

Best in Quality & Flexibility

AMMUNITION & EXPLOSIVES



PONGSAN

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POONGSAN CORPORATION

Export Team, Keukdong Bldg 60-1, 3ga, Chungmu-ro, Chung-gu, Seoul, Korea Tel : 82-2-3406-5114 Fax : 82-2-3406-5400
Direct(working hours) Tel : 82-2-3406-5281~3 Fax : 82-2-3406-5415 Web-site : www.poongsan.co.kr

An All-Round Ammunition Manufacturer based upon the robust non-ferrous metal engineering of copper and its alloy products since the establishment of the Corporation in 1968, Poongsan has grown into one of the world's largest manufacturers and suppliers.

We produce almost all kinds of ammunition and their components currently used in the military and the sporting for both domestic and overseas, ranging from small arms ammunition to those ammunition for medium & large calibre weapon systems from a couple of major large-scaled defense industrial plants exporting to more than 50 foreign countries with 2200 employees in area of 2200km² in support of many other defense-aligned cooperative firms.

Since the early '70's with the Korean Government's designation as a general ammunition manufacturer, we have fully contributed not only to fulfill the self-reliant national defense but also to quench needs from numerous foreign customers thus being known as a global supplier of our world-famous expertise in this field.

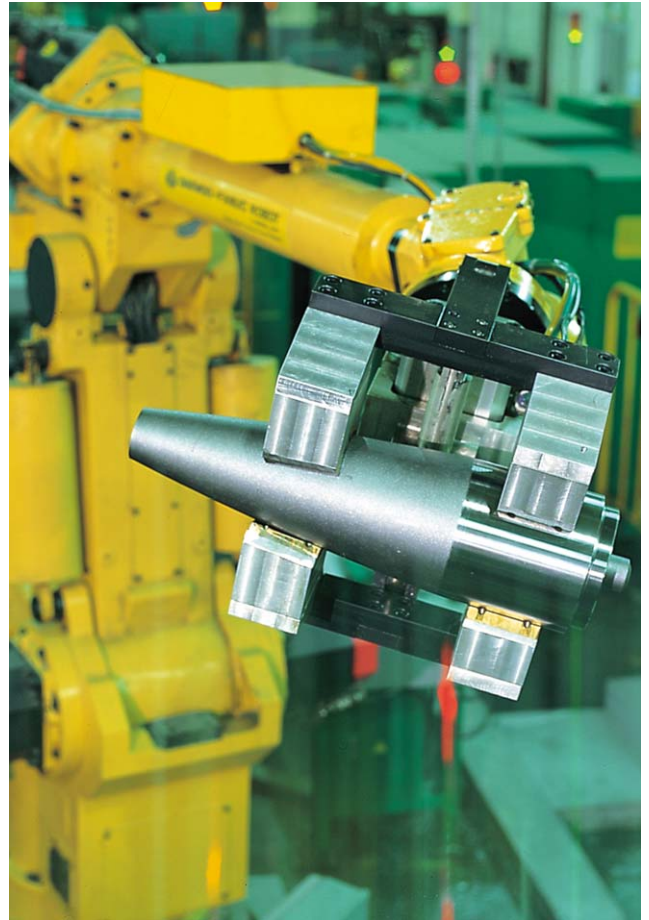
Poongsan also puts the constant concerns and efforts to create products of quality from raw material, components to final products launching our own rigorous quality control system along with the strict quality assurance by Government authority and globally - approved system of ISO.



ISO 9001 ISO 14001

We - Poongsan - are determined to devote ourselves to research and develop the most advanced conceptual ammunitions through R&D Laboratory for munition technology by exploiting all the accumulation through our history.

And proudly will we continue to pursue our mission and contributions for the defense of country and the promotion of Peace among international communities.



Robotic CNC lathing for Warhead of 155mm RAP



Automated Packaging System



Production line for Propellants

PROJECTILE 155MM

HE M107



■ Components

Projectile	Carbon Steel
Filler	TNT
Fuse	PD M557, MTSQ M564
Primer	Percussion MK2A4, M82
Propelling Charge	M3A1, M4A2, M119A1, K677

■ Technical Data

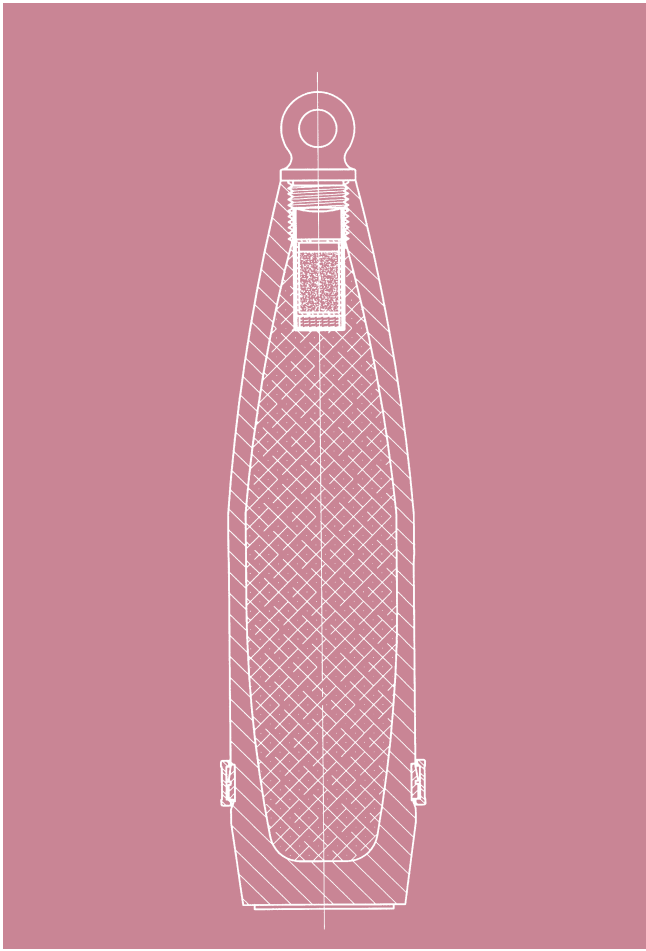
Weight (kg)	41.86	
Length (mm)	684(w/Lifting Plug)	
Muzzle Velocity(mps)	563(M4A2),684(M119A1)	
Maximum Range(m)	M114A2	14,600(M4A2)
	K55	18,100(M119A1)
	KH179	18,100(M119A1)
	K9	18,800(K677, 4chg)

■ Weapon

M114A1/A2, KH179, K55, K9, M198, M109, M109A1/A2/A3

■ Packing

Packed with Wooden Pallet



PROJECTILE 155MM

HE-RAP M549A1



■ Components

Projectile	Alloy Steel
Filler	TNT
Fuse	PD M557, MTSQ M564
Primer	Percussion M82, MK2A4
Propelling Charge	M4A2, M119A1, M203, K677

■ Technical Data

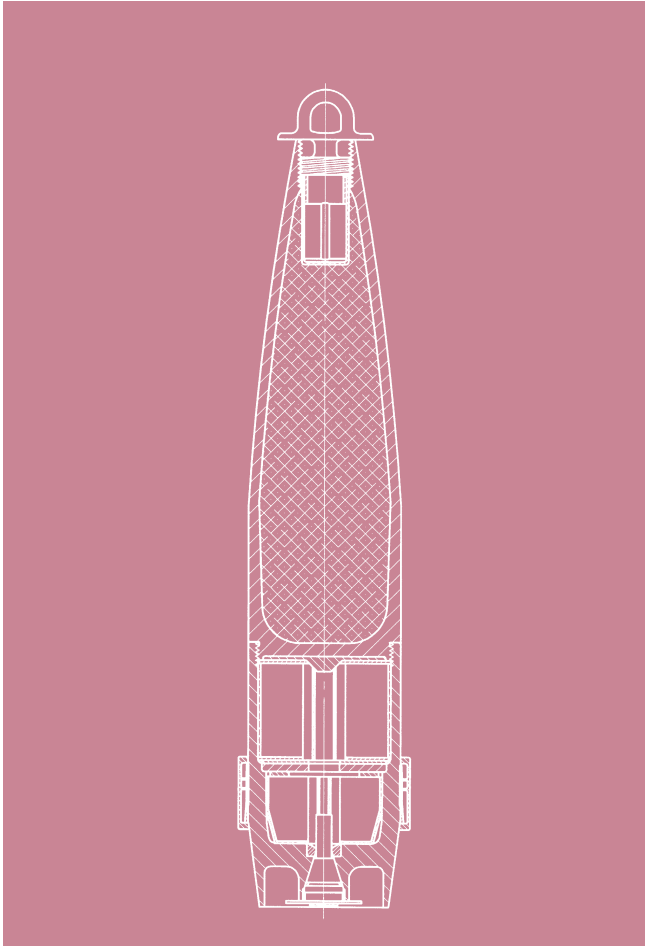
Weight (kg)	43.54(w/Fuse)	
Length (mm)	838.2(w/Lifting Plug)	
Muzzle Velocity(mps)	826	
Maximum Range(m)	K55	23,500(M119A1)
	KH179	30.1Km(KM203)

■ Weapon

M114A2, KH179, K55, K9, M198, M109A2/A3

■ Packing

Packed with Wooden Pallet



PROJECTILE 155MM

Base Bleed HE, K307



■ General

Base Bleed HE, already deployed in the field, is a 155mm long-range high explosive developed by Poongsan with its up-to-date design and precision forging technology.

■ Technical Data

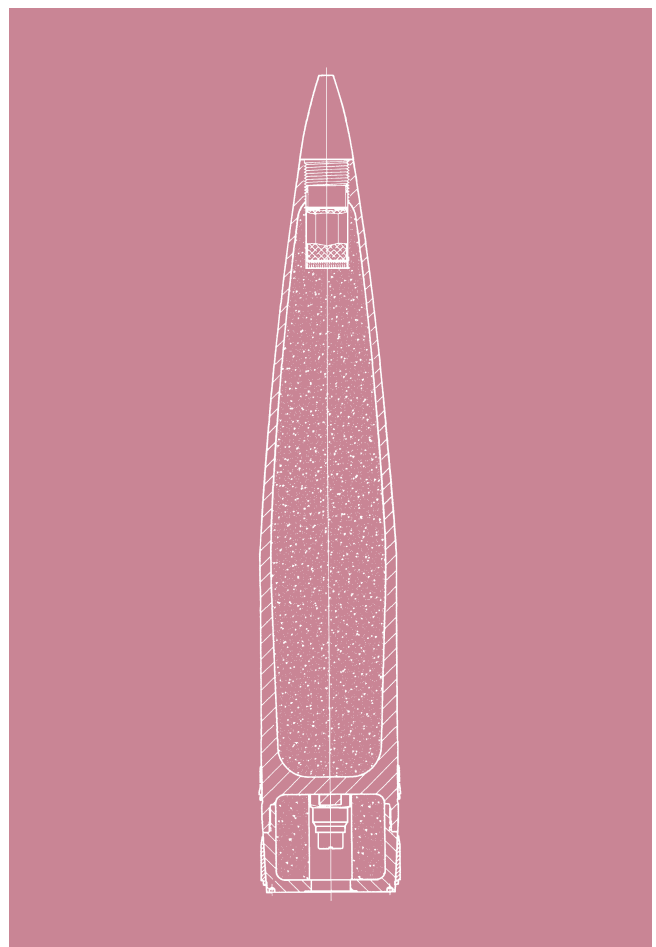
Weight(kg)	46.4	
Length(mm)	945(W / Fuse)	
Filler	TNT	
Fuse	PD K519	
Primer	Percussion M82	
Chamber Pressure(psi)	53,800 Max.	
Muzzle Velocity(mps)	928	
Maximum Range(m)	K9	41,000(K676)

■ Weapon

K9

■ Packing

Packed with Wooden Pallet



PROJECTILE 8"

HE M106



■ Components

Projectile	Carbon Steel
Filler	TNT
Fuse	PD M557, MTSQ M564
Primer	Percussion M82, MK2A4
Propelling Charge	M1, M2

■ Technical Data

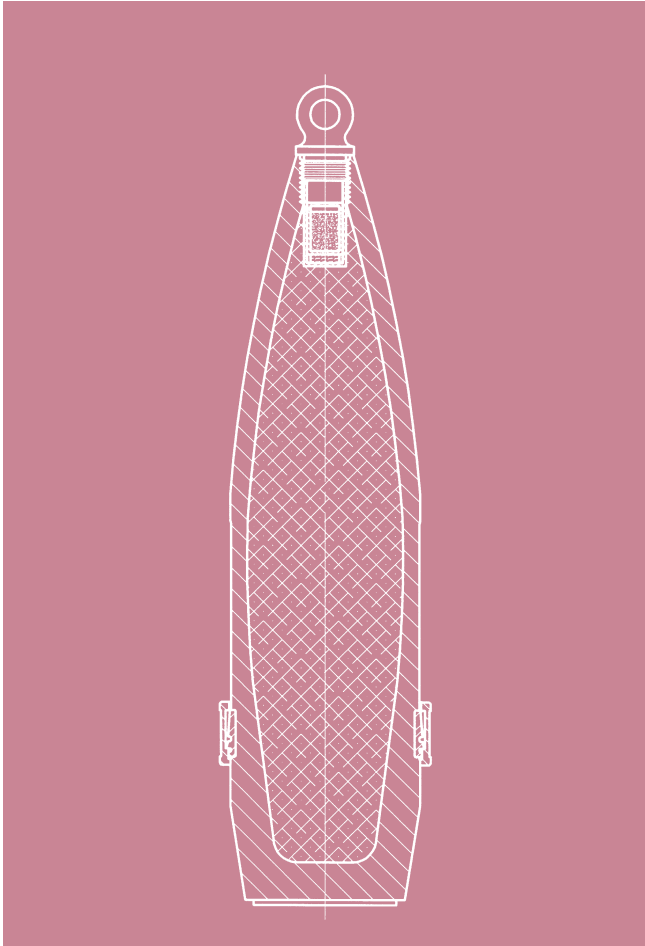
Weight (kg)	89.7
Length (mm)	875.6(w/Lifting Plug)
Muzzle Velocity(mps)	594
Maximum Range(m)	16,800

■ Weapon

M115, M110, M55

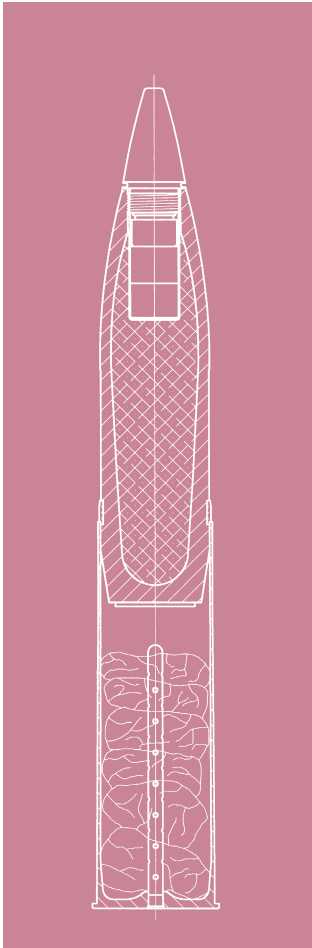
■ Packing

Packed with Wooden Pallet



CARTRIDGE 105MM

HE M1
ILLUMINATING K275
BLANK M395



■ Components

Projectile	Carbon Steel	
	M1	Comp-B, TNT
Filler	K275	Illuminating
	M395	Black Powder
Fuse	M1	PD M557
	K275	MTSQ M565, M577A1
Case	M1, K275	Brass M14
	M395	Brass M15
Primer	M28A2(M1, K275), M1A2(M395)	
Propellant	M67(M1, K275), Black Powder(M395)	

■ Technical Data

Weight (kg)	M1(w/Fuse)	19.5
	K275	20
	M395	2.83
Length (mm)	M1	789(w/Fuse)
	K275	817(w/Fuse)
	M395	153
Muzzle Velocity(mps)	494	
Illuminating Time(sec.)	55(K275)	
Candle Power(lux)	590,000(K275)	
Sound Level(db)	117(M395)	
Maximum Range(m)	11,270	

■ Weapon

M101/A1, M102, M52/M52A1, M108

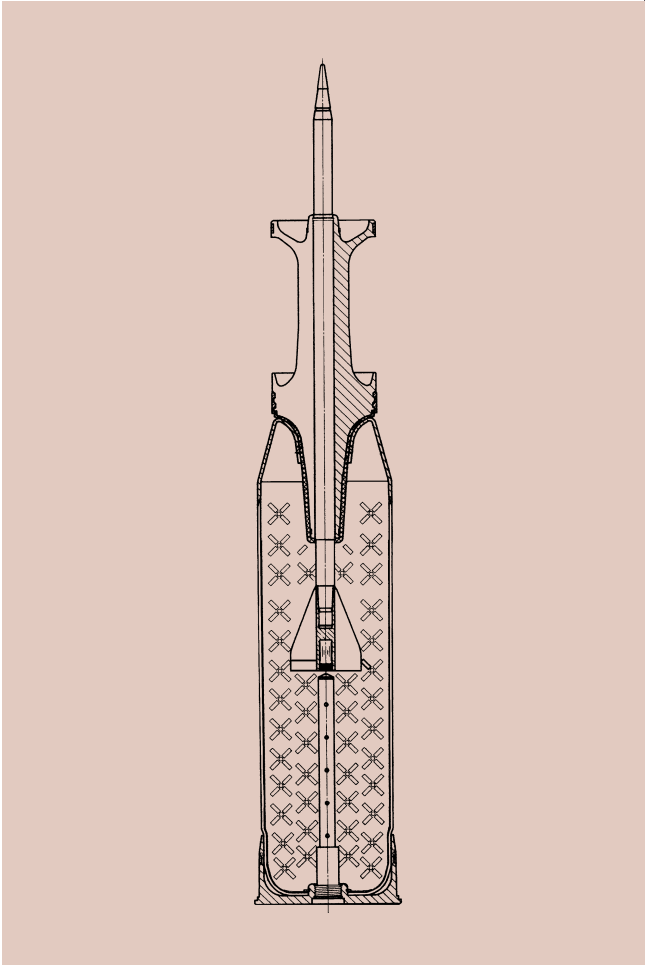
■ Packing

Packed with Fibre Container and Wooden Box



CARTRIDGE 120MM

APFSDS-T, K276



■ General

Newer concept-based ammunition for 120mm smoothbore gun with up-to-date kinetic energy

■ Components

Penetrator	Heavy alloy of Tungsten
Case	Combustible cartridge case
Primer	Electric(K611)
Propellant	Triple Base, Hexagonal(K683)

■ Technical Data

Weight (kg)	19.7
Length (mm)	973
Weight of Projectile(kg)	7.35
Chamber Pressure(psi)	85,000 Max.
Muzzle Velocity(mps)	1,700

■ Weapon

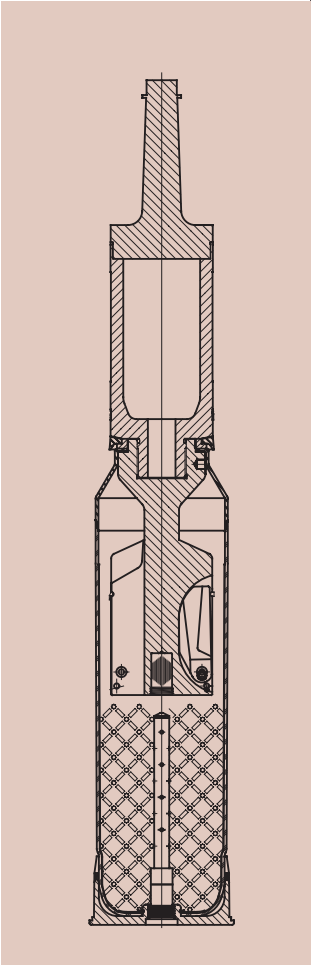
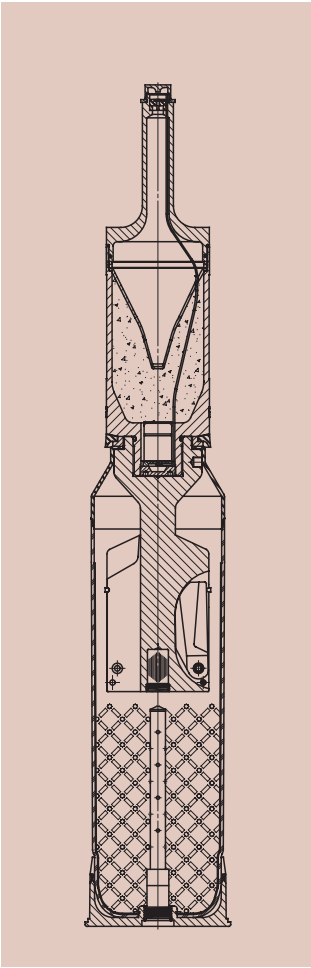
Cannon M256

■ Packing

Packed with Metal Container and Wooden Box

CARTRIDGE 120MM

HEAT-MP-T, K277
TP-T, K282



■ Components

Filler(HEAT-MP-T)	Comp-B
Fuse(HEAT-MP-T)	PIBD M509A2
Case	Combustible cartridge case
Primer	Electric(K611)
Propellant	Triple-Base, Hexagonal(K682)

■ Technical Data

Weight (kg)	24.5
Length (mm)	989
Weight of Projectile(kg)	14.3
Chamber Pressure(psi)	65,000 Max.
Muzzle Velocity(mps)	1,130

■ Weapon

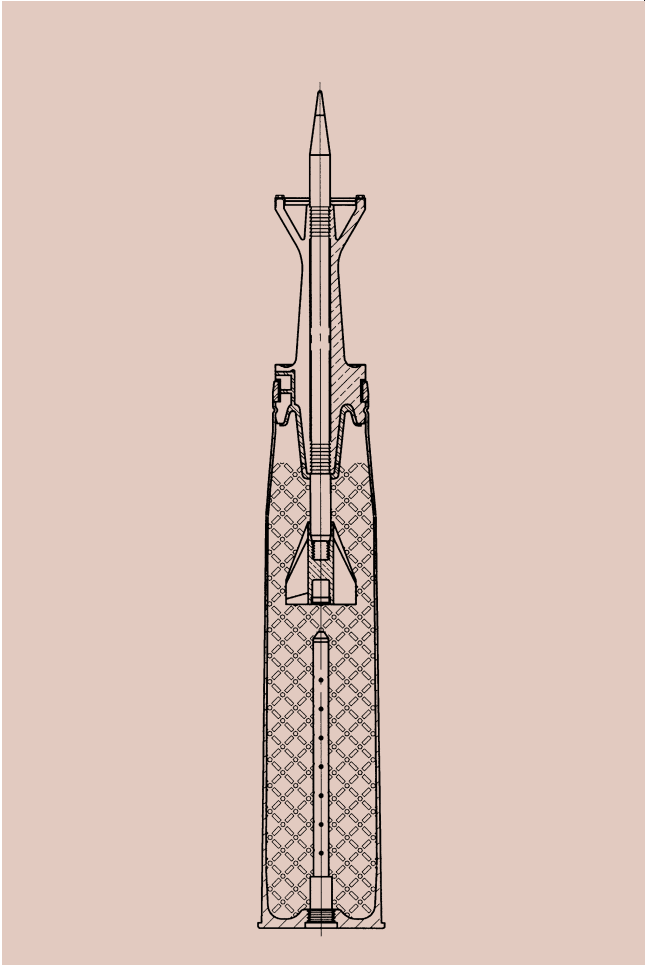
Cannon M256

■ Packing

Packed with Metal Container and Wooden Box

CARTRIDGE 105MM

APFSDS-T K274



■ General

High velocity, flat trajectory and discarding sabot round with up-to-date penetrator against armoured targets.

■ Technical Data

Weight (kg)	18.7
Length (mm)	1,001.7
Propellant	Triple Base, Hexagonal(M30)
Primer	Electric M120A1
Case	M148E4(Brass)
Effective Range(m)	3,000
Muzzle Velocity(mps)	1,495

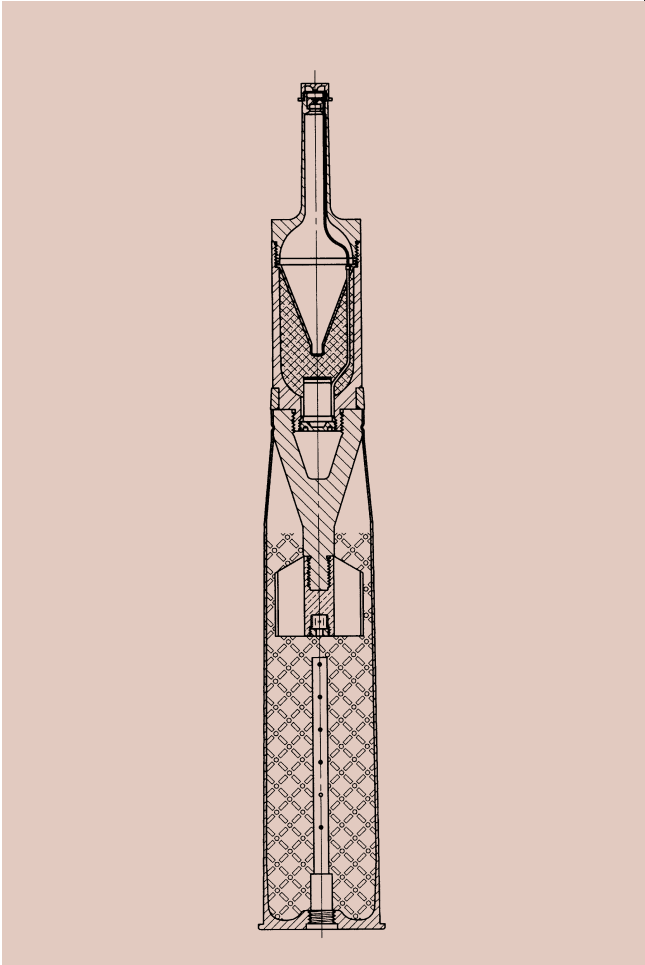
■ Weapon

Cannon M68

■ Packing

Packed with Fibre Container and Wooden Box

CARTRIDGE 105MM
HEAT-T M456A1
TP-T M490



■ Components

Projectile	Alloy Steel
Filler	Comp-B(M456A1)
Fuse	PIBD M509A2(M456A1)
Case	Brass M148E4
Primer	Electronic M83
Propellant	M30
Tracer	M13

■ Technical Data

Weight (kg)	M456A1	21.8
	M490	20.41
Length (mm)	M456A1	990.08
	M490	999.28
Muzzle Velocity(mps)	1,173	
Maximum Range(m)	8,200	

■ Weapon

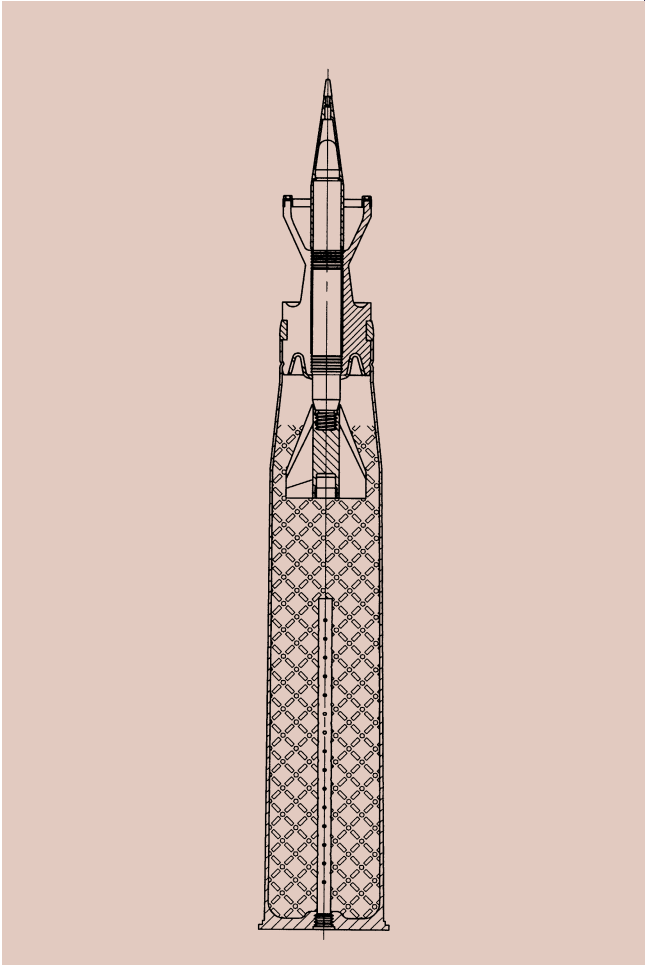
Cannon M68

■ Packing

Packed with Fibre Container and Wooden Box

CARTRIDGE 90MM

APFSDS-T K241



■ Components

Projectile	Sub-Projectile	Steel Nickel Body to House Tungsten Core
	Aluminum Sabot	
Case	Steel M108B1	
Primer	Percussion M79	
Propellant	M30	
Tracer	M13	

■ Technical Data

Weight (kg)	13.6
Length (mm)	897.9
Length of Projectile(mm)	434
Chamber Pressure(psi)	56,300Max.
Muzzle Velocity(mps)	1,332
Tracer Burning Time(sec.)	2.0
Effective Range(m)	2,500

■ Weapon

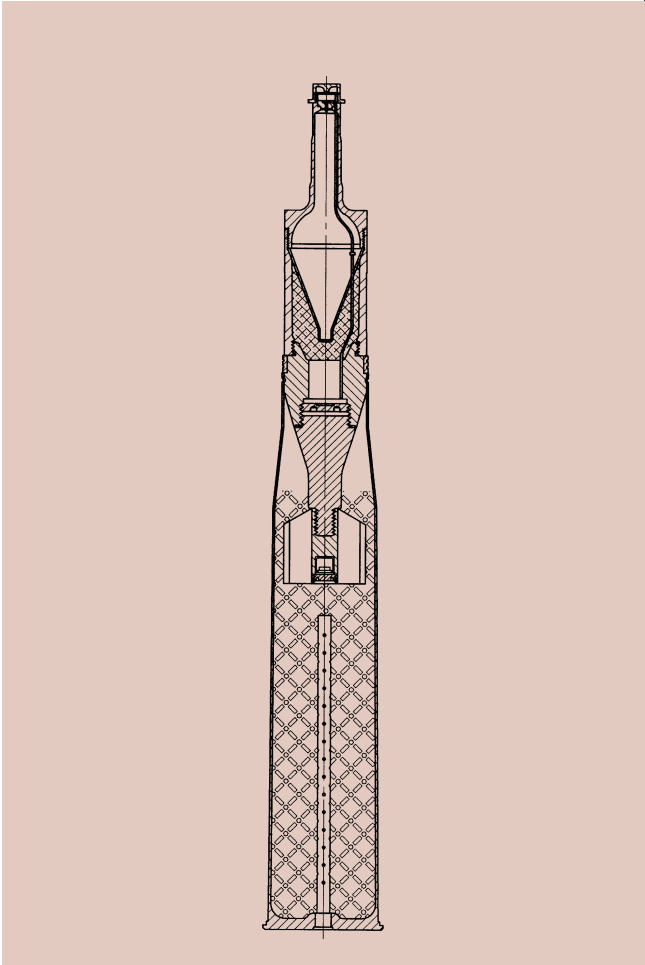
Cannon M36, M41, M54

■ Packing

Packed with Fibre Container and Wooden Box

CARTRIDGE 90MM

HEAT-T M431A2



■ Components

Projectile	Alloy Steel
Filler	Comp-B
Fuse	PIBD M509A2
Case	Brass M19A
Primer	Percussion M79
Tracer	M13
Propellant	M30

■ Technical Data

Weight (kg)	14.97
Length (mm)	914.7
Muzzle Velocity(mps)	1,204
Maximum Range(m)	8,100

■ Weapon

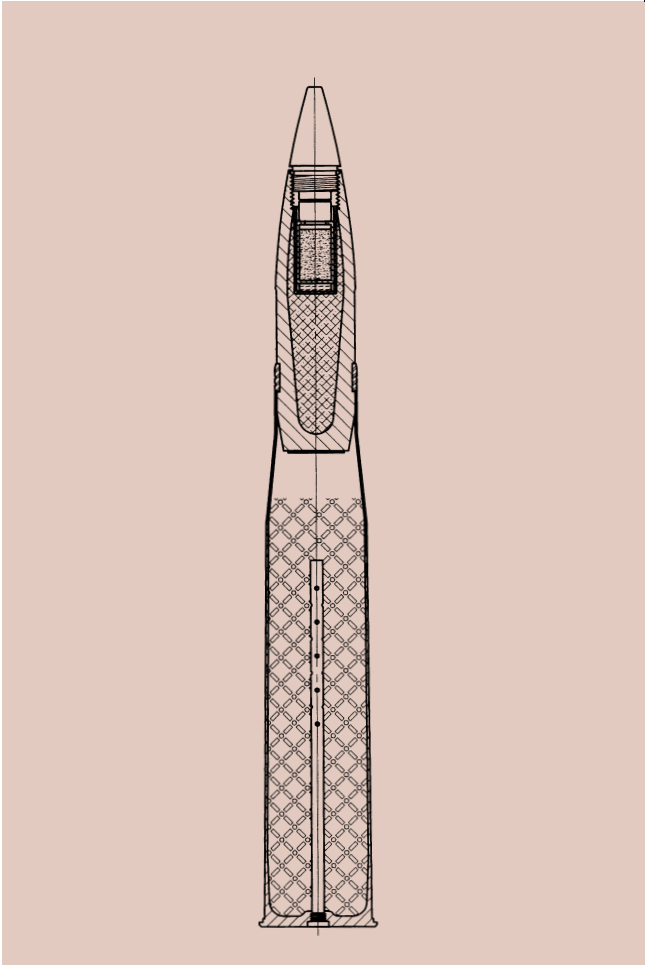
Cannon M36, M41, M54

■ Packing

Packed with Fibre Container and Wooden Box

CARTRIDGE 90MM

HE M71
TP-T M353A2



■ Components

Projectile	Carbon Steel	
Filler	M71	Comp-B
	M353A2	Dummy
Fuse	PD M557	
Case	M71	Brass M19
	M353A2	Brass KM19A
Primer	M71	Percussion M49
	M353A2	Percussion M58
Propellant	M71	M15
	M353A2	M30

■ Technical Data

Weight (kg)	M71	18.79
	M353A2	19.92
Length (mm)	M71	951.48(w/Fuse)
	M353A2	942.6
Muzzle Velocity(mps)	M71	823
	M353A2	914.4
Maximum Range(m)	M71	17,800
	M353A2	21,000

■ Weapon

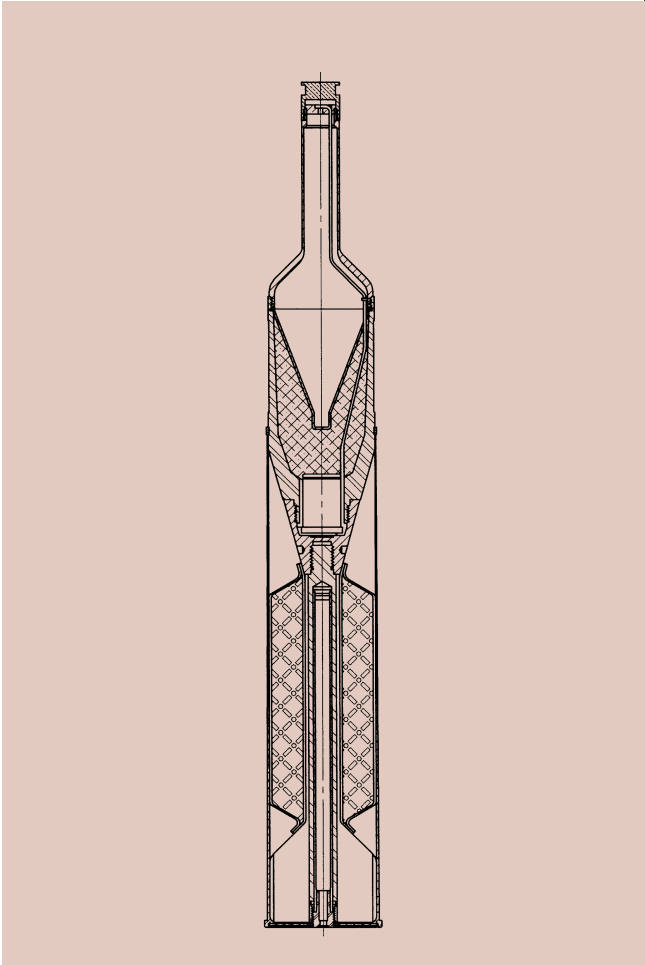
Cannon M36, M41, M54

■ Packing

Packed with Fibre Container and Wooden Box

CARTRIDGE 90MM

HEAT M371A1



■ Components

Projectile	Aluminum
Filler	Comp-B
Fuse	PIBD M530A1
Case	Aluminum M112
Primer	Percussion M92E1
Propellant	M82

■ Technical Data

Weight (kg)	4.1
Length (mm)	714
Muzzle Velocity(mps)	213
Effective Range(m)	400

■ Weapon

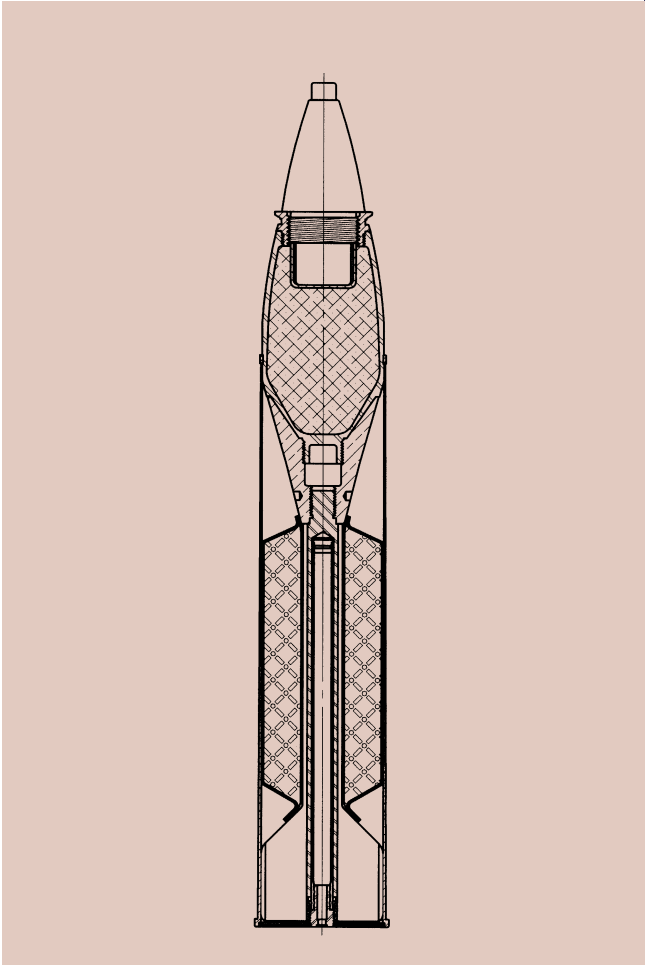
Recoilless Rifle M67

■ Packing

Packed with Fibre Container and Wooden Box

CARTRIDGE 90MM

HE K242



■ Components

Projectile	Alloy Steel
Filler	TNT
Fuse	PD K512
Case	Aluminum M112
Primer	Percussion M92E1
Propellant	M82

■ Technical Data

Weight (kg)	4.6
Length (mm)	624
Muzzle Velocity(mps)	204.5
Effective Range(m)	400

■ Weapon

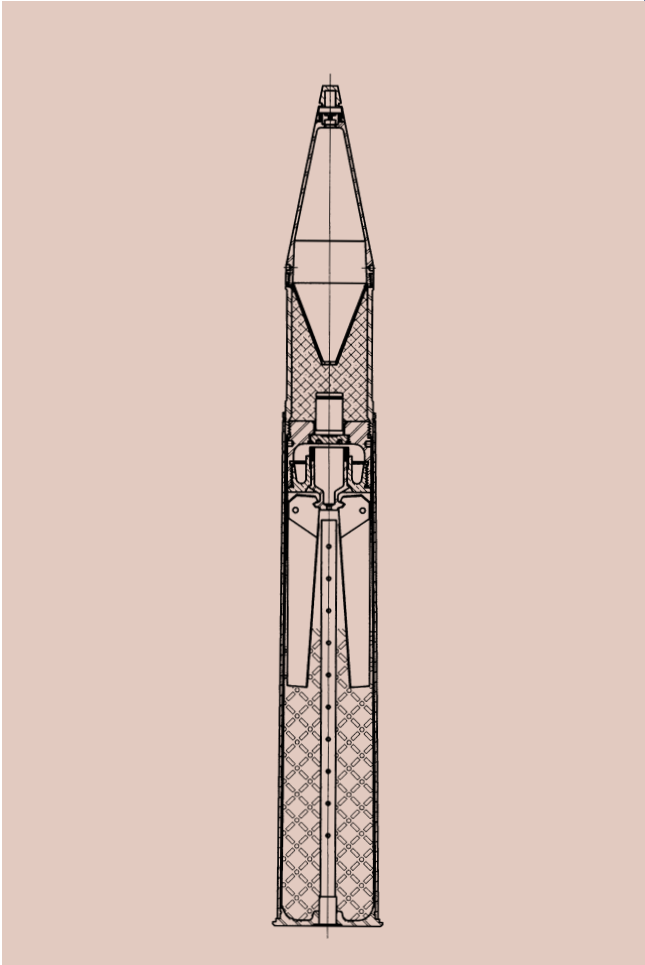
Recoilless Rifle M67

■ Packing

Packed with Fibre Container and Wooden Box

CARTRIDGE 106MM

HEAT M344A1



■ Components

Projectile	Carbon Steel
Filler	Comp-B
Fuse	PIBD M509A2
Case	Steel M94B1
Primer	Percussion M57
Propellant	M26

■ Technical Data

Weight (kg)	16.42
Length (mm)	998
Muzzle Velocity(mps)	503
Maximum Range(m)	3,017

■ Weapon

Recoilless Rifle M40A1

■ Packing

Packed with Fibre Container and Wooden Box

CARTRIDGE 60MM

HE K207



■ Components

Projectile	Alloy Steel
Filler	Comp-B
Fuse	PD K510, MP K584
Igniter	K1
Propelling Charge	K672

■ Technical Data

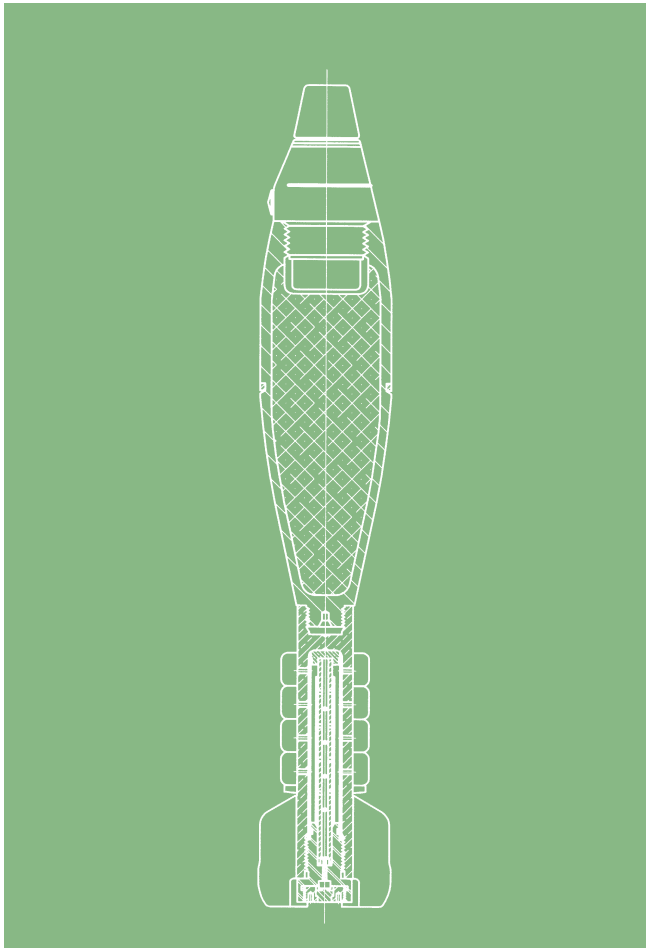
Weight (kg)	1.77
Length (mm)	373.6(w/Fuse)
Muzzle Velocity(mps)	241
Maximum Range(m)	3,590

■ Weapon

M19, M181, M224

■ Packing

Packed with Fibre Container and Wooden Box



CARTRIDGE 81MM

HE K247



■ Components

Projectile	Alloy Steel
Filler	Comp-B
Fuse	PD K516, MP K589
Igniter	K2
Fin Assembly	K5
Propelling Charge	K675

■ Technical Data

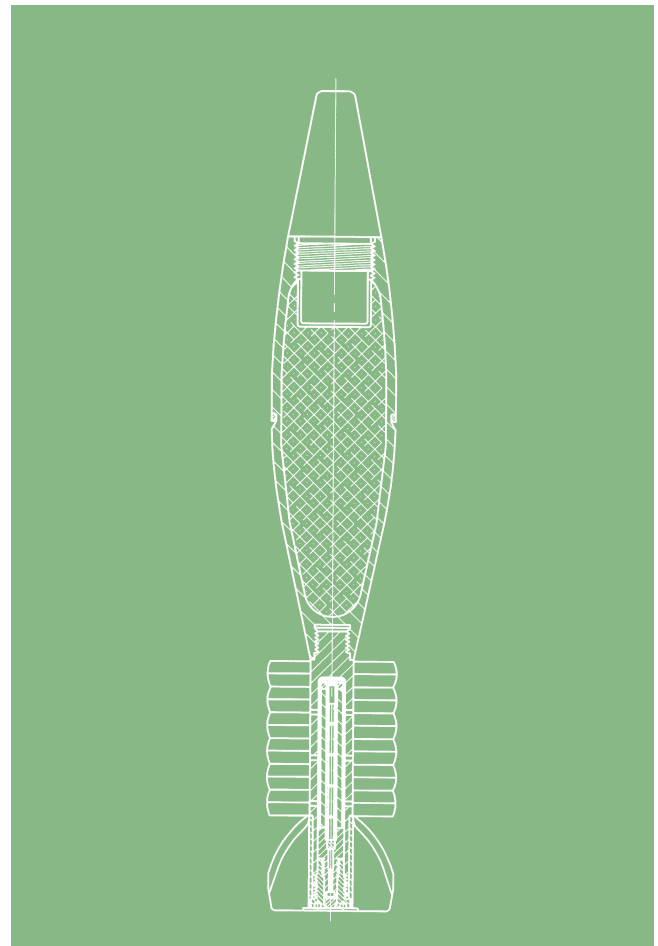
Weight (kg)	4.35
Length (mm)	532.5(w/Fuse)
Muzzle Velocity(mps)	320
Maximum Range(m)	6,350

■ Weapon

M29, M29A1, K187

■ Packing

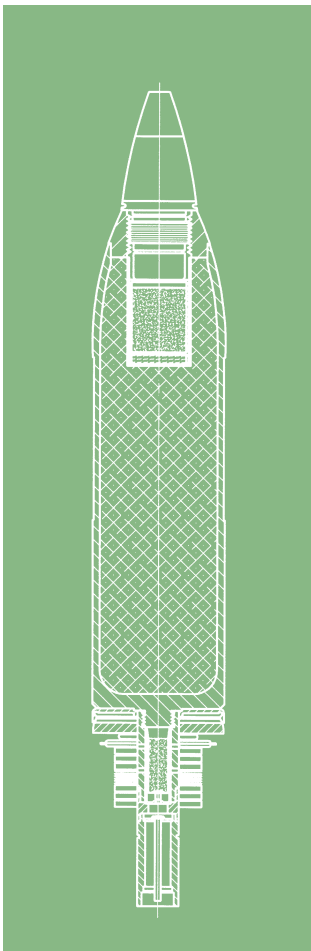
Packed with Fibre Container and Wooden Box



CARTRIDGE 4.2"

HE M329A1

HE M329A2



■ Components

Projectile	Carbon Steel	
Filler	M329A1	TNT
	M329A2	Comp-B
Fuse	Point Detonator, M557	
Propelling Charge	M36A1(M329A1), M36A2(M329A2)	
Igniter	M2A2	

■ Technical Data

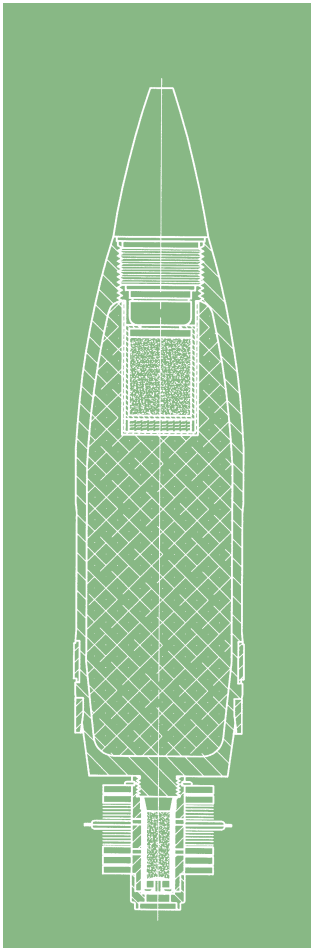
Weight (kg)	M329A1	12.28
	M329A2	9.98
Length (mm)	M329A1	655(w/Fuse)
	M329A2	514.4(w/Fuse)
Muzzle Velocity(mps)	M329A1	299
	M329A2	308
Maximum Range(m)	M329A1	5,650
	M329A2	6,600

■ Weapon

M2, M30

■ Packing

Packed with Fibre Container and Wooden Box



CARTRIDGE 4.2"

ILLUMINATING M335A2



■ Components

Projectile	Carbon Steel
Filler	Illuminating
Fuse	Mechanical Time M565
Propelling Charge	M36A1
Igniter	M2A2

■ Technical Data

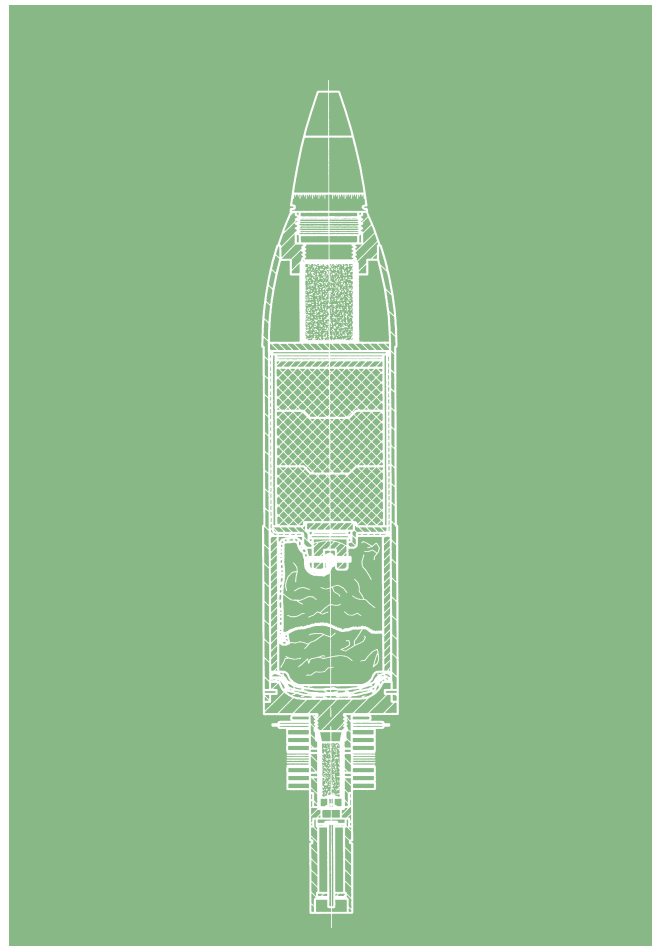
Weight (kg)	11.79
Length (mm)	652.7(w/Fuse)
Muzzle Velocity(mps)	305
Illuminating Time(sec.)	60
Candle Power(lux)	850,000
Maximum Range(m)	5,490

■ Weapon

M2, M30

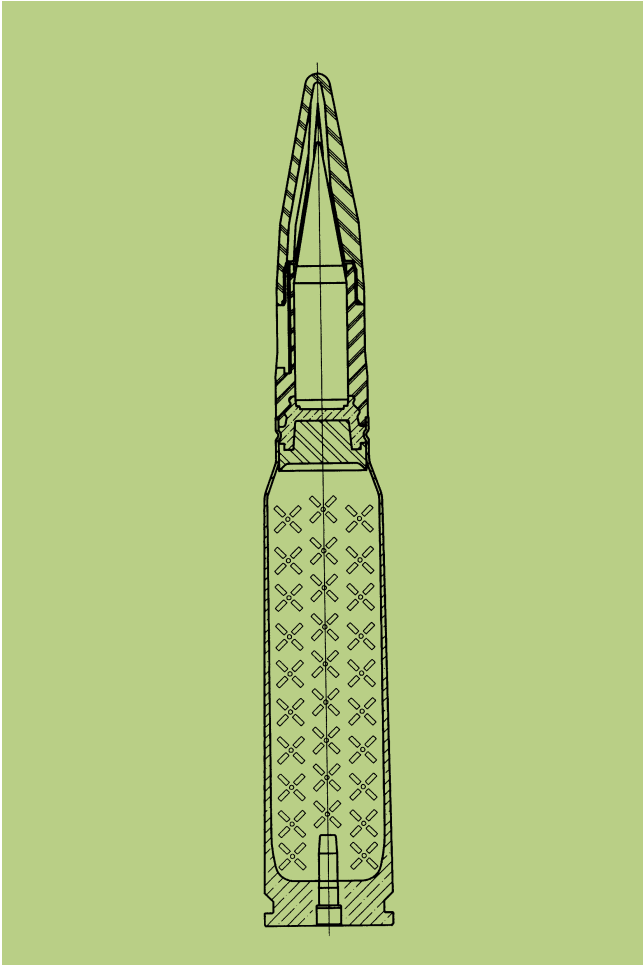
■ Packing

Packed with Fibre Container and Wooden Box



CARTRIDGE 30MM (Goal Keeper)

MPDS K164
FMPDS K165



■ General

Newly conceptualized piercing and frangible ammunition made of prefragmented tungsten balls, effective against aerial targets including missiles as well as surface targets for close-in defense of ships

■ Components

Projectile	Heavy alloy of Tungsten
Case	Aluminum alloy
Propellant	K681
Primer	Percussion, M36A2

■ Technical Data

Weight (g)	Approx. 625
Length (mm)	290 Max.
Weight of Projectile(g)	Approx. 314
Chamber Pressure(psi)	64,525 Max.
Firing Rate	4,200rpm
Muzzle Velocity(mps)	1,150 Min.
Maximum Range(m)	12,000

■ Weapon

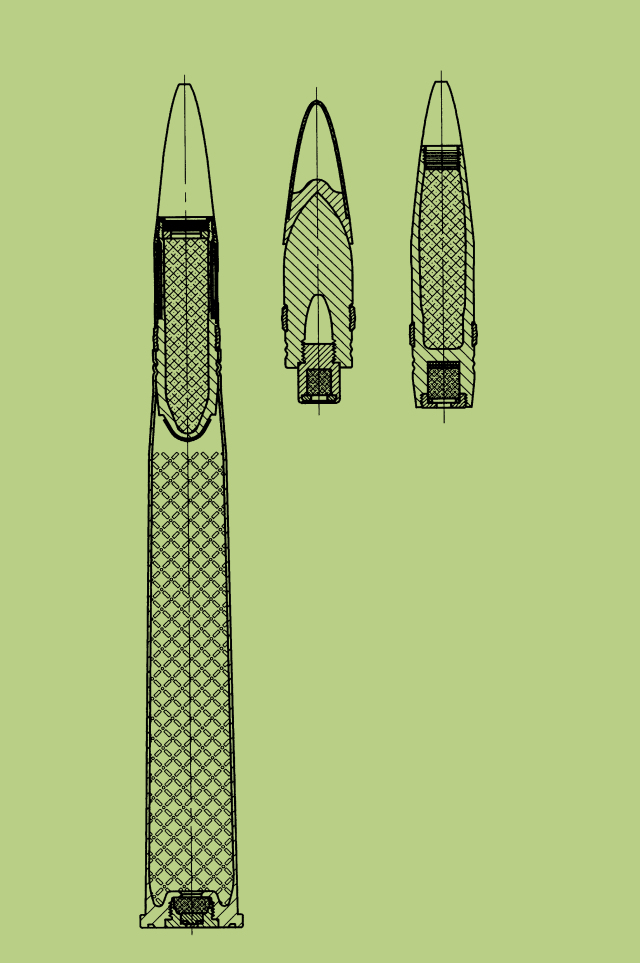
GAU 8/A Gatling gun

■ Packing

Packed with Metal Box

CARTRIDGE 40MM L / 70

- HEI-T K216
- TP-T K217
- PFHE K218
- AP-T K219



■ Components

Projectile	K216, K217	Carbon Steel
	K218, K219	Alloy Steel
Filler	K216	Hexal W30A
	K218	Comp-A3
Fuse	K216	LI 472 (SD, PD)
	K218	K585(Proximity & SD)
Case	Brass K7	
Primer	Percussion, M/39SX	
Propellant	NC1066(219 : NC873)	

■ Technical Data

Weight (g)	K216, K217, K219	2,500
	K218	2,400
Length (mm)	K216, K217, K218	534.4 Max.
	K219	502.5 Max.
Pressure(psi)	53,100	
Muzzle Velocity(mps)	K216, K217	1,005 ± 15
	K218	1,025 ± 15
	K219	1,010 ± 15
Muzzle Safety(m)	K216	55
	K218	50
Tracer Burning Time(sec.)	K216, K217	4.0 Min.
	K219	3.0 Min.
Self-destruction Time(sec.)	K216	7-17
	K218	7-10
Maximum Range(m)	12,000	

■ Weapon

Bofors 40mm L/70 Automatic Anti-Aircraft Gun, Breda 40mm Anti-Aircraft Gun

■ Packing

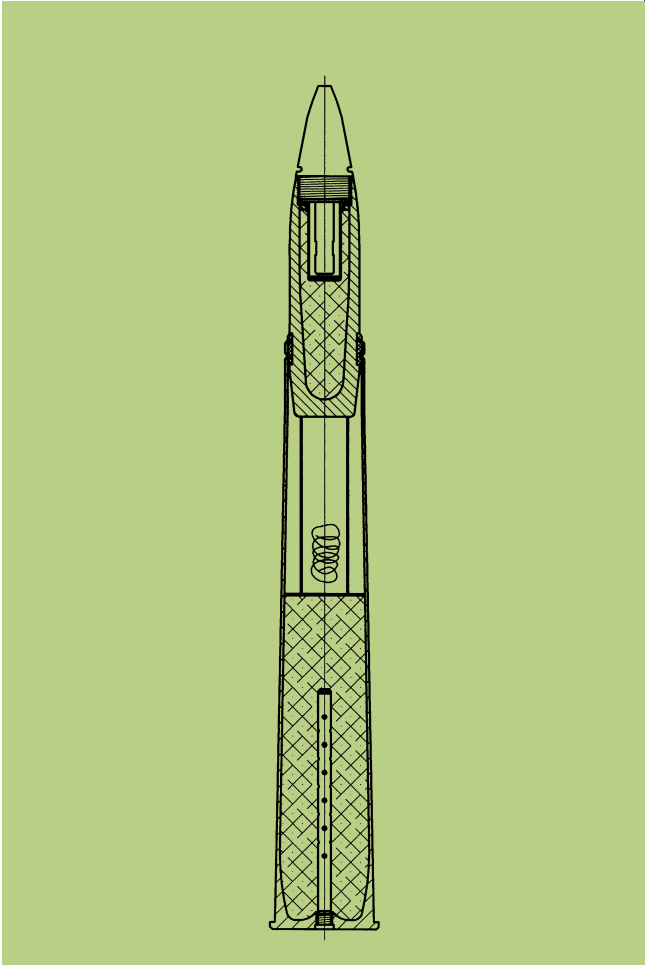
Packed with Clip and Metal Box

CARTRIDGE 76MM/62CAL.

HE K243

HE-VT K244

TP K245



■ Components

Projectile	Alloy Steel	
Filler	K243, K244	Comp-A3
	K245	Inert
Fuse	K243	Point Detonator K508
	K244	VT K586(Proximity Fuse)
Case	Brass K6	
Primer	Percussion K609	
Propellant	M6+2	

■ Technical Data

Weight (kg)	12.4	
Length (mm)	909	
Pressure(psi)	45,700 – 51,000	
Muzzle Velocity(mps)	910	
Maximum Range(m)	Horizontal	16,300
	Vertical(85°)	11,100

■ Weapon

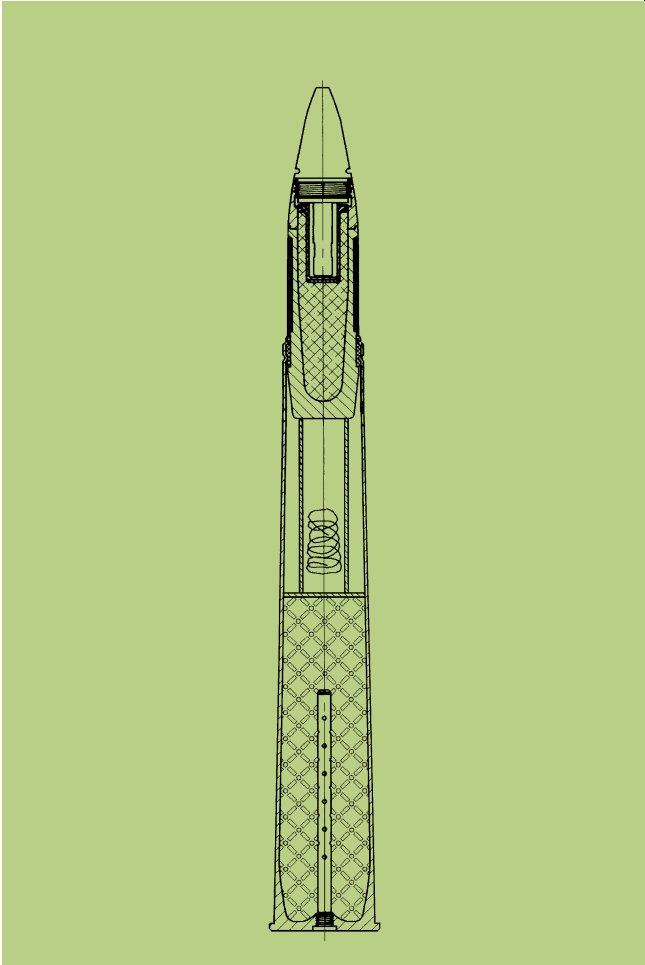
76MM L/62 Cal. Automatic Naval Gun

■ Packing

Packed with Clip and Metal Box

CARTRIDGE 76MM L / 62

PFF-HE, K246



■ Components

Filler	Comp-A3(Pre-Formed Fragments)
Fuze	VT K586
Case	Brass K6
Primer	Percussion(K609)
Propellant	KM6+2

■ Technical Data

Weight (kg)	12.4
Length (mm)	909
Pressure(psi)	45,700 – 51,000
Muzzle Velocity(mps)	910
Maximum Range(m)	16,300

■ Weapon

76mm L/62Cal. Automatic Naval Gun

■ Packing

Packed with Clip and Metal Box

CARTRIDGE 20×103MM

HEIT-SD M246

HEI M56A3

TP-T M220

TP M55A2

STP K159



■ Components

Projectile	Carbon Steel
Filler	H-761
Fuse	M505A3
Case	Brass 70/30 M103
Primer	Electric M52A3B1
Propellant	Double Base
Link	M12, M14A2

■ Technical Data

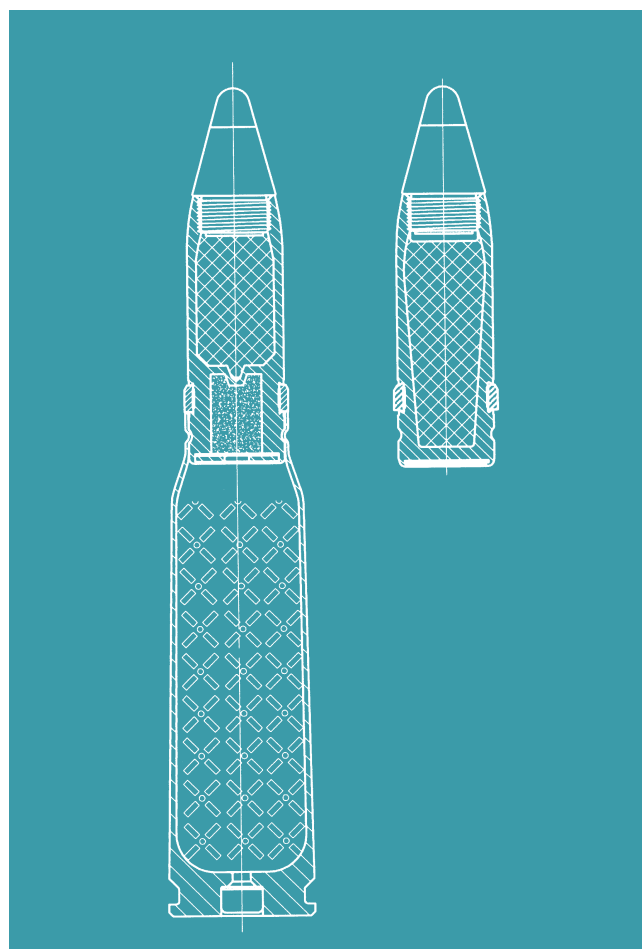
Weight (g)	M246:264, M56A3:257, M55A2 & M220:255, K159:254
Length (mm)	168.02
Pressure(kg/cm ²)	4,254 Max.
Muzzle Velocity(mps)	1,030
Accuracy(inch)	15 at 600yds Max.
Arming Distance(ft)	25-35
Self-destruction Time(sec.)	M246:3.1-7.0
Tracer Burning Time(sec.)	3.1 Min.
Maximum Range(m)	7,000

■ Weapon

M167, M39A3, M61, M197

■ Packing

Packed with link and Metal Box



CARTRIDGE 20MM

MPT-SD, K163



■ Components

Projectile	Carbon Steel
Filler	Comp -A4
Propellant	PMC9221
Primer	Electric M52A3B1
Fuse	Pyrotechnic fuse(AL-Alloy)
Link	M14A2
Case	Brass 70/30, M103

■ Technical Data

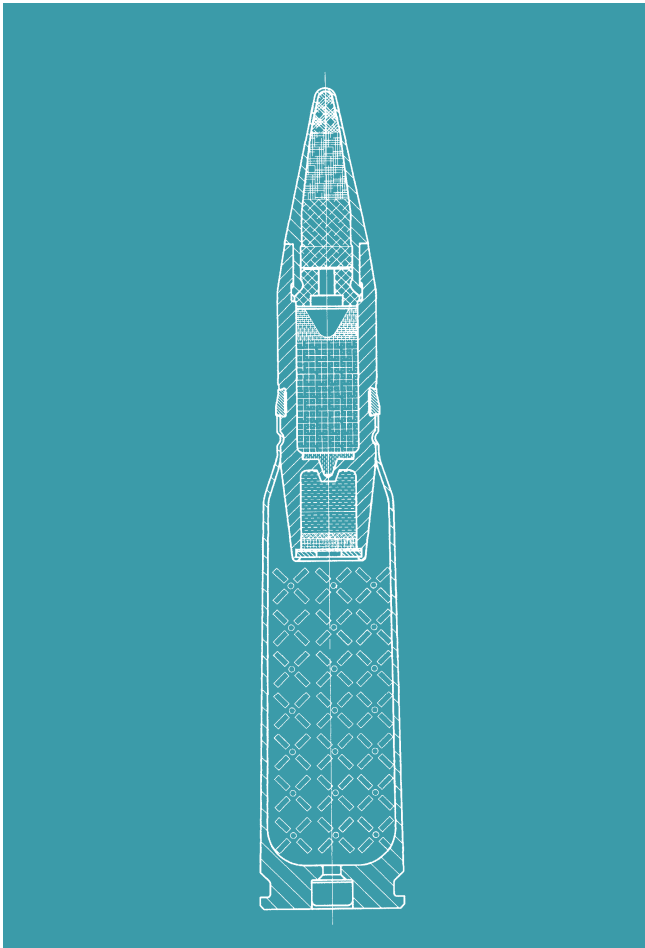
Weight (g)	262
Length (mm)	168.02
Muzzle Velocity(mps)	1,021
Maximum Range(m)	7,000
Pressure(kg/cm²)	4,254 Max.
Accuracy(inch)	15 at 600yds Max.
Self-destruction Time(sec.)	high temp. : 3.8-7.0
	Low temp. : 4.1-7.0
Tracer Burning Time(sec.)	high temp. : 3.8 Max.
	Low temp. : 4.1 Max.

■ Weapon

M167 Vulcan gun with a modified fire control processor to accommodate this new ammo type

■ Packing

Packed with link and Metal Box



CARTRIDGE 30MM OERLIKON

HEIT-SD K154

HEI-SD K155

TP-T K156

TP K162

HEI-T K160

HEI K161



■ Components

Projectile	Carbon Steel
Filler	Hexal W30A
Fuse	PD/SD K503, PD K515
Case	Steel(K1)
Primer	Percussion K602
Propellant	Single Base(K670)
Link	K1

■ Technical Data

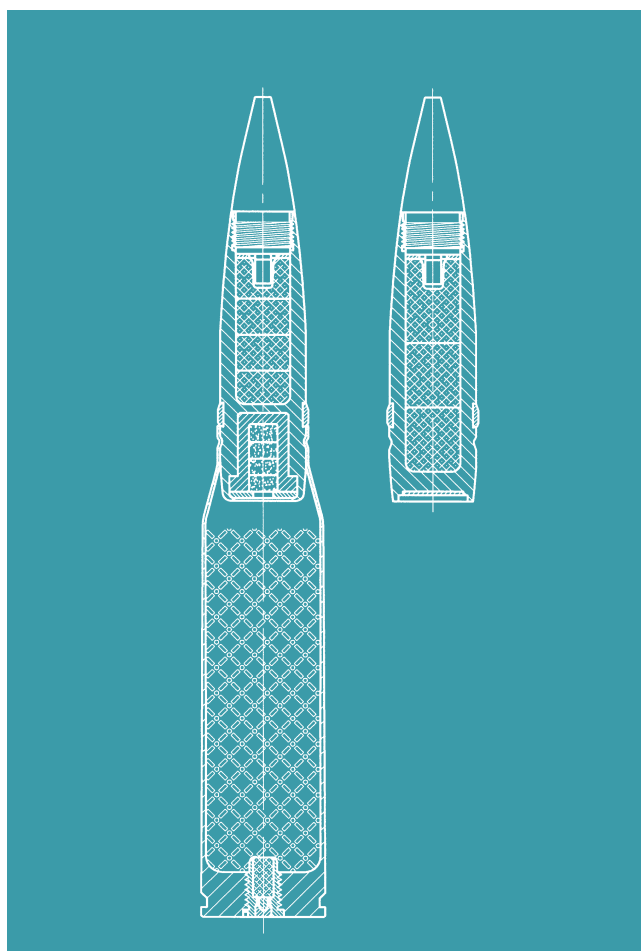
Weight (g)	Approx. 870
Length (mm)	Approx. 285.25
Chamber Pressure(kg/cm ²)	3,600 Max. (Average)
Muzzle Velocity(mps)	1,080 ± 15
Arming Distance(m)	16
Self-destruction Time(sec.)	8 ± 2
Tracer Burning Time(sec.)	4 Min.
Maximum Range(m)	10,200

■ Weapon

Oerlikon KCB Gun

■ Packing

Packed with link and Metal Box



CARTRIDGE 35MM OERLIKON

HEI-SD K202 KA1

TP-T K203



■ Components

Projectile	Carbon Steel
Filler	Hexal W30A
Fuse	PD&SD K504KA1
Case	Steel(K2)
Primer	Percussion K603
Propellant	Single Base

■ Technical Data

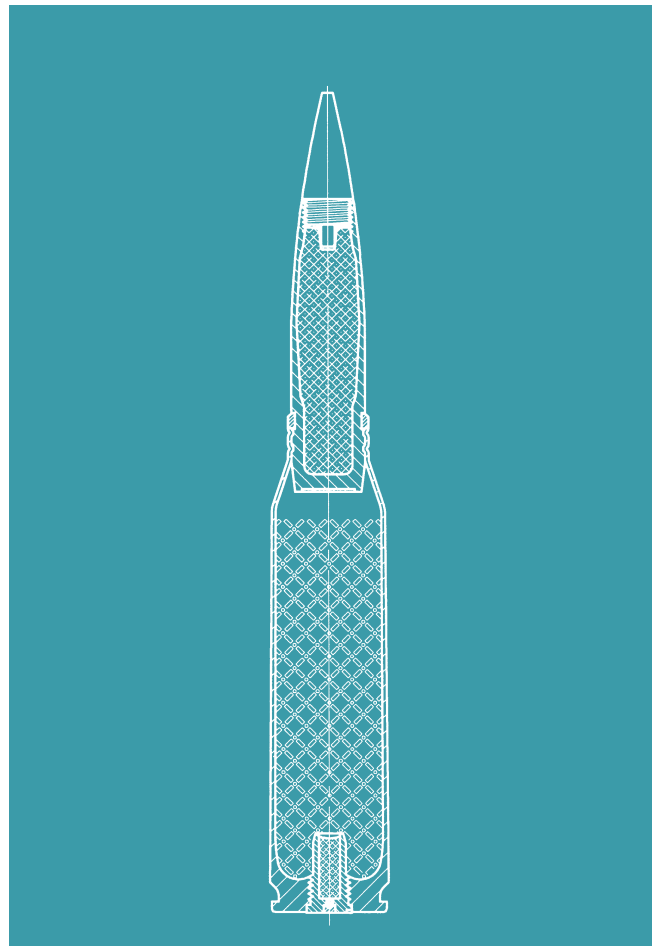
Weight (g)	1,570
Length (mm)	387
Chamber Pressure (kg/cm ²)	3,600 Max.(Average)
Muzzle Velocity(mps)	1,175 ± 15
Arming Distance(m)	16
Self-destruction Time(sec.)	11 ± 2
Tracer Burning Time(sec.)	6 Min.
Maximum Range(m)	11,000

■ Weapon

Oerlikon KDB Gun

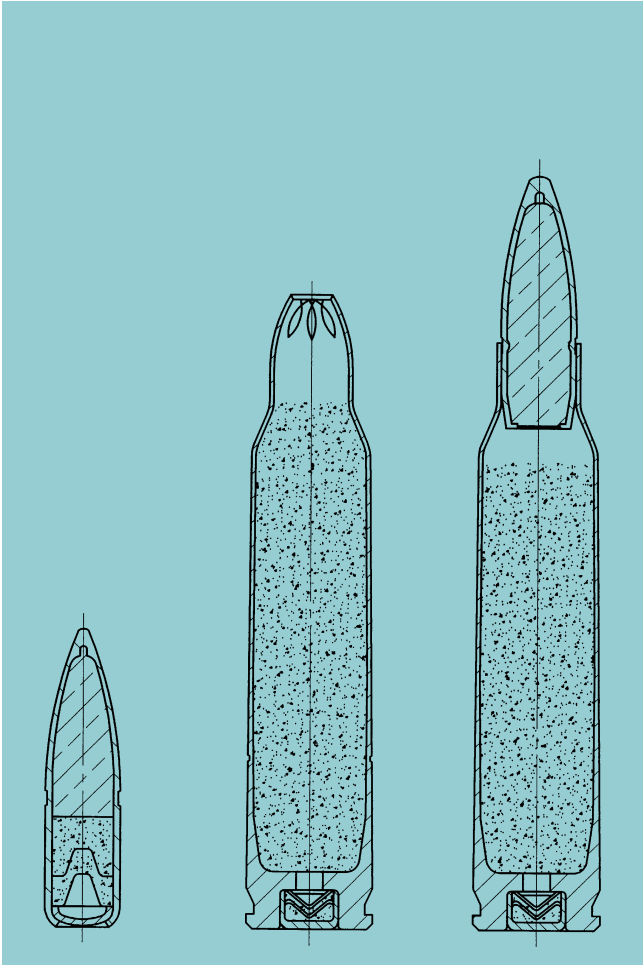
■ Packing

Packed with Wooden Box



CARTRIDGE 5.56 × 45MM

- BALL M193
- TRACER M196
- BLANK M200
- HIGH PRESSURE TEST M197



■ Components

Model No.	M193	M196	M200
Bullet	Lead-Antimony Core with Gilding Metal Jacket	Lead-Antimony, Tracer Ignition with Gilding Metal or Gilding Metal Clad Steel Jacket	
Case	Brass 70/30	Brass 70/30	Brass 70/30
Propellant	Double Base	Single Base	Double Base
Primer	Percussion, Boxer Type	Percussion, Boxer Type	Percussion, Boxer Type

■ Technical Data

Model No.	M193	M196	M200
Weight (g)	11,70	11.47	6.93
Length (mm)	57.4	57.4	48.2
Chamber Pressure MAX.(psi)	52,000	52,000	
Velocity at 78 feet(fps)	3,165 ± 40	3,115 ± 40	
Accuracy at 200yds Max.(inch)	2.0	5.0	
Tracer Burning Distance(m)		68.5 to 457.2	
Noise Level(db)			100 Min
Maximum Range(m)	2,653	2,653	

■ Weapon

M16, M16A1, M16A2, HK33, SMG M249, FN CAL, SIG, BERETA, GAILL

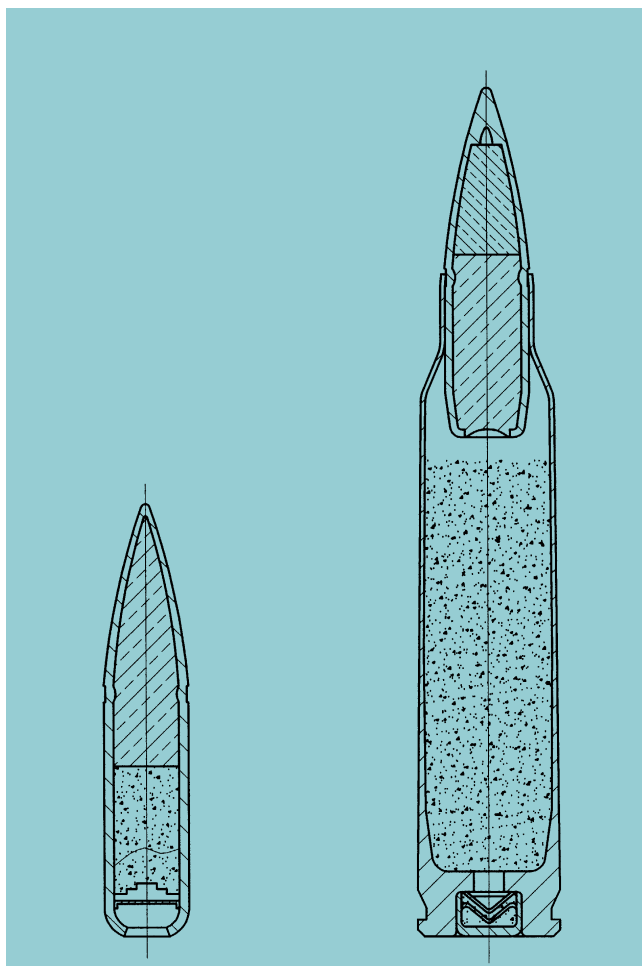
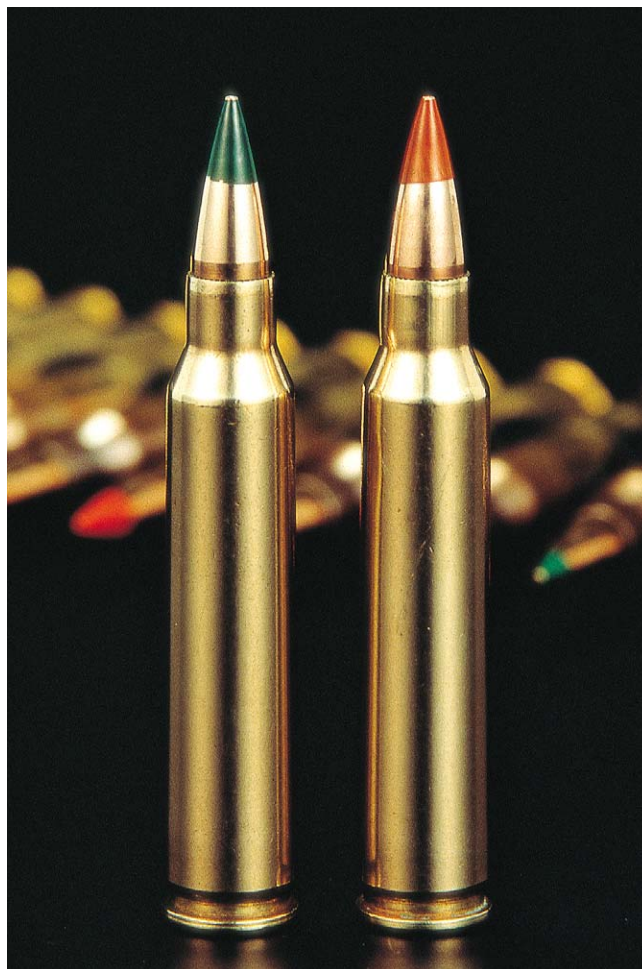
■ Packing

Packed with Carton Box, Metal Box and Wire Bound Box

CARTRIDGE 5.56 × 45MM

BALL K100 equivalent to SS109/M855

TRACER K101 equivalent to L110/M856



■ Components

Model No.	M100	K101
Bullet	Lead-Antimony, Steel Core with Gilding Metal Jacket	Lead-Antimony, Tracer Ignition with Gilding Metal Clad Steel Jacket
Case	Brass 70/30	Brass 70/30
Propellant	Double Base	Single Base
Primer	Percussion, Boxer Type	Percussion, Boxer Type

■ Technical Data

Model No.	K100	K101
Weight (g)	12.3	12.4
Length (mm)	57.4	57.4
Chamber Pressure MAX.(psi)	52,000	52,000
Velocity at 78 feet(fps)	3,000 ± 40	2,870 ± 40
Accuracy at 200yds Max.(inch)	7.8	11.8
Tracer Burning Distance(yds)		153 to 875
Maximum Range(m)	K2 3,300	3,300
	K3 3,600	3,600

■ Weapon

M16A2, HK33, SMG M249, FN CAL, K2, K3

■ Packing

Packed with Carton Box, Metal Box and Wire Bound Box

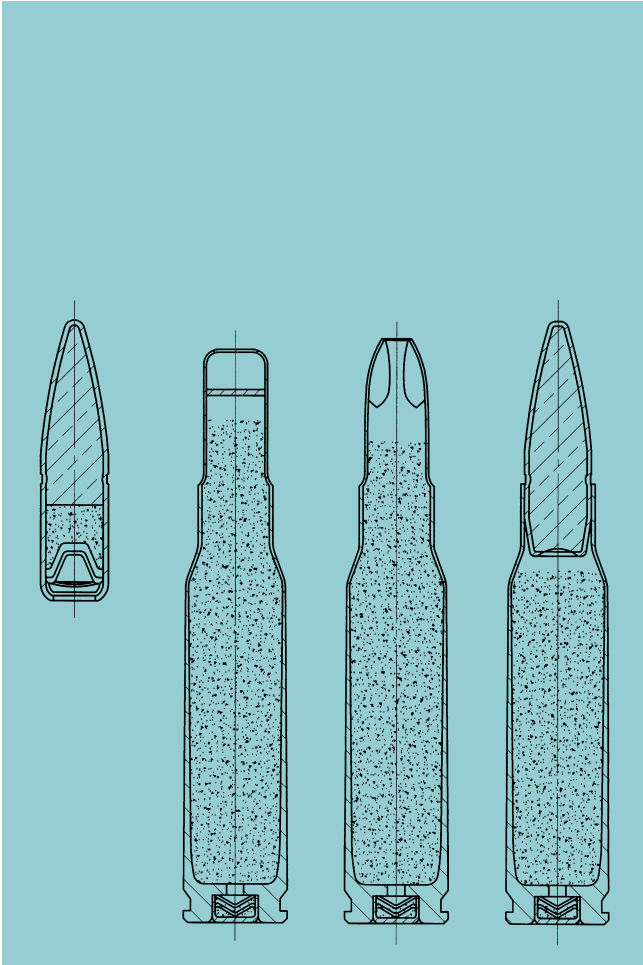
CARTRIDGE 7.62 × 51MM

BALL M80

TRACER M62

BLANK M82

HIGH PRESSURE TEST M60



■ Components

Model No.	M80	M62	M82
Bullet	Lead-Antimony Core with Gilding Metal or Gilding Metal Clad Steel Jacket	Lead-Antimony, Tracer Ignition with Gilding Metal Jacket	
Case	Brass 70/30	Brass 70/30	Brass 70/30
Propellant	Double Base	Double Base	Double Base
Primer	Percussion, Boxer Type	Percussion, Boxer Type	Percussion, Boxer Type

■ Technical Data

Model No.	M80	M62	M82
Weight (g)	25.4	24.8	15.19
Length (mm)	71.1	71.1	66.62
Chamber Pressure MAX.(psi)	50,000	50,000	
Velocity at 78 feet(fps)	2,750 ± 30	2,750 ± 30 2,680 ± 30	
Accuracy at 600yds Max.(inch)		15.0	
Tracer Burning Distance(yds)		100 to 857	
Noise Level(db)			100 Min
Maximum Range(m)	3,725	3,725	

■ Weapon

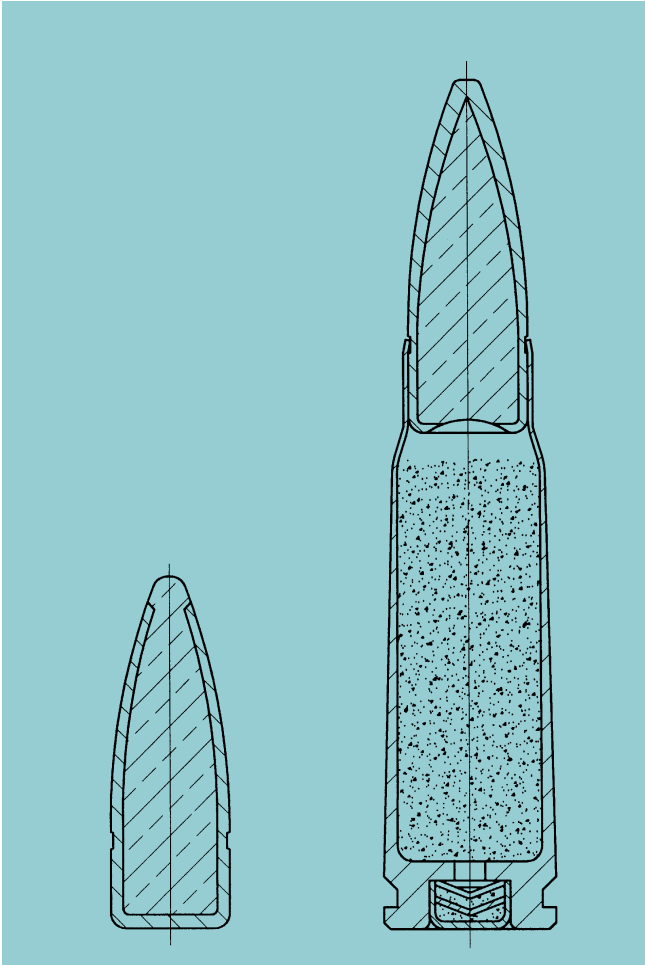
M14Rifle, M60, M73, M219, M240 Machine Gun

■ Packing

Packed with Carton Box, Metal Box and Wire Bound Box

CARTRIDGE 7.62 × 39MM

BALL 123 GRAINS FULL METAL JACKET



■ Components

Bullet	Lead-Antimony Core with Gilding Metal Jacket
Case	Brass 70/30
Propellant	Double Base
Primer	Percussion, Boxer Type

■ Technical Data

Weight (g)	18.14 Approx.
Length (mm)	55.7
Chamber Pressure Max.(psi)	45,000
Velocity at 78 feet(fps)	2,275 ± 30
Accuracy at 200yds Max.(inch)	5.0
Maximum Range(m)	2,500

■ Weapon

AK47, 56SKS, AKS, 56S, M78, Ruger Mini 30

■ Packing

Packed with Carton Box(Plastic Tray), Corrugated Box

CARTRIDGE 12.7 × 99MM

BALL M33

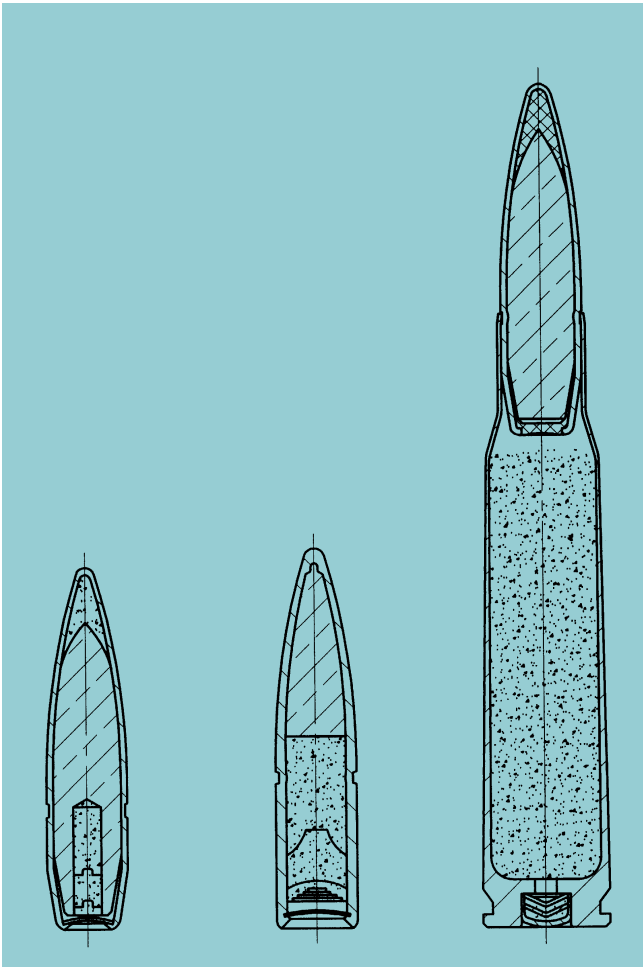
TRACER M17

ARMOR PIERCING M2

ARMOR PIERCING INCENDIARY M8

ARMOR PIERCING INCENDIARY TRACER M20

HIGH PRESSURE TEST M1



■ Components

Bullet	M33	Steel Core
	M17	Lead-Antimony Core, Tracer Composition
	M2	Mn-Mo Core
	M8	Mn-Mo Core, Incendiary
	M20	Mn-Mo Core, Incendiary, Tracer Composition
Case	Brass 70/30	
Propellant	Double Base	
Primer	Percussion, Boxer Type	

■ Technical Data

Model No.	M33	M17	M2	M8 & M20
Weight (g)	114.2	112.5	117.4	114.3(M8) 111.3(M20)
Length (mm)	138.4	138.4	138.4	138.4
Chamber Pressure Max. (psi)	55,000	54,000	55,000	55,000
Velocity at 78 feet(fps)	2,910 ± 30	2,860 ± 40	2,910 ± 30	2,910 ± 30
Accuracy at 600yds Max. (inch)	12	20	12	12
Tracer Burning Distance(yds)		100 to 1,600		100 to 1,600
Penetration at 100yds				7/8" Armor Plate
Maximum Range(m)	6,800	6,800	6,800	6,800

■ Weapon

M2, M3, M50, M63, M65, M85, Machine Gun

■ Packing

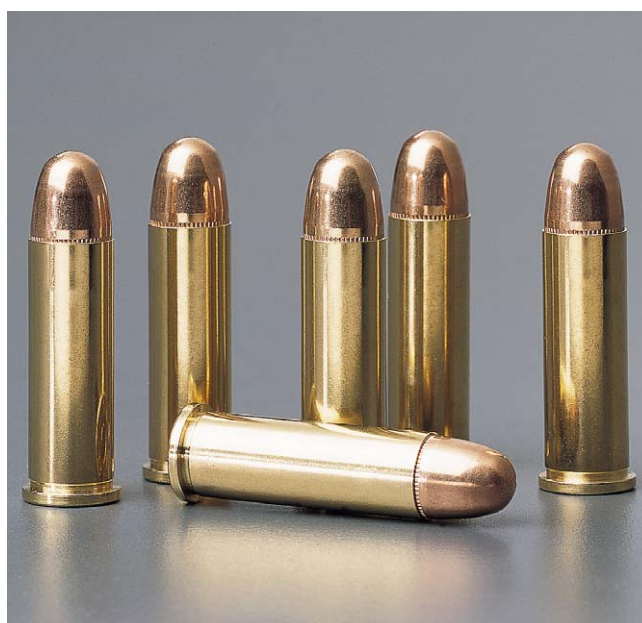
Packed with Carton Box, Metal Box and Wire Bound Box

PISTOL & REVOLVER AMMUNITION

9MM LUGER PARABELLUM 115GRAINS
FULL METAL JACKET(9A)

38 SPECIAL 132 GRAINS
FULL METAL JACKET(38G)

45 AUTOMATIC 230GRAINS
FULL METAL JACKET(45A)



■ Components

Item No.	9A	38G	45A
Bullet	Lead-Antimony Core with Gilding Metal Jacket	Lead-Antimony Core with Gilding Metal Jacket	Lead-Antimony Core with Gilding Metal Jacket
Case	Brass 70/30	Brass 70/30	Brass 70/30
Propellant	Double Base	Double Base	Double Base
Primer	Percussion, Boxer Type	Percussion, Boxer Type	Percussion, Boxer Type

■ Technical Data

Item No.	9A	38G	45A
Weight (g)	11.74	13.7	21.46
Length (mm)	29.57	39.37	32.38
Chamber Pressure (psi)	31,000	16,000	19,500
Muzzle Velocity(fps)	1,110±50	930±50	810±50
Accuracy (inch)	3.0 at 25yds	7.46 at 50yds	7.46 at 50yds

■ Weapon

9A : Browning, Smith & Wesson, Colt, HP, Beretta, UZI, MP5

38G : Smith & Wesson, Colt, Luger

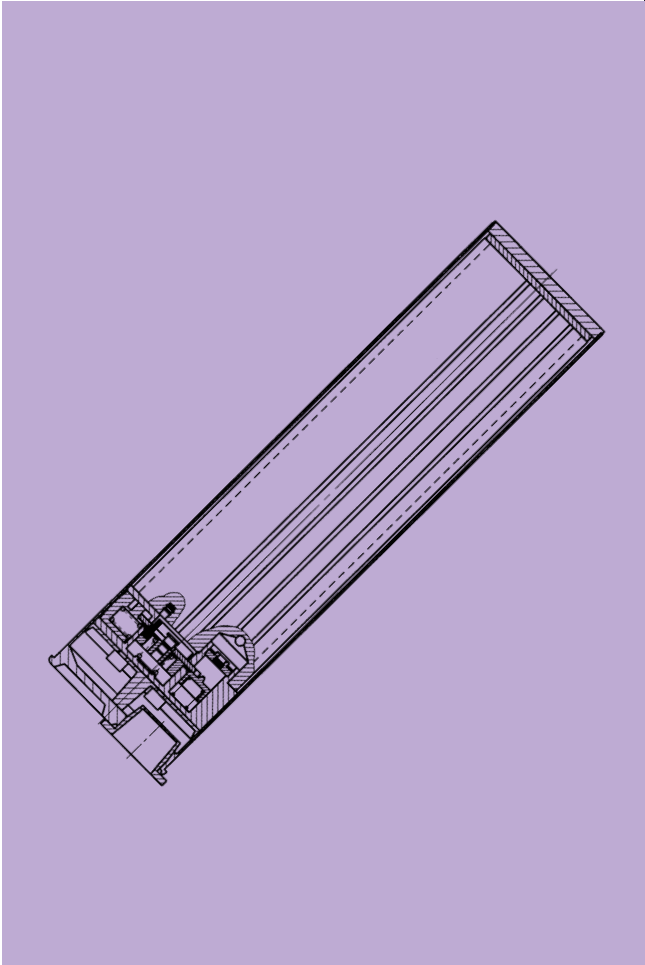
45A : Colt(M1911A1), Remington(M3A1) SMG

■ Packing

Packed with Carton Box, Metal Box and Wire Bound Box and/or
Carton Box, Corrugated Box and Wooden Pallet

I.R.F., KMJU-7/B

INFRARED RAYS FLARE



■ General

Effective in misguiding all kinds of heat-tracing missiles thrown from the aircraft for defense.

■ Technical Data

Weight (g)	403
Length (mm)	205
Filler	Mg
Propellant	Smokeless Powder
Primer	Electric, KBBU-36/B
Energy(kcal)	15-20

■ Weapon

AN/ALE 40

■ Packing

Packed with Corrugated Box and Wooden Box

PISTOL & REVOLVER AMMUNITION FOR SPORTING



Poongsan Item No.	Description
25A	25AUTO 50GR FMJ
32A	32AUTO 71GR FMJ
32SWLA	32 S & W Long 98GR LRN
32SWLB	32 S & W Long 100GR LWC
357A	357 MAG 158GR JSP
357B	357 MAG 125GR JHP
357C	357 MAG 150GR JHP
380A	380 AUTO 90GR FMJ
380B	380 AUTO 90GR JHP
38A	38 Special 158GR LRN
38C	38 Special 148GR LWC
38D	38 Special+P 125GR JHP
38G	38 Special 132GR FMJ
38SA	38 Super AUTO 130GR FMJ
38SB	38 Super AUTO 115GR JHP
38EMG	38 Special 132GR EMJ with NT Primer
38EMD	38 Special 125GR EMJ with NT Primer
40B	40 S & W 165GR JHP
40D	40 S & W 165GR TCFMJ

Poongsan item No.	Description
40E	40 S & W 180GR TCFMJ
40EMD	40 S & W 165GR EMJ with NT Primer
41C	41 REM MAG 210GR TCSP
44A	44 REM MAG 240GR LSWC-GCK
44B	44 REM MAG 180GR JHP
44C	44 REM MAG 240GR JHP
44D	44 REM MAG 240GR TCSP
44SA	44 S & W Special 240GR SWC-CP
44SB	44 S & W Special 180GR JHP
45A	45 AUTO 230GR FMJ
45B	45 AUTO 185GR JHP
45C	45 AUTO 200GR FMJSWC
45EMA	45 AUTO 230GR EMJ with NT Primer
9A	9MM Luger 115GR FMJ
9B	9MM Luger 115GR JHP
9G	9MM Luger 124GR FMJ
9EMA	115GR EMJ with NT Primer
10A	10MM AUTO 200GR TCFMJ
10B	10MM AUTO 170GR JHP

RIFLE AMMUNITION FOR SPORTING



Poongsan Item No.	Description
22-250A	22-250 REM 55GR FMJ
22-250B	22-250 REM 55GR PSP
222B	222 REM 50GR PSP
223A	223 REM 55GR FMJ
223B	223 REM 55GR PSP
223C	223 REM 64GR PSP
243A	243 WIN 80GR PSP
243B	243 WIN 100GR PSP
6.5MA	6.5 × 55 Swedish Mauser 144GR FMJ
6.5MB	6.5 × 55 Swedish Mauser 139GR PSP
270A	270 WIN 130GR PSP
270B	270 WIN 150GR PSP
7MA	7mm Mauser 140GR PSP
7MB	7mm Mauser 175GR PSP
30A	30 CARBINE 110GR FMJ
3006A	3006 SPRG 150GR PSP
3006B	3006 SPRG 180GR PSP

Poongsan Item No.	Description
3006C	3006 SPRG 150GR FMJ
300A	300 WIN MAG 150GR PSP
300B	300 WIN MAG 180GR PSP
3030A	3030 WIN 150GR FNPS
3030B	3030 WIN 170GR FNPS
308A	308 WIN 150GR PSP
308B	308 WIN 147GR FMJ
308C	308 WIN 180GR PSP
308D	308 WIN 168GR FMJ
7.62A	7.62 × 39 123GR FMJ
7.62B	7.62 × 39 125GR PSP
7A	7mm REM MAG 140GR PSP
7B	7mm REM MAG 160GR BTSP
7C	7mm REM MAG 175GR PSP
7MA	7 × 57mm Mauser 140GR PSP
7MB	7 × 57mm Mauser 175GR SP
8MA	8mm Mauser 170GR PSP

M82

■ Technical Data

Weight (g)	30.6
Length(mm)	49.3 max
Out Diameter(mm)	11.2
Body	Brass
Function	Percussion
Filler	Black Powder
Primer	No.72, No.34

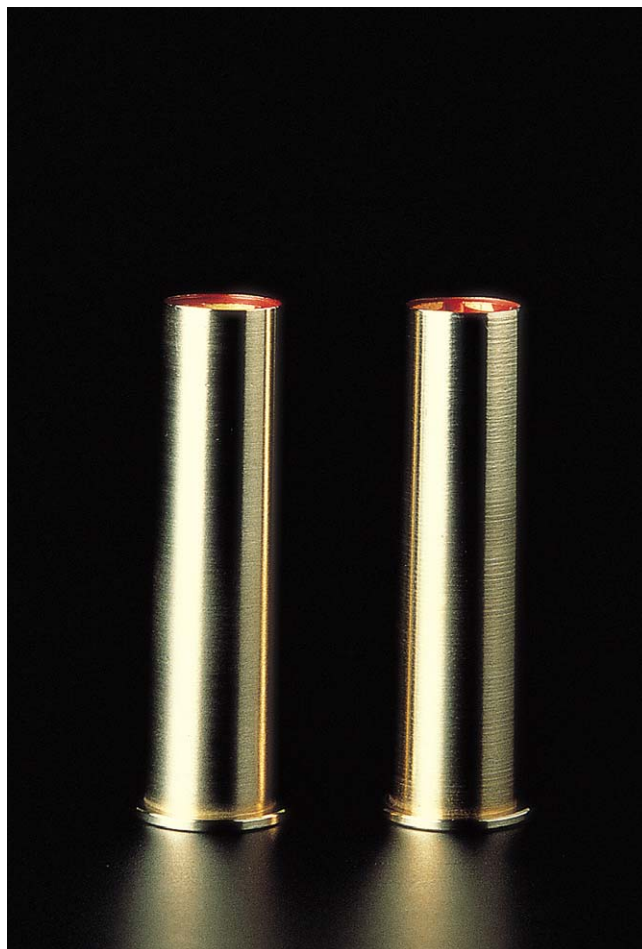
■ Weapon

155MM : CN79 (KH179)

8 " : M110, M110A1, M55

■ Packing

Packed with foil, corrugated box and wooden box.



MK2A4

■ Technical Data

Weight (g)	12.6
Length(mm)	40.5 max
Out Diameter(mm)	8.83
Body	Brass
Function	Percussion
Filler	Black Powder
Primer	No.34

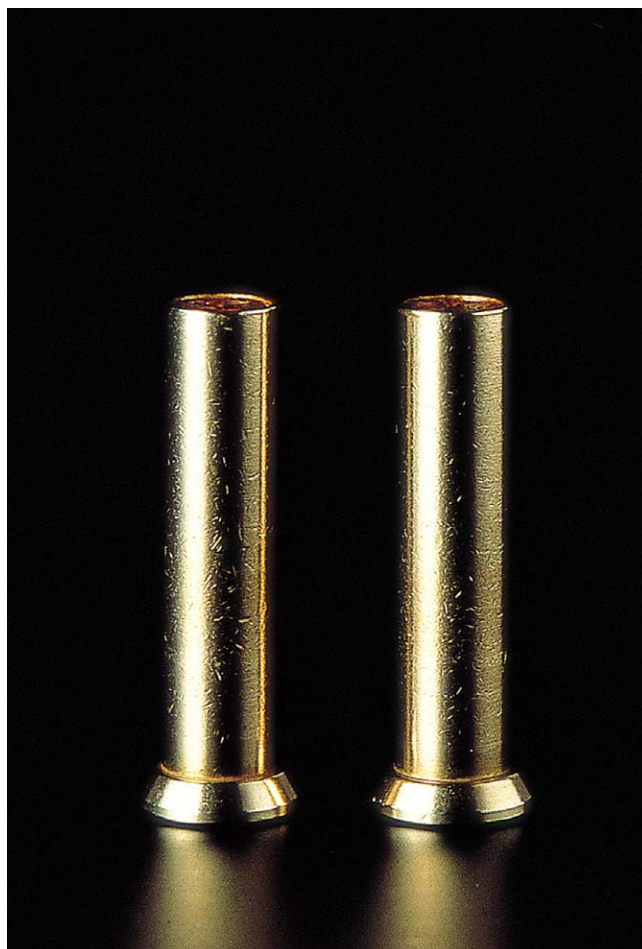
■ Weapon

155MM : M1, M1A1

8 " : M2, M2A1

■ Packing

Packed with Carton Box, Metal Box and Wire Bound Box.



PRIMERS

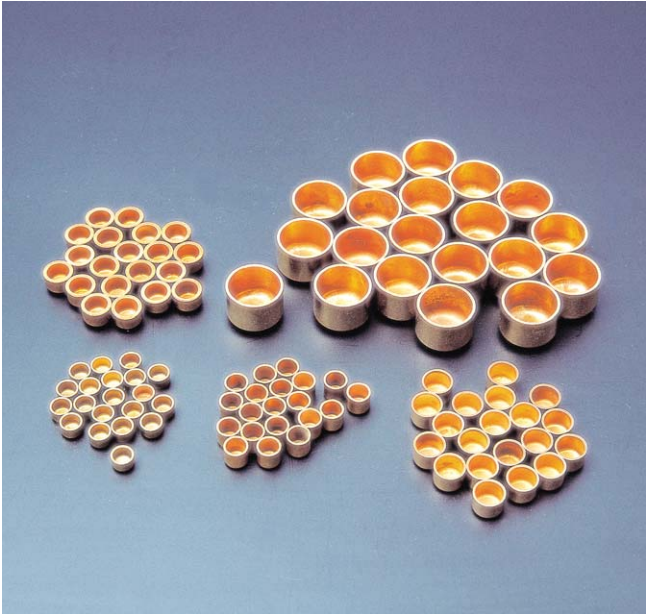


PRIMERS	APPLICABLE WEAPONRY
Variety of small primers	Small Arms(Rifle & Pistol)
KM52A3B1	20mm Vulcan
K602	30mm Oerlikon
K603	35mm Oerlikon
KM32	60mm Mortar
K1	60mm Mortar, Advanced
KM71A2	81mm Mortar
K2	81mm Mortar, Advanced
KM1A2	105mm Howitzer, Blank
KM28A2	105mm Howitzer
KM79	90mm APFSDS-T, TANK
KM58	90mm TP-T, TANK
KM49	90mm HEAT, TANK
KM83	105mm HEAT-T, TANK
KM120	105mm APFSDS-T, TANK
K611	120mm TP-T, HEAT-T, APFSDS-T, TANK
KM92E1	90mm R/R
KM57	106mm R/R
K609	76mm L/62, Naval Gun
KMK48 MOD.2	5"/38 CAL, Naval Gun
KBBU-36/B	I.R.F., KMJU-7/B

CUP, DISK, CONE & ROTATING BAND

AVAILABLE AT YOUR REQUEST
EITHER PRIMED or UNPRIMED
CASE

Bullet Jacket Cup	Small Arms Ammunition
Case Cup	Small Arms Ammunition 20MM Vulcan Ammunition 40MM L/60 Naval Ammunition 40MM L/70 Naval Ammunition 105MM Howitzer Ammunition 90MM Anti-Tank Ammunition 5"/38 Naval Ammunition
Disc	40MM L/60 Naval Ammunition 40MM L/70 Naval Ammunition 105MM Howitzer Ammunition 90MM Anti-Tank Ammunition 5"/38 Naval Ammunition
Cone	90MM R/R Ammunition 106MM R/R Ammunition 90MM Anti-Tank Ammunition 40MM Grenade Grenade for 155MM Howitzer
Rotating Band	20MM Vulcan Ammunition 30MM/35MM Oerlicon Ammunition 40MM L/60 Naval Ammunition 40MM L/70 Naval Ammunition 105MM/155MM/8" Howitzer Ammunition 90MM Anti-Tank Ammunition



LINK

Model	Applicable
K2(equivalent to M27)	5.56MM
KM13(equivalent to M13)	7.62MM
KM9(equivalent to M9)	Cal. 50
KM12/M14A2(equivalent to M12, M14A2)	20MM
K1(equivalent to MA-831)	30MM
KM16A2(equivalent to M16A2)	40MM



FUZE

Model	Used for	Function	Self-Destruction	Arming Distance	Filler
K504KA1	35MM HEI-SD	Percussion & SD	11sec	18m	Lead Azide
K515	30MM HEI-T, HEI	Percussion	-	18m	Lead Azide
K503	30MM HEI-SD, HEIT-SD	Percussion & SD	8sec	18m	Lead Azide
M505A3	20MM HEI,HEIT-SD	Percussion	-	6-10.6m	R.D.X



PENETRATORS

■ General

Environment-friendly Subprojectile composed of high density tungsten core fitted in 120° Sectioned sabots with 450mm penetration / RHA capability

■ 105mm APFSDS-T, K274

Weight (Kg)	6.23
Length (mm)	470

■ 120mm APFSDS-T, K276

Weight (Kg)	7.35
Length (mm)	600



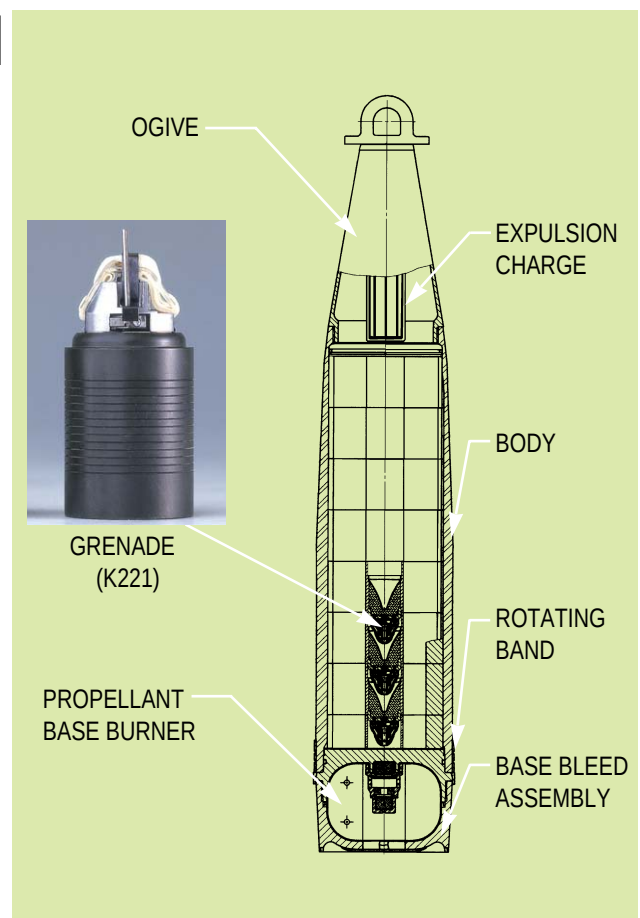
BOMBLET, 155MM B/BDP-ICM

■ General

49 dual-purpose bomblets functioning both on ground impact-burst and chemical time-burst against armour and personnel.

■ Technical Data

Weight (g)	290
Length (mm)	60.1
Filler	Comp A-4
Fuse	PD-SD K-520



PROJECTILE BODY

■ ARTILLERY

105mm	Weight(kg)	11.81
	Length(mm)	399.67
	Diameter(mm)	φ104.85
155mm	Weight(kg)	35.14
	Length(mm)	603.35
	Diameter(mm)	φ154.71
8"	Weight(kg)	73.027
	Length(mm)	797.5
	Diameter(mm)	φ212.64



■ MORTAR

60mm	Weight(g)	790
	Length(mm)	127.5
	Diameter(mm)	φ60.05
81mm	Weight(g)	2,300
	Length(mm)	264.23
	Diameter(mm)	φ80.62
4.2"	Weight(g)	5,820
	Length(mm)	416.43
	Diameter(mm)	φ106.55



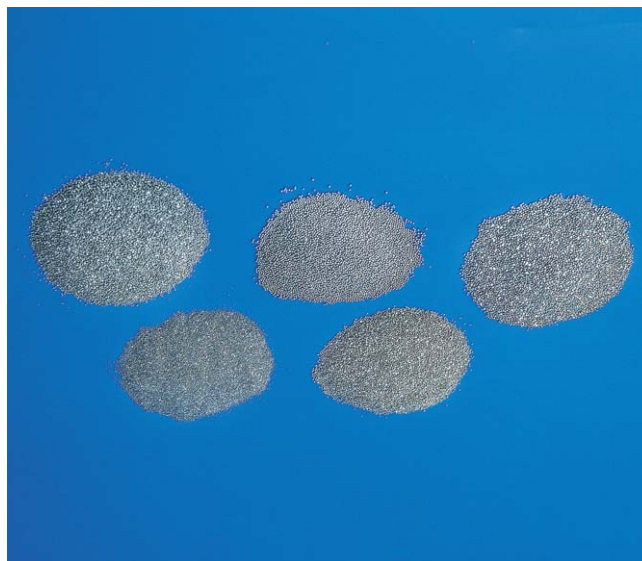
■ ANTI-AIRCRAFT/NAVAL-GUN

20mm	Weight(g)	68
	Length(mm)	56-0.5
	Diameter(mm)	φ19.91
30mm	Weight(g)	288±3
	Length(mm)	101±0.1
	Diameter(mm)	φ29.85±0.03
35mm	Weight(g)	382
	Length(mm)	101±0.1
	Diameter(mm)	φ34.92±0.05
40mm	Weight(g)	730
	Length(mm)	166
	Diameter(mm)	φ39.3±0.16
76mm	Weight(g)	4,585-4,855
	Length(mm)	260-262.4
	Diameter(mm)	φ75.793



■ BALL POWDER

WC844, PMC8355, PMC815	5.56mm RIFLE & SMG
WC846/818, PMC8376	7.62mm RIFLE
WC860, PMC9850	Cal. .50 MG
WC825	Cal. .30 RIFLE
WC870	20mm VULCAN
PMC9221	20mm VULCAN, EXPENDED RANGE
PMC1209/1210	
PMC2222/2224/2225/2227 2230/2236/2239	APPLICABLE FOR ALL RIFLES
PMC3222	VARIOUS, 22 Cal RIMFIRE



■ SINGLE BASE

K670	30mm OERLIKON
K681	30mm NAVAL GUN(GOAL KEEPER)
K671	35mm OERLIKON



■ TRIPLE BASE

KM15	90mm HE, TANK
KM30	90/105mm, TANK
K682, K683	120mm, TANK



ROADWHEEL

■ General

Types of Large size aluminum-forged Roadwheels for caterpillars produced by high precision computerized hydraulic press.

■ Technical Data

Material	Al-Alloy 2014
Out-Diameter(mm)	φ578 ~ φ645.2
In-Diameter(mm)	φ506 ~ φ598
Weight(kg)	28 ~ 43



SIDE GEAR, PINION

■ General

Gear & pinion produced in high precision warm-forging and cold coining.

■ Technical Data

	Gear	Pinion
Tooth Profile	Poongsan Soft	Poongsan Soft
Module	6.5	6.5
No. of Teeth	16	11
Shaft angle(°)	90	90
Pitchcircle Dia.(mm)	104.0	71.5
Backlash	0.18 ~ 0.23	0.18 ~ 0.23



PULLEY

■ General

6 Different Types of Forged Pulleys with enhanced durability produced by High Precision Near Net, Shape Cold Forging Method.

■ Technical Data

HRB	98
Weight(g)	745 ~ 2,248
Out-Diameter(mm)	φ 108 ~ 120
In-Diameter(mm)	φ 84 ~ 101
Width(mm)	32 ~ 41



HPC BLADE

■ General

3 Types of Net shape forged blades for aircraft engine of PW4000 series produced by High Precision hot forging method.

■ Technical Data

Material	INCONEL 718 (NICKEL BASE SUPER-ALLOY)
Length(mm)	67.8 ~ 70.4
Weight(g)	300



KM451

■ Technical Data

Weight(g)	1,000±100
Overall Length(mm)	206.7
Time(sec)	4.0 ~ 199.9
Functioning Action	Electronic Time

■ Application

227mm ER-MLRS(M26A2)



K505 PD

■ Technical Data

Weight(g)	453.0
Overall Length(mm)	152.8
Outer Diameter(mm)	60.0
Functioning Action	Point Detonating

■ Application

122/130mm ROCKET(MLRS)



KM427/423 PD

■ Technical Data

Weight(g)	280.0
Outer Diameter(mm)	44.4
Functioning Action	Point Detonating

■ Application

2.75" ROCKET



KM533 HE

■ Technical Data

Weight(g)	67.5
Overall Length(mm)	39.5
Outer Diameter(mm)	40.7
Functioning Action	Point Detonating

■ Application

40mm High-speed Grenade HE



K541 HEDP

■ Technical Data

Weight(g)	60.0
Overall Length(mm)	36.6
Outer Diameter(mm)	40.7
Functioning Action	Point Initiating Base Detonating

■ Application

40mm High-speed Grenade HEDP



KLI 472 PD/SD

■ Technical Data

Weight(g)	42.6
Overall Length(mm)	50.7
Outer Diameter(mm)	25.8
Functioning Action	Point Detonating & Self-Destructing

■ Application

40mm L/70 HELT K216



KM84A1E1 TIME

■ Technical Data

Weight(g)	900.0
Overall Length(mm)	97.7
Thread Size	2.4-18UNS-1A
Time(sec)	52.0
Functioning Action	Compound Delay Time

■ Application

81mm Mortar ILL. CTG.



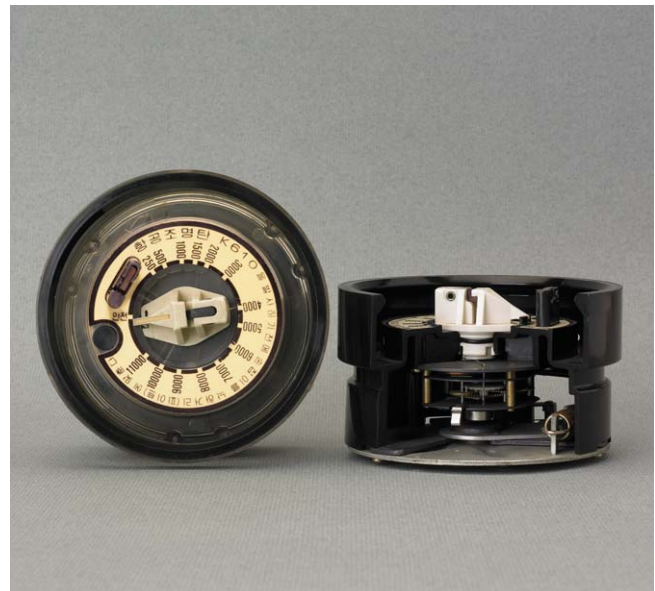
TIMER

■ Technical Data

Weight(g)	550.0
Overall Length(mm)	73.0
Time(sec)	55.5
Functioning Action	Mechanical Clock & Release Mechanism

■ Application

Aircraft flare K610



EXTENDER, BOOSTER, DEPTH CHARGE KMK6 MOD2

■ Technical Data

Weight(g)	3,490.0
Overall Length(mm)	119.4
Diameter(mm)	162.0

■ Application

Depth Charge KMK9 MOD4



ACCELEROMETER KA-400

■ Technical Data

Dimension(mm)	$\phi 38.1 \times h30.0$
Range(g)	± 25.0
Temperature($^{\circ}\text{C}$)	$-40 \sim +80$

■ Application

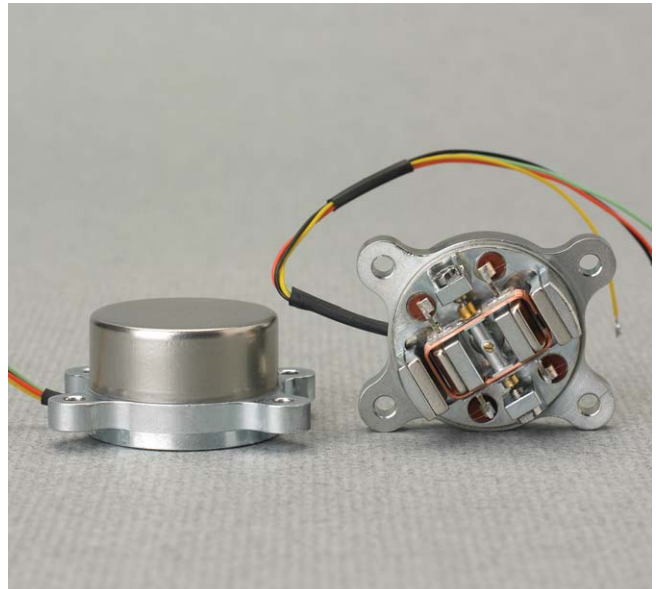
Inertial Navigation System



RATE SENSOR KRS-200

■ Technical Data

Dimension(mm)	$\phi 32.0 \times h17.0$
Range(deg/sec)	300.0



PITOT-TUBE

■ Technical Data

Weight(g)	300.0
Overall Length(mm)	215.0
Diameter(mm)	inner - $\phi 3.0$ Outer - $\phi 14.0$
Voltage(V)	DC 28.0



PONGSAN

60-1, 3-ga, Chungmu-ro, Chung-gu,
Seoul, Korea
TEL:(02)3406-5114
FAX:(02)3406-5400/5415
<http://www.poongsan.co.kr>