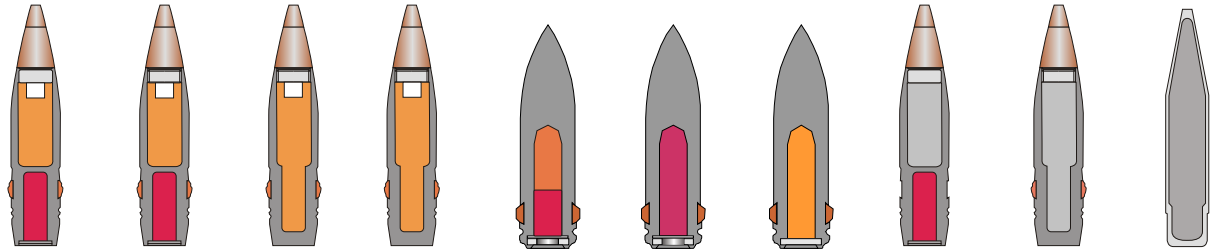


# ***MEDIUM AND BIG CALIBER AMMO***



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# AMMUNITION 20mm x 110 FOR ANTI-AIRCRAF GUN 20mm M55, HS 404 AND HS 804 "HISPANO"



NATO DESIGNATION	HEI-T	HE-T	HEI	HE	API-T	API	AP-T	TP-T	TP	BLANK
WEIGHT										
projectile (g)	122	122	122	122	142	142	142	122	122	min 70
propellant (g)	29	29	29	29	32	32	32	29	29	29
explosive (g)	6.1	6.1	12.1	12.1	none	none	none	none	none	none
complete round (g)	246	246	246	246	265	265	265	246	246	195
EXPLOSIVE TYPE	RDX+AL	RDX	RDX+AL	RDX	none	none	none	none	none	none
LENGHT (mm) complete round	184	184	184	184	182	182	182	184	184	184
MUZZLE VELOCITY (m/s)	845	845	845	845	844	844	844	845	845	none
SELF-DESTRUCTION TIME (s)	3.5	3.5	none	none	none	none	none	none	none	none
TRACER BURNING TIME (s)	3.5	3.5	-	-	3.5	3.5	-	3.5	-	-

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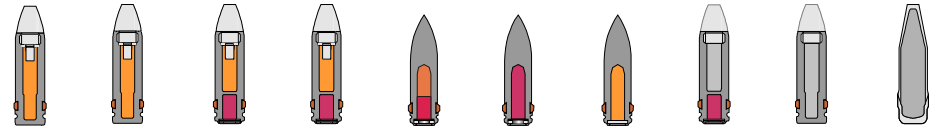
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# AMMUNITION 20mm x 110RB FOR ANTI-AIRCRAFT GUN 20mm MK-IV "OERLIKON"



NATO DESIGNATION	HE	HEI	HE-T	HEI-T	API-T	API	AP-T	TP-T	TP	BLANK
WEIGHT										
projectile (g)	119	119	122	122	142	142	142	122	119	min 70
propellant (g)	29	29	29	29	32	32	32	29	29	29
explosive (g)	12.1	12.1	6.1	6.1	none	none	none	none	none	none
complete round (g)	246	246	246	246	265	265	265	246	246	195
EXPLOSIVE TYPE	RDX	RDX+AL	RDX	RDX+AL	none	none	none	none	none	none
LENGTH (mm) complete round	184	184	184	184	182	182	182	184	184	184
MUZZLE VELOCITY (m/s)	845	845	845	845	844	844	844	845	845	none
SELF-DESTRUCTION TIME (s)	min3.5	min3.5	min3.5	min3.5	none	none	none	none	none	none
TRACER BURNING TIME (s)	-	-	3.5	3.5	3.5	-	3.5	3.5	-	-

## PACKING:

100 rounds in wooden case  
Case gross mass: 34kg  
W/C dimensions: 600mm x 232mm x 200mm  
Case volume: 0,030m<sup>3</sup>

## FOR MORE INFORMATION CONTACT US

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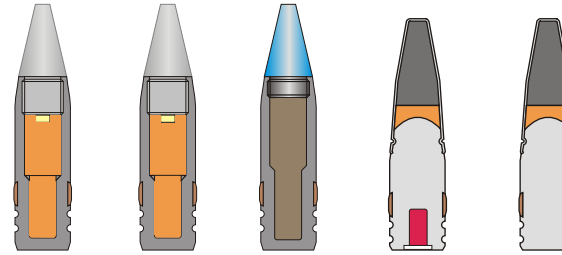
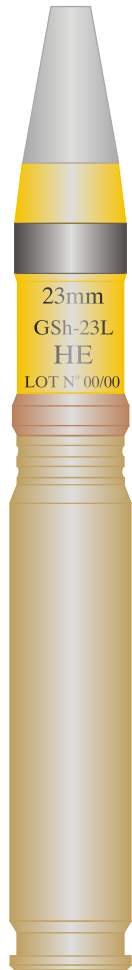
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# AMMUNITION 23mm x 115

## FOR AIRCRAFT GUN GSh-23L AND GSh-23LU



NATO DESIGNATION	HEI	HE	TP	API-T	API
WEIGHT					
projectile (g)	174	174	174	174	174
propellant (g)	37	37	37	37	37
explosive (g)	16.3	16.3	none	none	none
complete round (g)	329	329	329	331	331
EXPLOSIVE TYPE	RDX+AL	RDX	none	none	none
LENGHT (mm)					
complete round	197.9	197.9	197.9	197.8	197.8
MUZZLE VELOCITY (m/ s)	720	720	720	720	720
TRACER BURNING TIME (s)	none	none	none	3.5	none

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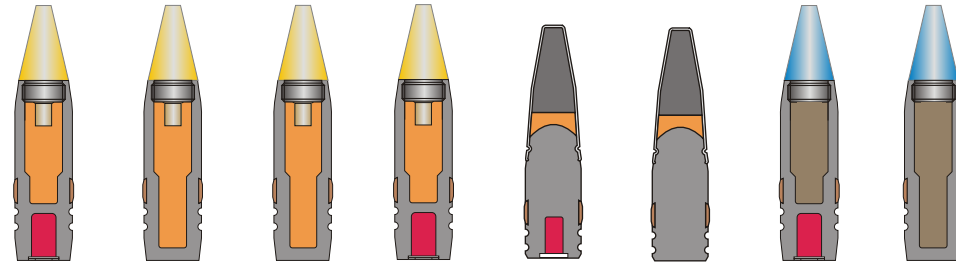
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# AMMUNITION 23mm x 152B FOR ANTI-AIRCRAFT GUN ZU-2 AND ZSU-4



NATO DESIGNATION	HEI-T	HEI	HE	HE-T	API-T	API	TP-T	TP
WEIGHT								
projectile (g)	190	182	182	190	190	190	190	182
propellant (g)	76	76	76	76	76	76	76	76
explosive (g)	16.3	19.6	19.6	16.3	5	5	none	none
complete round (g)	343.6	343.6	343.6	343.6	343.6	343.6	343.6	343.6
EXPLOSIVE TYPE	RDX+AL	RDX+AL	RDX	RDX	none	none	none	none
LENGHT (mm) complete round	236	236	236	236	236	236	236	236
MUZZLE VELOCITY (m/ s)	970	970	970	970	970	970	970	970
SELF-DESTRUCTION TIME (s)	5.6-11.2	5.6-11.2	5.6-11.2	5.6-11.2	none	none	none	none
TRACER BURNING TIME (s)	3.5	none	none	3.5	3.5	-	3.5	-

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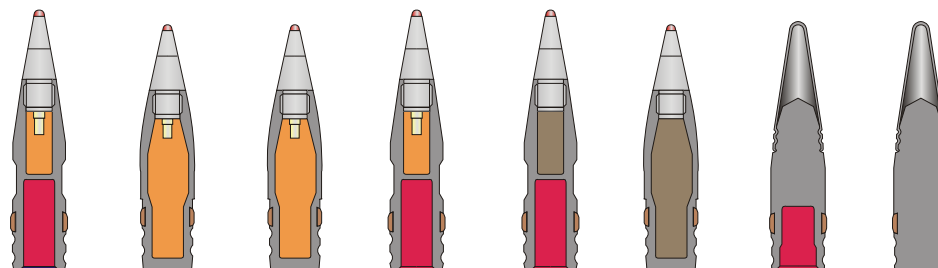
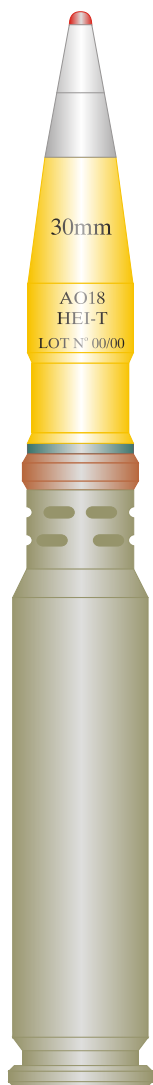
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# AMMUNITION 30mm x 165

## FOR ANTI-AIRCRAFT GUN 30mm AO 18



NATO DESIGNATION	HEI-T	HEI	HE	HE-T	TP-T	TP	AP-T	AP
WEIGHT								
projectile (g)	385	389	389	385	383	389	400	400
propellant (g)	121	121	121	121	121	121	126	126
explosive (g)	11.5	49	49	11.5	none	none	none	none
complete round (g)	835	839	839	835	835	839	853	853
EXPLOSIVE TYPE	RDX+AL	RDX+AL	RDX	RDX	none	none	none	none
LENGTH (mm) complete round	291	291	291	291	292	292	292	292
MUZZLE VELOCITY (m/ s)	890	890	890	890	890	890	890	890
SELF-DESTRUCTION TIME (s)	13-19	13-19	13-19	13-19	none	none	none	none
TRACER BURNING TIME (s)	10	none	none	10	10	none	3.5	none

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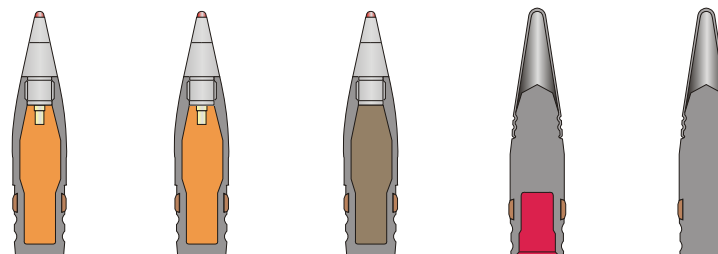
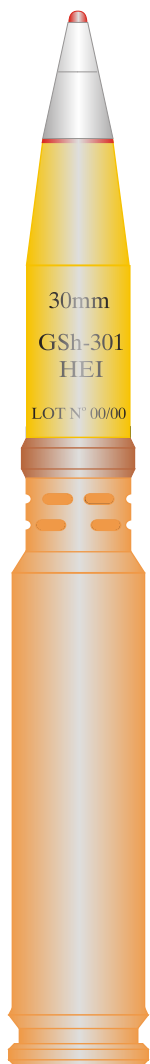
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# AMMUNITION 30mm x 165

## FOR AIRCRAFT GUN 30mm GSh 301



NATO DESIGNATION	HEI	HE	TP	AP-T	AP
WEIGHT					
projectile (g)	389	389	389	400	400
propellant (g)	121	121	121	126	126
explosive (g)	49	49	none	none	none
complete round (g)	840	840	840	850	850
EXPLOSIVE TYPE	RDX+AL	RDX	none	none	none
LENGHT (mm) complete round	290	290	290	292	292
MUZZLE VELOCITY (m/ s)	860	860	860	860	860
TRACER BURNING TIME (s)	none	none	none	3.5	none

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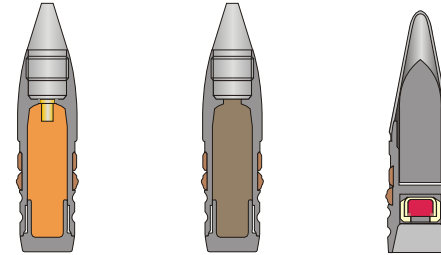
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# AMMUNITION 30mm x 210B

## FOR ANTI-AIRCRAFT GUN 30mm AK-230



NATO DESIGNATION	HEI	TP	AP-T
WEIGHT			
projectile (g)	356	356	350
propellant (g)	190	190	190
explosive (g)	31.1	none	none
complete round (g)	1066	1066	1050
EXPLOSIVE TYPE	RDX+A1	none	none
LENGHT (mm) complete round	304	304	304
MUZZLE VELOCITY (m/ s)	1060	1060	1095
SELF-DESTRUCTION TIME (s)	12-17	none	none
TRACER BURNING TIME (s)	none	none	min. 2

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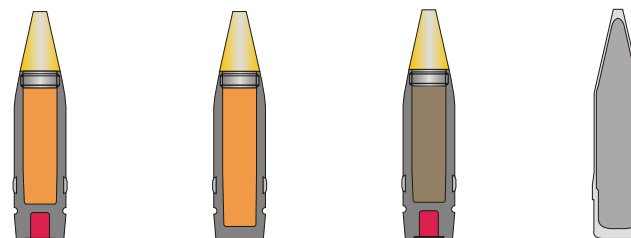
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# AMMUNITION 30mm x 220

## FOR ANTI-AIRCRAFT GUN 30/2 M53, 53/59 (CS)



NATO DESIGNATION	HEI-T	HEI	TP-T	BLANK
WEIGHT				
projectile (g)	435	435	435	min 250
propellant (g)	195	195	195	195
explosive (g)	35.7	40.8	none	non
complete round (g)	1140	1140	1140	min. 960
EXPLOSIVE TYPE	RDX+AL	RDX+AL	none	none
LENGHT (mm)				
complete round	331	331	331	331
MUZZLE VELOCITY (m/s)	997	997	997	
SELF-DESTRUCTION TIME (s)	6-30	6-30	none	none
TRACER BURNING TIME (s)	4	none	4	none

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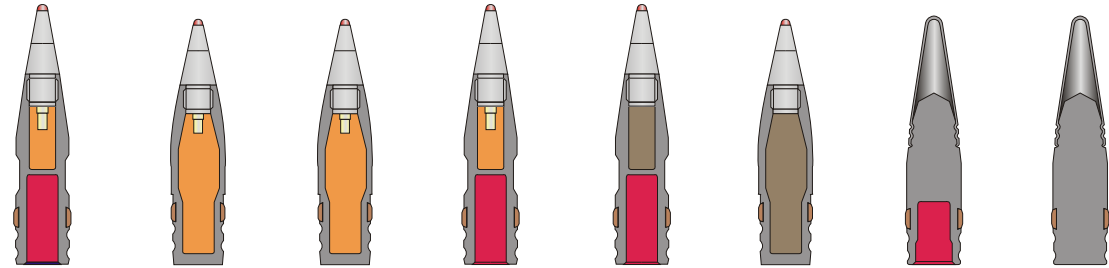
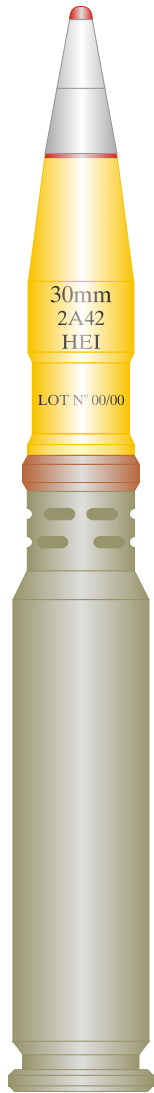
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# AMMUNITION 30mm x 165

## FOR ANTI-AIRCRAFT GUN 30mm 2A72, 2A42 AND 2A38M



NATO DESIGNATION	HEI-T	HEI	HE	HE-T	TP-T	TP	AP-T	AP
WEIGHT								
projectile (g)	385	389	385	385	385	389	400	400
propellant (g)	121	121	121	121	121	121	126	126
explosive (g)	11.5	49	49	11.5	none	none	none	none
complete round (g)	835	833	833	835	835	833	853	853
EXPLOSIVE TYPE	RDX+AL	RDX+AL	RDX	RDX	none	none	none	none
LENGHT (mm) complete round	291	292	292	291	291	291	292	292
MUZZLE VELOCITY (m/ s)	960	960	960	960	960	960	970	970
SELF-DESTRUCTION TIME (s)	7.5-14.5	7.5-14.5	7.5-14.5	7.5-14.5	none	none	none	none
TRACER BURNING TIME (s)	10	none	none	10	10	none	3.5	none

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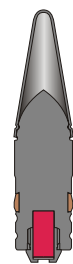
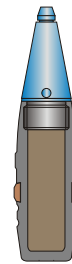
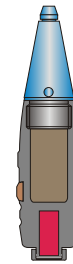
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# AMMUNITION 37mm x 252

## FOR ANTI-AIRCRAFT GUN 37mm M39 (SU)



NATO DESIGNATION	HEI-T	HE-T	HEI	HE	TP-T	TP	API-T	AP-T
WEIGHT								
projectile (g)	732	732	732	732	732	732	732	732
propellant (g)	200	200	200	200	200	200	200	200
explosive (g)	38	38	40	40	none	none	none	none
complete round (g)	1480	1480	1480	1480	1480	1480	1480	1480
EXPLOSIVE TYPE	RDX+AL	RDX	RDX+AL	RDX	none	none	none	none
LENGHT (mm) complete round	385	385	385	385	385	385	385	385
MUZZLE VELOCITY (m/s)	850	850	850	850	850	850	850	850
SELF-DESTRUCTION TIME (s)	7-14	7-14	7-14	7-14	none	none	none	none
TRACER BURNING TIME (s)	6	6	none	none	6	none	6	6

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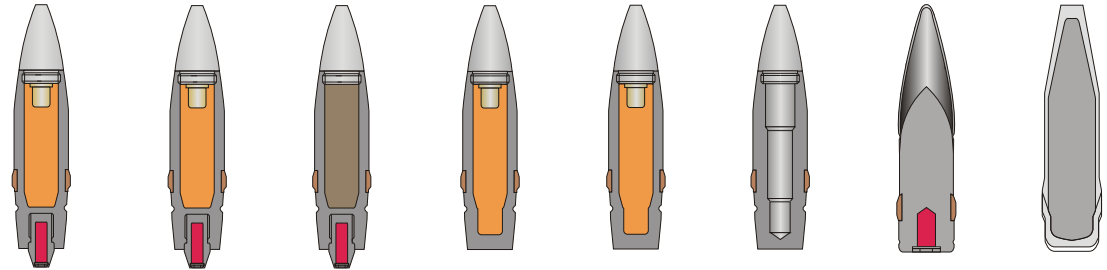
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# AMMUNITION 40mm x 311

## FOR ANTI-AIRCRAFT GUN 40mm L/60



NATO DESIGNATION	HEI-T	HE-T	TP-T	HEI	HE	TP	AP-T	BLANK
WEIGHT								
projectile (g)	910	910	910	910	910	910	900	800
propellant (g)	310	310	310	310	310	310	320	310
explosive (g)	78	78	78	78	78	none	none	none
complete round (g)	2100	2100	2100	2100	2100	2100	2120	1900
EXPLOSIVE TYPE	RDX+AL	RDX	none	RDX+AL	RDX	none	none	none
LENGHT (mm) complete round	447	447	447	447	447	447	447	447
MUZZLE VELOCITY (m/ s)	880	880	880	880	880	880	880	none
SELF-DESTRUCTION TIME (s)	8-12	8-12	8-12	8-12	8-12	8-12	none	none
TRACER BURNING TIME (s)	5	5	5	none	none	none	3.5	none

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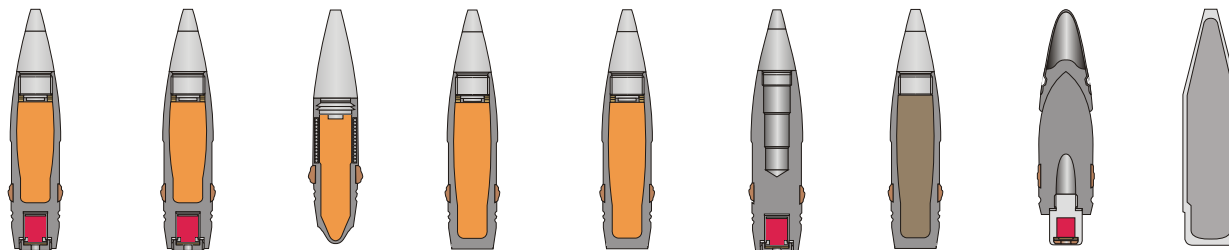
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# AMMUNITION 40mm x 365

## FOR ANTI-AIRCRAFT GUN 40mm L/70 "BOFORS"



NATO DESIGNATION	HEI-T	HE-T	PFHE	HE	HEI	TP-T	TP	AP-T	BLANK
WEIGHT									
projectile (g)	964	964	880	964	964	964	964	930	920
propellant (g)	480	480	480	480	480	480	480	480	480
explosive (g)	83	83	83	95	95	none	none	none	none
complete round (g)	2500	2500	2420	2500	2500	2500	2500	2470	2450
EXPLOSIVE TYPE	RDX+AL	RDX	RDX	RDX	RDX+AL	none	none	none	none
LENGHT (mm) complete round	535	535	534.5	535	535	535	535	497	535
MUZZLE VELOCITY (m/s)	1005	1005	1025	1005	1005	1005	1005	1025	none
SELF-DESTRUCTION TIME (s)	8-13	8-13	3.5-10	8-13	8-13	none	none	none	none
TRACER BURNING TIME (s)	4	4	-	-	-	4	-	4	-

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# ROUND 30mm HE, M93 P1



## NATO DESIGNATION

HE

MASS

360 g

LENGTH

132 mm

MUZZLE VELOCITY

185 m/s

MAXIMUM RANGE

1700 m

FUZE

type

UT - M99 SD

self destruction

27 s

fuze safe action limit

60 m

safety distance

10 m in front of barrel

## FOR MORE INFORMATION CONTACT US

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# ROUND 30mm HE DP, M04



## NATO DESIGNATION

HE DP

MASS

360 g

LENGTH

132 mm

MUZZLE VELOCITY

185 m/s

MAXIMUM RANGE

1700 m

FUZE

type

UT - M04 SD

self destruction

27 s

fuze safe action limit

60 m

safety distance

10 m in front of barrel

PERFORATION HOMOGENEOUST STEEL

40mm

## FOR MORE INFORMATION CONTACT US

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# ROUND 30mm PM, M93 P1



## NATO DESIGNATION

PM

MASS

360 g

LENGTH

132 mm

MUZZLE VELOCITY

185 m/s

MAXIMUM RANGE

1700 m

FUZE

type

UT - M02, PM-SD

self destruction

27 s

fuze safe action limit

60 m

safety distance

10 m in front of barrel

## FOR MORE INFORMATION CONTACT US

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# ROUND 40mm HE - M99



## NATO DESIGNATION

- Caliber ..... 40 mm
- Complete round length 104mm
- Mass of round ..... 260g
- Projectile length ..... 82mm
- Mass of projectile ..... 200g
- Muzzle velocity ..... 76m/s
- Arming distance of fuze 8m to 30m
- Maximum range ..... 400m

## PACKING

- 3 cartridge is packed in a polyethylene bag.
- 54 polyethylene bags into a cardboard box or wood case.
- Gross weight: 21 kg.

### FOR MORE INFORMATION CONTACT US

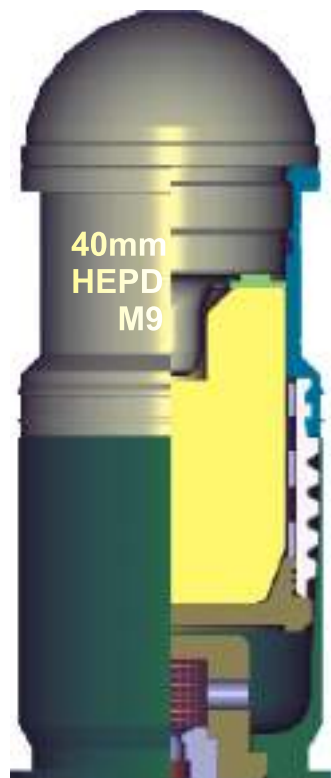
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# GRENADE 40mm x 46 HEPD-SD M99 (Point Detonating)



## NATO DESIGNATION

Caliber	40 mm
Complete grenade length	104 mm
Mass of grenade	250 g
Projectile length	82 mm
Mass of projectile	200 g
Mass of explosive (RDX)	48 g
Muzzle velocity	78 m/s
Arming distance of fuze	8m to 30m
Maximum range	400 m
Self destruction	15 to 20s

## PACKING

- 3 grenades is packed in a polyethylene bag
- 54 polyethylene bags into a cardboard box or wood case
- Gross weight: 53kg
- Dimensions: 410x240x520mm

## FOR MORE INFORMATION CONTACT US

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# GRENADE 40mm x 46 HEDP-SD M99 (Dual Purpose)



## NATO DESIGNATION

Caliber	40 mm
Complete grenade length	104 mm
Mass of grenade	250 g
Projectile length	82 mm
Mass of projectile	200 g
Mass of explosive (RDX)	35 g
Muzzle velocity	78 m/s
Arming distance of fuze	8m to 30m
Maximum range	400 m
Self destruction	15 to 20s
Penetration	min 25 mm (armour steel plate)

## PACKING

- 3 grenades is packed in a polyethylene bag
- 54 polyethylene bags into a cardboard box or wood case
- Gross weight: 53kg
- Dimensions: 410x240x520mm

## FOR MORE INFORMATION CONTACT US

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# GRENADE 40mm x 46 GREEN STAR WITH PARACHUTE - M99



## NATO DESIGNATION

Caliber	40 mm
Complete grenade length	104 mm
Mass of grenade	250 g
Projectile length	82 mm
Mass of projectile	200 g
Muzzle velocity	78 m/s
Delay time	2,5 to 3,5 s
Burning time of star	min 10 s
Light intensity of star	min 10000 cd
The high of parachute opening during firing at the angle of 45 ° (degrees)	min 150 m

## PACKING

- 3 grenades is packed in a polyethylene bag
- 54 polyethylene bags into a cardboard box or wood case
- Gross weight: 53kg
- Dimensions: 410x240x520mm

### FOR MORE INFORMATION CONTACT US

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# GRENADÉ 40mm x 46 RED STAR WITH PARACHUTE - M99



## NATO DESIGNATION

Caliber	40 mm
Complete grenade length	104 mm
Mass of grenade	250 g
Projectile length	82 mm
Mass of projectile	200 g
Muzzle velocity	78 m/s
Delay time	2,5 to 3,5 s
Burning time of star	min 10 s
Light intensity of star	min 20000 cd
The high of parachute opening during firing at the angle of 45 ° (degrees)	min 150 m

## PACKING

- 3 grenades is packed in a polyethylene bag
- 54 polyethylene bags into a cardboard box or wood case
- Gross weight: 53kg
- Dimensions: 410x240x520mm

### FOR MORE INFORMATION CONTACT US

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# ***GRENADE 40mm x 46 SMOKE GREEN - M99***



## **NATO DESIGNATION**

Caliber	40 mm
Complete grenade length	104 mm
Mass of grenade	250 g
Projectile length	82 mm
Mass of projectile	200 g
Muzzle velocity	78 m/s
Delay time	2,5 to 3,5 s
Smoke time	min 20 s
Firing range	50 to 400m

## **PACKING**

- 3 grenades is packed in a polyethylene bag
- 54 polyethylene bags into a cardboard box or wood case
- Gross weight: 53kg
- Dimensions: 410x240x520mm

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# ***GRENADE 40mm x 46 SMOKE RED - M99***



## **NATO DESIGNATION**

Caliber	40 mm
Complete grenade length	104 mm
Mass of grenade	250 g
Projectile length	82 mm
Mass of projectile	200 g
Muzzle velocity	78 m/s
Delay time	2,5 to 3,5 s
Smoke time	min 20 s
Firing range	50 to 400m

## **PACKING**

- 3 grenades is packed in a polyethylene bag
- 54 polyethylene bags into a cardboard box or wood case
- Gross weight: 53kg
- Dimensions: 410x240x520mm

### **FOR MORE INFORMATION CONTACT US**

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# ***GRENADE 40mm x 46 SMOKE WHITE - M99***



## **NATO DESIGNATION**

Caliber	40 mm
Complete grenade length	104 mm
Mass of grenade	250 g
Projectile length	82 mm
Mass of projectile	200 g
Muzzle velocity	78 m/s
Delay time	2,5 to 3,5 s
Smoke time	min 20 s
Firing range	50 to 400m

## **PACKING**

- 3 grenades is packed in a polyethylene bag
- 54 polyethylene bags into a cardboard box or wood case
- Gross weight: 53kg
- Dimensions: 410x240x520mm

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# ***GRENADE 40mm x 46 SMOKE YELLOW - M99***



## **NATO DESIGNATION**

Caliber	40 mm
Complete grenade length	104 mm
Mass of grenade	250 g
Projectile length	82 mm
Mass of projectile	200 g
Muzzle velocity	78 m/s
Delay time	2,5 to 3,5 s
Smoke time	min 20 s
Firing range	50 to 400m

## **PACKING**

- 3 grenades is packed in a polyethylene bag
- 54 polyethylene bags into a cardboard box or wood case
- Gross weight: 53kg
- Dimensions: 410x240x520mm

### **FOR MORE INFORMATION CONTACT US**

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# ***GRENADE 40mm x 46 SMOKE CS - M99***



## **NATO DESIGNATION**

Caliber	40 mm
Complete grenade length	104 mm
Mass of grenade	250 g
Projectile length	82 mm
Mass of projectile	200 g
Muzzle velocity	78 m/s
Delay time	1 to 1,5 s
Smoke time	min 20 s
Firing range	50 to 200m

## **PACKING**

- 3 grenades is packed in a polyethylene bag
- 54 polyethylene bags into a cardboard box or wood case
- Gross weight: 53kg
- Dimensions: 410x240x520mm

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# ***GRENADE 40mm x 46 STUN - M99***



## **NATO DESIGNATION**

Caliber	40 mm
Complete grenade length	104 mm
Mass of grenade	250 g
Projectile length	82 mm
Mass of projectile	200 g
Muzzle velocity	78 m/s
Delay time	1 to 1,5 s
Firing range	50 to 200 m
Sound intensity	120 dB

## **PACKING**

- 3 grenades is packed in a polyethylene bag
- 54 polyethylene bags into a cardboard box or wood case
- Gross weight: 53kg
- Dimensions: 410x240x520mm

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# GRENADe 40mm x 46 GREEN STAR WITH PARACHUTE - M99



## NATO DESIGNATION

Caliber	40 mm
Complete grenade length	104 mm
Mass of grenade	250 g
Projectile length	82 mm
Mass of projectile	200 g
Muzzle velocity	78 m/s
Delay time	2,5 to 3,5 s
Burning time of star	min 10 s
Light intensity of star	min 10000 cd
The high of parachute opening during firing at the angle of 45 ° (degrees)	min 150 m

## PACKING

- 3 grenades is packed in a polyethylene bag
- 54 polyethylene bags into a cardboard box or wood case
- Gross weight: 53kg
- Dimensions: 410x240x520mm

## FOR MORE INFORMATION CONTACT US

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# ***GRENADE 40mm x 46 BUCKSHOT - M99***



## **NATO DESIGNATION**

Caliber	40 mm
Complete grenade length	104 mm
Mass of grenade	260 g
Projectile length	82 mm
Mass of projectile	210 g
Muzzle velocity	78 m/s
Firing range	up to 50 m
Number of pellets	min 35
Pellet diameter	8 mm (0,33")

## **PACKING**

- 3 grenades are packed in a polyethylene bag
- 54 polyethylene bags into a cardboard box or wooden case
- Gross weight: 53kg
- Dimensions: 410x240x520mm

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# ***GRENADE 40mm x 46 FLASH - M99***



## **NATO DESIGNATION**

Caliber	40 mm
Complete grenade length	104 mm
Mass of grenade	250 g
Projectile length	82 mm
Mass of projectile	200 g
Muzzle velocity	78 m/s
Delay time	1 to 1,5 s
Firing range	50 to 200 m
Sound intensity	120 dB
Light intensity	2000000 cd

## **PACKING**

- 3 grenades is packed in a polyethylene bag
- 54 polyethylene bags into a cardboard box or wood case
- Gross weight: 53kg
- Dimensions: 410x240x520mm

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# GRENADE 40mm x 46 FLECHETTE - M99



## NATO DESIGNATION

Caliber	40 mm
Complete grenade length	104 mm
Mass of grenade	260 g
Projectile length	82 mm
Mass of projectile	210 g
Muzzle velocity	78 m/s
Firing range	50 to 100 m
Number of flechettes	min 50 pcs.
Length of flechettes	50 mm
Flechette diameter	2 mm

## PACKING

- 3 grenades are packed in a polyethylene bag
- 54 polyethylene bags into a cardboard box or wooden case
- Gross weight: 53kg
- Dimensions: 410x240x520mm

### FOR MORE INFORMATION CONTACT US

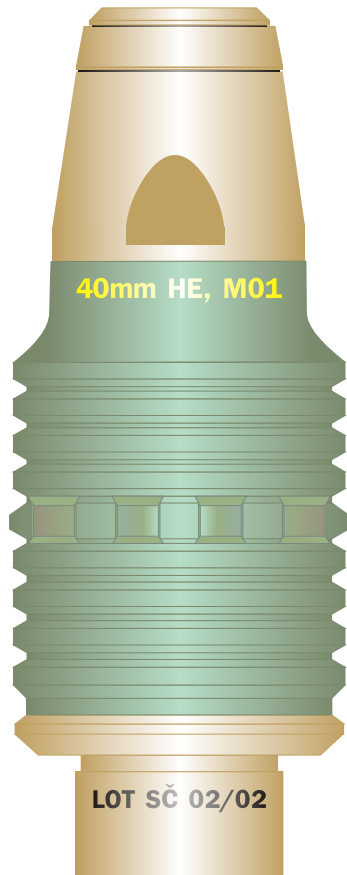
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# ROUND 40mm HE M01



## NATO DESIGNATION

HE

MASS	265 g
LENGTH	106 mm
MUZZLE VELOCITY	76 m/s
MAXIMUM RANGE	400 m
FUZE	
type	UT - M00 SD
self destruction	15 s
fuze safe action limit	50 m
safety distance	15 m in front of barrel

## GRENADE EFFECTS:

Must have min 100 penetrations through a board 20mm thick, at pen test D=20m and 1,5m high.

## ACTION OF FRAGMENTS IN FIELD:

100m in dia.

## GRENADE EFFECT:

Have 200 penetrations trough a board 20mm tick, at pen test D=10m and 1,5m high.

## FOR MORE INFORMATION CONTACT US

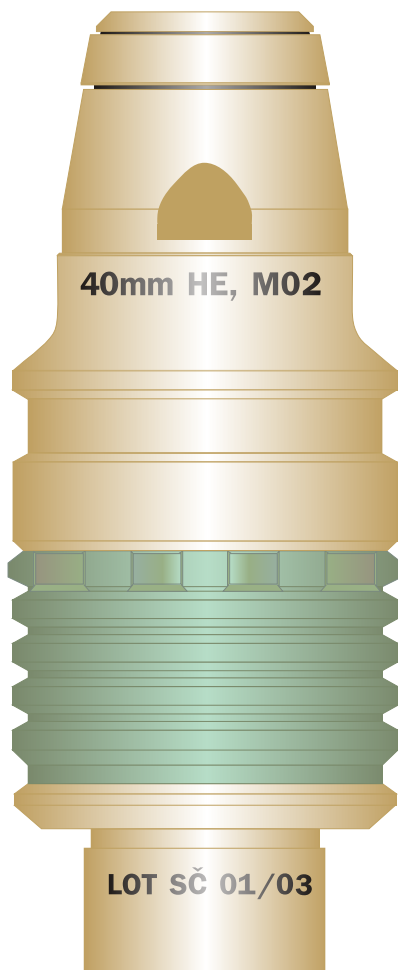
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# ROUND 40mm HE M02



## NATO DESIGNATION

HE

MASS	215 g
LENGTH	100 mm
MUZZLE VELOCITY	76 m/s
MAXIMUM RANGE	400 m
FUZE	
type	UT - M01 SD
self destruction	15 s
fuze safe action limit	18 m
safety distance	8 m in front of barrel

### FOR MORE INFORMATION CONTACT US

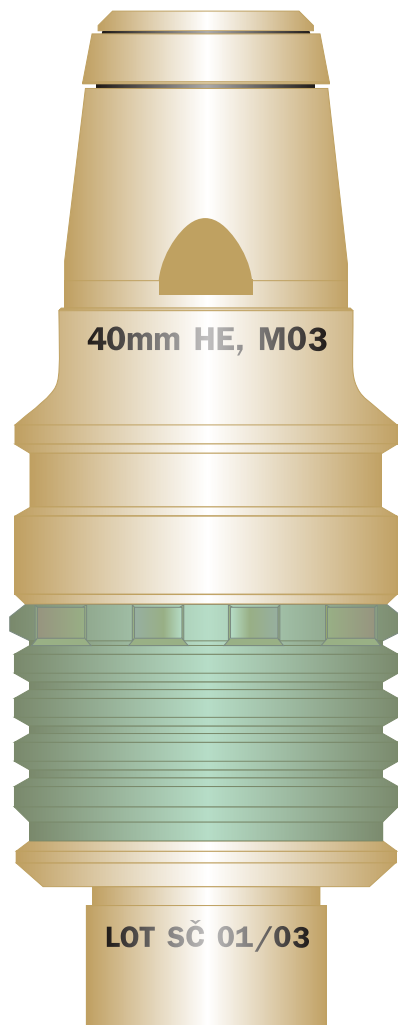
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# ROUND 40mm HE M03



## NATO DESIGNATION

HE

MASS	225 g
LENGTH	106 mm
MUZZLE VELOCITY	76 m/s
MAXIMUM RANGE	400 m
FUZE	
type	UT - M00 SD
self destruction	15 s
fuze safe action limit	50 m
safety distance	15 m in front of barrel

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# ROUND 40mm ILL



## NATO DESIGNATION

## ILLUMINATING

MASS	265 g
LENGTH	130 mm
MUZZLE VELOCITY	76 m/s
STAR BURNING TIME	min. 20 s
LIGHT INTENSITY	80000 cd
RANGE OF PARACHUTE OPENING AT FIRING UNDER 45°	250 m

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# ROUND 40mm S, M02



## NATO DESIGNATION

## SMOKE

MASS

250 g

LENGTH

115 mm

MUZZLE VELOCITY

75 m/s

MAXIMUM RANGE

400 m

SMOKE DURATION

90 s

### FOR MORE INFORMATION CONTACT US

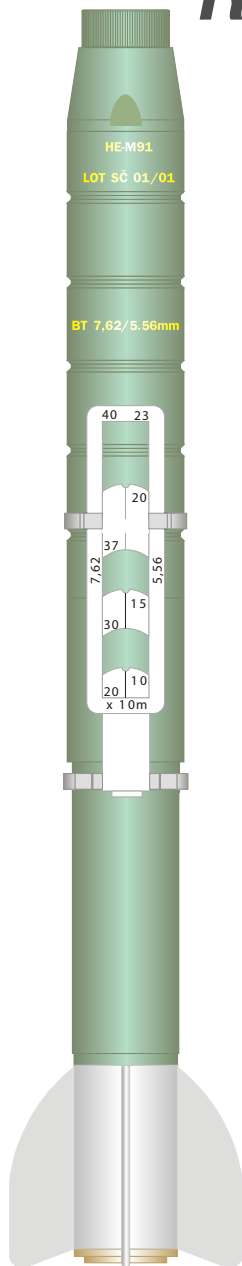
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# RIFLE GRENADE HE - M91, P1 WITH BULLET TRAP



CALIBER:	30mm
TYPE:	fragmentation
LENGTH:	315mm
MASS:	555
FUZE:	Impact, superquick action (UT - M91, P1)
SAFETY DISTANCE:	Min. 20m in front of barrel.
ARMING DISTANCE:	Grenade must act. upon cardboard 2mm thick, at the distance of 50m.
GRENADE EFFECT:	Must have min. 180 penetrations through a board 20mm thick, at pen test D=20m and 1,5m high.
ACTION ON FRAGMENTS IN FIELD:	100m in dia.
GRENADE EFFECT:	Have 350 penetrations trough a board 20mm tick, at pen test D=10m and 1,5m high.

## BALLISTIC DATA

	V <sub>o</sub> (m/s)	Accuracy	Range (m)	
			Under 14°	max 45°
5,56x45 SS 109	58	When firing at angle 14° the shot pattern in field is R <sub>max</sub> - R <sub>min</sub> = max 15m Span in travers max 3m.	150	300
7,62x51	72		250	450

## PACKING:

40 grenades per sheet metal box  
 1 box with 40 grenades in wooden case  
 Wooden case dimension 70 x 42 x 24 cm  
 Case gross mass 34 kg  
 Case volume 0,072 m<sup>3</sup>

## FOR MORE INFORMATION CONTACT US

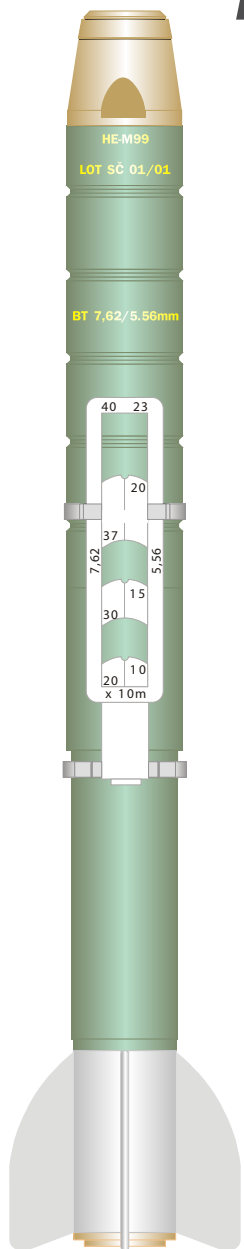
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# RIFLE GRENADE HE - M99 WITH BULLET TRAP



CALIBER:	30mm
TYPE:	fragmentation
LENGTH:	315mm
MASS:	555
FUZE:	Impact, superquick action, self destruction (UT - M00, SD)
SAFETY DISTANCE:	Min. 15m in front of barrel.
ARMING DISTANCE:	Grenade must act. upon cardboard 1mm thick, at the distance of 50m. Self destruction time 15s.
GRENADE EFFECT:	Must have min. 180 penetrations through a board 20mm thick, at pen test D=20m and 1,5m high.
ACTION ON FRAGMENTS IN FIELD:	100m in dia.
GRENADE EFFECT:	Have 350 penetrations trough a board 20mm tick, at pen test D=10m and 1,5m high.

## BALLISTIC DATA

	V <sub>o</sub> (m/s)	Accuracy	Range (m)	
			Under 14°	max 45°
5,56x45 SS 109 7,62x39	58	When firing at angle 14° the shot pattern in field is R <sub>max</sub> - R <sub>min</sub> = max 15m Span in travers max 3m.	150	300
7,62x51	72		250	450

## PACKING:

40 grenades per sheet metal box  
 1 box with 40 grenades in wooden case  
 Wooden case dimension 70 x 42 x 24 cm  
 Case gross mass 34 kg  
 Case volume 0,072 m<sup>3</sup>

## FOR MORE INFORMATION CONTACT US

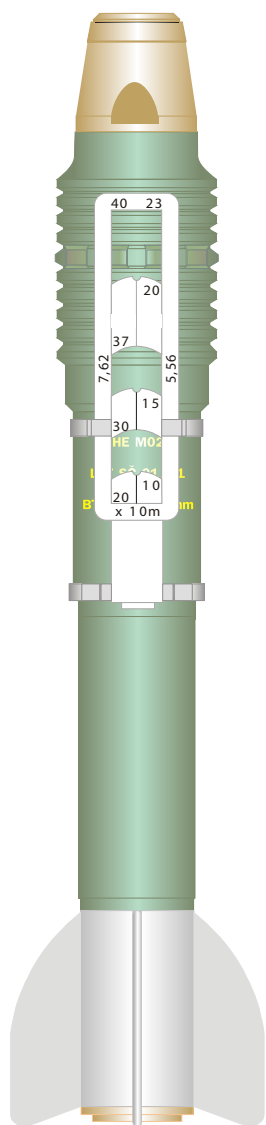
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# RIFLE GRENADE HE, BT - M02 WITH BULLET TRAP



- CALIBER: 40mm
- TYPE: fragmentation
- LENGTH: 270mm
- MASS: 450g
- FUZE: Impact, superquick action, self destruction (UT - M00, SD)
- SAFETY DISTANCE: Min. 15m in front of barrel.
- ARMING DISTANCE: Grenade must act. upon cardboard 1mm thick, at the distance of 50m. Self destruction time 15s.
- GRENADE EFFECT: Must have min. 100 penetrations through a board 20mm thick, at pen test D=20m and 1,5m high.
- ACTION ON FRAGMENTS IN FIELD: 100m in dia.
- GRENADE EFFECT: Have 200 penetrations trough a board 20mm tick, at pen test D=10m and 1,5m high.

## BALLISTIC DATA

	V <sub>0</sub> (m/s)	Accuracy	Range (m)	
			Under 14°	max 45°
5,56x45 SS 109	58	When firing at angle 14° the shot pattern in field is R <sub>max</sub> - R <sub>min</sub> = max 15m Span in travers max 3m.	150	350
7,62x51	72		300	500

## PACKING:

40 grenades per sheet metal box  
 1 box with 40 grenades in wooden case  
 Wooden case dimension 65 x 32 x 25 cm  
 Case gross mass 30 kg  
 Case volume 0,052 m<sup>3</sup>

## FOR MORE INFORMATION CONTACT US

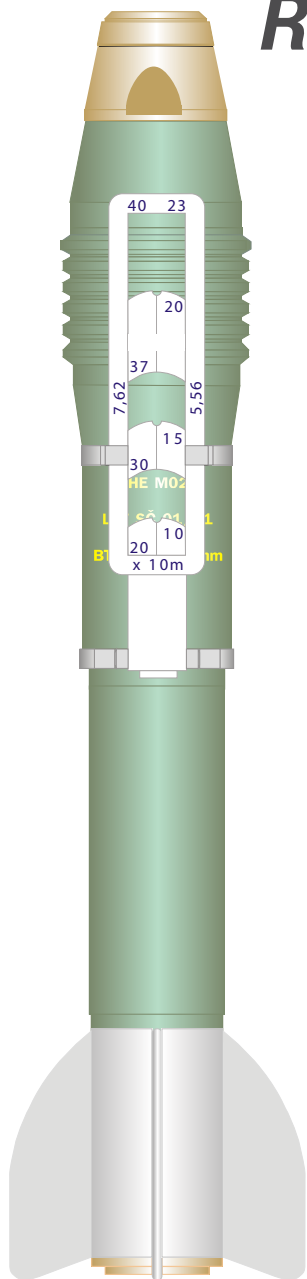
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# RIFLE GRENADE HE, BT - M03 WITH BULLET TRAP



CALIBER:	40mm
TYPE:	fragmentation
LENGTH:	265mm
MASS:	400g
FUZE:	Impact, superquick action, self destruction (UT - M01, SD)
SAFETY DISTANCE:	Min. 8m in front of barrel.
ARMING DISTANCE:	Grenade must act. upon cardboard 1mm thick, at the distance of 30m. Self destruction time 15s.
GRENADE EFFECT:	Must have min. 100 penetrations through a board 20mm thick, at pen test D=20m and 1,5m high.
ACTION ON FRAGMENTS IN FIELD:	100m in dia.
GRENADE EFFECT:	Have 200 penetrations trough a board 20mm tick, at pen test D=10m and 1,5m high.

## BALLISTIC DATA

	V <sub>0</sub> (m/s)	Accuracy	Range (m)	
			Under 14°	max 45°
5,56x45 SS 109 7,62x39	58	When firing at angle 14° the shot pattern in field is R <sub>max</sub> - R <sub>min</sub> = max 15m Span in travers max 3m.	150	400
7,62x51	72		300	450

## PACKING:

40 grenades per sheet metal box  
 1 box with 40 grenades in wooden case  
 Wooden case dimension 65 x 32 x 25 cm  
 Case gross mass 30 kg  
 Case volume 0,052 m<sup>3</sup>

## FOR MORE INFORMATION CONTACT US

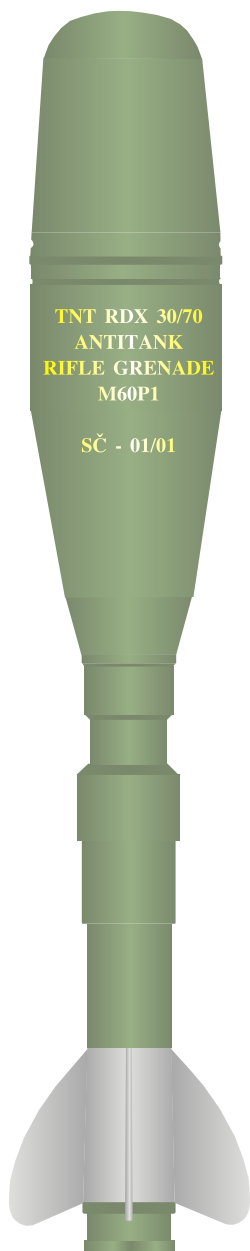
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# RIFLE GRENADE, ANTITANK M60



CALIBER: 60mm  
TYPE: ANTITANK  
LENGTH: 390mm  
MASS: 610g

## PACKING:

20 grenades per sheet metal box  
1 box with 20 grenades in wooden case  
Wooden case dimension 45 x 45 x 35 cm  
Case gross mass 28 kg  
Case volume 0,071 m<sup>3</sup>

$V_0$ mean [m/s]	Accuracy [cm] at 100 m H + L	Efficient Range [m]	max 45° 330
61	175	150	

Penetration at 100 m  
Penetrating armour - plate, 200 mm in thickness

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# RIFLE GRENADE, SMOKE M62



CALIBER: 40mm  
TYPE: smoke  
LENGTH: 330mm  
MASS: 475g

## PACKING:

40 grenades per sheet metal box  
1 box with 40 grenades in wooden case  
Wooden case dimension 65 x 32 x 25 cm  
Case gross mass 32 kg  
Case volume 0,065 m<sup>3</sup>

$V_0$ mean [M/S]	Time of burning delay element	Range [m] max 45 <sup>0</sup>	Time of smoke screening [s]
70	7.5	350	70-100

## FOR MORE INFORMATION CONTACT US

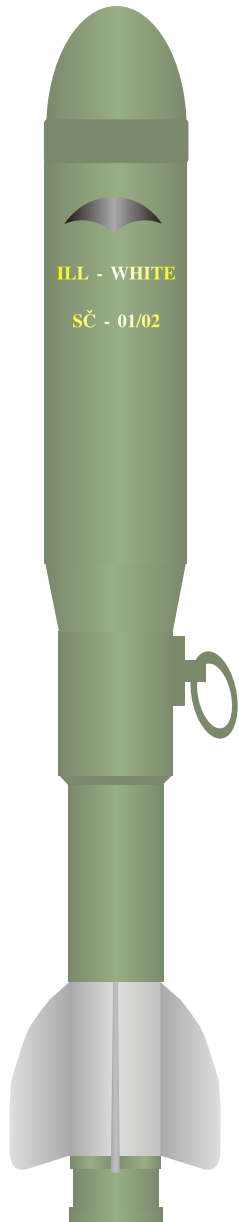
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# RIFLE GRENADE, Illuminating M62



CALIBER: 40mm  
TYPE: ILLUMINATING  
LENGTH: 330mm  
MASS: 450g

## PACKING:

40 grenades per sheet metal box  
1 box with 40 grenades in wooden case  
Wooden case dimension 65 x 40 x 25 cm  
Case gross mass 31 kg  
Case volume 0,065 m<sup>3</sup>

$V_0$ mean [m/s]	Time of burning delay element	Time of flare burning [s]	Intensity of illuminating [Cd]	Range of parachute opening at firing under 45°
71	4.3-5.1	min 24	70-100	200 m

## FOR MORE INFORMATION CONTACT US

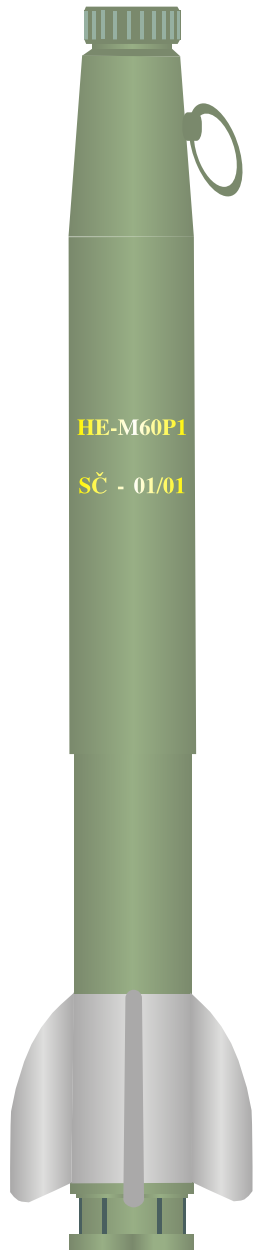
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# RIFLE GRENADE, FRAGMENTATION



CALIBER: 30mm  
TYPE: FRAGMENTATION  
LENGTH: 307mm  
MASS: 520g

## PACKING:

40 grenades per sheet metal box  
1 box with 40 grenades in wooden case  
Wooden case dimension 64 x 38 x 23 cm  
Case gross mass 36 kg  
Case volume 0,057 m<sup>3</sup>

$V_{0 \text{ mean}}$   
[m/s]

67

## Accuracy

When firing at angle 14° the  
shot pattern in field is:  
 $H_{\text{max}} - H_{\text{min}} = \text{max } 15 \text{ m}$   
Span in traverse max 3 m

## Range [m]

under 14°

200

max 45°

410

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# 64mm HAND ANTITANK ROCKET RBR M80



CALIBER:	64mm
TYPE:	HEAT
LENGTH IN TRAVELING POSITION:	800 mm
LENGTH IN COMBAT POSITION:	1200 mm
MASS:	3200 g
FUZE:	Piezoelectric, superquick of contact type, safe (UT PE M80 SP)
MUZZLE VELOCITY:	187 m/s
EFFECTIVE RANGE:	200 m
MAXIMUM RANGE:	1280 m
PENETRATION:	> 300 mm

## PACKING

The unit is packed in travelling position, in a vacuumed polyethylene bag, 4 units thus packed being then put in a wooden case on holders used to fix the unit. Cases are adapted for any form of transportation and carrying and for paratropping. The mass of such packing is appr. 25 kg.

## FOR MORE INFORMATION CONTACT US

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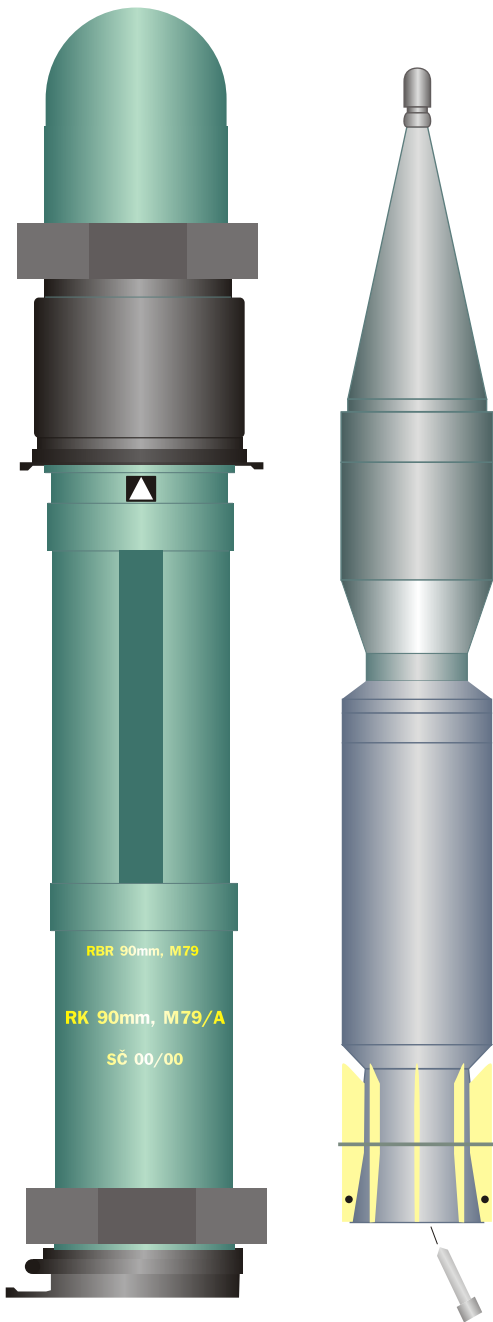
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# 90mm ROCKET HEAT, M79A

## FOR HAND ROCKET LAUNCHER 90mm M79



CALIBER:	90mm
TYPE:	HEAT
LENGTH:	672 mm
MASS:	3630 g
FUZE:	Impact, superquick, piezoelectric with self destruction (UT PE M80 SP)
MUZZLE VELOCITY:	245 m/s
EFFECTIVE RANGE:	350 m
MAXIMUM RANGE:	1960 m
PENETRATION:	> 450 mm (on homogeneous armour plate)

### PACKING

1 rocket in 1 container	
3 container in wooden case	
Wooden case dimensions (cm)	80 x 46 x 22
Case gross mass (kg)	25.3
Case volume (m <sup>3</sup> )	0.07976

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# RBR 120mm M90 LIGHT ANTITANK WEAPON



CALIBER:	120mm
TYPE:	HEAT
LENGTH:	1350 mm
MASS:	13 kg
FUZE:	Piezzo-electric, superquick, of contact type, safe (UT PE M91 SP)
MUZZLE VELOCITY:	205 m/s
EFFECTIVE RANGE:	250 m
MAXIMUM RANGE:	1960 m
PENETRATION:	> 800 mm (on homogeneous armour plate)

## PACKING

2 rocket in wooden case		
Wooden case dimensions (cm)	145 x 53 x 30	
Case gross mass (kg)	56	
Case volume (m <sup>3</sup> )	0.30	

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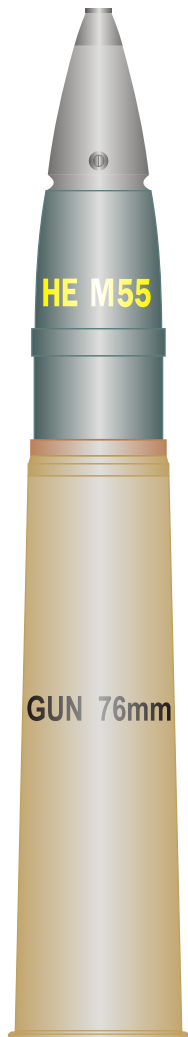
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# ROUND 76mm, SEPARATE LOADED FOR GUN 76mm M48B1



## PACKING:

3 rounds in wooden case  
 Wooden case dimension 77 x 47 x 17 cm  
 Case gross mass 24.4 kg  
 Case volume 0,0615 m<sup>3</sup>

## NATO DESIGNATION

### WEIGHT

projectile (kg)

explosive (kg)

propeling charge (kg)

cartridge case (kg)

### EXPLOSIVE TYPE

### LENGTH (mm)

projectile

cartridge case

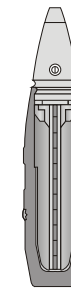
MUZZLE VELOCITY (m/ s)

MAXIMUM RANGE (m)

FUZE: Impact, superquick and delay action



HE  
Shell M55



SMOKE  
Shell M60

HE

SMOKE

Shell M55

Shell M60

6.2

5.9

0.43

0.45

0.32

0.32

1.55

1.55

TNT

WP

343

343

385

385

398

398

8750

8750

UTI M68

UTI M68

## FOR MORE INFORMATION CONTACT US

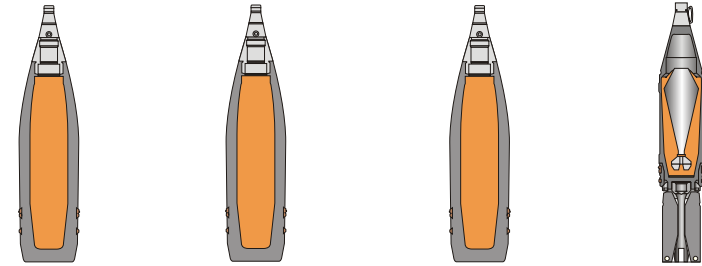
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# ROUND 100mm, FIXED FOR GUN 100mm ON TANK T55, SPG 100mm M44 AND COAST GUN 100mm M87



## NATO DESIGNATION

### WEIGHT

projectile (kg)  
propellant (kg)  
explosive (kg)  
complete round (kg)

### EXPLOSIVE TYPE

### LENGTH (mm)

(complete round)  
projectile  
cartridge case

### MUZZLE VELOCITY (m/ S)

### MAXIMUM RANGE (m)

### PENETRATION (mm)

### TRACER BURNING TIME (s)

FUZE: Impact, superquick and delay action

\* combat range

HE shell M63	HE shell M63P1	HE shell M63P2	HEAT-T shell M69
--------------	----------------	----------------	------------------

15.6	15.6	15.6	12.2
5.5	5.5	5.5	4.25
1.41	1.48	1.58	1.00
30	30	30	25.6
TNT	TNT	RDX+A1	RDX
1095	1095	1095	1094
492	492	492	638
695	695	695	695
900	900	900	900
20618	20618	20618	3000*
-	-	-	300
-	-	-	5

UTU M72B1	UTU M72B1	UTU M72B1	UTU M72B1
-----------	-----------	-----------	-----------

### PACKING:

2 rounds in wooden case  
Wooden case dimension 126 x 44 x 26 cm  
Case gross mass 21.8 kg  
Case volume 0,144 m<sup>3</sup>

### FOR MORE INFORMATION CONTACT US

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# ROUND 105mm, SEMI FIXED FOR HOWITZERS

## 105mmM56, M18/61, M2A1 AND M4



PACKING:

2 rounds in wooden case  
 Wooden case dimension 95 x 31 x 20 cm  
 Case gross mass 16.8 kg  
 Case volume 0,057 m<sup>3</sup>

### NATO DESIGNATION

### WEIGHT

projectile (kg)

explosive (kg)

propelling charge (kg)

cartridge case (kg)

EXPLOSIVE TYPE

LENGTH (mm)

projectile

cartridge case

MUZZLE VELOCITY (m/ s)

MAXIMUM RANGE (m)

FUZE: Impact, superquick and delay action



HE  
Shell M1 A1



SMOKE  
Shell M60

HE  
ER-BB

HE  
M02

	HE Shell M1 A1	HE ER-BB	SMOKE Shell M60	HE M02
projectile (kg)	15.1	14	15.2	13,5
explosive (kg)	2.15	2,2	1.85	2,2
propelling charge (kg)	1.31	2,0	1.31	2,0
cartridge case (kg)	2.68	2.68	2.68	2.68
EXPLOSIVE TYPE	TNT	TNT	WP	TNT
LENGTH (mm)				
projectile	496	560	496	560
cartridge case	372	372	372	372
MUZZLE VELOCITY (m/ s)	491 (M56, M18/61) 472 (M2A1, M4)	685	491, 472	685
MAXIMUM RANGE (m)	11620 (M56, M18/61), 11275 (M2A1, M4)	18000	11620, 11275	15000
FUZE: Impact, superquick and delay action	UTU M72 B1	UTU M72 B1	UTU M72 B1	UTU M72 B1

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# ROUND 105mm, SEMI FIXED FOR HOWITZERS 105mm M56 HE ER M02



## PACKING:

2 rounds in wooden case  
 Wooden case dimension 9 5 x 3 1 x 2 0 cm  
 Case gross mass with two rounds 50 kg  
 Case volume 0,05 7 m<sup>3</sup>

## NATO DESIGNATION

HE ER

## WEIGHT

projectile (kg)	13
explosive (kg)	2.15
propelling charge (kg)	2
cartridge case (kg)	2.68

## EXPLOSIVE TYPE

TNT

## LENGTH (mm)

projectile with fuze	565
cartridge case	372

## MUZZLE VELOCITY (m/s)

675

## MAXIMUM RANGE (m)

14000

## FUZE: Impact, super quick and delay action

UTIU M02

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# ROUND 105mm, SEMI FIXED FOR HOWITZERS 105mm M56/33; M2A1 HE ER M02



## PACKING:

2 rounds in wooden case  
 Wooden case dimension 95 x 31 x 20 cm  
 Case gross mass with two rounds 50 kg  
 Case volume 0,057 m<sup>3</sup>

## NATO DESIGNATION

HE ER

## WEIGHT

projectile (kg)	13
explosive (kg)	2.15
propelling charge (kg)	2
cartridge case (kg)	2.68

## EXPLOSIVE TYPE

TNT

## LENGTH (mm)

projectile with fuze	565
cartridge case	372

## MUZZLE VELOCITY (m/s)

675

## MAXIMUM RANGE (m)

15000

## FUZE: Impact, super quick and delay action

UTIU M02

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# ROUND 105mm, SEMI FIXED FOR HOWITZERS 105mm M56 HE ER-BB M02



## PACKING:

2 rounds in wooden case

Wooden case dimension

95 x 31 x 20 cm

Case gross mass with two rounds

50 kg

Case volume

0,057 m<sup>3</sup>

## NATO DESIGNATION

HE  
ER-BB

## WEIGHT

projectile (kg)

14.070

explosive (kg)

2,15

propelling charge (kg)

2,2

cartridge case (kg)

2.68

## EXPLOSIVE TYPE

TNT

## LENGTH (mm)

projectile with fuze

565

cartridge case

372

## MUZZLE VELOCITY (m/s)

670

## MAXIMUM RANGE (m)

17000

FUZE: Impact, super quick and delay action

UTIU M02

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# ROUND 105mm, SEMI FIXED FOR HOWITZERS 105mm HE ER-BB M02



## PACKING:

2 rounds in wooden case  
 Wooden case dimension 95 x 31 x 20 cm  
 Case gross mass with two rounds 50 kg  
 Case volume 0,057 m<sup>3</sup>

## NATO DESIGNATION

HE  
ER-BB

## WEIGHT

projectile (kg)	14.070
explosive (kg)	2,15
propelling charge (kg)	2,2
cartridge case (kg)	2.68

## EXPLOSIVE TYPE

TNT

## LENGTH (mm)

projectile with fuze	565
cartridge case	372

## MUZZLE VELOCITY (m/s)

670

## MAXIMUM RANGE (m)

18000

FUZE: Impact, super quick and delay action

UTIU M02

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# ROUND 122mm, SEPARATED LOADED FOR HOWITZER D-30, D30J AND SP 2S1



PACKING:

2 rounds in wooden case  
 Wooden case dimension 98 x 50 x 23 cm  
 Case gross mass 21.512 kg  
 Case volume 0,1118 m<sup>3</sup>

## NATO DESIGNATION

## WEIGHT

projectile (kg)  
 explosive (kg)  
 propelling charge (kg)  
 cartridge case (kg)

## EXPLOSIVE TYPE

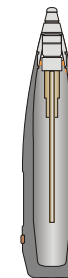
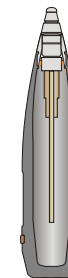
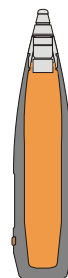
## LENGTH (mm)

projectile  
 cartridge case

## MUZZLE VELOCITY (m/ s)

## MAXIMUM RANGE (m)

FUZE: Impact, superquick and delay action



	HE Shell TF-462A1	HE Shell TF-462A1	SMOKE M60	SMOKE M60
projectile (kg)	21.88	21.88	21.76	21.76
explosive (kg)	3.60	3.60	3.60	3.73
propelling charge (kg)	2.47 reduced charge	3.80 full charge	2.47 reduced charge	3.80 full charge
cartridge case (kg)	3.66	3.66	3.66	3.66
EXPLOSIVE TYPE	TNT	TNT	WP	WP
LENGTH (mm)				
projectile	561	561	561	561
cartridge case	447	447	447	447
MUZZLE VELOCITY (m/ s)	565	690	565	690
MAXIMUM RANGE (m)	12840	15300	12840	15300
FUZE: Impact, superquick and delay action	UTU M72 B1	UTU M72 B1	UTU M72 B1	UTU M72 B1

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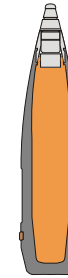


# ROUND 122mm, SEPARATED LOADED FOR HOWITZER 122mm M38



## PACKING:

2 rounds in wooden case  
Wooden case dimension 98 x 50 x 23 cm  
Case gross mass 24.512 kg  
Case volume 0,1118 m<sup>3</sup>



HE  
Shell TF-462A1

## NATO DESIGNATION

### WEIGHT

projectile (kg)

21.88

explosive (kg)

3.60

propelling charge (kg)

2.20

cartridge case (kg)

2.94

### EXPLOSIVE TYPE

TNT

### LENGTH (mm)

projectile

561

cartridge case

284

### MUZZLE VELOCITY (m/ s)

515

### MAXIMUM RANGE

11800

FUZE: Impact, superquick and delay action

UT - PE M87

## FOR MORE INFORMATION CONTACT US

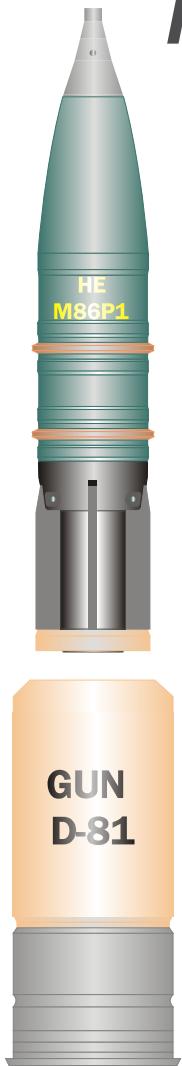
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# ROUND 125mm, SEPARATE LOADED FOR TANK GUN D-81, TM (2A46)



## PACKING:

1 rounds in wooden case  
 Wooden case dimension 81 x 41 x 21 cm  
 Case gross mass 22 kg  
 Case volume 0,07 m<sup>3</sup>

## NATO DESIGNATION

### WEIGHT

projectile (kg)

explosive (kg)

propelling charge (kg)

increment charge (kg)

EXPLOSIVE TYPE

LENGTH (mm)

projectile

cartridge case

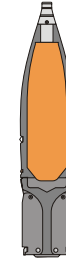
MUZZLE VELOCITY (m/ s)

MAXIMUM RANGE (m)

TRACER BURNING TIME (s)

FUZE: Impact, superquick and delay action

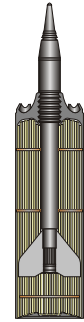
\* combat range



HE  
Shell M86P1



HEAT-T  
Shell M88



APFSDS-T  
M88

23

3.35

5

-

TNT/RDX

675

138

850

12220

-

UTU - PE M87

19

1.76

5

-

HMX

678

138

905

1010\*

5

UTU - PE M87

3.61

-

5

3.40

-

591

138

1800

2120\*

4.5

UTU - PE M87

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# ROUND 130mm, SEPARATE LOADED FOR GUN 130mm M46



HE  
Shell M79

HE  
Shell M79

## NATO DESIGNATION

### WEIGHT

projectile (kg)

33.40

33.40

explosive (kg)

3.64

3.64

propelling charge (kg)

13.50 full charge M46

6.75 reduced charge M46

cartridge case (kg)

11.35

11.35

### EXPLOSIVE TYPE

TNT

TNT

### LENGTH (mm)

projectile

671

671

cartridge case

846

846

### MUZZLE VELOCITY (m/ s)

930

705

### MAXIMUM RANGE (m)

27490

19310

### FUZE

Impact point detonating  
and delay action

Impact, superquick,  
piezo-electric

## FOR MORE INFORMATION CONTACT US

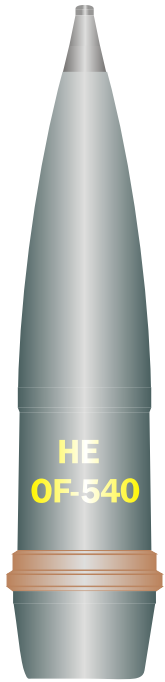
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# ROUND 152mm, SEPARATE LOADED FOR GUN-HOWITZER D-20



## NATO DESIGNATION

### WEIGHT

projectile (kg)

explosive (kg)

propelling charge (kg)

cartridge case (kg)

### EXPLOSIVE TYPE

### LENGTH (mm)

projectile

cartridge case

MUZZLE VELOCITY (m/s)

MAXIMUM RANGE (m)

### FUZE



HE  
Shell OF-540



HE  
Shell OF-540

projectile (kg)	43	43
explosive (kg)	5.86	5.86
propelling charge (kg)	8.80 full charge	4.20 reduced charge
cartridge case (kg)	7.50	7.50
EXPLOSIVE TYPE	TNT	TNT
LENGTH (mm)		
projectile	700	700
cartridge case	547.5	547.5
MUZZLE VELOCITY (m/s)	655	511
MAXIMUM RANGE (m)	17400	13400
FUZE	Impact point detonating and delay action	Impact point detonating and delay action

## FOR MORE INFORMATION CONTACT US

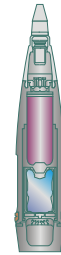
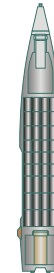
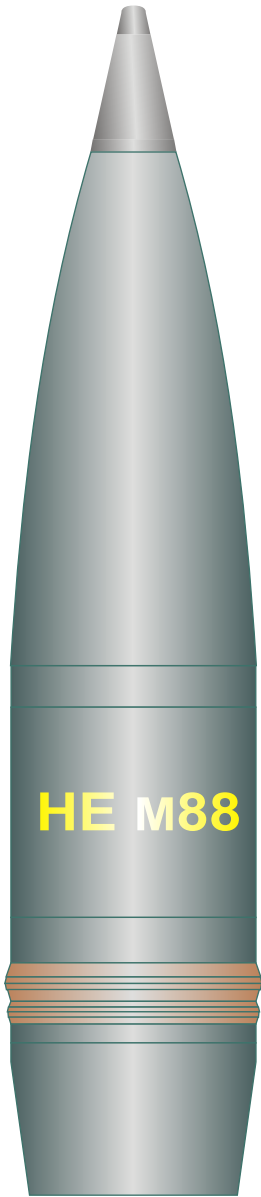
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# ROUND 155mm, FOR HOWITZERS M198, FH70, FH77, M109 A2 AND GHN 45



## NATO DESIGNATION

### WEIGHT

projectile (kg)

42.6

46.3

-

explosive (kg)

8.0

-

-

EXPLOSIVE TYPE

TNT

RDX

-

LENGTH (mm)

projectile

807

900

-

FUZE

PD M572P or similar

M762 or M577A1 or similar

M762 or M577A1 or similar

LUMINOSITY (Cd)

-

-

1000000

Ballistical data depends on howitzers type and propelling charge type

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# SIGNAL AMMUNITION 26,5mm ABC/LP 57



## DESIGNATION

ABC/ LP 57

LENGTH

170 mm

HEIGHT OF CLIMBING

200 ± 25 m

BURNING TIME

6 ± 1,5 s

PIPE DURATION

6 ± 1,5 s

LIGHT INTENSITY

10000 cd

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# ***SIGNAL AMMUNITION 26,5mm yellow with parachute /LP 57***



## DESIGNATION

YELLOW  
WITH PARACHUTE/ LP 57

LENGTH	150 mm
HEIGHT OF CLIMBING	85 ± 15 m
BURNING TIME	> 12 S
LIGHT INTENSITY	20000 cd
COLOR SATURATION	> 78%
MIDDLE WAVE LENGTH	589 ± 3

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# **SIGNAL AMMUNITION 26,5mm white/LP 57**



## DESIGNATION

WHITE/ LP 57

LENGTH	80 mm
HEIGHT OF CLIMBING	120 ± 20 m
BURNING TIME	8 ± 1s
LIGHT INTENSITY	20000 cd
COLOR SATURATION	< 58%
MIDDLE WAVE LENGTH	580 ± 3 nm

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# SIGNAL AMMUNITON 26,5mm rot/LP 57



## DESIGNATION

RED/ LP 57

LENGTH

80 mm

HEIGHT OF CLIMBING

120 ± 20 m

BURNING TIME

8 ± 1 s

LIGHT INTENSITY

20000 cd

COLOR SATURATION

> 70%

MIDDLE WAVE LENGTH

609 ± 3 nm

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# **SIGNAL AMMUNITION 26,5mm smoke, violet/LP 57**



**DESIGNATION**

**SMOKE  
VIOLET/ LP 57**

**LENGTH**

**80 mm**

**HEIGHT OF CLIMBING**

**120 ± 20 m**

- \* The smoke composition starts burning directly before the smoke cartouch reaches the trajectory apex and emits smoke until cartouch fall to the ground.

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# SIGNAL AMMUNITION 26,5mm green/LP 57



## DESIGNATION

GREEN/ LP 57

LENGTH	80 mm
HEIGHT OF CLIMBING	120 ± 20 m
BURNING TIME	8 ± 1s
LIGHT INTENSITY	10000 cd
COLOR SATURATION	< 58%
MIDDLE WAVE LENGTH	580 ± 3 nm

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# CARTRIDGE 38mm, ILLUMINATION - ONE PART



## TECHNICAL DATA

- Caliber ..... 38mm
- Length ..... 70mm
- Burning time ..... 5s
- Light intensity ..... 3x1 20.000Cd
- Maximum height fired at 45° 70m

## PACKING

- 5 cartridges is packed in a polyethylene bag.
- 20 polyethylene bags into a cardboard box or wood case.

### FOR MORE INFORMATION CONTACT US

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# ***CARTRIDGE 38mm, ILLUMINATION - THREE PART***



## **TECHNICAL DATA**

- Caliber ..... 38mm
- Length ..... 70mm
- Burning time ..... 5s
- Light intensity ..... 3x1 20.000Cd
- Maximum height fired at 45° 70m

## **PACKING**

- 5 cartridges is packed in a polyethylene bag.
- 20 polyethylene bags into a cardboard box or wood case.

### **FOR MORE INFORMATION CONTACT US**

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# CARTRIDGE 38mm, ILLUMINATION - SIGNAL

## TECHNICAL DATA

- Caliber ..... 38mm
- Length ..... 70mm
- Burning time ..... 5s
- Light intensity ..... 3x120.000Cd
- Maximum height ..... 80m
- light intensity:
  - red ..... 40.000 Cd
  - green ... 20.000 Cd
  - white ... 100.000 cd

## PACKING

- 5 cartridges is packed in a polyethylene bag.
- 20 polyethylene bags into a cardboard box or wood case.



### FOR MORE INFORMATION CONTACT US

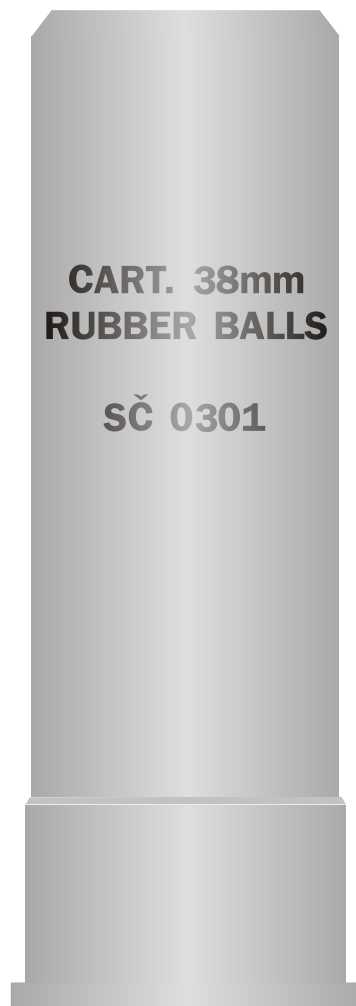
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# CARTRIDGE 38mm, ILLUMINATION - SIGNAL



## TECHNICAL DATA

- Caliber ..... 38mm
- Length ..... 123mm
- Mass of cartridge ..... 120g
- Max. range ..... 150m
- Number of balls ..... 28kom
- Start speed ..... 100m/ s

## PACKING

- 5 cartridges is packed in a polyethylene bag.
- 20 polyethylene bags into a cardboard box or wood case.

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# CARTRIDGE 38mm, STUN



## TECHNICAL DATA

- Caliber ..... 38mm
- Length ..... 137.5mm
- Delay time ..... 2s
- Sound intensity ..... 120dB
- Mass of cartridge ..... 190g

## PACKING

- 5 cartridge is packed in a polyethylene bag.
- 20 polyethylene bags into a cardboard box or wood case.

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# GRENADE HAND SMOKE



## TECHNICAL DATA

- Caliber ..... 45 mm
- Length ..... 130 mm
- Delay time ..... 3 s
- Smoke time ..... 60 s
- Mass of grenade ... 240 g

## PACKING

- 1 grenade is packed in a polyethylene bag.
- 36 grenades in polyethylene bags are packed into a wood case with metal sheet box.
- Net mass of the case ..... 8.5 kg.
- Gross mass of the case ..... 19 kg.
- Volume of the case ..... 0.044 m<sup>3</sup>.

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# GRENADE HAND STUN



## TECHNICAL DATA

- Caliber ..... 45mm
- Length ..... 130mm
- Delay time ..... 3s
- Sound intensity ..... 120dB
- Mass of grenade ... 180g

## PACKING

- 1 grenade is packed in a polyethylene bag.
- 36 grenades in polyethylene bags are packed into a wood case with metal sheet box.
- Net mass of the case ..... 6.5kg.
- Gross mass of the case ..... 17kg.
- Volume of the case ..... 0.044 m<sup>3</sup>.

### FOR MORE INFORMATION CONTACT US

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# GRENADE HAND STUN AND FLASH



## TECHNICAL DATA

- Caliber .....	45 mm
- Length .....	130 mm
- Delay time .....	3 s
- Sound intensity .....	120 dB
- Mass of grenade...	180 g
- Light intensity .....	200000 cd

## PACKING

- 1 grenade is packed in a polyethylene bag.
- 36 grenades in polyethylene bags are packed into a wood case with metal sheet box.
- Net mass of the case ..... 6.5kg.
- Gross mass of the case ..... 17kg.
- Volume of the case ..... 0.044 m<sup>3</sup>.

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# FLAMBEAU



## TECHNICAL DATA

- Caliber ..... 25mm
- Length ..... 105mm
- Delay time ..... 11s
- Intensity of illuminating 30000Cd
- Mass ..... 77g

## PACKING

- 10 flambeau is packed in a polyethylene bag.
- 20 polyethylene bags into a cardboard box or wood case.

### FOR MORE INFORMATION CONTACT US

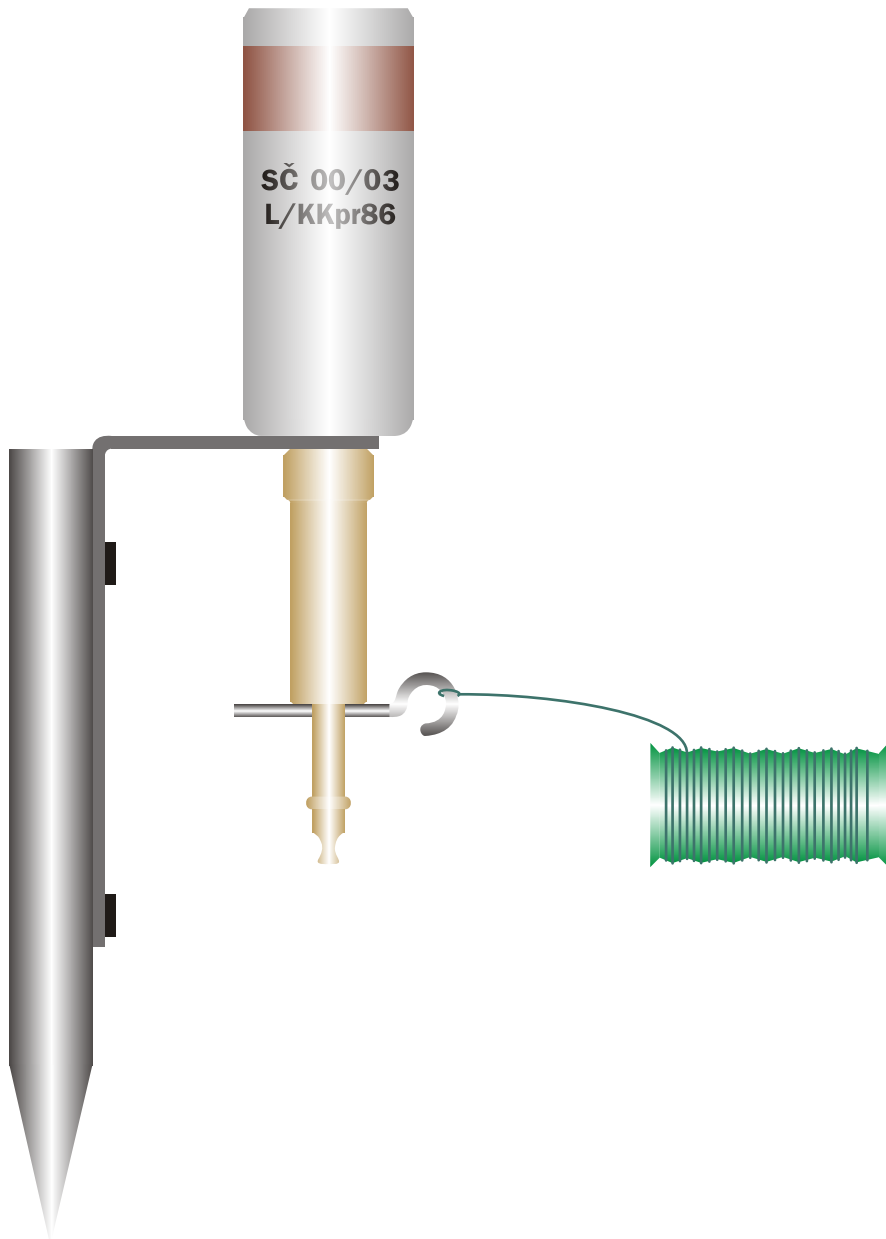
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# SHOT CARTRIDGE, ILLUMINATING



## NATO DESIGNATION

Calibre	26,5 mm
Complete cartridge length	114 mm
Cartridge weight	90 g
Burning time of illuminating signal	min 15 s
Light intensity of the illuminating signal	min 10000 cd
Sound signal force	min 115 dB
Hight of the rising of sound signal	min 10 m

## PACKING

- 25 pieces of cartridges are packed into a small wooden box
- 4 small wooden boxes are packed into a wooden case
- Net weight of the wooden case is 24 kg
- Gross weight of the wooden case is 30 kg
- Cubic capacity of the wooden case is 0,046 m<sup>3</sup>

## FOR MORE INFORMATION CONTACT US

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