>
<td>TOOL, HAND, FUZE SEAT LINER - used to remove the shallow fuze seat liners from various projectiles</td>
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<td>FSC 1390 Fuzes &amp; Primers Component - Body</td>
<td>0323</td>
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<td>Sierra Army Depot AMXSI-6902E</td>
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<tr>
<td>FSC 1390 Fuzes &amp; Primers Component - Adapter Booster</td>
<td>0456</td>
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<td>Letterkenny Army Depot AMXLE-6703A Local Dwg B-70261</td>
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<td>0132</td>
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<td>Letterkenny Army Depot AMXLE-6905E Local Dwg 70258 &amp; 1 photo</td>
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<td>0142</td>
<td>DEBOOSTERING DEVICE - augments APE 1002M2 to perform a remote booster removal operation on bomb V.T. fuzes</td>
<td>Letterkenny Army Depot AMXLE-6902A Local Dwg A-70337</td>
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<td>0197</td>
<td>WRENCH, BOOSTER ASSEMBLY - used for assembling booster assembly of M90A1 fuze</td>
<td>Lexington-Blue Grass Depot Activity AMXLX-7303A</td>
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<td></td>
<td>0198</td>
<td>THREAD CHASER - used to chase thread for booster cavity on the M90A1 fuze</td>
<td>Lexington-Blue Grass Depot Activity AMXLX-7303B</td>
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<td>0316</td>
<td>TOOL, BOOSTER REMOVAL - used with a brace or ratchet for hand removal operation. Can be adapted for remote operation on M21A4 boosters</td>
<td>Seneca Army Depot AMXSE-6907A</td>
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<td>0369</td>
<td>MACHINE, BOOSTER REMOVAL - used to debooster M51A5 fuzes that cannot be deboostered in APE 118</td>
<td>Pueblo Depot Activity AMXP0-6712A Local Dwg OAC-109-114</td>
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<td>0380</td>
<td>DEBOOSTERING MACHINE, FUZE – used on fuzes that are difficult to debooster in APE 1118 (mortar fuzes 60MM &amp; 81MM)</td>
<td>Red River Army Depot AMXRR-6701C Local Dwg 1050741</td>
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<td>0382</td>
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<td>Red River Army Depot AMXRR-6701E Local Dwg 1020428</td>
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<td>0399</td>
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<td>Red River Army Depot AMXRR-6701AB Local Dwg 1030518</td>
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<td>0505</td>
<td>HOLDER, FUZE - holds fuze while removing excess tetryl from the base of the fuze</td>
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<td>0521</td>
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<td>Savanna Depot Activity AMXSV-6712A</td>
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<td>0184</td>
<td>WRENCH, BOTTOM CLOSING SCREW – used to assemble or disassemble the bottom closing screw from the fuze body on M48, M51, M557 fuzes</td>
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<td>0212</td>
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<td>Red River Army Depot AMXRR-6801D</td>
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<tr>
<td>FSC 1390 Fuzes &amp; Primers Component - Percussion Primers</td>
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<td>Lexington-Blue Grass Depot Activity AMXLX-7401A</td>
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<td>FSC 1390 Fuzes &amp; Primers Component - Percussion Primers</td>
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<td>RESIZING DIE, OGIVE - used for resizing the ogive on fuze P.I. M90A1</td>
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<td>FSC 1390 Fuzes &amp; Primers Component - Fiber &amp; Plastic Containers</td>
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<td>Lexington-Blue Grass Depot Activity AMXLX-7303D</td>
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<tr>
<td>FSC 1390 Fuzes &amp; Primers Component - Fiber &amp; Plastic Containers</td>
<td>0202</td>
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<td>Lexington-Blue Grass Depot Activity AMXLX-7303D</td>
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<tr>
<td>FSC 1390 Fuzes &amp; Primers Component - Fiber &amp; Plastic Containers</td>
<td>0321</td>
<td>EQUIPMENT, FUZE CONTAINER MODIFICATION - used for modification of upper and lower styrofoam fuze packaging containers by putting vent holes in containers utilizing soldering irons and tips</td>
<td>Sierra Army Depot AMXSI-6902C</td>
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<tr>
<td>FSC 1390 Fuze &amp; Primers Component - Fiber &amp; Plastic Containers -- Continued</td>
<td>0404</td>
<td>PRESS, PUNCH - used for punching circulation holes in packing materials for M572 fuze</td>
<td>Red River Army Depot AMXRR-6701H Local Dwg 1050789</td>
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<td>0405</td>
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<td>Red River Army Depot AMXRR-6701A1 Local Dwg 1050790</td>
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<tr>
<td>FSC 1390 Fuze &amp; Primers Component - Metal &amp; Wooden Containers</td>
<td>0191</td>
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<td>Letterkenny Army Depot AMXLE-7007C</td>
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<tr>
<td></td>
<td>0220</td>
<td>TOOL, TEAR STRIP REMOVAL - used with any drill to engage and remove the tearstrip from hermetically sealed metal cans (small arms cans, fuze cans, rocket ignites, etc)</td>
<td>Savanna Depot Activity AMXSV-7112A Local Sketch SK-160</td>
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<tr>
<td>FSC 1390 Fuze &amp; Primers Component - Metal Plastic Containers</td>
<td>0484</td>
<td>STRAPPER &amp; SEALER FOR 1-1/4” STRAPS - used to strap pallet and unit loads of boxed ammunition and component</td>
<td>Seneca Army Depot AMXSE-6803A</td>
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<td>FSC 1390 Fuze &amp; Primers Component - Metal Fuze Containers</td>
<td>0182</td>
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<td>Letterkenny Army Depot AMXLE-6907D</td>
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<tr>
<td></td>
<td>0191</td>
<td>HOLDING JIG, METAL CAN - used to hold M8, M10, M21 small arms packs and also standard contour fuze metal cans while removing tear strips</td>
<td>Letterkenny Army Depot AMXLE-7007C</td>
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<tr>
<td></td>
<td>0220</td>
<td>TOOL, TEAR STRIP REMOVAL - used with any drill to engage and remove the tear strip from hermetically sealed metal cans (small arms cans, fuze cans, rocket ignites, etc)</td>
<td>Savanna Depot Activity AMXSV-7112A Local Sketch SK-160</td>
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<tr>
<td>FSC 1390 Fuze &amp; Primers Component - Retaining Clips</td>
<td>0145</td>
<td>TOOL, RETAINING RING REMOVAL - used to remove retaining rings from V.T. fuze boosters to remove pellet charges</td>
<td>Letterkenny Army Depot AMXLE-6905J</td>
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<td>AMMUNITION ITEM AND COMPONENT</td>
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<td>FSC 1390 Fuzes &amp; Primers Component – Dummy Nose Plug or Nose Plug</td>
<td>0323</td>
<td>ADAPTER, PLUG &amp; LINER REMOVAL – used to remove nose plugs and fuze seat liners from projectiles by remote control</td>
<td>Sierra Army Depot AMXSI-6902E</td>
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<td>FSC 1390 Fuzes &amp; Primers Component – Booster Pelor Cup</td>
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<td>FSC 1336-1338 Missile Ammunition Component – Fin &amp; Fin Kits</td>
<td>0521</td>
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<td>0288</td>
<td>TOOL, INSERTION &amp; SEPARATION FIN BRACKET – used for inserting and separating of the fin bracket dust cover (boot) on the chaparral missile guidance section</td>
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<td>FSC 1336-1338 Missile Ammunition Component – Motor</td>
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<td>FSC 1336-1338 Missile Ammunition Component – Warhead</td>
<td>0239</td>
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<td>Automatic Can Opener, Electric Operated</td>
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<td>Sump Pump, German Rupp, Model 6262, Size 2-1/2</td>
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<td>Booster Stake Removing Machine</td>
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<td>APE 3061</td>
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APPENDIX B
OPERATIONAL INDEX

This appendix contains a cross reference between ammunition items and the APE items needed for function testing, inspecting, maintenance, renovation and demilitarization of the ammunition item.

Section I. SURVEILLANCE FUNCTION TESTS

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<td>1908</td>
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<td>1983</td>
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<tr>
<td>BOMB, FIRE FMU 7A/B, FMU 7B/B, AND 7C/B: Fuze Assembly, Initiator Assembly, and Cable Assembly</td>
<td>1935</td>
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<td>1916M1</td>
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<td>CAP, BLASTING NONELECTRIC: M7 Special: Type 1 (J-1) (PETN or RDX) No. 6 and 8, Instantaneous Tetryl, Type A</td>
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<td>Table Testing</td>
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<th>Equipment Used For Test</th>
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# SECTION III. MAINTENANCE, RENOVATION AND DEMILITARIZATION

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| | Deluge w/shield | 1001E091 |
| | KIT, basic, resize cartridge case | 1001E019 |
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| | M88 cartridge case | 1164E002 |
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| | KIT, Basic, assembly & crimping | 1001E019 |
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<p>| | Deluge, w/shield | 1001E091 |
| | KIT, Basic, pull apart | 1001E019 |
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<td>Remove ogive from 155MM M483A1 Projectile</td>
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<td>Remove base plug from 155MM M483A1 projectile</td>
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<td>Base plug drilling machine, for 155MM M483A1</td>
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<td>PROJECTILE 37MM</td>
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<td>THRU 280 MM</td>
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<td>Projectile elevator for 155MM and 8 inch</td>
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<td>Adhesive dispensing equipment for 155MM M483A1 base plug</td>
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<td>Drill, stuck supplementary charge</td>
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<td>KIT, 155MM M549 supplementary charge removal</td>
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<td>Torque, base plug on projectile 8-inch, HE, M404</td>
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<td>Zone weigh projectiles, 75MM thru 120MM</td>
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<td>Zone weigh projectiles, 155MM thru 240MM</td>
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<td>Device, locking, scale platform</td>
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<td>Push base from projectile, 155MM, M118</td>
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<td>Test air tight seal between ogive &amp; projectile (155MM M483A1)</td>
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<td>KIT, 8-inch projectile</td>
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<td>Remove obturator from 155MM M549 &amp; M549A1 projectiles</td>
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<td>Install obturator to 155MM M549/M549A1 projectiles</td>
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<td>Lift and position projectiles</td>
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<td>KIT, Projectile manipulator 155MM, 8” Army, 5”, 6”, 8” Navy</td>
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<td>BOMBS</td>
<td>Test fuze cables (MK80 thru M84 bombs)</td>
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<td>Defuze and remove fuzewell plug from 20 to 23 pound fragmentation bomb</td>
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<td>Fuzewell plug</td>
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<td>Toxic agent sampling</td>
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<td>KIT, Accessory for TMU-28/s spray tank</td>
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<td>KIT, Accessory for M116, MK 94, and M01 bombs</td>
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<td>GRENADE</td>
<td>Hold grenades or fuzes for x-ray</td>
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<td>Barricade, pitch-in (fragmentation grenades)</td>
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<td>KIT, Dud removal</td>
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<td>Barricade, pitch-in (fragmentation grenades)</td>
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<td>Remove fuze from grenade</td>
<td>1202M1</td>
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<td>M26, M26A1 and M61 hand grenades</td>
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<td>MK2 hand grenade</td>
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<td>M34 WP smoke grenade</td>
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<td>M6, M7, M8, M14 and M18 chemical grenades</td>
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<td>MK3A2 offensive hand grenade</td>
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<td>M33 and M67 hand grenades</td>
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<td>Device, access door lifting</td>
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<td>M15 smoke grenade</td>
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<td>M213 hand grenade fuze</td>
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<td>KIT, Staking, expulsion charge cup for 155MM M483 ogive</td>
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<td>Remove fin assembly</td>
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<td>M19 rifle grenade</td>
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<td><strong>ROCKET 66MM, M74</strong></td>
<td>Open polystyrene box</td>
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<td>Hold four round</td>
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<td>Clip handling fixture</td>
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<td>Remove tube cap</td>
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<td>Remove retaining screw</td>
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<td>Remove cover screw</td>
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<td>Remove retainer</td>
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<td>Tools for fin spring</td>
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<td>Clip hole location</td>
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<td>Warhead OD Comparator</td>
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<td>Conductivity test warhead</td>
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<td>KIT, digital thermocouple readout meter</td>
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<td>Box assembly holder</td>
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<td>Stop for drilling operation</td>
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<td><strong>ROCKET 66MM, M72</strong></td>
<td>Hold rocket</td>
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<td>KIT, Accessory</td>
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<td>Pull warhead from motor</td>
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<td>Deluge w/shield</td>
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<td>KIT, Pull apart</td>
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<td>Gage wall thickness</td>
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<td>Renovate rock</td>
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<td>KIT, Hand tool for assembly rocket</td>
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<td>ROCKET, 2.36 INCH</td>
<td>Disassemble rocket</td>
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<td>KIT, M10 rocket</td>
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<td>ROCKET, 2.75 INCH</td>
<td>Continuity test for rocket motor</td>
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<td>Hold rocket</td>
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<td>KIT, Jaw, 2.75 inch rocket warhead</td>
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<td>KIT, Jaw 2.75 inch rocket motor</td>
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<td>KIT, Continuity testing for rocket motor</td>
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<td>KIT, Rocket motor w/solid bulkhead closure w/XM229 or M151 warheads</td>
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<td>KIT, Rocket motor MK40 w/warhead</td>
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<td>KIT, Rocket motor MK40</td>
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<td>KIT, Rocket motor MK66 Mod 1</td>
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<td>Stop for drilling operation</td>
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<td>KIT, Disassembly for 2.75 inch M27 warhead</td>
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<td>ROCKET, 3.5 INCH</td>
<td>Continuity test for rocket motors</td>
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<td>Rocket motor continuity test</td>
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<td>Hold rocket motor on warhead</td>
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<td>M28A2 and M29 rocket warhead</td>
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<td>Renovate rocket</td>
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<td>Replace igniter M20A1B1 from rocket</td>
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<td>Tighten or replace rivets rocket motor</td>
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<td>Hand tools to assembly rocket</td>
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<td>Contain burster on M30 rocket</td>
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<td>Perform continuity test</td>
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<td>Rocket motor</td>
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<td>Shunt accessory</td>
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<td>Disassemble rocket M30 WP</td>
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<td>Weight propellant</td>
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<td>Disassemble rocket</td>
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<td>M28, M29 and M30 rockets between motor &amp; fuze</td>
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<td>M28, M29 and M30 rockets between warhead &amp; fuze or between motor &amp; fuze</td>
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<td>KIT, Renovation stop for drilling operation</td>
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<td>Remove warhead from rocket</td>
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<td>KIT, Remove warhead from rocket</td>
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<td>ROCKET, 115MM Remove warhead from rocket</td>
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<td>Remove M36 burster from chemical rocket</td>
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<td>Remove M34 burster from chemical rocket</td>
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<td><strong>ROCKET, 5 INCH</strong></td>
<td>Continuity test for rocket</td>
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<td>KIT, Rocket motor</td>
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<td>KIT, Rocket M3 JATO motor</td>
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<td>M37 and M37A1 spin rocket</td>
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<td>M7A2B1 spin rocket</td>
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<td><strong>SMOKE POTS</strong></td>
<td>Clean and derust M482, ABC-MS and M1 HC smoke pots</td>
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<td>Defuze M207A1 from M4A2 smoke pot</td>
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<td><strong>FUZE</strong></td>
<td>Remove M21A1 booster and tracer from base fuze</td>
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<td>Tracer and base fuze M534</td>
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<td>Booster from 75MM, M309A1 projectile</td>
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<td>Booster from standard contour fuze</td>
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<td>Remove booster from fuze</td>
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<td>AN-M103, M139, M140, M163, M164, M165 and M167 fuzes</td>
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<td>M145 fuze</td>
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<td>M110, M158 and M193 fuzes</td>
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<td>M120 and M170 fuzes</td>
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<td>M147 and M155 fuzes</td>
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<td>M52 fuze</td>
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<td>M51A5, M500, M502A1, M508 and M518 fuzes</td>
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<td>M524 fuze</td>
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<td>Remove booster cup from fuze</td>
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<td>M52A2 fuze</td>
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<td>Remove booster and/or cup from standard contour fuzes</td>
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<td>Crimp ogive on fuze</td>
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<td>M90</td>
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<td>Clean fuze thread</td>
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<td>Deburr standard contour fuze</td>
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<td>Stake booster to fuze</td>
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<td>Stake auxiliary detonating fuze to fuze adapter 3”/50, 5”/38, 5”/54 and 16”/50</td>
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<td>Stop for drilling operation</td>
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<td>Assemble or disassemble M605 mine fuze</td>
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<td>Obliterate stamp markings</td>
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<td>Remove bottom screw from M78 PD fuze</td>
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<td>Demilitarize booster</td>
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<td>M21A4 (90MM)</td>
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<td>Torque booster to fuze</td>
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<td>Torque M54, M55 and M500 service fuze</td>
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<td>Test T361E2 fuze container for leaks</td>
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<td>KIT, Container tester</td>
<td>1252EO02</td>
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<td>Remove fuzes, plugs and adapters from hose/base of projectile</td>
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<td>Remove rocket warhead fuze and adapter</td>
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<td>M55 chemical rocket warhead fuze</td>
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<td>M55 chemical rocket warhead adapter</td>
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<td>Remove auxiliary booster from fuze</td>
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<td>M90 fuze</td>
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<td>Separate booster cup from booster M21A41</td>
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<td>Remove booster from M52 fuze</td>
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<td>Remove bottom closing screw assembly from fuze</td>
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<td>M78 fuze</td>
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<td>Remove and replace bottom closing screw assembly from fuze</td>
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<td>M48, M51 and M500 fuzes</td>
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<td>105MM Gun and 90MM projectiles</td>
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<td>5&quot; and 6&quot; Navy projectiles</td>
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<td>2196E001</td>
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<tr>
<td>DEMILITARIZATION EQUIPMENT (Continued)</td>
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<td>2042</td>
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<td>View hazardous disassemble operations</td>
<td>1072M2</td>
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<td>Washout explosives from projectiles, bomb, mine, etc.</td>
<td>1300M1</td>
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<td>Disassembly rocket motor from demolition kit (M180)</td>
<td>2219</td>
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<td>Disassemble rocket motor from warhead</td>
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<td>KIT, Separate motor from warhead, 115MM M55</td>
<td>1240E001</td>
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<td>KIT, Separate motor from warhead, 2.75 inch APERS</td>
<td>1240E002</td>
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<td>CARTRIDGE AND PROPELLANT STORAGE CASE</td>
<td>75MM through 8 inch cartridge storage cases</td>
<td>1105E003</td>
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<td>KIT, Dust collector</td>
<td>1105E004</td>
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<td></td>
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<td>2235</td>
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<tr>
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<td>1088/1221</td>
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<td></td>
<td>Hold small container when removing lid and sealing tape</td>
<td>1195</td>
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<td>Remove lids from small containers</td>
<td>1159</td>
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<td>1103M1/1270M1</td>
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<td>40MM through 57MM containers</td>
<td>1003E001</td>
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<td>40MM through 60MM containers</td>
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<td>75MM through 81MM containers</td>
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<td>90MM through 105MM containers (except HEAT ammunition)</td>
<td>1003E003</td>
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<td>1270E003</td>
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<td>120MM conatiners</td>
<td>1003E004</td>
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<td></td>
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<td>1137</td>
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<td></td>
<td>KIT, Tape cutter</td>
<td>1137E001/1209M1</td>
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<td>KIT, Apply three wraps of tape</td>
<td>1209E001</td>
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<td>KIT, 2.75” rocket (up to 68” length)</td>
<td>1209E003/1004M1</td>
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<td>Hermetically seal M20 and M22 containers</td>
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<td>GENERAL AMMUNITION MAINTENANCE EQUIPMENT</td>
<td>Collect propellant</td>
<td>1028</td>
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<td>KIT, Exhauster, centrifugal</td>
<td>1028E001</td>
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<td>KIT, Control system, propellant discharge pneumatic</td>
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<td>Ammunition cleaning</td>
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<td>Clean 3&quot; to 16&quot; diameter powder cans (NAVY)</td>
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<td>Heat sealing compound for dip coating</td>
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<td>Pneumatic lid remover</td>
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<td>40MM thru 57MM fiber containers</td>
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<td>75MM thru 81MM fiber containers</td>
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<td>90MM thru 105MM (except 105MM HEAT) fiber containers</td>
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<td>120MM fiber containers</td>
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<td>KIT, Modify control system</td>
<td>1003E006</td>
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<td>Jungle pack ammunition</td>
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<td>KIT, Centering band holding rack for 105MM</td>
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<td>Install obturator</td>
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<td>KIT, Obturator holding rack for 155MM</td>
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<td>KIT, Obturator holding rack 8 inch</td>
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<td>Test metal containers for leaks</td>
<td>1052M1/1252/1958M</td>
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<td>M548 and M549 metal container</td>
<td>1958E001</td>
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<td>View hazardous disassembly operations</td>
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<td>Weigh various items and components</td>
<td>2044M1/2045M1/2046/2089/2090/2094/2101/2102/2103/2104/2105/2106/1032/7069</td>
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<td>Paint projectiles and storage containers</td>
<td>1045M1/1069M1/1070M1/1205M1/1213M1/1280M1/1213M2/2103</td>
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<td>KIT, 90MM shield</td>
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<td>KIT, Foot valve</td>
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<td><strong>GENERAL AMMUNITION MAINTENANCE EQUIPMENT</strong>&lt;br&gt;(Continued)</td>
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<td>2130E004</td>
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<td>3&quot;/50 complete round</td>
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<td>Remove rust, corrosion and paint from projectiles and bombs</td>
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<td>Pull test ammunition</td>
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<td>KIT, Extend pull test capability to 20,000 pounds maximum</td>
<td>1299E021</td>
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<td>Clean and derust projectiles and storage containers</td>
<td>1105M1</td>
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<td>KIT, Derust 75MM thru 155MM projectiles</td>
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<td>KIT, Derust 8-inch thru 240MM projectiles</td>
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<td>KIT, Derust cartridge storage cases (75MM thru 8-inch)</td>
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<td>KIT, Dust collector</td>
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<td>Remove rust, corrosion and paint from small items</td>
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<td>Seal metal can</td>
<td>1066/2091</td>
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<td>Remove fiber container tear strip</td>
<td>1151/1295</td>
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<td>Conveyor, powered belt</td>
<td>1022M1/2032</td>
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<td>Lifting device, 155MM thru 8 inch</td>
<td>2168/2232</td>
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<td><strong>TOXIC CHEMICAL AMMUNITION EQUIPMENT</strong></td>
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<td>1957</td>
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<td>Unit, surveillance agent sampling</td>
<td>1959</td>
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<td>Device, chemical agent detection</td>
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<td>Container, agent sampling fixture for one ton</td>
<td>1969</td>
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<td>Unit, agent sampling</td>
<td>1981</td>
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<td>Equipment, replace one ton plug and valve</td>
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<td>Device, air sampling</td>
<td>2053M2</td>
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APPENDIX C

PREPARATION AND HANDLING OF AMMUNITION PECULIAR EQUIPMENT
FOR SHIPMENT AND STORAGE

Section I. INTRODUCTION

C-1. Scope.

a. This appendix contains instructions for the preparation and handling of Ammunition Peculiar Equipment (APE) for shipment and storage. It applies to equipment which has been inspected, tested and determined to be suitable for retention in the APE system. The procedures and methods contained herein provide uniform guidance on the minimum requirements for disassembly, inspection, cleaning, preservation-packaging, packing, marking, blocking, bracing and skidding prior to shipment or storage. Storage requirements include maintenance and surveillance of equipment throughout the storage period.

b. The provisions of this appendix apply to all organizations controlling APE to be shipped, placed in storage, or laid away for future use.

c. Disassembly. Disassembly means the removal of only those major and minor assemblies and components, required to provide access to machine areas for inspection, cleaning, preservation and preparation for shipment.

d. Documentation. Documentation consists of packing lists, inspection and test reports, decontamination certification, operating and installation instructions, diagrams of electrical, fluidic, pneumatic and hydraulic systems and utility connections. When specified, the documentation shall include photographs, manufacturing procedures and other required technical data.

e. Equipment, nonseverable. A type of plant equipment which, due to size or design, cannot be removed economically from its installed position for storage or shipment.

f. Exercising. Periodic operation of a machine under no-load conditions to distribute lubricants or preservatives.

g. Shipping Document. A document, prepared on DD form 1149, Requisition and Invoice/Shipping Document, or DD Form 1348, Single Line Item Requisition System Document, which directs or authorizes movement, and transfer of accountability of APE items reportable to AMCCOM.

h. Owning Agency. The organization which has accountability for APE.

C-2. Definitions.

For the purpose of this appendix, the following definitions apply.

a. Cleaning. Cleaning is a process accomplished by a variety of methods, and techniques, to remove all sludge, chips, abrasives, dirt, rust and other harmful foreign matter.

b. Compressed air, moisture-free. Moisture-free compressed air is obtained by utilizing properly maintained traps, filters and desiccators in the source system.
C-2. Definitions (Cont).

i. Packing List. A packing list is a document used to identify unitized loads packed with unlike items, or a single stock numbered item comprised of unlike items, where full description of the contents is not authorized, or cannot be shown on the container.

j. Preservation. The application or use of adequate protective measures to prevent deterioration due to environmental conditions.

k. Standby-in-Place. Equipment stored in its original, or last, operational position and connected to power.

l. Adjacent Storage. Storage of equipment in the vicinity of the premises of the user.

m. Storage-on-Site. Equipment stored on the premises of the user, but removed from operating position.

n. User. The government activity or contractor operating, or proposing to operate, equipment.

o. Decontamination. Removal of explosives/hazardous substances to a xxx degree to render equipment safe for maintenance by experienced personnel and to a xxxxxx degree prior to release to general public or transfer to Defense Reutilization and Marketing Offices.

Section II. GENERAL REQUIREMENTS

C-3. Program Requirements.

WARNING
ANY EXPLOSIVE CONTAMINATION MUST BE REMOVED FROM APE PRIOR TO CRATING AND SHIPMENT IAW DIRECTIVES IN DOD 5160.65-M AND PROCEDURES CONTAINED IN TB 700-4. EQUIPMENT WILL BE CERTIFIED FREE OF EXPLOSIVES AND TAGGED WITH DD FORM 2271. DECONTAMINATION IS NECESSARY TO PRECLUDE EXCLUSIVE HAZARDS.

The degree of protection to be applied to APE for shipment or storage depends on the conditions which can be foreseen and those which can be reasonably anticipated. Adequate, but not excessive, protection shall be provided to prevent damage or deterioration. Levels of protection are prescribed with the objective of providing selective standards for preservation packaging and packing appropriate to the conditions to be encountered. Items shall be preserved-packaged and packed for shipment in accordance with level/method specified in the shipping document. Items previously prepared to a higher level shall not be reworked to conform to any lower level(s) specified in the shipping document with the possible exception of packing of items for air shipment. Items previously prepared at a lower level shall be processed to conform to any higher level(s) specified in the shipping document. It is essential that decisions concerning actions in accordance with this appendix be made by, or based on the recommendations of, qualified personnel thoroughly trained and experienced in this field.

C-4. Levels of Protection.

Unless otherwise specified, the following levels shall apply equally to preservation-packaging and packing.

a. Level A. This level is the degree of preservation or packing required for protection of materiel against the most severe conditions known or anticipated to be encountered during shipment, handling and storage. Preservation and packing
designated level A will be designed to protect materiel against direct exposure to extremes of climate, terrain, operational and transportation environments without protection other than that provided by the pack. Normally, level A protection is provided for overseas shipment of APE and retention in uncontrolled storage.

b. Level B. This level is the degree of preservation or packing required for protection of materiel under known favorable conditions during shipment, handling and storage.

c. Industrial. This level may be utilized whenever logistical conditions justify and may be also used to satisfy level A or B requirements whenever the technical design details of the package meet all conditions of the level of protection specified. Industrial packaging must protect items against physical and environmental damage during shipment, handling and storage.

d. Selection of Levels. If no level of protection is specified, selection of the appropriate level shall be made in accordance with Joint Regulation “Preservation-Packaging, Packing and Marking of Items of supply” (AR 700-15; NAVSUP 4030.28; AFT 71-6; MCO 4030.33; DLAR 4145.7), using the level most suited to the circumstances. When a combination of conditions used for determination of levels falls within more than one level, the highest of these levels shall apply.

C-5. Basic Requirements.

Certain requirements are applicable to all programs involving shipment or storage of APE. The following steps are common to, and shall be performed under, all programs:

a. Thorough cleaning and preservation, internal and external, immediately following or during shutdown. All rust, sludge, chips and other contaminants shall be removed.

b. Assembly of all manuals, installation drawings, other documentation, replacement parts, accessories and attachments.

c. Performance of inspection services to determine compliance with the applicable preservation-packaging and packing requirements of this appendix.

d. Completion of historical, property and inspection records in accordance with instructions in DA PAM 738-705.

e. Installation of dust shields when experience or judgement indicates dust or other material accretion on machines is significant.

Section III. DETAIL REQUIREMENTS

C-6. Cleaning and Preservation-Packaging.

Ammunition Peculiar Equipment, component parts, accessories, repair parts and tools shall be cleaned, preserved and packaged as specified herein. All cleaning and preservation shall be in accordance with MIL-P-116. All machines and tools require thorough cleaning and preservation immediately following shutdown, with special attention to coolant, hydraulic, pneumatic and lubrication systems to eliminate the necessity for later major disassembly to remove contaminants which may congeal during an idle period.

a. Processing Facilities. Preservation-packaging shall be accomplished within buildings which are rainproof and will prevent, substantially, all infiltration of wind-blown dust. The processing area shall be heated and equipped with adequate
C-6. Cleaning and Preservation-Packaging (Cont).

processing equipment such as spray booths, preservative tanks, etc. Equipment brought into processing areas shall be allowed to reach ambient temperature before processing.

b. Materials. Materials shall be as specified herein or as specified in the referenced packaging or material specifications. All materials shall be free of defect affecting serviceability.

c. Preservatives. Preservatives specified herein and the methods of application shall be in accordance with MIL-P-116.

d. Cleaning. Thorough cleaning and drying shall be accomplished prior to the application of preservatives. Unless otherwise specified, all surfaces of the item(s) shall be cleaned by process Cl, MIL-P-116, and drying shall be accomplished by one or more of the drying procedures also listed therein. Cleaning, drying, inspections, fingerprint removal, and the application of preservatives shall comprise an uninterrupted series of operations, holding the total elapsed time to the absolute minimum. If cleaned surfaces tend to rust before preservation, the entire process from cleaning through preservation shall be confined to small sections, or the solvent used (P-D–680) for the final wiping of small cleaned areas shall contain about 5 percent of P-10, type I, grade 30, preservative. Prior to cleaning machines with solvents, exposed precision bearings, fluidic components, motors, control panels, other electrical systems, electronic systems, and items containing organic materials shall be covered or removed to prevent damage or contamination.

e. Fingerprint Removal. After cleaning and drying, and before the application of preservatives, critical operating surfaces and other machined surfaces shall be treated for the removal of fingerprint and perspiration residue. The compound shall conform to MIL-C-15074 and the procedures shall be in accordance with MIL-P-116.

f. Preservation. Preservatives shall be applied to clean interior and exterior unpainted surfaces by spraying, brushing, dipping, operating the machine under power at lowest speed for circulating the preservative, or other applicable methods specified in MIL-P-116. Care shall be taken to cover only the required surfaces, with minimum overlap on adjacent painted surfaces. After draining liquid preservatives from internal systems, all trapped pools of preservative shall be removed by suction pump or other appropriate means.

g. Maintenance of Preservative Film. Caution shall be exercised to ensure that the preservative is not rubbed off after application. Areas with discontinuous preservation shall be recoated with the same type of preservative. Where blocking or bracing comes in contact with preserved areas, grease-proof paper conforming to MIL-B-121, grade A, type I, shall be inserted, with double thickness fold, at the point of contact. The barrier materials shall extend approximately 1/2-inch beyond the edge of the block.

h. Disassembly. Equipment shall be disassembled only to the extent necessary to permit inspection, cleaning and preservation-packaging. All disassembly and reassembly shall be accomplished by technically qualified personnel knowledgeable of the types of machines involved. Care shall be exercised in the handling of parts to avoid damage and conditions which promote the formation of corrosion. Parts and assemblies removed during disassembly shall be properly identified to permit reassembly. Fasteners shall be reinstalled in their respective locations in one of the mating parts to prevent loss, or improper selection, during reassembly. Do not disassemble high speed spindle heads.

i. Matchmaking. Prior to disassembly, each part and assemble requiring reassembly in a precise position with
respect to mating part(s), shall be match-marked. Matchmarked parts shall be identified by use of type B, class 2, shipping tags, conforming to UU-T-81, attached to the mating parts. When required, the marked tags shall be waterproofed in accordance with MIL-STD-129.

j. Disconnections. Wiring, piping and tubing shall never be cut. All disconnections shall be made at proper disconnect points, e.g., junction boxes, terminals or fittings. Disconnected wires, pipes and tubing shall be clearly identified to permit proper reassembly.

k. Furnaces and Ovens. Furnaces and ovens shall be cleaned and preserved-packaged in accordance with MIL-F-3296.

l. Large Furnaces. Prior to movement of any large furnace, an evaluation shall be made by qualified government personnel to determine severability. If movement action is required and inspection has disclosed that movement of the furnace from its installed position is economically feasible, only qualified government personnel, assisted by a manufacturer’s representative when required, shall make the decision. Subassemblies, attachments and accessories shall be removed to avoid damage or reduce cubage. Major members of a furnace shall not be cut. Installation and operating instructions shall be placed in a waterproof and greaseproof envelope constructed of barrier material conforming to MIL-B-121, grade A, class I, marked “Installation and Operating Instructions,” and security attached to the furnace.

m. Compressors and Vacuum Pumps. Compressors and vacuum pumps shall be cleaned and preserved-packaged in accordance with MIL-C-3600.

n. Electrical and Electronic Equipment. Electrical and electronic equipment shall be cleaned and preserved-packaged in accordance with MIL-E-17555. Electron tubes subject to damage, if left in place during transportation, shall be removed. Tubes removed and mating sockets shall be marked as necessary to permit correct tube installation at time of reassembly. Additional instructions for delicate electronic and electrical equipment is contained in paragraph C-12.

o. Engines, Gasoline and Diesel. Gasoline and diesel engines shall be cleaned and preserved-packaged in accordance with MIL-E-10062.

p. Abrasive Products. Abrasive items and materials shall be removed from the equipment and, if in excellent condition, shall be prepared in accordance with MIL-A-3816 for shipment with the parent item.

q. Hose and Hose Fittings. Hose and hose fittings not installed shall be cleaned and preserved-packaged in accordance with MIL-H-775.

r. Technical Publications. Technical manuals, pamphlets, handbooks and other documentation shall be packaged submethod 1C-1 in accordance with MIL-P-116.

s. Levels. Preservation-packaging shall be level A, B, or Industrial, as specified. If no level is specified, selection shall be made in accordance with the criteria contained in C-4d.

C-7. Level A and Level B Cleaning and Preservation-Packaging

Applicable requirements of paragraph C-6 above and the following shall apply.

a. Critical Items and Surfaces. Basic units, parts, or components meeting the critical definitions in section 6, MIL-P-116, shall be protected by an applicable submethod of method II, MIL-P-116.

b. Painting. Surfaces where paint is missing shall be touched up or repainted. The basic purpose served by painting equipment is preservation. The color and workmanship of paint application shall be such that appearance is maintained and enhanced as much as practicable. The choice between touch-up and complete painting shall be made primarily on the basis of economy, but if either the number of spots
C-7. Level A and Level B Cleaning and Preservation-Packaging (Cont).

or the total area requiring touch-up is excessive, the item shall be completely painted.

(1) Paint surface preparation. All loose paint shall be removed. All edges of old paint shall be feather-edged. In areas to be painted, old paint shall be sufficiently abraded, normally by sanding, to insure firm adhesion of the new coating. Surfaces to be painted shall be thoroughly clean.

(2) Painting requirement. One coat of primer shall be applied to all areas not already fully primed. Primer shall conform to TT-P-636. After the primer is dry, two coats of semi-gloss enamel shall be applied, allowing time for the first coat to dry thoroughly before starting the second coat. Enamel shall conform to TT-E-489. For touch-up, the enamel shall match the existing color of the item. For complete repainting, the color shall be no. 24260, FED-STD-595. Hazardous areas of APE shall be painted per instructions in AR 385-30.

(3) Application of paint. Paint should be applied by spraying, but may be applied by brush or other methods. Coating shall be uniform and complete without sags, runs, voids, or blisters.

c. Filters and Way Wipers. All cleanable filters shall be cleaned and replaceable filter elements renewed. Way wipers shall be removed and replaced.

d. Cable, Cord and Wire Assemblies. After cleaning, cable, cord and wire assemblies shall be coiled to a safe diameter and, when feasible, placed in a fiberboard container conforming to PPP-B-636. Closure of the containers shall be with PPP-T-76 tape.

e. External Surfaces. Prior to cleaning, remove all accessories and any assemblies which cannot be cleaned and/or preserved-packaged on the machine. After cleaning, preserve all machined surfaces of the basic item, accessories and/or assemblies with P-2 or P-19 preservative. Rotate parts as necessary to insure complete coverage.

f. Driving Belts and Pulleys. Belts shall be removed from the equipment or released from tension. The faces or grooves of all ferrous metal pulleys shall be coated with primer conforming to TT-P-664. Removed belts shall be packaged method III in accordance with MIL-P-116 and secured to the equipment.

g. Lubricating Systems. Prior to cleaning other systems, remove all oil possible from the reservoir and fill with P-10, type I, grade 30 oil. After other internal systems have been cleaned and preserved, remove the oil; no further cleaning or preservation is required.

h. Other Internal Systems and Mechanism. Fluid carrying systems and gear boxes shall be cleaned and preserved with the machine operating under power, except when not economically feasible, to insure circulation of solvents and preservatives throughout the various systems. Operation shall be at the lowest speed, and no longer than necessary to insure thorough cleaning or coating with preservative. If power operation is not feasible, an auxiliary pump may be used for this operation. When specified herein, solution A shall be used for cleaning internal systems. Containers for the used solution shall not be re-used for purposes other than cleaning like systems.

SOLUTION A

| One part lubricating oil, P-10, type I, grade 30, and nine parts cleaning solvent, P-D-680. |

(1) Hydraulic systems. The reservoir shall be drained to remove all sludge, corrosion and other foreign matter. If initial draining indicates the system to be free of sludge, corrosion, and other foreign matter, preserve system by filling with lubricating oil, P-10, type I, grade
circulate thoroughly, drain the oil and close all openings. If the initial drain indicates contamination, fill with solution A, circulate thoroughly until system is clean, drain completely and preserve in the identical manner specified herein for an uncontaminated system.

(2) Gear Cases. Gear cases, including variable speed mechanisms, shall be drained. Whenever practicable, the cases shall be opened and all sludge, corrosion, and other foreign matter removed therefrom. Fill with solution A, shift gears into all possible positions while operating machine, then drain the solution. Preserve by filling with lubrication oil, P-10, type I, grade 30, shift gears into all possible positions while operating the machine, then drain the oil and close all openings.

(3) Coolant systems (soluble oils and cutting oils). Drain the system of all coolants. Open the system to the extent practicable and remove all sludge, corrosion, and other foreign matter. Fill with solution A, circulate, and drain. Preserve by filling with preservative P-10, type I, grade 10, circulate, drain, and close all openings.

(4) Water cooling chambers, water jackets, steam lines, air lines, and related systems. Drain all water, and dry with moisture-free compressed air.

(5) Pneumatic systems. Drain all water and dry with moisture free compressed air. Fill lubricator with spindle oil having a SSU rating of 80 to 120 at 100 degrees Fahrenheit. Adjust lubricator to maximum flow and operate machine to coat interior of pneumatic system.

(6) Caution tag. When applicable, a waterproof tag conforming to UU-T-81 shall be attached to each machine. The tag shall state: "Machine has been preserved for shipment/storage. Before putting in operation, service all reservoirs and lubricate completely."

i. Bearings. Open-type (nonsealed) ball and roller bearings which have been removed from operating positions shall be cleaned and dried without spinning the bearing. Sealed bearings shall not be cleaned except by wiping. Bearings in operating positions are not required to be cleaned. Preserve open-type bearings with P-11 grease or P10, type I, grade 30 oil, as applicable. Preserve high speed spindle bearings with P-9 oil. When current-carrying bearing assemblies are cleaned and reinstalled, or replaced, bearings shall be charged with lubricants specified by the manufacturer.

j. Journals. Oil-lubricated journals shall be drained, cleaned, redranked, and refilled with lubricating oil, P-10, type I, grade 10 or grade 30, as applicable.

k. Air Cylinders. Leave installed, if possible. Clean and dry the internal surfaces of cylinder and the operating system, and fog completely with P-10, type I, grade 30 oil. Inspect and replace organic packing, if necessary.

l. Organic Packing. Organic packing in coolant, lubricating, hydraulic, and other liquid carrying systems shall not be removed unless necessary for replacement purposes.

m. Nonlubricated Interior Machined Surfaces. Mechanism screws, exposed gears, etc, which cannot be easily preserved, shall be coated with P-2 preservative. This includes but it is not limited to screws and exposed gears.

n. Closed Dial Indicators. No preservative is required. Cushion adequately with material conforming to PPP-C-843, type II, grade B, or PPP-C-1797, held in place with PPP-T-60 tape. The indicators shall be packaged submethod 1A-8 or 1A-15 in accordance with MIL-P-116.

o. Gages and Measuring Instruments. Gages shall not be removed unless they protrude or are otherwise subject to
C-7. Level A and Level B Cleaning and Preservation-Packaging (Cont).

damage and cannot be properly protected in-place. Gages and instruments other than closed dial indicators, including unit gages, fixture gages, and other measuring instruments, shall be coated with P-9 preservative oil. Loose gages and instruments shall be wrapped in MIL-B-121, grade A, barrier material, and packaged submethod 1C-1 or 1A-15, MIL-P-116.

p. Tools and Tool Accessories. Tools and accessories shall be prepared for shipment and storage in accordance with PPP-T-1150.

q. Consolidated Packaging. Except as otherwise specified herein, all preserved items not attached to the equipment shall be wrapped in barrier material MIL-B-121, grade A, type I or II, class 2, and secured with PPP-T-60 tape. Wrapped and packaged items shall be placed in containers conforming to PPP-B-601 overseas type, style optional, PPP-B-621, class 2, styled optional, W5C of PPP-B-636, or PPP-B-640, class 1 or 2, as applicable. Other items detached from the equipment which do not require a contact preservative shall be packaged in the same manner. All items placed in a container shall be cushioned, and blocked and braced in accordance with MIL-P-116 or MIL-STD-1186, as applicable. Closure of the containers shall be in accordance with the applicable container specification or the appendix thereto.

r. Frames, Tanks, Paint Spray Booths, Conveyor Systems, etc. Each item of this type shall be handled as a unit, or disassembled to the extent necessary for cleaning and preservative to conserve storage or shipping space. Unpainted ferrous metal surfaces shall be coated with P-2 or P-19 preservative. Bearings and fittings shall be charged with P-11 grease.

s. Closure of Openings. Small openings which will admit dust or water (except vents and louvers installed for ventilation purposes) shall be sealed with tape conforming to PPP-T-60, type II, class 1. Large openings shall be covered with waterproof paper conforming to PPP-B-1055, class E-1. The paper shall be secured with tape specified above. When very large openings are covered, or when the location of an opening renders the covering vulnerable to puncture, the covering or seal shall be protected by wood, plywood, or metal. The open ends of all piping and fittings shall be properly closed with pipe fittings to prevent the entrance of foreign material. The pipe fittings shall be the same material as the part being plugged or capped; plastic caps or plugs conforming to MIL-C-5501 may be used.

C-8. Industrial Level Cleaning and Preservation-Packaging.

Applicable requirements of paragraph C-6 above and the following shall be adhered to.

a. Draining System. Equipment cleaned and preserved at this level shall be shipped without draining the operating fluids from hydraulic systems, lubricating systems, and gear cases except when:

(1) Draining prior to shipment has been specifically directed.

(2) Such shipment of fluids is determined to be uneconomical for the government.

(3) Any reservoir cannot be secured against spillage during shipment.

b. External Surfaces. Remove all chips, dirt, oils and other contaminants from the basic item, its attachments, accessories and components. Clean all external surfaces with P-D-680. Apply P-2 or P-10 to all unpainted surfaces. Preserve attachments, accessories, and components removed from the basic equipment, wrap in barrier material MIL-B-121, grade A, type I or II, and secure with PPP-T-60 tape.

c. Lubricating Systems, Hydraulic Systems, and Gear Cases. After draining, if required in paragraph C-8 above, close all valves and vents.
d. Coolant Systems (soluable oils and cutting oils). Clean and preserved as specified if paragraph C-7.h. (3) above.

e. Caution Tag. When applicable, a waterproof tag conforming to UU-T-81 shall be attached to each machine. The tag shall state: “Machine has been preserved for shipment/storage. Before putting in operation, service all reservoirs and lubricate completely.”


Unless otherwise specified, decontamination, cleaning, preservation, and packaging requirements contained in this appendix shall have been accomplished prior to the operations contained in this paragraph.

a. Records. Prior to loading, the equipment shall be inspected to insure that all required records are packaged submethod 1C-1, MIL-P-116, and attached to the basic unit. Historical records shall be complete and include all available data pertinent to each item of equipment. Inspection forms shall be available for review of the results of the last inspection, and shall contain available space to record results of subsequent inspections performed during the storage period. Packing lists shall be utilized in accordance with MIL-STD-129. These are minimum record requirements. When available, photographs, installation and foundation drawings, manufacturer’s parts manuals, and other manufacturer’s data related to operation, maintenance, and lubrication shall be retained with the equipment. These records and data shall be available for inspection at point of storage and shall be shipped with equipment to which they pertain.

b. Inspection Requirements. Prior to shipment, the equipment shall be inspected to verify that the material has been prepared for shipment in accordance with the requirements specified in this appendix.

c. Blocking and Bracing. Machine heads shall be locked in lowest position. Movable parts shall be removed or carefully locked in position and braced to prevent movement in transit or handling. All equipment shall be completed assembled when being prepared for shipment whenever weight and size permit, provided all necessary blocking can be accomplished to assure adequate protection for all components, attachments, and accessories. When it is not considered feasible to ship a machine assembled, the attachments, accessories, and components shall be packed according to weight as specified herein. Relieve all tension from cables, etc. Detailed requirements for blocking and bracing of equipment are contained in MIL-HDBK-701.

(1) Tables, ball-screw driven mechanisms, and parts. Tables or other components moving on ball bearings or other types of high efficiency, low friction ball or roller bearing assemblies, shall be removed or blocked and all components treated in such a manner that neither the way(s) surface(s) nor the anti-friction devices will be subject to damage. The bearing(s) preload, when required, shall be relieved. Recirculating ball-screw driven components shall have the ball nut(s) disconnected and the complete mechanism shall be protected to prevent damage during shipment and handling. Slides, counterbalances, motors, hydraulic tables, and any movable components shall be securely braced.

(2) Counterweights. Counterweights shall be blocked in place to relieve the load on the supporting device(s) and secured to prevent movement in any direction. If complete immobilization in place is not possible, remove and mount securely outside the machine.

d. Skidding. Skidding instructions are contained in MIL-HDBK-701. In preparing APE for domestic shipment, skidding rather than crating or boxing is considered to be economically advantageous, especially when aluminum skids are used. Inspect skids prior to shipment or storage and replace if necessary.
C-9. Preparation for Shipment (Cont).

e. Shipping Covers and Shrouds. After equipment has been loaded and secured, a visual examination shall be made to detect any disturbance of preservatives on machine surfaces. The integrity of the preservative(s) shall be verified and, if touch-up procedures are required, the same type of preservative shall be applied to the bare area. When open-type transportation is utilized, equipment which is not otherwise fully protected against the natural elements shall be protected from water, dirt, etc., by shrouding with waterproof tarpaulins, or vinyl-coated nylon fabric conforming to MIL-C-43006, or nylon-reinforced laminated plastic sheet conforming to L-P-00524. All covers shall be of sufficient strength to provide adequate protection throughout the transit period, and shall be secured in a manner to insure that such protection is achieved. Covers constructed from waterproof paper shall not be used. All sharp corners and projections shall be padded or cushioned before shrouding. Shrouds shall be draped in a manner to completely cover the item and arranged to avoid the formation of water pockets. When closed-type transportation is utilized, dust shields shall be used, when required, to prevent dust or other material from collecting on critical surfaces.

f. Packing. Packing shall be accomplished in accordance with paragraph C-10.

C-10. Packing.

Except as provided in paragraphs C-10.a. and C-10.b. below, the following requirements apply, and packing shall be at level A, B, or industrial as specified. If no level is specified, selection shall be made in accordance with paragraph C-4.d. Equipment not covered herein shall be treated in accordance with the applicable commodity specification, or the methods herein for other items most similar to the specific equipment being processed.

a. Air Shipment. Equipment to be transported by air shall be prepared for shipment in accordance with MIL-A-25175.

b. Specific Equipment. Except as provided in paragraph C-10.a. above, the following types of items shall be packed at the required level in accordance with the document cited:

(1) Compressors and vacuum pumps, MIL-C-3600.

(2) Electronic and electrical equipment, MIL-E-17555 (also see paragraph C-12.).

(3) Engines, gasoline and diesel, MIL-E-10062.

(4) Furnaces and ovens, MIL-F-3296.


(6) Hose and fittings, MIL-P-775.

c. Level A Pack.

(1) Equipment not exceeding 1,000 pounds. Each item, complete with attachments, accessories, and components, weighing 1,000 pounds or less, shall be packed in a box conforming to PPP-B-601 (overseas type), or to PPP-B-621, class 2, style 2, 2-1/2 or 3, as applicable. Each container with contents weighing more than 200 pounds shall be modified by the installation of skid runners in accordance with the applicable container specification. Contents of each container shall be secured, waterproofed, cushioned, blocked, and braced in accordance with MIL-STD-1186. Containers shall be strapped with zinc-coated strapping conforming to QQ-S-781. Size and number of straps shall be in accordance with the appendix to the box specification.

(2) Equipment not exceeding 30,000 pounds. Each item, complete with attachments, accessories and components, weighing more than 1,000 pounds but not exceeding 30,000 pounds shall be packed in a crate conforming to MIL-C-104. Blocking, bracing, anchoring, cushioning, and waterproofing shall be in accordance with MIL-STD-1186. Closure and strapping shall be in accordance with the appendix to the crate specification (MIL-C-104) except strapping shall be zinc-coated.
(3) Equipment weighing over 30,000 pounds. APE weighing over 30,000 pounds, or dimensionally in excess of the limitations specified in MIL-C-104, shall be shipped in accordance with directions issued by the organization directing the shipment. Blocking, bracing, anchoring, cushioning, and waterproofing shall be in accordance with MIL-STD-1186.

d. Level B Pack.

(1) Equipment not exceeding 1,000 pounds. Each item, complete with attachments, accessories and components, weighing 1,000 pounds or less, shall be packed in a box conforming to PPP-B-601 (domestic type) or PPP-B-621, class 1, style as applicable. Each box with contents weighing more than 200 pounds shall be modified by the installation of skid runners in accordance with the applicable container specification. Contents of each container shall be cushioned, blocked, and braced in accordance with MIL-STD-1186. Boxes shall be strapped in accordance with the applicable container specification or the appendix thereto.

(2) Equipment not exceeding 16,000 pounds. Each item, complete with attachments, components and accessories, weighing more than 1,000 pounds but not exceeding 16,000 pounds shall be packed in open crates conforming to PPP-C-650 or MIL-C-3774, style optional depending on weight, size and dimensions of the unit to be packed. Blocking, anchoring, bracing, closure and strapping shall be in accordance with the appendix to the applicable crate specification.

(3) Equipment weighing over 16,000 pounds. APE weighing over 16,000 pounds but not exceeding 30,000 pounds shall be packed in accordance with paragraph C-10.C.(2). Equipment weighing over 30,000 pounds, or in excess of the limitations specified in MIL-C-104, shall be shipped in accordance with directions issued by the organization directing the shipment.

e. Industrial Level. APE accessories, attachments, and components shall be packed in a manner that will prevent deterioration and damage during shipment, handling, and storage. Containers and packing shall comply with Uniform Freight Classification Rules or National Motor Freight Classification Rules as applicable.

f. Marking. Marking shall be in accordance with MIL-STD-129.

g. Packing List. Packing list shall be prepared in accordance with MIL-STD-129.

C-11. Storage.

Sound engineering practices shall be observed in the storage of APE. In addition to other protective measures prescribed in this appendix, proper support of machine tools base(s) is required to prevent distortion. Skids shall provide proper load points for machine support members and load transfer points shall be maintained in storage (see para C-1.c.). Equipment mounted on wooden skids is subject to stresses caused by the warping of skid components in varying humidity environments. These loadings can distort precision machinery and in extreme cases, structural damage may occur. Machine anchor bolt holes (when provided) are used to secure machines to skids. After a machine has been located in storage, the machine bolt hold-down nuts shall be loosened a minimum of 1/2-inch from the machine base and the bolt threads preserved with P-2 preservative. Other machine-to-skid retention devices shall be similarly adjusted. Machines mounted on aluminum skids do not require unloading adjustments of the hold-down bolts or other retention configurations.

CAUTION
It is imperative that the machine-to-skid retention devices, whatever the configuration, ARE properly tightened and secured PRIOR to movement of equipment.

a. Types of Storage. The term “controlled” used herein applies only to the levels of relative humidity maintained in deterioration-retarding storage climates.
C-11. Storage (Cont).

(1) Controlled storage. Types of controlled storage areas are as follows:

(a) Type A. Controlled humidity (CH) storage: Dynamic dehumidification, enclosed building or hutment. Relative humidity maintained at 50% or less.

(b) Type B. Heated storage: temperature-regulated relative humidity, enclosed building or hutment. Relative humidity maintained at 50% or less.

(2) Uncontrolled storage. Storage areas with no relative humidity control. Such spaces may be as follows:

(a) Enclosed buildings.

(b) Outdoors, under cover (shed, lean-to).

(c) Outdoors, no cover structure, or similar protection from the elements.

Outdoor storage is satisfactory for specified APE items, e.g., APE 1937 and APE 2074.

d. Aisle Space. Equipment shall be arranged to provide adequate aisle space for inspection and to provide adequate room for the removal of equipment. The size of removal aisles should be governed by the size of equipment stored and the facilities available for handling. When practicable aisles should be continuous to promote a straight-line traffic pattern.

e. Accessories. Boxed and crated accessories and attachments shall be placed on the skid with the related equipment, if possible, and contact of wood with preserved surfaces avoided. When the above requirements are not practicable, boxed and crated accessories may be block-stacked separately from the basic item, provided they are identified to the item on which they belong. An appropriate notation shall be made on the record of the item to indicate that such accessories are stored in a particular location and are identified to the item.

f. Maintenance, Surveillance, and Inspection. Equipment in storage shall be free of deterioration. This includes the equipment retained in lay-away packages as standby-in-place, on-site and nearby. An inspection plan, acceptable to the NICP, shall be established at each storage location. The plan shall contain provisions to insure adequacy of equipment preservation in each of the types of storage used (see para C-11.a.). The plan shall include inspection of gear cases and other internal mechanisms to insure the items are

C-12
properly preserved and free of contamination. Sampling inspection shall be performed in accordance with MIL-STD-105. Inspection results shall be used in determining the frequency of inspections. Corrective actions shall be taken immediately when unsatisfactory conditions are found.

C-12. Electrical and Electronic Equipment and Components.

Except as otherwise indicated herein, the following applies for all levels of preservation-packaging and packing.

a. General. In addition to the requirements contained in MIL-E-17555, the following detailed requirements apply when preparing delicate electrical and electronic equipment for shipment. Typical examples, control panels, pendants, automatic machine control consoles, X-ray machines, electro-limit gages, comparators, machine control units and memory units are of such fabrication as to place them in a separate category with respect to cleaning, preservation-packaging, and packing. Equipment of this type depends heavily on the integrity of the electrical/electronic systems which demand special care in disassembly and reassembly. This is particularly true with respect to the many electrical conductors which interconnect separable components. When essential to preparation for shipment, handling, and storage, components may be disconnected and removed from the parent machine. Cable assemblies and conductor bundles shall be carefully removed from conduits (when applicable) and guided through routing access holes (when existent) during disassembly and reassembly. In-place immobilization is preferable when the proper degree of protection cannot be assured. The complexity of the designs and circuits, particularly of control panels, necessitates processing as assembled units, using only those methods of cleaning that will not damage delicate systems components and materials. Solvent flushing shall not be used in the cleaning of electrical circuits. Low pressure moisture-free compressed air, vacuum cleaning, or wiping with a lint-free cloth may be used for cleaning. Further cleaning-preservation is not required.

b. Cushioning, Blocking, and Bracing. It is of paramount importance that adequate cushioning, blocking and bracing be accomplished in preparing delicate electronic and electrical equipment for shipment. Vibration which can cause extensive damage to internal and external components, shall be held to a minimum. Cushioning, blocking and bracing shall be in accordance with MIL-STD-1186 and MIL-E-17555. Heavy components shall be adequately blocked and braced or removed. Many heavy components do not have adequate internal support to insure safe delivery. Therefore, consideration shall be given to removing these items and shipping separately. Particular attention shall be given to possible removal of heavy items, e.g., transformers and motors, which might break loose and cause damage. When components are removed from the equipment, disconnection shall be in accordance with paragraph C-6.i. and the components shall be marked and identified to assure correct reinstallation. All screws and bolts used to secure circuits, panels, shelves, etc., shall be tightened to prevent movement of the components during transportation and handling.

c. Electron Tubes. Electron tubes shall be handled in accordance with the requirements of paragraph C-6.n.

d. Packaging. Parts which have been removed shall be packaged in accordance with paragraph 3.3, MIL-E-17555. Packaged items shall be placed in containers conforming to PPP-B-601, PPP-B-621, PPP-B-636, PPP-B-640, or PPP-C-650. Cabinet doors shall be locked and secured with banding conforming to QQ-S-781. Adequate cushioning shall be used to prevent the banding from scratching or otherwise damaging the cabinet.

e. Packing. Each basic unit, together with removed parts packaged in accordance with paragraph C-12.d. above, shall be placed in a closed exterior container conforming to one of the applicable specifications listed in paragraph C-12.d. An
C-12. Electrical and Electronic Equipment and Components (Cont).

Adequate amount of cushioning material shall be applied to the top, bottom, and all sides of the item to absorb shock and prevent damage.

f. Marking. Marking shall be in accordance with MIL-STD-129; additional precautionary markings, e.g., "Fragile", "Handle with care", "This side up", shall be applied, as required.

g. Transportation Mode. Due to the high susceptibility of delicate electronic and electrical items to damage from vibration and shock, these items should be shipped on specialized equipment available from carriers for the movement of fragile items. For shipment of specialized equipment to a user utilizing industrial level packing, the requirements in paragraph C-12.e. above may be relaxed at the discretion of the shipped if evaluation by responsible government personnel indicates that boxing or crating is not required and safe delivery and handling can be assured.


The inspection of equipment shall be performed in a manner, and to the degree, that will assure acceptance of only approved methods and materials; requirements include complete inspection records. Inspection shall be performed by qualified personnel who, by training and experience, are familiar with the design, assembly, and operation of the type of equipment involved.

a. Inspection After Disassembly and Cleaning. The equipment shall be inspected to confirm that thorough cleaning has been accomplished and that all damaged or missing parts have been, or are scheduled to be, replaced. Disassembly and cleaning shall be accomplished in accordance with the requirements contained in paragraphs C-6, C-7, and C-8.

b. Inspection After Preservation. The equipment shall be inspected to insure that correct reassembly was accomplished after cleaning and that all surfaces requiring a preservative have been treated as required in paragraphs C-6, C-7, and C-8.

c. Inspection of Preservation-Packaging, Packing, Skidding, Marking, Shrouding, and Loading. Inspection shall be performed to assure that all accessories, attachments, and components, have been properly cleaned, preserved, packaged, or installed on the machine on which they are used. When items are not installed on the machine, they shall be packaged in accordance with instructions in this standard, identified with the machine on which they are used, and stored with the parent machine when possible. Packing lists shall be checked to insure conformance to MIL-STD-129. Inspection of the skidding, packing, shrouding, and loading shall be performed to insure conformance to the requirements contained in paragraphs C-9 and C-10.

d. Identification of Containers. Unless otherwise specified, all containers and packaged material shall be marked in accordance with MIL-STD-129.
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By Order of the Secretary of the Army:

GORDON R. SULLIVAN
General, United States Army
Chief of Staff

Official:
MILTON H. HAMILTON
Administrative Assistant to the Secretary of the Army

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<td>December 1993</td>
<td>Ammunition Peculiar Equipment</td>
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### THE METRIC SYSTEM AND EQUIVALENTS

#### LINEAR MEASURE
1 Centimeter = 10 Millimeters = 0.01 Meter = 0.3937 Inch
1 Decimeter = 10 Centimeters = 3.94 Inches
1 Meter = 10 Decimeters = 100 Centimeters = 1000 Millimeters = 39.37 Inches
1 Dekameter = 10 Meters = 32.8 Feet
1 Hectometer = 10 Dekameters = 328.08 Feet
1 Kilometer = 10 Hectometers = 1000 Meters = 0.621 Mile = 3,280.8 Feet

Millimeters = Inches times 25.4
Inches = Millimeters divided by 25.4

#### WEIGHTS
1 Centigram = 10 Milligrams = 0.154 Grain
1 Decigram = 10 Centigrams = 1.543 Grams
1 Gram = 0.001 Kilogram = 10 Decigrams
= 1000 Milligrams = 0.035 Ounce
1 Dekagram = 10 Grams = 0.035 Ounce
1 Hectogram = 10 Dekagrams = 3.527 Ounces
1 Kilogram = 10 Hectograms = 1000 Grams = 2.205 Pounds
1 Quintal = 100 Kilograms = 220.46 Pounds

#### LIQUID MEASURE
1 Milliliter = 0.001 Liter = 0.034 Fluid Ounce
1 Centiliter = 10 Milliliters = 0.34 Fluid Ounce
1 Deciliter = 10 Centiliters = 3.38 Fluid Ounces
1 Liter = 10 Deciliters = 1000 Milliliters = 33.82 Fluid Ounces
1 Dekaliter = 10 Liters = 26.42 Gallons
1 Hectoliter = 10 Dekaliters = 264.18 Gallons

### SQUARE MEASURE
1 Sq Centimeter = 100 Sq Millimeters = 0.155 Sq Inch
1 Sq Decimeter = 100 Sq Centimeters = 15.5 Sq Inches
1 Sq Meter (Centare) = 10 Sq Decimeters
= 10,000 Sq Centimeters = 10.764 Sq Feet
1 Sq Dekameter (Are) = 100 Sq Meters = 1,076.4 Sq Feet
1 Sq Hectometer (Hectare) = 100 Sq Dekameters = 2.471 Acres
1 Sq Kilometer = 100 Sq Hectometers = 1,000,000 Sq Meters
= 0.386 Sq Mile

### CUBIC MEASURE
1 Cu Centimeter = 1000 Cu Millimeters = 0.061 Cu Inch
1 Cu Decimeter = 1000 Cu Centimeters = 61.02 Cu Inches
1 Cu Meter = 1000 Cu Decimeters = 1,000,000 Cu Centimeters
= 35.31 Cu Feet

### TEMPERATURE
5/9 (^oF - 32) = ^oC
9/5 (^oC+ 32) = ^oF

-35^o Fahrenheit is equivalent to -37^o Celsius
0^o Fahrenheit is equivalent to -18^o Celsius
32^o Fahrenheit is equivalent to 0^o Celsius
90^o Fahrenheit is equivalent to 32.2^o Celsius
121^o Fahrenheit is equivalent to 38^o Celsius

-212^o Fahrenheit is equivalent to 0^o Celsius

### APPROXIMATE CONVERSION FACTORS

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[^oF]: ^oC = (^oF - 32) x 5/9
[^oC]: ^oF = (^oC x 9/5) + 32