

DIRECT FIRE AMMUNITION  
**HANDBOOK**

**Project Manager**

**PM**

**Reliable, Precise, Lethal**

**Maneuver Ammunition Systems**

**MAS**

**2025**

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# OUR MISSION

As the single manager for direct fire conventional ammunition, PM MAS develops and produces ammunition to provide joint and allied warfighters with lethality overmatch.

# OUR VISION

Innovative and dedicated hard-working professionals ensuring our Warfighters prevail in battle and return home safely.

Enclosed ammunition rounds are not to scale

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## ANTICIPATED FIELDING IN 2025 135



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# 5.56mm

## SMALL CALIBER AMMUNITION



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# M855

## Ball

### SYSTEM CHARACTERISTICS

<b>HEIGHT</b>	2.25 in
<b>WEIGHT</b>	190 gr
<b>VELOCITY</b>	3020 ft/s @ 78 ft
<b>DISPERSION</b>	≤ 6.3 in @ 600 yd

### ADDITIONAL FACTS

- Designed for use in M4, M4A1, M16A2, and M249 Squad Automatic
- Unsuitable for use in M16A1
- Steel insert effective against most types of fabric body armor
- Three piece construction achieves good effects against unprotected personnel targets



DODIC	NAME	WEAPON
<b>A059</b>	Ball M855, Clipped	M4, M4A1, M16A2/A4
<b>A062</b>	Ball M855 w/M27 Link	M249 SAW
<b>AB76</b>	4 Ball M855/1 Trace M856A1 w/M27 Link	M249 SAW

# M856

## Trace

### SYSTEM CHARACTERISTICS

<b>HEIGHT</b>	2.25 in
<b>WEIGHT</b>	189 gr
<b>VELOCITY</b>	3010 ft/s @78 ft
<b>DISPERSION</b>	≤ 10.3 in @ 600 yd

### ADDITIONAL FACTS

- Designed as a complement to M855 Ball for M249 SAW
- Requires 1:7 barrel twist for flight stability
- Unsuitable for use in M16A1



DODIC	NAME	WEAPON
<b>A063</b>	Trace M856	M4, M4A1, M16A2/A4

# M193

## Ball

### SYSTEM CHARACTERISTICS

<b>HEIGHT</b>	2.25 in
<b>WEIGHT</b>	182 gr
<b>VELOCITY</b>	3140 ft/s @ 78 ft
<b>DISPERSION</b>	≤ 6.3 in @ 200 yd

### ADDITIONAL FACTS

- M193 Ball designed during original M16 development program and is suitable for use in M16A1
- Can be safely used in M16A2 and newer weapons, but will not perform at its optimal level due to their barrel twist rate
- Effective against unprotected personnel



DODIC	NAME	WEAPON
<b>A071</b>	Ball M193, Clipped	M16, M16A1

# M200

## Blank

### SYSTEM CHARACTERISTICS

<b>HEIGHT</b>	1.90 in
<b>WEIGHT</b>	107 gr
<b>VELOCITY</b>	N/A

### ADDITIONAL FACTS

- For use in all US 5.56mm weapons
- Training unique round; not used in combat
- Used to simulate live firing in training exercises
- Cycles operating parts of gas-operated weapons when used with appropriate Blank Firing Adapter (BFA)
- Used for ceremonial purposes without a BFA by manually cycling weapon



DODIC	NAME	WEAPON
<b>A075</b>	Blank M200 w/M27 Link	M249 SAW
<b>A080</b>	Blank M200 (Carton Pack)	M4, M4A1, M16A2/A4

# M995 AP

## Armor Piercing

### SYSTEM CHARACTERISTICS

<b>HEIGHT</b>	2.25 in
<b>WEIGHT</b>	189 gr
<b>VELOCITY</b>	3020 ft/s @ 78 ft
<b>DISPERSION</b>	≤ 7.0 in @ 600 yd

### ADDITIONAL FACTS

- Penetrates 12 mm of steel at 100 m
- Designed to defeat light armored vehicles and other barrier materials on battlefield



# M855A1 EPR

## Enhanced Performance Round

### SYSTEM CHARACTERISTICS

<b>HEIGHT</b>	2.25 in
<b>WEIGHT</b>	191 gr
<b>VELOCITY</b>	3070 ft/s @ 78 ft
<b>DISPERSION</b>	≤ 6.3 in @ 600 yd

### ADDITIONAL FACTS

- Optimized for M4, M4A1 Carbine; unsuitable for M16A1
- Dramatically improved hard target performance
- Provides consistent effects against soft targets
- No weight increase, flash reduced, higher velocity
- Extremely effective against ALL target sets (general purpose round)



DODIC	NAME	WEAPON
<b>AA02</b>	4 AP M995/1 Trace M856 w/M27 Link	M249 SAW
<b>AA69</b>	AP M995, Clipped	M4, M4A1, M16A2/A4
<b>AB75</b>	4 AP M995/1 Trace M856A1 w/M27 Link	M249 SAW

DODIC	NAME	WEAPON
<b>AB56</b>	Ball 855A1 w/M27 Link	M249 SAW
<b>AB57</b>	Ball 855A1, Clipped	M4, M4A1, M16A2/A4
<b>AB58</b>	Ball 855A1, Clipped (Commercial Pack)	M4, M4A1, M16A2/A4
<b>AB73</b>	4 Ball M855A1/1 Trace M856A1	M249 SAW
<b>AB77</b>	Ball 855A1, Clipped (without Bandoleer)	M4, M4A1, M16A2/A4

# M856A1

Trace

## SYSTEM CHARACTERISTICS

<b>HEIGHT</b>	2.25 in
<b>WEIGHT</b>	183 gr
<b>VELOCITY</b>	3100 ft/s @ 78 ft
<b>DISPERSION</b>	≤ 10.3 in @ 600 yd

## ADDITIONAL FACTS

- Designed to accompany ballistics of M855A1 EPR cartridge and "trace" intended path relative to target in order to make corrections to aim
- Like other trace designs, a pyrotechnic mix is located in rear of bullet, which allows bullet to be tracked visually when fired
- M856A1 cartridge, like M856, is identified by an orange water-based acrylic coated tip; same visual appearance to user in field as the current M856



# M862 SRTA

Short Range Training Ammunition

## SYSTEM CHARACTERISTICS

<b>HEIGHT</b>	2.03 in
<b>WEIGHT</b>	108 gr
<b>VELOCITY</b>	4356 ft/s @ 15 ft
<b>DISPERSION</b>	Mean radius ≤ 1.1 in @ 25 m

## ADDITIONAL FACTS

- 5.56mm cartridge with plastic projectile
- Used with M2 Training Bolt
- Simulates standard 5.56mm ammo out to 25 m
- Designed for use in range restricted urban training areas (alternative to M193/M855 service rounds)
- Maximum range: 250 m
- Reduction in overall cost of training
- Reduced damage to MOUT facilities



DODIC	NAME	WEAPON
<b>AB73</b>	4 Ball M855A1/1 Trace M856A1 w/M27 Link	M249 SAW
<b>AB74</b>	Trace M856A1 (Carton Pack)	M4, M4A1, M16A2/A4
<b>AB75</b>	4 AP M995/1 Trace M856A1 w/M27 Link	M249 SAW
<b>AB76</b>	4 Ball M855/1 Trace M856A1 w/M27 Link	M249 SAW

DODIC	NAME	WEAPON
<b>AA68</b>	SRTA M862 (Carton Pack)	M4, M4A1, M16A2/A4 with Training Bolt



# M1037 SRTA

## Short Range Training Ammunition

### SYSTEM CHARACTERISTICS

<b>HEIGHT</b>	2.20 in
<b>WEIGHT</b>	165 gr
<b>VELOCITY</b>	2605 ft/s @ 78 ft
<b>DISPERSION</b>	≤ 3.5 in @ 110 yd

### ADDITIONAL FACTS

- Decreases Surface Danger Zones
- Effective for training out to 100 m
- Maximum range of less than 600 m
- Mean radius of 4.9 cm @ 100 m
- Bullet materials: copper, nylon, carbon fiber
- Non-toxic and lead free
- Cartridge case: standard NATO 5.56mm x 45mm
- **NOT FOR USE with M2 Training Bolt**
- **NOT FOR USE in plywood shoothouses**



# MK311

## Frangible Ammunition

### SYSTEM CHARACTERISTICS

<b>HEIGHT</b>	2.26 in
<b>WEIGHT</b>	175 gr
<b>VELOCITY</b>	2818 ft/s @ 78 ft
<b>DISPERSION</b>	≤ 8.8 in @ 600 yd

### ADDITIONAL FACTS

- Designed for use against soft targets, close quarter battles without collateral damage, and training
- Utilizes a frangible projectile designed to disintegrate upon impact
- Minimizes over-penetration and ricochet hazards
- Lead-free cartridge
- Metal powder core projectile with polymer material and semi-jacketed design for frangibility



DODIC	NAME	WEAPON
<b>AB66</b>	SRTA M1037 w/M27 Link	M249 SAW
<b>AB67</b>	SRTA M1037, Clipped (Lead Free)	M4, M4A1, M16A2/A4
<b>AC10</b>	SRTA M1037 w/M27 Link (Lead Free)	M249 SAW

DODIC	NAME	WEAPON
<b>AA40</b>	Mk311, Clipped	M4, M4A1, M16, M16A1, M16A2/A4, M249 SAW

# 6.8mm

## SMALL CALIBER AMMUNITION



DODIC	AMMO ROUND	PAGE
AC84	XM1186 GP	20
AC85		
AC86	XM1188 RR	21
AC87		
AC82	XM1192 Blank	22
AC83		
AC93	XM1184 SP	23
AC94		

# XM1186 GP

## General Purpose

### SYSTEM CHARACTERISTICS

<b>HEIGHT</b>	2.83 in
<b>WEIGHT</b>	335 gr
<b>VELOCITY</b>	3159 ft/s @ 78 ft
<b>DISPERSION</b>	≤ 2.6 in @ 200 yd

### ADDITIONAL FACTS

- Provides advanced performance against personnel and light materiel targets
- Bullet consists of gilded metal jacket with a copper core and exposed steel penetrator
- Cartridge case consists of brass body and steel head



# XM1188 RR

## Reduced Range

### SYSTEM CHARACTERISTICS

<b>HEIGHT</b>	2.80 in
<b>WEIGHT</b>	328 gr
<b>VELOCITY</b>	3135 ft/s @ 78 ft
<b>DISPERSION</b>	≤ 2.6 in @ 200 yd

### ADDITIONAL FACTS

- Training round for ranges with a limited range fan
- Bullet is solid copper
- Cartridge case consists of brass body and steel head



DODIC	NAME	WEAPON
<b>AC84</b>	GP XM1186 (Carton Pack)	XM7 Rifle
<b>AC85</b>	GP XM1186 with Link	XM250 Automatic Rifle

DODIC	NAME	WEAPON
<b>AC86</b>	RR XM1188 (Carton Pack)	XM7 Rifle
<b>AC87</b>	RR XM1188 with Link	XM250 Automatic Rifle

# XM1192

## Blank

### SYSTEM CHARACTERISTICS

<b>HEIGHT</b>	2.55 in
<b>WEIGHT</b>	204 gr
<b>VELOCITY</b>	N/A

### ADDITIONAL FACTS

- Intended for training use and weapon familiarization
- Cartridge case consists of brass body and steel head with no projectile
- Requires users to change the service bolt to the training bolt and install a Blank Firing Adapter (BFA), both of which are issued with each weapon as part of the Blank Firing Modification Kit (BFMK)
- Service and blank bolts will only fire their respective cartridges



# XM1184 SP

## Special Purpose

### SYSTEM CHARACTERISTICS

<b>HEIGHT</b>	2.81 in
<b>WEIGHT</b>	Undisclosed
<b>VELOCITY</b>	Undisclosed
<b>DISPERSION</b>	Undisclosed

### ADDITIONAL FACTS

- Combat cartridge to support the NGSW System Rifle/Automatic Rifle



DODIC	NAME	WEAPON
<b>AC82</b>	Blank XM1192 (Carton Pack)	XM7 Rifle with BFMK
<b>AC83</b>	Blank XM1192 with Link	XM250 Automatic Rifle with BFMK

DODIC	NAME	WEAPON
<b>AC93</b>	SP XM1184 with Link	XM7 Rifle
<b>AC94</b>	SP XM1184 (Carton Pack)	XM250 Automatic Rifle

# 7.62mm

## SMALL CALIBER AMMUNITION



DODIC	AMMO ROUND	PAGE
A111	M82 Blank	26
A112		
AB72	M82A1 Ceremonial Blank	27
A122	M80 Ball	28
A130		
A143		
A164		
A131	M80 Ball/M62 Trace	29
A165		
A168		
A151	M80/M62 Overhead Fire	30
A255	M80 Ball/M276 Dim Trace	31
A257		
AA04	M993 Armor Piercing	32
AA11	M118 Ball Long Range	33
AB79	M80A1/M62A1 Trace	34
AB82		
AB86		
AB88		
AB89	M1158 Advanced Armor Piercing/M62A1 Trace	36
AC09		
AC35		
AA37	M973/M974 SRTA Trace	37
AB60		

# M82

## Blank

### SYSTEM CHARACTERISTICS

<b>HEIGHT</b>	2.60 in
<b>WEIGHT</b>	235 gr
<b>VELOCITY</b>	N/A

### ADDITIONAL FACTS

- Training unique round; not used in combat
- Identified by absence of bullet and fluted rosette crimp at mouth
- Used to simulate live firing in training exercises



# M821A1

## Ceremonial Blank

### SYSTEM CHARACTERISTICS

<b>HEIGHT</b>	2.62 in
<b>WEIGHT</b>	235 gr
<b>VELOCITY</b>	N/A

### ADDITIONAL FACTS

- Used for saluting for ceremonial applications (M14 rifle)



DODIC	NAME	WEAPON
A111	Blank M82 w/M13 Link	M240 Series Machine Guns
A112	Blank M82, Single Round (Carton Pack)	M14 Rifles

DODIC	NAME	WEAPON
AB72	Blank M82A1, Bottlenose	M14 Rifles

# M80

## Ball

### SYSTEM CHARACTERISTICS

<b>HEIGHT</b>	2.80 in
<b>WEIGHT</b>	392 gr
<b>VELOCITY</b>	2750 ft/s @ 78 ft
<b>DISPERSION</b>	Mean radius ≤ 7.5 in @ 600 yd

### ADDITIONAL FACTS

- Linked straight ball M80 configuration—100 rounds per belt
- Bullet consists of copper alloy clad steel or copper alloy jacket with lead antimony slug



# M80 / M62

## Ball / Trace

### SYSTEM CHARACTERISTICS

<b>HEIGHT</b>		2.80 in
<b>WEIGHT</b>	<b>M80</b>	392 gr
	<b>M62</b>	383 gr
<b>VELOCITY</b>	<b>M80</b>	2750 ft/s @ 78 ft
	<b>M62</b>	2670 ft/s @ 78 ft
<b>DISPERSION</b>	<b>M80</b>	Mean radius ≤ 7.5 in @ 600 yd
	<b>M62</b>	Mean radius ≤ 15.0 in @ 600 yd

### ADDITIONAL FACTS

- 4 M80 Ball/1 M62 Trace cartridges are linked configuration—100 rounds per belt
- Bullet consists of copper alloy clad steel or copper alloy jacket with lead antimony slug



DODIC	NAME	WEAPON
<b>A122</b>	Ball M80, Single Round (Carton Pack)	M14 Rifles
<b>A130</b>	Ball M80, Clipped (5/Clip)	M14 Rifles
<b>A143</b>	Ball M80 w/M13 Link	M240 Series Machine Guns
<b>A164</b>	Ball M80 w/M13 Link	M134 Minigun, M240 Series Machine Guns

DODIC	NAME	WEAPON
<b>A131</b>	4 Ball M80/1 Trace M62 w/M13 Link	M240 Series Machine Guns
<b>A165</b>	4 Ball M80/1 Trace M62 w/M13 Link	M134 Minigun, M240 Series Machine Guns
<b>A168</b>	9 Ball M80/1 Trace M62 w/M13 Link	M134 Minigun, M240 Series Machine Guns

# M80 / M62

## Overhead Fire

### SYSTEM CHARACTERISTICS

<b>HEIGHT</b>		2.80 in
<b>WEIGHT</b>	<b>M80</b>	392 gr
	<b>M62</b>	383 gr
<b>VELOCITY</b>	<b>M80</b>	2750 ft/s @ 78 ft
	<b>M62</b>	2670 ft/s @ 78 ft
<b>DISPERSION</b>	<b>M80</b>	Mean radius ≤ 7.5 in @ 600 yd
	<b>M62</b>	Mean radius ≤ 15.0 in @ 600 yd

### ADDITIONAL FACTS

- Designed for overhead fire training; does not contain a base closure disk and is limited to a copper alloy jacket that is less prone to stripping to improve safety
- Can also be used for combat
- 4 M80 Ball/1 M62 Trace cartridges are linked configuration—100 rounds per belt
- Bullet consists of a copper alloy jacket with lead antimony slug



# M80 / M276

## Ball / Dim Trace

### SYSTEM CHARACTERISTICS

<b>HEIGHT</b>		2.80 in
<b>WEIGHT</b>	<b>M80</b>	392 gr
	<b>M276</b>	381 gr
<b>VELOCITY</b>	<b>M80</b>	2750 ft/s @ 78 ft
	<b>M276</b>	2670 ft/s @ 78 ft
<b>DISPERSION</b>	<b>M80</b>	Mean radius ≤ 7.5 in @ 600 yd
	<b>M276</b>	Mean radius ≤ 15.0 in @ 600 yd

### ADDITIONAL FACTS

- Used for combat and training
- Dim Trace rounds are only visible with night vision goggles
- 4 M80 FS/1 M276 Dim Trace cartridges are linked configuration—100 rounds per belt
- Bullet consists of copper alloy clad steel or copper alloy jacket with lead antimony slug



DODIC	NAME	WEAPON
<b>A151</b>	4 Ball M80/1 Trace M62 w/M13 Link f/OHF	M240 Series Machine Guns

DODIC	NAME	WEAPON
<b>A255</b>	4 Ball M80/1 Dim Trace M276 w/M13 Link	M240 Series Machine Guns, M134 Minigun
<b>A257</b>	9 Ball M80/1 Dim Trace M276 w/M13 Link	M240 Series Machine Guns, M134 Minigun



# M993 AP

## Armor Piercing

### SYSTEM CHARACTERISTICS

<b>HEIGHT</b>	2.80 in
<b>WEIGHT</b>	263 gr
<b>VELOCITY</b>	2985 ft/s @ 78 ft
<b>DISPERSION</b>	Mean radius $\leq$ 6.0 in @ 600 yd

### ADDITIONAL FACTS

- Designed for use in M24 Rifle, M240 Series Machine Guns
- Consists of a tungsten carbide penetrator contained in an aluminum cup and jacketed by copper clad steel
- Provides enhanced armor penetration
- Capable of penetrating .75" armor plate at distance not greater than 100 m
- Capable of penetrating .25" plate at distance of 550 m



# M118

## Ball Long Range

### SYSTEM CHARACTERISTICS

<b>HEIGHT</b>	2.83 in
<b>WEIGHT</b>	390 gr
<b>VELOCITY</b>	2575 ft/s @ 78 ft
<b>DISPERSION</b>	Extreme spread 10.3 in horiz/ 14 in vert @ 1000 yd

### ADDITIONAL FACTS

- Intended and specifically prepared for use in weapons designated as competition or sniper rifles
- Extended long range accuracy at 1000 yd
- Does not have bullet cannelure; case mouth not crimped



DODIC	NAME	WEAPON
AA04	4 AP M993/1 Trace M62 w/ M13 Link	M240 Series Machine Guns, M134 Minigun

DODIC	NAME	WEAPON
AA11	Ball M118, Long Range	M14, M24, M110, M40 USMC Series Rifles

# M80A1 / M62A1

Ball / Trace

## SYSTEM CHARACTERISTICS

<b>HEIGHT</b>		2.80 in
<b>WEIGHT</b>		374 gr
<b>VELOCITY</b>	<b>M80A1</b>	2925 ft/s @ 78 ft
	<b>M62A1</b>	2895 ft/s @ 78 ft
<b>DISPERSION</b>	<b>M80A1</b>	Mean radius ≤ 6.5 in @ 600 yd
	<b>M62A1</b>	Mean radius ≤ 15.0 in @ 600 yd



DODIC	NAME	WEAPON
<b>AB79</b>	Ball M80A1 w/ M13 Link	M240 Series Machine Guns
<b>AB82</b>	Ball M80A1 (Carton Packed)	M14 Rifles
<b>AB86</b>	4 Ball M80A1/1 Trace M62A1 w/M13 Link	M240 Series Machine Guns
<b>AB88</b>	4 Ball M80A1/1 Trace M62A1 w/M13 Link (750 Round Belt)	M134 Minigun
<b>AB89</b>	9 Ball M80A1/1 Trace M62A1 w/M13 Link (750 Round Belt)	M134 Minigun

# M80A1 / M62A1 (cont.)

Ball / Trace

## ADDITIONAL FACTS

- M62A1 companion Trace
- Provides Warfighter with improvement in hard/soft target performance while eliminating 350 metric tons of lead annually from training ranges
- 7.62mm Ball Cartridge used in M240 Machine Gun Family, M134, M110, M14/EBR EPR style projectile similar to 5.56mm M855A1 exposed steel penetrator copper core with jacket
- Lead-free projectile
- Primary 7.62mm combat cartridge
- 4 M80A1 Ball/1 M62A1 Trace cartridges are linked configuration—100 rounds per belt
- Bullet consists of gilded metal jacket with a copper core and exposed steel penetrator

# M1158 ADVAP / M62A1

Advanced Armor Piercing / Trace

## SYSTEM CHARACTERISTICS\*

<b>HEIGHT</b>	2.80 in
<b>WEIGHT*</b>	374 gr
<b>VELOCITY*</b>	2895 ft/s @ 78 ft
<b>DISPERSION*</b>	Mean radius $\leq$ 15.0 in @ 600 yd

\*M1158 ADVAP CHARACTERISTICS ARE UNDISCLOSED; TABLE ONLY INCLUDES CHARACTERISTICS FOR M62A1

## ADDITIONAL FACTS

- M1158 is an Advanced Armor Piercing (ADVAP) projectile with an exposed metal penetrator
- The M1158 cartridge is designed to defeat protected peer/near-peer threats
- The M1158 has a Security Risk Category Level 2 (SRC 2) designation



# M973 SRTA / M974 SRTA-T

Short Range Training Ammunition / Trace

## SYSTEM CHARACTERISTICS

<b>HEIGHT</b>	2.63 in
<b>WEIGHT</b>	300 gr
<b>VELOCITY</b>	2729 ft/s @ 78 ft
<b>DISPERSION</b>	Mean radius $\leq$ 3.1 in @ 109 yd

## ADDITIONAL FACTS

- Projectile design: composite material with front fins
- Short range training 4 SRTA/1 SRTA-T linked
- Ballistic match out to 100 m (simulates M80 Ball)
- Maximum range of 600 m
- No weapon modification required for function
- Frangible projectile to minimize damage to MOUT training sites and reduce ricochet hazard



DODIC	NAME	WEAPON
<b>AC09</b>	4 ADVAP M1158/1 M62A1 Trace w/M13 Link	M240 Series Machine Gun
<b>AC35</b>	ADVAP M1158, Clipped (10/Clip)	M110 Squad Designated Marksman Rifle

DODIC	NAME	WEAPON
<b>AA37</b>	4 Ball M973/1 Trace M974 w/M13 Link	M240 Series Machine Gun
<b>AB60</b>	M793 w/M13 Linked	M240 Series Machine Gun

# .50 caliber

## SMALL CALIBER AMMUNITION



DODIC	AMMO ROUND	PAGE
A555	M33 Ball	40
A557	M33Ball/M17 Trace	41
A576	M8 API/M20 API-T	42
A598	M1A1 Blank	43
A606	MK211 MP Mod 0	44
A607	MK211 Mod 1/M20 API-T	45
AB30	M8 API/MK257 API Dim Trace	46
A518	M903 SLAP/M962 SLAP	47
AA38		
A602	M858 SRTA/M860 SRTA Trace	48

# M33

## Ball

### SYSTEM CHARACTERISTICS

<b>HEIGHT</b>	5.45 in
<b>WEIGHT</b>	1782 gr
<b>VELOCITY</b>	2905 ft/s @ 78 ft
<b>DISPERSION</b>	Mean radius $\leq$ 12.0 in @ 600 yd

### ADDITIONAL FACTS

- Soft steel core bullet mainly used for training
- Linked into 100 round belts
- Packaged 1 belt to 1 M2A2 can; 2 cans per box
- Adopted and made by 30 countries, including U.S., Britain, Canada, France, Belgium, Israel, Netherlands, Japan, Singapore, and Taiwan



# M33 / M17

## Ball / Trace

### SYSTEM CHARACTERISTICS

<b>HEIGHT</b>		5.45 in
<b>WEIGHT</b>	<b>M33</b>	1782 gr
	<b>M17</b>	1718 gr
<b>VELOCITY</b>		2905 ft/s @ 78 ft
<b>DISPERSION</b>		Mean radius $\leq$ 12.0 in @ 600 yd

### ADDITIONAL FACTS

- Intended for use on full-sized ranges and produced to meet US military specification
- M33 has plain bullet tip
- M17 has brown bullet tip
- Produces red Trace; used against unarmored agents



DODIC	NAME	WEAPON
<b>A555</b>	Ball M33 w/M9 Link	M2, M2A1, M3 Machine Gun

DODIC	NAME	WEAPON
<b>A557</b>	4 Ball M33/1 Trace M17 w/M9 Link	M2/M3 Machine Gun

# M8 API / M20 API-T

Armor Piercing Incendiary / Trace

## SYSTEM CHARACTERISTICS

<b>HEIGHT</b>		5.45 in
<b>WEIGHT</b>	<b>M8</b>	1785 gr
	<b>M20</b>	1718 gr
<b>VELOCITY</b>		2905 ft/s @ 78 ft
<b>DISPERSION</b>		Average maximum mean radius ≤ 12.0 in @ 600 yd

## ADDITIONAL FACTS

- Designed to perforate or penetrate hardened or bullet-resistant targets with after armor effects
- Used against armored personnel vehicles
- M8 identified by gray bullet tip
- M20 identified by red over gray bullet tip
- Steel alloy core, point filler of incendiary composition, and lead-antimony (M8) copper alloy base seal



# M1A1

Blank

## SYSTEM CHARACTERISTICS

<b>HEIGHT</b>	3.91 in
<b>WEIGHT</b>	940 gr
<b>VELOCITY</b>	N/A

## ADDITIONAL FACTS

- .50 caliber training round for simulated fire
- Identified by absence of bullet and 6 fluted rosette crimp at mouth
- Operates with M2, M2A1, and M3 Machine Gun using the M19 Blank Firing Attachment (BFA)



DODIC	NAME	WEAPON
<b>A576</b>	4 API M8/1 API-T M20 w/M9 Link	M2, M2A1, M3 Machine Gun

DODIC	NAME	WEAPON
<b>A598</b>	Blank M1A1 w/M9 Link	M2, M2A1, M3 Machine Guns

# MK211

## Multi Purpose Mod 0

### SYSTEM CHARACTERISTICS

<b>HEIGHT</b>	5.45 in
<b>WEIGHT</b>	1765 gr
<b>VELOCITY</b>	2905 ft/s @ 78 ft
<b>DISPERSION</b>	Mean radius Mod 0 ≤ 6.0 in @ 600 yd

### ADDITIONAL FACTS

- Designed to perforate or penetrate hardened or bullet resistant targets
- Used against armored personnel vehicles
- High explosive, armor piercing incendiary projectile
- Identified with green bullet tip with aluminum color annulus



# MK211 / M20 API-T

## Mod 1 / Armor Piercing Incendiary-Trace

### SYSTEM CHARACTERISTICS

<b>HEIGHT</b>		5.45 in
<b>WEIGHT</b>	<b>MK211</b>	1765 gr
	<b>M20</b>	1718 gr
<b>VELOCITY</b>		2905 ft/s @ 78 ft
<b>DISPERSION</b>		Mean radius ≤ 12.0 in @ 600 yd

### ADDITIONAL FACTS

- Designed to perforate or penetrate hardened or bullet resistant targets with after armor effects
- Used against armored personnel vehicles
- Effective at starting fuel fires, including heavy distillates
- High explosive with incendiary
- MK211 identified with green bullet tip with aluminum color annulus
- M20 identified by red over gray bullet tip



DODIC	NAME	WEAPON
<b>A606</b>	MK211 Mod 0 Multi Purpose Sniper Round (Bulk Pack)	M107, M82, Sniper Rifles

DODIC	NAME	WEAPON
<b>A607</b>	4 MK211/1 API-T M20 w/ M9 Link	M2, M2A1, M3 Machine Guns

# M8 API / MK257

## Armor Piercing Incendiary / Dim Trace

### SYSTEM CHARACTERISTICS

<b>HEIGHT</b>		5.45 in
<b>WEIGHT</b>	<b>M8</b>	1785 gr
	<b>MK257</b>	1718 gr
<b>VELOCITY</b>		2905 ft/s @ 78 ft
<b>DISPERSION</b>		Mean radius ≤ 12.0 in @ 600 yd

### ADDITIONAL FACTS

- Designed to perforate or penetrate hardened or bullet resistant targets with armor effects
- Used against armored personnel vehicles
- M8 identified by gray bullet tip
- MK257 identified by lavender over gray bullet tip
- Steel alloy core, point filler of incendiary composition, and lead antimony (M8) copper alloy (MK257) base seal
- Trace is visible only in IR spectrum using night vision devices



# M903 SLAP / M962 SLAP-T

## Saboted Light Armor Penetrator / Trace

### SYSTEM CHARACTERISTICS

<b>HEIGHT</b>	5.45 in
<b>WEIGHT</b>	1466 gr
<b>VELOCITY</b>	4000 ft/s @ 78 ft
<b>DISPERSION</b>	Mean radius ≤ 18.0 in @ 600 yd

### ADDITIONAL FACTS

- Conical tungsten projectile with sabot
- M903 SLAP: Amber Sabot
- M962 SLAP-T: Red Sabot
- Incorporates improved penetrator, sabot, and propulsion systems
- Linked into 100 round belts bullet tip



DODIC	NAME	WEAPON
<b>AB30</b>	4 API M8/1API Dim Trace MK257 w/M9 Link	M2, M2A1, M3 Machine Guns

DODIC	NAME	WEAPON
<b>A518</b>	4 SLAP M903/1 SLAP Trace M962	M2, M2A1, M3 Machine Guns
<b>AA38</b>	Cal .50 M962 Tank Trainer	M2, M2A1, M3 Machine Guns



# M858 SRTA / M860 SRTA - T

## Short Range Training Ammunition

### SYSTEM CHARACTERISTICS

<b>HEIGHT</b>	5.21 in
<b>WEIGHT</b>	460 gr
<b>VELOCITY</b>	2790 ft/s @ 78 ft
<b>DISPERSION</b>	Mean radius ≤ 12.0 in @ 164 yd

### ADDITIONAL FACTS

- Accuracy match to M33/M17 at 150m
- Useful tool in instruction of M2, M2A1, M3 Machine Gun in range-restricted areas as well as MOUT application
- Maximum range of 500 m allowing higher capacity of training on smaller ranges
- Ideal for training with M2 on vehicular mount and tripod



DODIC	NAME	WEAPON
<b>A602</b>	4 SRTA M858/1 SRTA-T M860	M2, M2A1, M3 Machine Gun with Recoil Amplifier

# / NOTES /

# Miscellaneous

## SMALL CALIBER AMMUNITION



DODIC	AMMO ROUND	PAGE
A363	M882 Ball	52
AA49		
AC21	M1153 SP	53
AC23		
AC20	M1152 Ball	54
AC22		
AC60	M1157 Blank	55
A010	M220 Blank	56
A011/14/17	Ctg 12 Gauge	57
AA54	M1030 Breaching Round	58
AC32	M1162 AP/M1163 Norma Magnum	59
AC33		
AC24	DDI	60
AB46/47/48		
AC98/99		
AB36	M1041 CCMCK	61
AC36/37/38		
AC39/40/41		
AC42/43/44	M1071 CCMCK	62
A191	MK248 Mod 0 Ball	
A091	.22 Cal Ball	63

# M882

## 9mm Ball Pistol Ammunition

### SYSTEM CHARACTERISTICS

<b>HEIGHT</b>	1.17 in
<b>WEIGHT</b>	190 gr
<b>VELOCITY</b>	1230 ft/s @ 15 ft
<b>DISPERSION</b>	Mean radius $\leq$ 1.5 in @ 50 yd

### ADDITIONAL FACTS

- Used for training/force protection
- Compatible with all NATO 9mm weapons



# M1153 SP

## 9mm Jacketed Hollow Point

### SYSTEM CHARACTERISTICS

<b>HEIGHT</b>	1.13 in
<b>WEIGHT</b>	210 gr
<b>VELOCITY</b>	990 ft/s @ 15 ft
<b>DISPERSION</b>	Mean radius $\leq$ 1.1 in @ 50 yd

### ADDITIONAL FACTS

- Used in situation where high lethality and limited over-penetration of targets are necessary to meet mission profiles
- Critical to provide user with means to rapidly incapacitate in situations warranting use of deadly force
- Increased lethality
- Reduced over-penetration of personnel targets



DODIC	NAME	WEAPON
<b>A363</b>	9mm Ball M882 (Military Pack)	M9 Pistol, M11, MP5
<b>AA49</b>	9mm Ball M882 (Commercial Pack)	M9 Pistol, M11, MP5

DODIC	NAME	WEAPON
<b>AC21</b>	9mm Special Purpose M1153 (Military Pack)	M17, M18 Pistols, APC9K Submachine Gun
<b>AC23</b>	9mm Special Purpose M1153 (Commercial Pack)	M17, M18 Pistols, APC9K Submachine Gun

# M1152

## 9mm Ball Pistol Ammunition

### SYSTEM CHARACTERISTICS

HEIGHT	1.13 in
WEIGHT	179 gr
VELOCITY	1300 ft/s @ 15 ft
DISPERSION	Mean radius $\leq$ 1.1 in @ 50 yd

### ADDITIONAL FACTS

- Used for training/force protection



DODIC	NAME	WEAPON
AC20	9mm Ball M1152 (Military Pack)	M17, M18 Pistols
AC22	9mm Ball M1152 (Commercial Pack)	M17, M18 Pistols

# M1157

## 9mm Blank Pistol Ammunition

### SYSTEM CHARACTERISTICS

HEIGHT	1.11 in
WEIGHT	210 gr
VELOCITY	N/A

### ADDITIONAL FACTS

- Utilized during K9 Military Dog training
- Utilized during Soldier training
- Blank cartridge requires Blank Firing Conversion Kit
- Creates an audible report of 160-175 dB



DODIC	NAME	WEAPON
AC60	9mm Blank M1157 (Military Pack)	M17, M18 Pistols with Blank Firing Conversion Kit

# M220

## 10 Gauge Blank Cartridge

### SYSTEM CHARACTERISTICS

<b>HEIGHT</b>	2.88 in
<b>WEIGHT</b>	290 gr
<b>VELOCITY</b>	1148 ft/s @ 3 ft

### ADDITIONAL FACTS

- Used for rendering honors, funerals, retirement, or change of command ceremonies
- Blank is inserted either in a prepared cartridge case or in a breach block of the weapon being used
- Propellant is 8 g of OBP-124 powder



# CTG 12 GAUGE

## Buckshot, Commercial

### SYSTEM CHARACTERISTICS

<b>HEIGHT</b>	2.53 in
<b>WEIGHT</b>	13 gr
<b>VELOCITY</b>	1325 ft/s @ 3 ft

### ADDITIONAL FACTS

- Cartridge case plastic, loaded with smokeless powder and commercial shot
- Red case replaced with olive drab color case for improved camouflage capability
- Propellant: smokeless powder
- Chamber pressure: 11,000 psi



DODIC	NAME	WEAPON
<b>A010</b>	M220 Blank	3-inch guns, 75mm guns, 75mm howitzers, 105mm howitzers

DODIC	NAME	WEAPON
<b>A011</b>	Ctg. 12 Gauge #00 Buckshot (Military Pack)	Mossberg 590 Shotgun, Remington 870 Shotgun
<b>A014</b>	Ctg. 12 Gauge #7.5 Buckshot (Military Pack)	Mossberg 590 Shotgun, Remington 870 Shotgun
<b>A017</b>	Ctg. 12 Gauge #9 Buckshot (Military Pack)	Mossberg 590 Shotgun, Remington 870 Shotgun

# M1030

## 12 Gauge Breaching Round

### SYSTEM CHARACTERISTICS

<b>HEIGHT</b>	2.45 in
<b>WEIGHT</b>	617 gr
<b>VELOCITY</b>	1148 ft/s @ 3 ft

### ADDITIONAL FACTS

- Used to counter threats in locked/sealed buildings
- Has capability to open a door by destruction of lock or hinge with a single round
- Low hazard, non-shrapnel-producing round
- Frangible lead free slug (42 gr) compressed zinc pallets supported by plastic wad
- Fits current standard military 12 gauge
- New dull red color replaces older multi-colored design



DODIC	NAME	WEAPON
<b>AA54</b>	M1030 Breaching Round	Mossberg 590 Shotgun, Remington 870 Shotgun

# M1162 AP / M1163

## .338 Norma Magnum Armor Piercing / .300 Norma Magnum

### SYSTEM CHARACTERISTICS

<b>HEIGHT</b>	<b>M1162</b>	3.52 in
	<b>M1163</b>	3.62 in
<b>WEIGHT</b>	<b>M1162</b>	700 gr
	<b>M1163</b>	615 gr
<b>VELOCITY</b>	<b>M1162</b>	2700 ft/s @ 15 ft
	<b>M1163</b>	3000 ft/s @ 15 ft
<b>DISPERSION</b>	<b>M80A1</b>	Extreme spread ≤ 2.1 in @ 200 yd

### ADDITIONAL FACTS

- Intended for long range sniper engagements
- Effective range is approximately 1700 m/1500 m
- 300 gr Sierra Match King bullet / 215 gr Berger Hybrid Bullet



DODIC	NAME	WEAPON
<b>AC32</b>	.338 Norma Magnum AP	MK22 Sniper Rifle
<b>AC33</b>	.300 Norma Magnum	MK22 Sniper Rifle

# M1041 / M1042 / M1071

## Close Combat Mission Capability Kit (CCMCK)

### SYSTEM CHARACTERISTICS

<b>WEIGHT</b>	<b>M1041</b>	71.8 gr ctg., 7.7 gr projectile
	<b>M1042</b>	94.9 gr ctg., 6.9 gr projectile
	<b>M1071</b>	147.8 gr ctg., 6.9 gr projectile
<b>VELOCITY</b>	<b>M1041</b>	575 ft/s (M9), 491 ft/s (M11)
	<b>M1042</b>	483 ft/s (M16), 428 ft/s (M4, M4A1)
	<b>M1071</b>	441 ft/s (M249)
<b>DROP</b>	<b>M1041</b>	1 in drop 8 m from muzzle
	<b>M1042</b>	1 in drop 23 m
	<b>M1071</b>	1 in drop 23 m

### ADDITIONAL FACTS

- CCMCK installed weapons mod system allows soldier to employ weapons at short range training using low velocity marking ammunition
- Provides environmental/weapon employment cues and target feedback through force on force, interactive live fire scenario task, and mission
- Distinct identifiable markings
- Weapon kits prevent use of service ammo



DODIC	NAME	WEAPON
<b>AC36/37/38</b>	M1041 9mm Yellow/Blue/Red	Pistol
<b>AC39/40/41</b>	M1042 5.56mm Clipped Blue/Red/ Yellow	M4, M4A1, M16A2/ A3/A4, M249 SAW
<b>AC42/43/44</b>	M1071 5.56mm Linked Yellow/Blue/Red	M4, M4A1, M16A2/ A3/A4, M249 SAW

DISTRIBUTION STATEMENT A: Approved for Public Release; distribution is unlimited

# DDI

## Dummy, Drilled, & Inert

### ADDITIONAL FACTS

- Used for weapons training and maintenance
- Solid pieces design, nickel-colored plating
- Fluted except for 9mm DDI which has holes in case
- Primer cavity in base, but no primer is inserted
- DDI SAA is completely inert; no energetics or stored energy in DDI items



DODIC	NAME	WEAPON
<b>AC24</b>	M1157 9mm Dummy	M17, M18 Pistols
<b>AB46</b>	M199A1 5.56mm Dummy	M4, M4A1, M16A2/A4, M249 SAW
<b>AC98</b>	XM1194 6.8mm Dummy (w/Link)	XM250 Automatic Rifle
<b>AC99</b>	XM1194 6.8 mm Dummy (Carton Pack)	XM7 Rifle
<b>AB47</b>	M63A1 7.62mm Dummy	M240 Series Machine Guns
<b>AB48</b>	M2A1 .50 Cal Dummy	M2A1
<b>AB36</b>	M2A1 .50 Cal Dummy	M2

DISTRIBUTION STATEMENT A: Approved for Public Release; distribution is unlimited

# MK248

## Mod 0 Ball

### SYSTEM CHARACTERISTICS

<b>HEIGHT</b>	3.50 in
<b>WEIGHT</b>	445 gr
<b>VELOCITY</b>	3000 ft/s @ 15 ft
<b>DISPERSION</b>	Extreme Spread ≤ 4.7 in @ 300 yd

### ADDITIONAL FACTS

- Intended for long range sniper engagements
- Effective range is approximately 1100 m
- 190 gr Sierra Match King bullet



# A091

## .22 Caliber Ball

### SYSTEM CHARACTERISTICS

<b>HEIGHT</b>	1.00 in
<b>WEIGHT</b>	40 gr
<b>VELOCITY</b>	1100 ft/s @ 15 ft
<b>DISPERSION</b>	Extreme spread ≤ 1.3 in @ 100 yd

### ADDITIONAL FACTS

- Used in marksmanship competition
- Cartridges consist of a solid lead projectile



DODIC	NAME	WEAPON
A191	Ball .300 Win Mag Mod 0 (Carton Pack)	M2010 Enhanced Sniper Rifle

DODIC	NAME	WEAPON
A091	.22 Caliber Ball, Long Rifle, Match Grade for Rifle	Match Grade Rifles with manually operated bolt action





**MEDIUM CALIBER AMMUNITION**

20 & 25mm .....	66
30x113mm .....	76
30x173mm .....	82
High Velocity (HV) 40mm ...	90
Low Velocity (LV) 40mm .....	96

# 20 & 25mm

## MEDIUM CALIBER AMMUNITION



20MM		
DODIC	AMMO ROUND	PAGE
AB07	M940 MPT-SD	68
AC34		
AC18	M55A2	69

25MM		
DODIC	AMMO ROUND	PAGE
A974	M791 APDS-T	70
A986	M919 APFSDS-T	71
A975	M792 HEI-T	72
A976	M793 TP-T	73
A967	M794 Dummy	74
A940	M910 TPDS-T	75

# M940 MPT-SD

## Multi-Purpose Tracer with Self Destruct

### SYSTEM CHARACTERISTICS

<b>HEIGHT</b>	6.6 in
<b>WEIGHT</b>	260 g
<b>MAX RANGE</b>	2500 m
<b>RATE OF FIRE</b>	4500 spm

### ADDITIONAL FACTS

- Developed to defeat aircraft—hardened design allows for penetration of aircraft or projectile before detonation
- C-RAM employs it against incoming rockets, artillery shells, and mortar rounds
- Fuzeless Pyrotechnic initiated HE cartridge
- New JUONS configuration replaces pyrotechnic with tungsten penetrators in nose for increased lethality
- Belted with MK7 link; 100 linked cartridges per M548 container



# M55A2

## Target Practice

### SYSTEM CHARACTERISTICS

<b>HEIGHT</b>	6.6 in
<b>WEIGHT</b>	250 g
<b>MAX RANGE</b>	2500 m
<b>RATE OF FIRE</b>	4500 spm

### ADDITIONAL FACTS

- Target practice cartridge used to train or test the Land-based Phalanx Weapon System
- Electrically Primed



DODIC	NAME	WEAPON
<b>AB07</b>	M940	Land-based Phalanx Weapon System (LPWS)
<b>AC34</b>	M940	Land-based Phalanx Weapon System (LPWS)

DODIC	NAME	WEAPON
<b>AC18</b>	M55A2	Land-based Phalanx Weapon System (LPWS)

# M791 APDS-T

Armor Piercing Discarding Sabot with Tracer

## SYSTEM CHARACTERISTICS

<b>HEIGHT</b>	8.8 in
<b>WEIGHT</b>	461 g
<b>MAX RANGE</b>	Depends on target
<b>RATE OF FIRE</b>	200 spm

## ADDITIONAL FACTS

- Developed to defeat light armored vehicles through BMP-2 series
- Tungsten Penetrator
- 30 linked cartridges per PA125 container
- Replaced by M919 APFSDS-T cartridge which is primary anti-materiel cartridge for US Army and USMC



# M919 APFSDS-T

Armor Piercing Fin Stabilized Discarding Sabot with Tracer

## SYSTEM CHARACTERISTICS

<b>HEIGHT</b>	8.8 in
<b>WEIGHT</b>	454 g
<b>MAX RANGE</b>	Depends on target
<b>RATE OF FIRE</b>	200 spm

## ADDITIONAL FACTS

- Primary anti-materiel cartridge for US Army and USMC
- Provides increased lethality against light armor threats compared to M791
- Penetrator material: Depleted Uranium
- 30 linked cartridges per PA125 container



DODIC	NAME	WEAPON
<b>A974</b>	M791	M242 Bushmaster Chain Gun on US Army Bradley Fighting Vehicle (BFV) and USMC LAV-25

DODIC	NAME	WEAPON
<b>A986</b>	M919	M242 Bushmaster Chain Gun on US Army Bradley Fighting Vehicle (BFV) and USMC LAV-25

# M792 HEI-T

## High Explosive Incendiary with Tracer

### SYSTEM CHARACTERISTICS

<b>HEIGHT</b>	8.8 in
<b>WEIGHT</b>	505 g
<b>MAX RANGE</b>	2000 m
<b>RATE OF FIRE</b>	200 spm

### ADDITIONAL FACTS

- Tactical cartridge used to engage enemy personnel, weapon emplacements and conduct reconnaissance by fire
- Use has expanded to engagement of urban targets
- Uses M758 Point Initiated Base Detonating (PIBD) fuze which also has self-destruct feature
- 30 linked cartridges per PA125 container



# M793 TP-T

## Target Practice with Tracer

### SYSTEM CHARACTERISTICS

<b>HEIGHT</b>	8.8 in
<b>WEIGHT</b>	489 g
<b>MAX RANGE</b>	2000 m
<b>RATE OF FIRE</b>	200 spm

### ADDITIONAL FACTS

- Low-cost target practice cartridge —ballistically matched to M792
- US Army & USMC: 30 linked cartridges per PA125 container
- USN: 55 linked cartridges per CNU-405 container



DODIC	NAME	WEAPON
<b>A975</b>	M792	M242 Bushmaster Chain Gun on US Army Bradley Fighting Vehicle (BFV) and USMC LAV-25

DODIC	NAME	WEAPON
<b>A976</b>	M793	M242 Bushmaster Chain Gun on US Army Bradley Fighting Vehicle (BFV) and USMC LAV-25, Naval ships with M242 Bushmaster Chain Gun in MK38 Machine Gun Systems (MGS)

# M794

## Dummy

### SYSTEM CHARACTERISTICS

<b>HEIGHT</b>	8.8 in
<b>WEIGHT</b>	505 g
<b>MAX RANGE</b>	N/A
<b>RATE OF FIRE</b>	N/A

### ADDITIONAL FACTS

- Inert training device and maintenance tool for M242 Bushmaster Chain Gun
- Simulates size, shape, and mass of M792M793, PGU-23, PGU-25, and PGU-32
- 30 linked cartridges per PA125 container



# M910 TPDS-T

## Target Practice Discarding Sabot with Tracer

### SYSTEM CHARACTERISTICS

<b>HEIGHT</b>	8.8 in
<b>WEIGHT</b>	419 g
<b>MAX RANGE</b>	2000 m
<b>RATE OF FIRE</b>	200 spm

### ADDITIONAL FACTS

- Low-cost target practice ballistically matched to M791 and M919
- Steel core with windscreen
- 30 linked cartridges per PA125 container



DODIC	NAME	WEAPON
<b>A967</b>	M794	M242 Bushmaster Chain Gun on US Army Bradley Fighting Vehicle (BFV), USMC LAV-25, MK38

DODIC	NAME	WEAPON
<b>A940</b>	M910	M242 Bushmaster Chain Gun on US Army Bradley Fighting Vehicle (BFV) and USMC LAV-25

# 30x113mm

## MEDIUM CALIBER AMMUNITION



DODIC	AMMO ROUND	PAGE
<b>B118</b>	M788 TP	78
<b>B129</b>	M789 HEDP	79
<b>B133</b>	M848 Dummy	80

# M788 TP

## Target Practice

### SYSTEM CHARACTERISTICS

<b>HEIGHT</b>	7.9 in
<b>WEIGHT</b>	343 g
<b>MAX RANGE</b>	3000 m
<b>RATE OF FIRE</b>	625 spm

### ADDITIONAL FACTS

- Low cost target practice cartridge ballistically matched to M789
- Packed in bulk ammo strips, 11 cartridges per strip/110 cartridges per M592 container



# M789 HEDP

## High Explosive Dual Purpose

### SYSTEM CHARACTERISTICS

<b>HEIGHT</b>	7.9 in
<b>WEIGHT</b>	339 g
<b>MAX RANGE</b>	3000 m
<b>RATE OF FIRE</b>	625 spm

### ADDITIONAL FACTS

- High explosive dual purpose warhead with shaped charge provides anti-personnel and anti-materiel capabilities
- Uses M759 Point Initiating Base Detonating (PIBD) fuze
- Helicopters employ linkless ammo storage and feed systems
- Packed in bulk ammo strips, 11 cartridges per strip/110 cartridges per M592 container



DODIC	NAME	WEAPON
<b>B118</b>	M788	M230 Chain Gun on AH-64 Apache Attack Helicopters, 160th SOAR MH-60M Blackhawk Helicopters

DODIC	NAME	WEAPON
<b>B129</b>	M789	M230 Chain Gun on AH-64 Apache Attack Helicopters, 160th SOAR MH-60M Blackhawk Helicopters



# M848

## Dummy

### SYSTEM CHARACTERISTICS

HEIGHT	7.9 in
WEIGHT	340 g
MAX RANGE	N/A
RATE OF FIRE	N/A

### ADDITIONAL FACTS

- Inert training device and maintenance tool for M230 Chain Gun
- Simulates size, shape, and mass of M788 and M789
- Packed in bulk ammo strips, 11 cartridges per strip/110 cartridges per M592 container



DODIC	NAME	WEAPON
B133	M848	M230 Chain Gun on AH-64 Apache Attack Helicopters, 160th SOAR MH-60M Blackhawk Helicopters

# / NOTES /

# 30x173mm

## MEDIUM CALIBER AMMUNITION



DODIC	AMMO ROUND	PAGE
AC27	MK238 HEI-T	84
AC25	MK239 TP-T	85
AC26	MK258 APFSDS-T	86
AC28	MK317 TPDS-T	87
AC47	MK310 PABM-T	88

# MK238 Mod 1 HEI-T

## High Explosive Incendiary with Tracer

### SYSTEM CHARACTERISTICS

<b>HEIGHT</b>	11.4 in max
<b>WEIGHT</b>	670 g
<b>MAX RANGE</b>	1800 m
<b>RATE OF FIRE</b>	200 spm

### ADDITIONAL FACTS

- High explosive incendiary cartridge with trace fielded in support of the Stryker Lethality Operational Needs Statement (ONS)
- Uses M758 Low Drag (LD) Point Initiating Base Detonating (PIBD) fuze which has a self-destruct feature
- Mated to the cartridge case assembly which includes an aluminum case, flash tube assembly, primer, and propellant
- Employment: light armor, field fortifications, bunkers, troops



# MK239 TP-T

## Target Practice with Tracer

### SYSTEM CHARACTERISTICS

<b>HEIGHT</b>	11.4 in max
<b>WEIGHT</b>	675 g
<b>MAX RANGE</b>	2000 m
<b>RATE OF FIRE</b>	200 spm

### ADDITIONAL FACTS

- Target practice cartridge with trace fielded in support of the Stryker Lethality Operational Needs Statement (ONS)
- Provides a low cost ballistic match to the MK238 Mod 1 HEI-T cartridge to provide the soldier with a realistic training environment
- Consists of an inert steel projectile and aluminum windscreen
- Mated to the cartridge case assembly, which is composed of an aluminum case, flash tube assembly, primer, and propellant



DODIC	NAME	WEAPON
AC27	MK238	XM813 Weapon System, naval ships with MK44 Cannon in MK46 Gun Weapon System

DODIC	NAME	WEAPON
AC25	MK239	XM813 Weapon System, naval ships with MK44 Cannon in MK46 Gun Weapon System

# MK258 Mod 1 APFSDS-T

Armor Piercing Fin Stabilized Discarding Sabot with Tracer

## SYSTEM CHARACTERISTICS

<b>HEIGHT</b>	11.1 in max
<b>WEIGHT</b>	406 g
<b>MAX RANGE</b>	2000 m
<b>RATE OF FIRE</b>	200 spm

## ADDITIONAL FACTS

- Armor piercing fin stabilized discarding sabot with tracer cartridge fielded in support of the Stryker Lethality Operational Needs Statement (ONS)
- Consists of steel case with Tungsten Nickel Cobalt penetrator
- Employment: medium and light armor, hardened bunkers, hardened field fortifications, penetrate walls



# MK317 TPDS-T

Target Practice Discarding Sabot with Tracer

## SYSTEM CHARACTERISTICS

<b>HEIGHT</b>	10.8 in max
<b>WEIGHT</b>	445 g
<b>MAX RANGE</b>	2000 m
<b>RATE OF FIRE</b>	200 spm

## ADDITIONAL FACTS

- Target practice discarding sabot cartridge with trace fielded in support of the Stryker Lethality Operational Needs Statement (ONS)
- Provides a low cost ballistic match to the MK258 APFSDS-T cartridge to provide the soldier with a realistic training environment
- Consists of an inert steel core inside a molded plastic sabot
- Mated to the cartridge assembly case which is composed of an aluminum case, flash tube assembly, primer, and propellant.



DODIC	NAME	WEAPON
AC26	MK258	XM813 Weapon System, naval ships with MK44 Cannon in MK46 Gun Weapon System

DODIC	NAME	WEAPON
AC28	MK317	XM813 Weapon System

# MK310 Mod 0 PABM-T

## Programmable Airburst Munition with Tracer

### SYSTEM CHARACTERISTICS

<b>HEIGHT</b>	11.4 in max
<b>WEIGHT</b>	713 g
<b>MAX RANGE</b>	2000 m
<b>RATE OF FIRE</b>	120 spm

### ADDITIONAL FACTS

- Programmable airburst cartridge with trace fielded in support of the Stryker Lethality Operational Needs Statement (ONS)
- Consists of a steel projectile filled with PBXN-5 High Explosive, Incendiary Mix, and an inductive set (programmable) fuze with three modes: point detonation, point detonating delay, and airburst, and also has a self-destruct feature
- Employment: light armor, field fortifications, incendiary effects, bunkers, troops (in open and/or under cover)



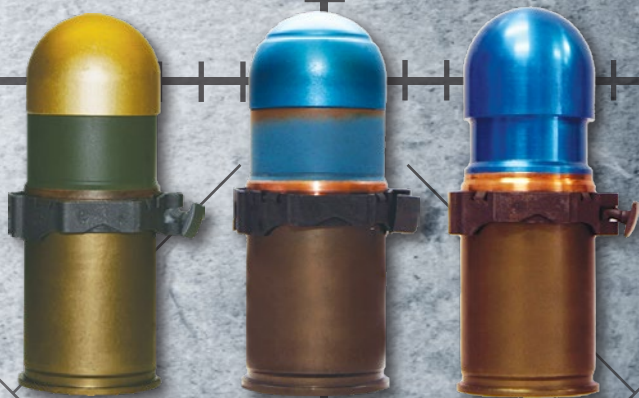
DODIC	NAME	WEAPON
AC47	MK310	XM813 Weapon System

# / NOTES /



# High Velocity (HV) 40mm

## MEDIUM CALIBER AMMUNITION



DODIC	AMMO ROUND	PAGE
<b>B542</b>	M430A1 HEDP	92
<b>B584</b>	M918 TP	93
<b>B576</b>	M385A1 TP	94
<b>BA30</b>	Mixed Belt (M918/M385A1)	93-94

# M430A1 HEDP

## High Explosive Dual Purpose

### SYSTEM CHARACTERISTICS

<b>HEIGHT</b>	4.4 in
<b>WEIGHT</b>	340 g
<b>MAX RANGE</b>	2200 m
<b>RATE OF FIRE</b>	350 spm
<b>MUZZLE VELOCITY</b>	790 ft/s

### ADDITIONAL FACTS

- High explosive dual purpose, with Point Initiating, Base Detonating (PIBD) fuze M549A1
- Inflicts personnel casualties in target area
- Penetrates 3" of steel armor
- Provides both armor piercing and anti-personnel
- Packed into PA120 cans (32 linked rounds)



# M918 TP

## Target Practice

### SYSTEM CHARACTERISTICS

<b>HEIGHT</b>	4.4 in
<b>WEIGHT</b>	344 g
<b>MAX RANGE</b>	2200 m
<b>RATE OF FIRE</b>	350 spm
<b>MUZZLE VELOCITY</b>	795 ft/s

### ADDITIONAL FACTS

- Target practice round designed to simulate M430A1 HEDP in appearance and ballistics
- Provides flash, smoke, and bang upon impact of target
- Packed into PA120 cans (32 linked rounds)
- Mixed belt configuration M918:M385A1, 22:10



DODIC	NAME	WEAPON
<b>B542</b>	M430A1	MK19 Mod 3 Grenade MG

DODIC	NAME	WEAPON
<b>B584</b>	M918	MK19 Mod 3 Grenade MG
<b>BA30</b>	Mixed Belt	MK19 Mod 3 Grenade MG

# M385A1 TP

## Target Practice

### SYSTEM CHARACTERISTICS

<b>HEIGHT</b>	4.4 in
<b>WEIGHT</b>	350 g
<b>MAX RANGE</b>	2200 m
<b>RATE OF FIRE</b>	350 spm
<b>MUZZLE VELOCITY</b>	795 ft/s

### ADDITIONAL FACTS

- Target practice or proof-testing round
- Provides minimal impact signature with no duds
- Projectile machined solid aluminum
- Packed into PA120 cans (32 linked rounds)
- Mixed belt configuration M918:M385A1, 22:10



DODIC	NAME	WEAPON
<b>B576</b>	M385A1	MK19 Mod 3 Grenade MG
<b>BA30</b>	Mixed Belt	MK19 Mod 3 Grenade MG

## / NOTES /



# Low Velocity (LV) 40mm

## MEDIUM CALIBER AMMUNITION



DODIC	AMMO ROUND	PAGE
<b>B546</b>	M433 HEDP	98
<b>BA03</b>	M992 IR	99
<b>B535</b>	M583A1 WS	100
<b>B504</b>	M661 GS	101
<b>B505</b>	M662 RS	102
<b>B536</b>	M585 WS	103
<b>B519</b>	M781 TP	104

# M433 HEDP

## High Explosive Dual Purpose

### SYSTEM CHARACTERISTICS

<b>HEIGHT</b>	4.0 in
<b>WEIGHT</b>	230 g
<b>MAX RANGE</b>	400 m
<b>RATE OF FIRE</b>	Single shot
<b>MUZZLE VELOCITY</b>	250 ft/s

### ADDITIONAL FACTS

- High explosive dual purpose with Point Initiating, Based Detonating (PIBD) fuze M550
- Casualty radius 5 m, injury radius 15 m
- Penetrates 2 in of steel armor
- 6-round bandoleer; 12 bandoleers/72 rounds/box



# M992 IR

## Infrared Illumination

### SYSTEM CHARACTERISTICS

<b>HEIGHT</b>	5.3 in
<b>WEIGHT</b>	222 g
<b>BURST HEIGHT</b>	150-215 m
<b>RATE OF FIRE</b>	Single shot
<b>MUZZLE VELOCITY</b>	250 ft/s

### ADDITIONAL FACTS

- 40 seconds burn time
- Enhances nighttime operational capabilities for troops engaged using night vision equipment
- Provides IR illumination with minimal visible light output
- Enhances target detection and recognition at night
- Parachute lowers candle at 7 ft/s
- Raised letter "I" on Ogive identifies type of cartridge
- 22 rounds per metal can
- 2 cans per wirebound box



DODIC	NAME	WEAPON
B546	M433	M320 Grenade Launchers

DODIC	NAME	WEAPON
BA03	M992	M320 Grenade Launchers

# M583A1 WS

## White Star Parachute

### SYSTEM CHARACTERISTICS

<b>HEIGHT</b>	5.3 in
<b>WEIGHT</b>	222 g
<b>BURST HEIGHT</b>	150-215 m
<b>RATE OF FIRE</b>	Single shot
<b>MUZZLE VELOCITY</b>	250 ft/s

### ADDITIONAL FACTS

- Illumination and signaling round
- Designed for less weight and bulk
- Greater accuracy than comparable handheld signals
- 40 seconds burn time
- Candle visible at slant range of at least 3 miles from 3000 ft altitude
- Parachute lowers candle at 7 ft/s
- Raised letter "W" on Ogive identifies color of cartridge
- 22 rounds per metal can
- 2 cans per wirebound box



# M661 GS

## Green Star Parachute

### SYSTEM CHARACTERISTICS

<b>HEIGHT</b>	5.3 in
<b>WEIGHT</b>	222 g
<b>BURST HEIGHT</b>	150-215 m
<b>RATE OF FIRE</b>	Single shot
<b>MUZZLE VELOCITY</b>	250 ft/s

### ADDITIONAL FACTS

- Illumination and signaling round
- Designed for less weight and bulk
- Greater accuracy than comparable handheld signals
- 40 seconds burn time
- Candle visible at slant range of at least 3 miles from 3000 ft altitude
- Parachute lowers candle at 7 ft/s
- Raised letter "G" on Ogive identifies color of cartridge
- 22 rounds per metal can
- 2 cans per wirebound box



DODIC	NAME	WEAPON
<b>B535</b>	M583A1	M320 Grenade Launchers

DODIC	NAME	WEAPON
<b>B504</b>	M661	M320 Grenade Launchers

# M662 RS

## Red Star Parachute

### SYSTEM CHARACTERISTICS

<b>HEIGHT</b>	5.3 in
<b>WEIGHT</b>	222 g
<b>BURST HEIGHT</b>	150-215 m
<b>RATE OF FIRE</b>	Single shot
<b>MUZZLE VELOCITY</b>	250 ft/s

### ADDITIONAL FACTS

- Illumination and signaling round
- Designed for less weight and bulk
- Greater accuracy than comparable handheld signals
- 40 seconds burn time
- Candle visible at slant range of at least 3 miles from 3000 ft altitude
- Parachute lowers candle at 7 ft/s
- Raised letter "R" on Ogive identifies color of cartridge
- 22 rounds per metal can
- 2 cans per wirebound box



# M585 WS

## White Star Cluster

### SYSTEM CHARACTERISTICS

<b>HEIGHT</b>	5.3 in
<b>WEIGHT</b>	186 g
<b>BURST HEIGHT</b>	167 m
<b>RATE OF FIRE</b>	Single shot
<b>MUZZLE VELOCITY</b>	250 ft/s

### ADDITIONAL FACTS

- Illumination and signaling round
- Designed for less weight and bulk
- Greater accuracy than comparable handheld signals
- Individual stars burn for approximately 7 seconds minimum
- Five raised dots and raised letter "W" on Ogive identify color and type of cartridge
- 22 rounds per metal can
- 2 cans per wirebound box



DODIC	NAME	WEAPON
<b>B505</b>	M662	M320 Grenade Launchers

DODIC	NAME	WEAPON
<b>B536</b>	M585	M320 Grenade Launchers

# M781 TP

## Target Practice

### SYSTEM CHARACTERISTICS

<b>HEIGHT</b>	4.0 in
<b>WEIGHT</b>	205 g
<b>MAX RANGE</b>	400 m
<b>RATE OF FIRE</b>	Single shot
<b>MUZZLE VELOCITY</b>	250 ft/s

### ADDITIONAL FACTS

- Target practice round designed to simulate M433 HEDP in appearance and ballistics
- Emits bright orange dye upon target impact
- 100 rounds per wood box



<b>DODIC</b>	<b>NAME</b>	<b>WEAPON</b>
B519	M781	M320 Grenade Launchers

/ NOTES /



## LARGE CALIBER AMMUNITION

105mm.....	108
120mm.....	120

# 105mm

## LARGE CALIBER AMMUNITION



DODIC	AMMO ROUND	PAGE
CA40	M1040	110
CA32	M393A3 HEP-T	111
C510	M467 TP-T	112
C503	M393A1 TP-T	113
CA37	M467A1 TP-T	114
C508	M456A2 HEAT-T	115
C511	M490A1 TP-T	116
C543	M900 APFSDS-T	117
C520	M724A1 TPDS-T	118
CA58	M724A2 TPDS-T	119

# M1040

## Canister

### SYSTEM CHARACTERISTICS

<b>HEIGHT</b>	34.3 in (872 mm)
<b>WEIGHT</b>	52.7 lb (23.9 kg)
<b>MUZZLE VELOCITY</b>	3415 ft/s (1041 m/s)
<b>PAYLOAD</b>	2080 Tungsten spheres
<b>FUZE</b>	None
<b>PACKING CONTAINER*</b>	PA117 (72 lb/32.7 kg)

\*30 CONTAINERS PER PALLET

### ADDITIONAL FACTS

#### Target Set:

- Troops in the open
- Anti-materiel against technical trucks
- Adobe-type walls (close-in)
- Surface Laid Obstacles

**Effective Range:** 300 m

**Announced as:** "CAN"



# M393A3 HEP-T

## High-Explosive Plastic with Tracer

### SYSTEM CHARACTERISTICS

<b>HEIGHT</b>	37.0 in (940 mm)
<b>WEIGHT</b>	43.5 lb (20.0 kg)
<b>MUZZLE VELOCITY</b>	2470 ft/s (753 m/s)
<b>PAYLOAD</b>	6.6 lb (3.0 kg) Comp A3
<b>FUZE</b>	Dual Safe
<b>PACKING CONTAINER*</b>	PA117 (68 lb/30.8 kg)

\*30 CONTAINERS PER PALLET

### ADDITIONAL FACTS

#### Target Set:

- Wall breach
- Bunkers
- Field fortifications
- Light armor

**Effective Range:** 2000 m

**Announced as:** "HEP"



DODIC	NAME	WEAPON
CA40	M1040	105mm M10 Booker

DODIC	NAME	WEAPON
CA32	M393A3	105mm M10 Booker



# M467 TP-T

## Target Practice with Tracer

### SYSTEM CHARACTERISTICS

<b>HEIGHT</b>	37.0 in (940 mm)
<b>WEIGHT</b>	45.0 lb (20.4 kg)
<b>MUZZLE VELOCITY</b>	2400 ft/s (731.5 m/s)
<b>PAYLOAD</b>	Inert
<b>FUZE</b>	None
<b>PACKING CONTAINER*</b>	Wood box (137.0 lb/62.1 kg)

\*30 ROUNDS PER PALLET

### ADDITIONAL FACTS

#### Target Set:

- Training targets (wall, bunker, light armor)

**Effective Range:** 2000 m

**Announced as:** "HEP"



# M393A1 TP-T

## Target Practice with Tracer

### SYSTEM CHARACTERISTICS

<b>HEIGHT</b>	37.0 in (940 mm)
<b>WEIGHT</b>	45.0 lb (20.4 kg)
<b>MUZZLE VELOCITY</b>	2400 ft/s (731.5 m/s)
<b>PAYLOAD</b>	Inert
<b>FUZE</b>	None
<b>PACKING CONTAINER*</b>	Wood box (137.0 lb/62.1 kg)

\*30 ROUNDS PER PALLET

### ADDITIONAL FACTS

#### Target Set:

- Training targets (wall, bunker, light armor)

**Effective Range:** 2000 m

**Announced as:** "HEP"



DODIC	NAME	WEAPON
C510	M467	105mm M10 Booker

DODIC	NAME	WEAPON
C503	M393A1	105mm M10 Booker

# M467A1 TP-T

## Target Practice with Tracer

### SYSTEM CHARACTERISTICS

<b>HEIGHT</b>	37.0 in (940 mm)
<b>WEIGHT</b>	43.5 lb (20 kg)
<b>MUZZLE VELOCITY</b>	2470 ft/s (753 m/s)
<b>PAYLOAD</b>	None
<b>FUZE</b>	None
<b>PACKING CONTAINER*</b>	PA117 (68.0 lb/30.8 kg)

\*30 CONTAINERS PER PALLET

### ADDITIONAL FACTS

#### Target Set:

- Training targets (wall, bunker, light armor)

**Effective Range:** 2000 m

**Announced as:** "HEP"



# M456A2 HEAT-T

## High Explosive Anti-Tank with Tracer

### SYSTEM CHARACTERISTICS

<b>HEIGHT</b>	39.6 in (1006 mm)
<b>WEIGHT</b>	49.0 lb (22.3 kg)
<b>MUZZLE VELOCITY</b>	3850 ft/s (1173 m/s)
<b>PAYLOAD</b>	2.1 lb (1.0 kg) Comp B
<b>FUZE</b>	M509A1
<b>PACKING CONTAINER*</b>	Wood box (141.0 lb/64.0 kg)

\*30 ROUNDS PER PALLET

### ADDITIONAL FACTS

#### Target Set:

- Personnel carriers
- Field fortifications
- Secondary armor defeat

**Effective Range:** 2000 m

**Announced as:** "HEAT"



DODIC	NAME	WEAPON
CA37	M467A1	105mm M10 Booker

DODIC	NAME	WEAPON
C508	M456A2	105mm M10 Booker

# M490A1 TP-T

## Target Practice with Tracer

### SYSTEM CHARACTERISTICS

<b>HEIGHT</b>	39.3 in (999 mm)
<b>WEIGHT</b>	45.8 lb (20.8 kg)
<b>MUZZLE VELOCITY</b>	3850 ft/s (1173 m/s)
<b>PAYLOAD</b>	Inert
<b>FUZE</b>	None
<b>PACKING CONTAINER*</b>	Wood box (132 lb/59.9 kg) or crate

\*30 ROUNDS PER PALLET OR 39 ROUNDS PER CRATE

### ADDITIONAL FACTS

#### Target Set:

- Training targets (light armor, heavy armor, bunkers)

**Effective Range:** 2000 m

**Announced as:** "HEAT"



# M900 APFSDS-T

## Armor Piercing Fin Stabilized Discarding Sabot with Tracer

### SYSTEM CHARACTERISTICS

<b>HEIGHT</b>	39.5 in (1004 mm)
<b>WEIGHT</b>	40.8 lb (18.5 kg)
<b>MUZZLE VELOCITY</b>	4938 ft/s (1505 m/s)
<b>PAYLOAD</b>	Depleted uranium
<b>FUZE</b>	None
<b>PACKING CONTAINER*</b>	PA117 (57.8 lb/26.2 kg)

\*30 ROUNDS PER PALLET

### ADDITIONAL FACTS

#### Target Set:

- Heavy Armor

**Effective Range:** 3000 m

**Announced as:** "SABOT"



DODIC	NAME	WEAPON
C511	M490A1	105mm M10 Booker

DODIC	NAME	WEAPON
C543	M900	105mm M10 Booker

# M724A1 TPDS-T

Target Practice Discarding Sabot with Tracer

## SYSTEM CHARACTERISTICS

<b>HEIGHT</b>	33.0 in (838 mm)
<b>WEIGHT</b>	32.0 lb (14.5 kg)
<b>MUZZLE VELOCITY</b>	5080 ft/s (1548 m/s)
<b>PAYLOAD</b>	Inert
<b>FUZE</b>	None
<b>PACKING CONTAINER*</b>	Wood box (107 lb/48.5 kg)

\*30 ROUNDS PER PALLET

## ADDITIONAL FACTS

Target Set:

- Training targets (heavy armor)

**Effective Range:** 2000 m

**Announced as:** "SABOT"



# M724A2 TPDS-T

Target Practice Discarding Sabot with Tracer

## SYSTEM CHARACTERISTICS

<b>HEIGHT</b>	39.5 in (1003 mm)
<b>WEIGHT</b>	35.0 lb (15.9 kg)
<b>MUZZLE VELOCITY</b>	5151 ft/s (1570 m/s)
<b>PAYLOAD</b>	Inert
<b>FUZE</b>	None
<b>PACKING CONTAINER*</b>	PA117 (57 lb/25.9 kg)

\*30 CONTAINERS PER PALLET

## ADDITIONAL FACTS

Target Set:

- Training targets (heavy armor)

**Effective Range:** 2000 m

**Announced as:** "SABOT"



DODIC	NAME	WEAPON
C520	M724A1	105mm M10 Booker

DODIC	NAME	WEAPON
CA58	M724A2	105mm M10 Booker

# 120mm

## LARGE CALIBER AMMUNITION



DODIC	AMMO ROUND	PAGE
CA38	M1028	122
C791	M830A1 HEAT-MP-T	123
CA05	M908 HE-OR-T	124
CA31	M1002 TPMP-T	125
C787	M830 HEAT MP-T	126
C784	M831A1 TP-T	127
C792	M829A2	128
CA26	M829A3 APFSDS-T	129
CA64	M829A4 APFSDS-T	130
C785	M865 TPCSDS-T	131
CA71	M1147 HEMP-T/AMP	132
CA69	M865A1 TPCSDS-T	133

# M1028

## Canister

### SYSTEM CHARACTERISTICS

<b>HEIGHT</b>	30.7 in (779 mm)
<b>WEIGHT</b>	50.5 lb (22.9 kg)
<b>MUZZLE VELOCITY</b>	4626 ft/s (1410 m/s)
<b>PAYLOAD</b>	1100 Tungsten Spheres
<b>FUZE</b>	None
<b>PACKING CONTAINER*</b>	PA171 (75.0 lb/34.0 kg)

\*30 CONTAINERS PER PALLET

### ADDITIONAL FACTS

#### Target Set:

- Troops in the open
- Thin-skinned vehicles
- Cinderblock walls
- Concertina wire and foliage

**Effective Range:** 500 m

**Announced as:** "CAN/CANISTER"

Also used on training ranges



# M830A1 HEAT-MP-T

## High Explosive Anti-Tank Multi-Purpose with Tracer

### SYSTEM CHARACTERISTICS

<b>HEIGHT</b>	39.6 in (1006 mm)
<b>WEIGHT</b>	49.0 lb (22.3 kg)
<b>MUZZLE VELOCITY</b>	3850 ft/s (1173 m/s)
<b>PAYLOAD</b>	2.1 lb (97.0 kg) Comp B
<b>FUZE</b>	M509A1
<b>PACKING CONTAINER*</b>	PA171 (141.0 lb/64.0 kg)

\*30 CONTAINERS PER PALLET

### ADDITIONAL FACTS

#### Target Set:

- Personnel carriers
- Field fortifications
- Helicopters
- Secondary armor defeat

**Effective Range:** 2000 m

**Announced as:** "HEAT"

Improved hit probability



DODIC	NAME	WEAPON
CA38	M1028	120mm Cannon on M1A1/M1A2 Series Abrams Main Battle Tanks

DODIC	NAME	WEAPON
C791	M830A1	120mm Cannon on M1A1/M1A2 Series Abrams Main Battle Tanks

# M908 HE-OR-T

High Explosive Obstacle Reduction with Tracer

## SYSTEM CHARACTERISTICS

<b>HEIGHT</b>	38.7 in (984 mm)
<b>WEIGHT</b>	50.1 lb (22.7 kg)
<b>MUZZLE VELOCITY</b>	4626 ft/s (1410 m/s)
<b>PAYLOAD</b>	Comp A3
<b>FUZE</b>	M774
<b>PACKING CONTAINER*</b>	PA116 (72.1 lb/32.7 kg)

\*30 CONTAINERS PER PALLET

## ADDITIONAL FACTS

### Target Set:

- Concrete obstacles
- Buildings and bunkers
- Light armored vehicles (Secondary Armor Defeat round)

**Effective Range:** 3000 m

**Announced as:** "OR"

Steel nose in place of proximity switch



# M1002 TPMP-T

Target Practice Multi-Purpose with Tracer

## SYSTEM CHARACTERISTICS

<b>HEIGHT</b>	38.5 in (978 mm)
<b>WEIGHT</b>	49.9 lb (22.7 kg)
<b>MUZZLE VELOCITY</b>	4511 ft/s (1375 m/s)
<b>PAYLOAD</b>	Inert
<b>FUZE</b>	None
<b>PACKING CONTAINER*</b>	PA171 (71.0 lb/32.3 kg)

\*30 CONTAINERS PER PALLET

## ADDITIONAL FACTS

### Target Set:

- Training targets (armor, light armor, helicopter)

**Effective Range:** 2500 m

**Announced as:** "MPAT/MPAT AIR"  
Air/ground switch for familiarization training



DODIC	NAME	WEAPON
CA05	M908	120mm Cannon on M1A1/M1A2 Series Abrams Main Battle Tanks

DODIC	NAME	WEAPON
CA31	M1002	120mm Cannon on M1A1/M1A2 Series Abrams Main Battle Tanks

# M830 HEAT-MP-T

High Explosive Anti-Tank Multi-Purpose with Tracer

## SYSTEM CHARACTERISTICS

<b>HEIGHT</b>	38.6 in (981 mm)
<b>WEIGHT</b>	53.4 lb (24.2 kg)
<b>MUZZLE VELOCITY</b>	3740 ft/s (1140 m/s)
<b>PAYLOAD</b>	Comp A3, Type II
<b>FUZE</b>	M764
<b>PACKING CONTAINER*</b>	PA116 (76.4 lb/34.7 kg)

\*30 CONTAINERS PER PALLET

## ADDITIONAL FACTS

### Target Set:

- Anti-armor and antipersonnel capabilities
- Buildings and bunkers
- Light armored vehicles (Secondary Armor Defeat round)

**Effective Range:** 2000 m

**Announced as:** "HEAT"



# M831A1 TP-T

Target Practice with Tracer

## SYSTEM CHARACTERISTICS

<b>HEIGHT</b>	38.6 in (981 mm)
<b>WEIGHT</b>	50.5 lb (22.9 kg)
<b>MUZZLE VELOCITY</b>	3740 ft/s (1140 m/s)
<b>PAYLOAD</b>	Inert
<b>FUZE</b>	None
<b>PACKING CONTAINER*</b>	PA115 (73 lb/33.1 kg)

\*30 CONTAINERS PER PALLET

## ADDITIONAL FACTS

### Target Set:

- Training targets (armor, light armor)

**Effective Range:** 2000 m

**Announced as:** "HEAT"



DODIC	NAME	WEAPON
<b>C787</b>	M830	120mm Cannon on M1A1/M1A2 Series Abrams Main Battle Tanks

DODIC	NAME	WEAPON
<b>C784</b>	M830A1	120mm Cannon on M1A1/M1A2 Series Abrams Main Battle Tanks



# M829A2

## SYSTEM CHARACTERISTICS

<b>HEIGHT</b>	38.7 in (984 mm)
<b>WEIGHT</b>	44.9 lb (20.4 kg)
<b>MUZZLE VELOCITY</b>	5512 ft/s (1680 m/s)
<b>PAYLOAD</b>	Depleted Uranium
<b>FUZE</b>	None
<b>PACKING CONTAINER*</b>	PA116 (66.1 lb/30.0 kg)

\*30 CONTAINERS PER PALLET

## ADDITIONAL FACTS

### Target Set:

- Modern tanks (heavy armor)

**Effective Range:** 4000 m

**Announced as:** "SABOT"

Lightweight composite sabot



# M829A3 APFSDS-T

## Armor Piercing Fin-Stabilized Discarding Sabot with Tracer

## SYSTEM CHARACTERISTICS

<b>HEIGHT</b>	38.7 in (984 mm)
<b>WEIGHT</b>	56.0 lb (25.4 kg)
<b>MUZZLE VELOCITY</b>	5101.7 ft/s (1555 m/s)
<b>PAYLOAD</b>	Depleted Uranium
<b>FUZE</b>	None
<b>PACKING CONTAINER*</b>	PA171 (72.0 lb/33.0 kg)

\*30 CONTAINERS PER PALLET

## ADDITIONAL FACTS

### Target Set:

- Modern tanks (heavy armor)

**Effective Range:** 4000 m

**Announced as:** "SABOT"



DODIC	NAME	WEAPON
<b>C792</b>	M829A2	120mm Cannon on M1A1/M1A2 Series Abrams Main Battle Tanks

DODIC	NAME	WEAPON
<b>CA26</b>	M829A3	120mm Cannon on M1A1/M1A2 Series Abrams Main Battle Tanks

# M865 TPCSDS-T

Target Practice Cone Stabilized Discarding Sabot with Tracer

## SYSTEM CHARACTERISTICS

<b>HEIGHT</b>	34.7 in (881 mm)
<b>WEIGHT</b>	37.5 lb (17 kg)
<b>MUZZLE VELOCITY</b>	5577 ft/s (1700 m/s)
<b>PAYLOAD</b>	Inert
<b>FUZE</b>	None
<b>PACKING CONTAINER*</b>	PA116 (63.2 lb/28.7 kg)

\*30 CONTAINERS PER PALLET

## ADDITIONAL FACTS

Target Set:

- Training targets (heavy armor)

**Effective Range:** 2500 m

**Announced as:** "SABOT"

- Meets 8 km maximum range limitation

Replaced by M865A1



# M829A4 APFSDS-T

Armor Piercing Fin-Stabilized Discarding Sabot with Tracer

## SYSTEM CHARACTERISTICS

<b>HEIGHT</b>	38.7 in (984 mm)
<b>WEIGHT</b>	52.0 lb (23.6 kg)
<b>MUZZLE VELOCITY</b>	5413 ft/s (1650 m/s)
<b>PAYLOAD</b>	Depleted Uranium
<b>FUZE</b>	None
<b>PACKING CONTAINER*</b>	PA171 (73.0 lb/33.2 kg)

\*30 CONTAINERS PER PALLET

## ADDITIONAL FACTS

Target Set:

- Modern tanks (heavy armor)

**Effective Range:** 4000 m

**Announced as:** "SABOT"

Optimized with lightweight composite sabot and advanced penetrator



DODIC	NAME	WEAPON
<b>CA64</b>	M829A4	120mm Cannon on M1A1/M1A2 Series Abrams Main Battle Tanks

DODIC	NAME	WEAPON
<b>C785</b>	M865	120mm Cannon on M1A1/M1A2 Series Abrams Main Battle Tanks

# M1147 HEMP-T/AMP

High-Explosive Multi-Purpose with Tracer/  
Advanced Multi-Purpose

## SYSTEM CHARACTERISTICS

<b>HEIGHT</b>	36.2 in (920 mm)
<b>WEIGHT</b>	60.8 lb (27.6 kg)
<b>MUZZLE VELOCITY</b>	3773 ft/s (1150 m/s)
<b>PAYLOAD</b>	PAX-3 with Tungsten Frag Pack
<b>FUZE</b>	Multi-mode/P/N13071387
<b>PACKING CONTAINER*</b>	PA171 (91.8 lb/41.6 kg)

\*25 CONTAINERS PER PALLET

## ADDITIONAL FACTS

### Target Set:

- Anti-Tank Guided Missile (ATGM) Teams
- Infantry squads and platoons
- Light armored vehicles
- Double reinforced concrete wall breach
- Buildings, bunkers, and obstacles

**Effective Range:** 2000 m

**Announced as:** "AMP" for Point Detonate (PD)  
"AMP DEE" for PD Delay (DLY)  
"AMP AIR" for Airburst (AB)



# M865A1 TPCSDS-T

Target Practice Cone Stabilized Discarding  
Sabot with Tracer

## SYSTEM CHARACTERISTICS

<b>HEIGHT</b>	38.7 in (881 mm)
<b>WEIGHT</b>	42 lb (19 kg)
<b>MUZZLE VELOCITY</b>	5269 ft/s (1606 m/s)
<b>PAYLOAD</b>	Inert
<b>FUZE</b>	None
<b>PACKING CONTAINER*</b>	PA171 (64.0 lb/29.0 kg)

\*30 CONTAINERS PER PALLET

## ADDITIONAL FACTS

### Target Set:

- Training targets (heavy armor)

**Effective Range:** 2500 m

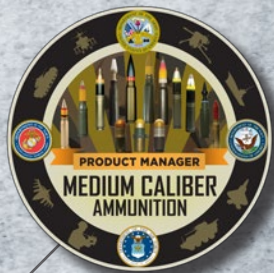
**Announced as:** "SABOT"

M865A1 better emulates the M829 series  
ammo when loading



DODIC	NAME	WEAPON
CA71	M1147	120mm Cannon on M1A1/M1A2 Series Abrams Main Battle Tanks <ul style="list-style-type: none"> <li>• Vehicle Ammunition Data Link (ADL) required to program for DLY and AB</li> <li>• Non-ADL vehicle is PD only (default mode)</li> </ul>

DODIC	NAME	WEAPON
CA69	M865A1	120mm Cannon on M1A1/M1A2 Series Abrams Main Battle Tanks



**ANTICIPATED FIELDING IN 2025**

**MEDIUM CAL — 30X113**

XM950 TP .....	138
XM1198 HEDPSD .....	139
XM1211 HEP .....	140

**MEDIUM CAL — 40MM HV**

M918E2 TP-DNT .....	141
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# Miscellaneous

ANTICIPATED FIELDING IN 2025



DODIC	AMMO ROUND	PAGE
<b>B139</b>	XM950 TP	138
<b>AC55</b>	XM1198 HEDPSD	139
<b>AC61</b>	XM1211 HEP	140
<b>BA67</b>	M918E2 TP-DNT	141

MEDIUM CALIBER — 30x113MM

# XM950 TP

Target Practice

## SYSTEM CHARACTERISTICS

HEIGHT	7.9 in
WEIGHT	345 g
MAX RANGE	4000 m
RATE OF FIRE	200 spm

## ADDITIONAL FACTS

- Low cost practice cartridge ballistically matched to XM1198
- Percussion primed
- Packed in linked belts, 72 cartridges per M592 container



MEDIUM CALIBER — 30x113MM

# XM1198 HEDPSD

High Explosive Dual Purpose Self-Destruct

## SYSTEM CHARACTERISTICS

HEIGHT	7.9 in
WEIGHT	348 g
MAX RANGE	4000 m
RATE OF FIRE	200 spm

## ADDITIONAL FACTS

- High Explosive Dual Purpose warhead with shaped charge provides anti-personnel and anti-materiel capabilities
- Self-destruct feature reduces collateral damage when engaging aerial targets
- Uses M759 Point Initiating Base Detonating Fuze (PIBD)
- Percussion primed
- Packed in linked belts, 72 cartridges per M592 container



DODIC	NAME	WEAPON
B139	XM950	XM914 on MLIDS, MADIS, and SGT Stout ground vehicles

DODIC	NAME	WEAPON
AC55	XM1198	XM914 on MLIDS, MADIS, and SGT Stout ground vehicles

ANTICIPATED FIELDING IN 2025

ANTICIPATED FIELDING IN 2025

MEDIUM CALIBER — 30x113MM

# XM1211 HEP

High Explosive Proximity

## SYSTEM CHARACTERISTICS

HEIGHT	7.9 in
WEIGHT	338 g
MAX RANGE	2300 m
RATE OF FIRE	200 spm

## ADDITIONAL FACTS

- Proximity fuzed cartridge provides enhanced capability against UAS and personnel
- Uses M759 Safe and Arm (S&A) device combined with proximity sensor to detect nearby targets and detonate without need for direct impact
- Electronic self-destruct feature causes projectile to explode at predetermined time after firing to reduce collateral damage
- Percussion primed
- Packed in linked belts, 72 cartridges per M592 container



MEDIUM CALIBER — 40MM HV

# M918E2 TP-DNT

Target Practice Day/Night/Thermal

## SYSTEM CHARACTERISTICS

HEIGHT	4.4 in
WEIGHT	344 g
MAX RANGE	2200 m
RATE OF FIRE	350 spm

## ADDITIONAL FACTS

- Target practice cartridge designed to simulate M430A1 HEDP in appearance and ballistics; replaces M918 TP
- Non-dud-producing; eliminates unexploded ordnance (UXO) risk
- Produces day, night, and thermal signature upon impact with target
- Signature can be seen day or night by unaided eye, and through current and future thermal and night vision sights
- Packed into PA120 cans (32 linked rounds)



DODIC	NAME	WEAPON
AC61	XM1211	XM914 on MLIDS and MADIS ground vehicles

DODIC	NAME	WEAPON
BA67	M918E2 TP-DNT	MK19 Model 3 Grenade MG

# Warfighter Ammunition Information Program

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Provides Ammunition Capabilities, Information  
Briefings and Support to the Warfighter

Subjects Include Direct Fire Small, Medium and Large  
Caliber Ammunition 5.56mm through 120mm

Access the digital version of this handbook at:

[https://jpeoaa.army.mil/Project-Offices/PM-MAS/  
Products/](https://jpeoaa.army.mil/Project-Offices/PM-MAS/Products/)

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**PROJECT MANAGER  
MANEUVER AMMUNITION SYSTEMS**

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