

MP 7 / UCP

CLOSE RANGE WEAPON SYSTEM

4.6MM X 30



HECKLER & KOCH

Conception: RA Marc Roth
Tech. realization: Andi Franke / RA Marc Roth / Sandra Schreiner

BAE SYSTEMS



MP 7

Close Range Weapon From „NBW“ to „MP7 A1“



2003 MP7 A1 – Close Range Weapon / 4.6 x 30

2001 MP7 – Close Range Weapon



1999 PDW - Personal Defence Weapon / 4.6 x 30



1989 NBW – Nahbereichswaffe / 4.73 x 25 caseless



1989 HK / GIAT
Close Range Weapon Program / 5.7 x 22 GIAT



User groups

Personal Defence Military

(non combatants 70%
of the armed forces)



Law Enforcement



VIP-protection (Law Enforcement and Military)



Special Forces (Military and Law Enforcement)



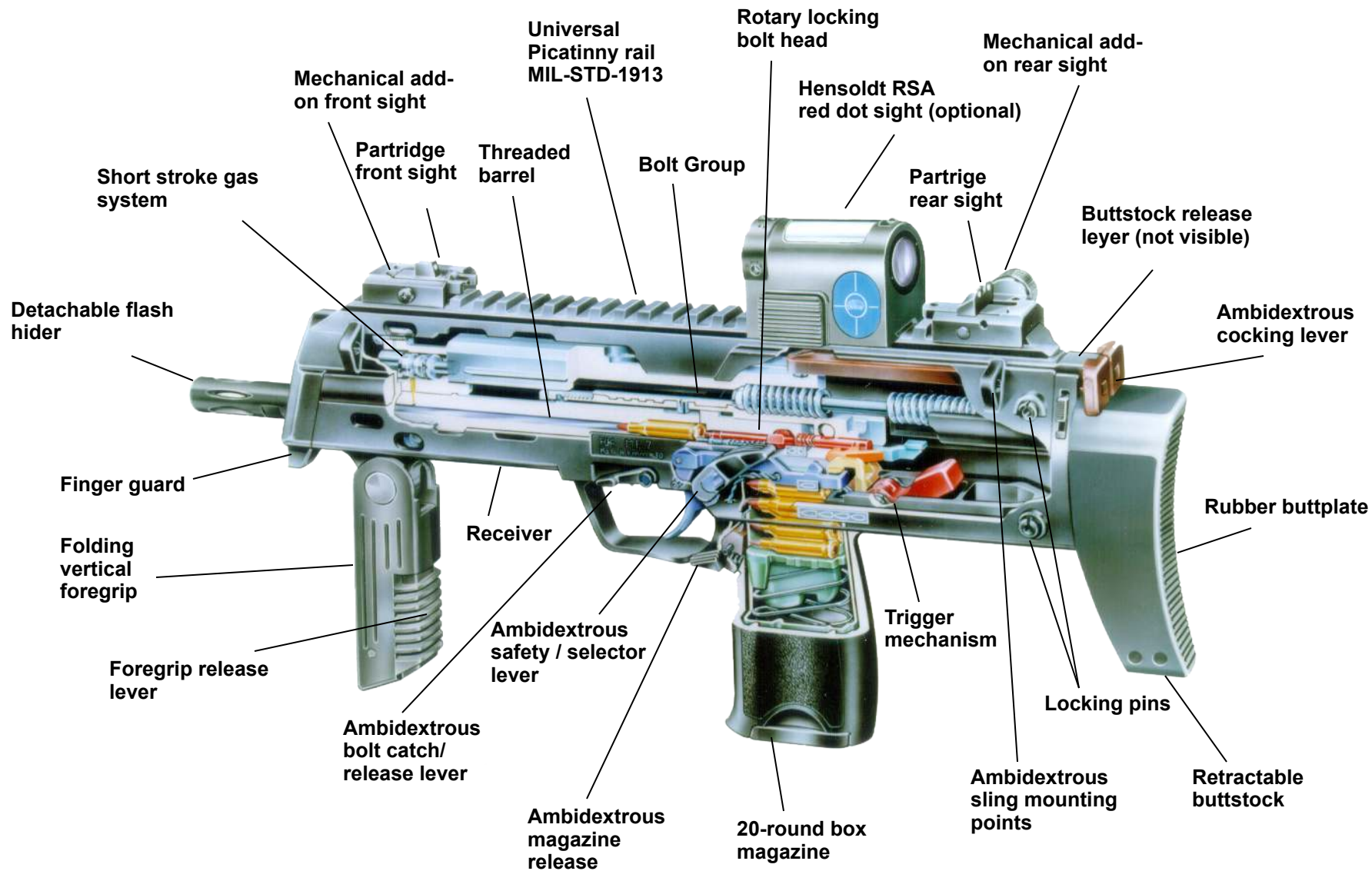
MP 7

4.6 mm x 30
Close Range Weapon MP7 A1



MP 7

4.6 mm x 30 Cut away view



MP 7

4.6 mm x 30
Side views



MP 7

4.6 mm x 30
Weapon with Hensoldt RSA, silencer and 40 round magazine

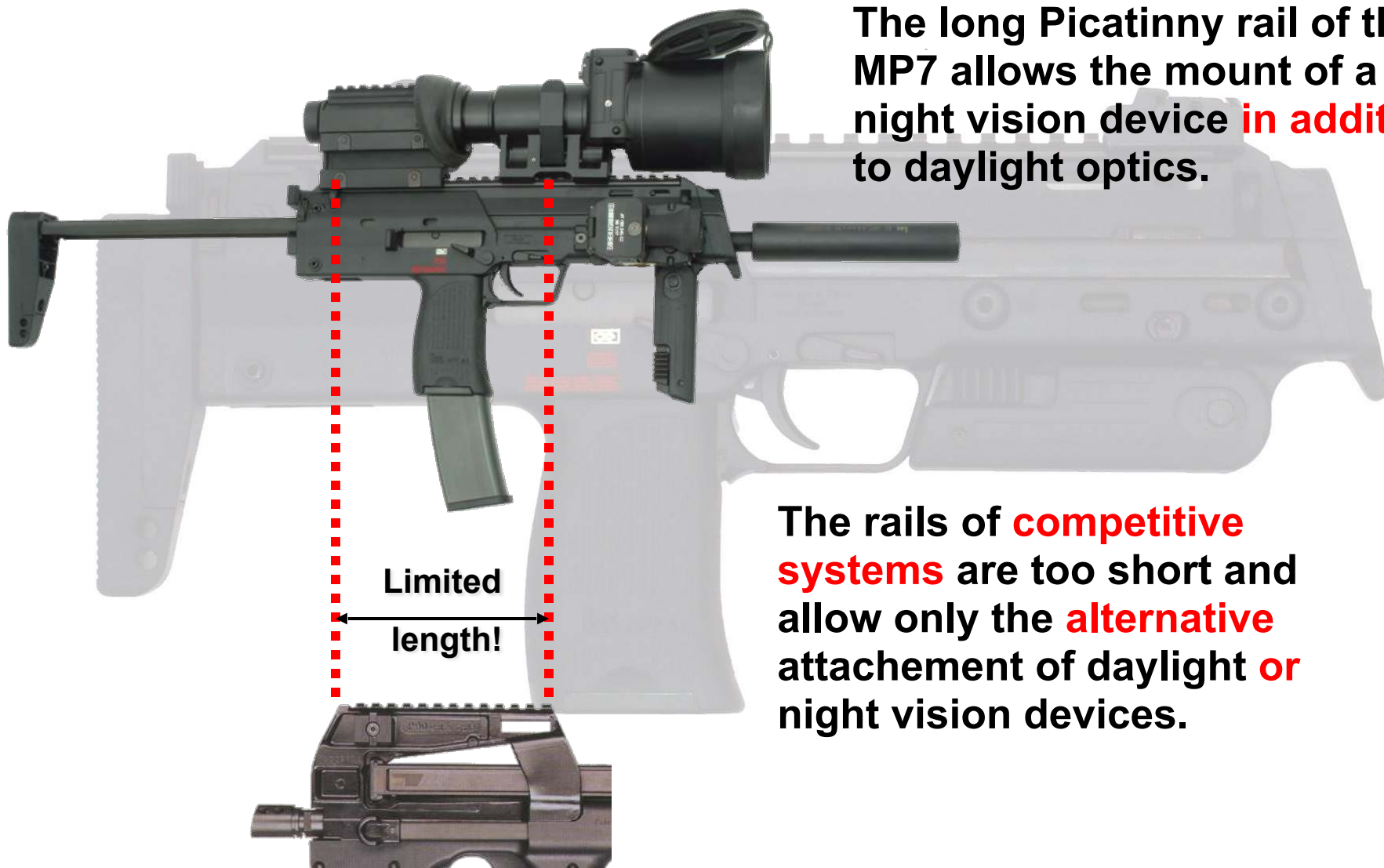


MP 7

4.6 mm x 30
Full nightfighting capability



The long Picatinny rail of the MP7 allows the mount of a night vision device **in addition** to daylight optics.



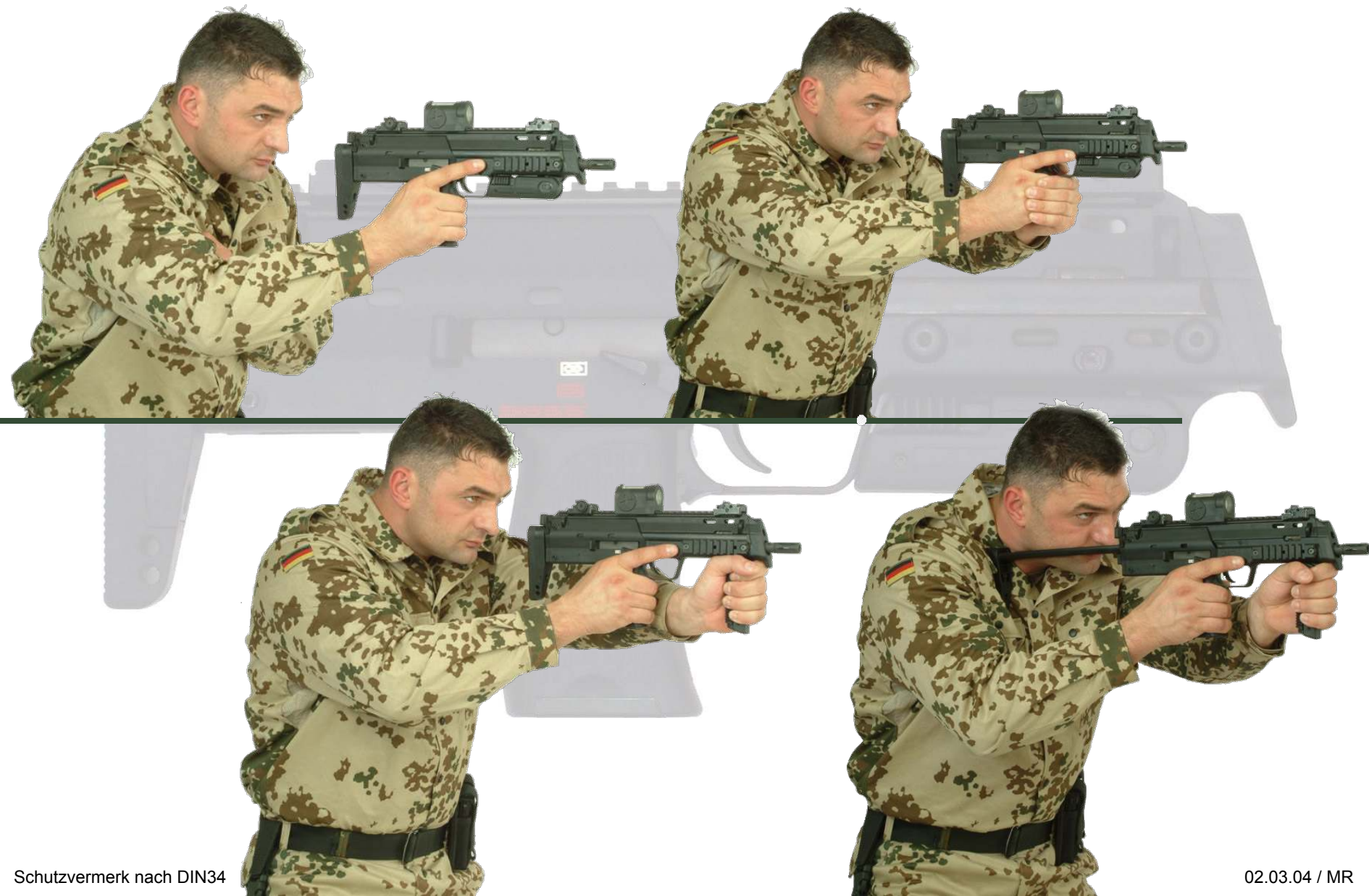
The rails of **competitive systems** are too short and allow only the **alternative** attachment of daylight **or** night vision devices.

- Small lightweight high performance caliber -> penetrates NATO-CRISAT structure (1,6 mm titanium and 20 layers of kevlar) up to 200 meters „Combat Steel“ / 300 meters („Ultimate Combat“)
- Can be fired with one hand
- Small dimensions -> length: 54/34 cm; width: 42 mm
- Extremely lightweight -> 1.9 kg!
- MIL-STD-1913 (Picatinny) rail system
- Small high performance silencer (430 g)
- Red dot/iron sight combination
- Universal use (defence and attack)
- Adopted by german special forces (KSK), VIP protection group of german Military Police and US Forces for VIP protection
- Combat proven (Afghanistan)
- VIP protection of Chairman of the NATO Military Committee
- VIP protection in Bosnia and Kosovo (german Military Police)
- VIP protection Dubai Police (World Banker's Conference 2003)



MP 7

4.6 mm x 30
Firing Positions



MP 7

4.6 mm x 30
Firing Positions



MP 7

4.6 mm x 30
Carrying Modes



Carrying Sling with quick release clip



Flexible
Carrying Sling



Quick Release
Harness
(for concealed carrying)



Thigh
Rig

MP 7

4.6 mm x 30
Flexible Carrying Sling

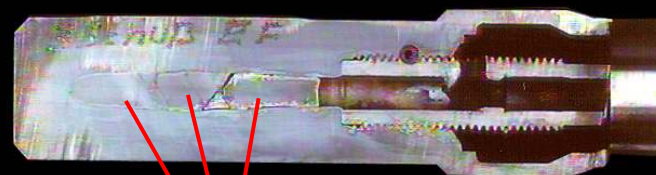




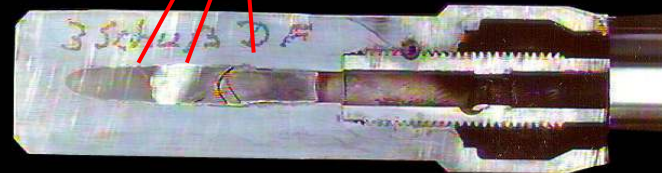
Safety first!

Cutaway View SMPG
3 rounds „Combat Steel“ fired

Semi Auto



Bullets

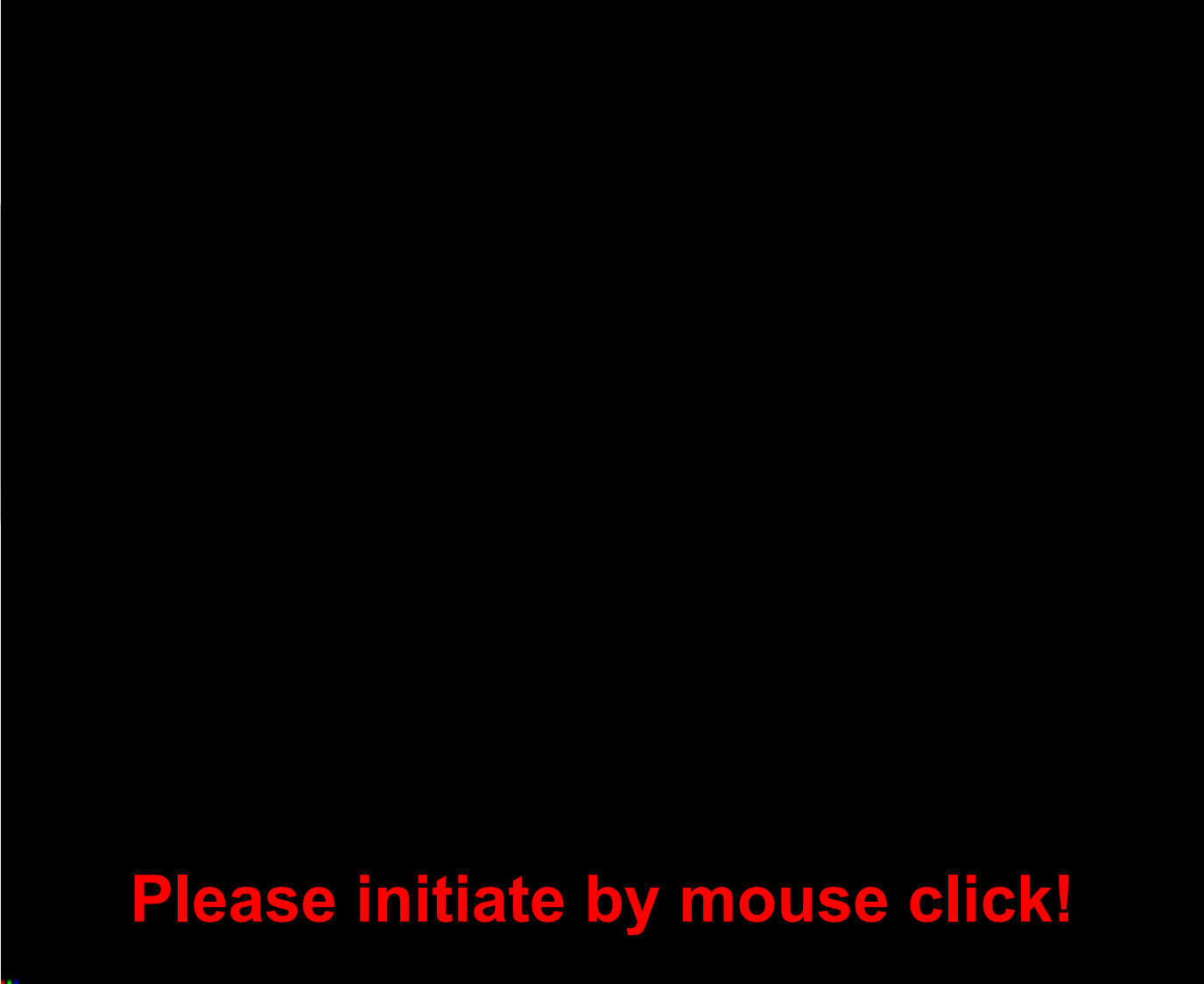


Full Auto

MP 7

4.6 mm x 30
Desert Trials in Yuma, Arizona – Sand Test





Please initiate by mouse click!

MP 7

4.6 mm x 30
Desert Trials in Yuma, Arizona – Sludge Test



MP 7

4.6 mm x 30
Desert Trials in Yuma, Arizona – Sludge Test



Please initiate by mouse click!

UCP

4.6 mm x 30 Ultimate Combat Pistol



Preliminary Datas

(Pistol under development)

Principle:	<i>Delayed blowback</i>	Width:	<i>34 mm</i>
Caliber:	<i>4.6 mm x 30</i>	Weight without magazine:	<i>590 g</i>
Length:	<i>180 mm</i>	Weight (magazine + 20 rds):	<i>690 g</i>
Barrel length:	<i>122 mm</i>	Magazine capacity:	<i>10/20 Cartridges</i>
Sight radius :	<i>160 mm</i>	Trigger System:	<i>CDA (Combat Defence Action) DAO (Double Action Only) SA/DA Single Action/Double Action</i>
Height :	<i>140 mm</i>	Special features:	<i>Picatinny rail (MIL-STD-1913) Exchangeable grip inserts Universal suppressor fits MP7A1, UCP</i>



	7,62 x 51 NATO	5,56 x 45 NATO	9mm x 19 NATO	.40 S&W	.45 Auto (M1911)	4,6 x 30	7,62 x 39 (M43)	5,45 x 39 (AK 74)	7,62 x 25 (Tokarev)
Cartridge weight	24.2 gr (.85 oz.)	12.3 gr (.43 oz.)	12.4 gr (.44 oz.)	14.8 gr (.52 oz.)	21.4 gr (.76 oz.)	6.2 gr (.22 oz.)	18.1 gr (.64 oz.)	10.5 gr (.37 oz.)	11.0 gr (.38 oz.)
Combat weight (identical total weight)	120 Cartr.	240 Cartr.	235 Cartr.	200 Cartr.	135 Cartr.	470 Cartr.	160 Cartr.	280 Cartr.	265 Cartr.

That means, the 4.6mm x 30 cartridge allows the double combat load, compared to 5.56 NATO, 9mm x 19 NATO and .40 S+W; compared to 7.62 NATO and .45 Auto even three times more.



MP 7

4.6 mm x 30

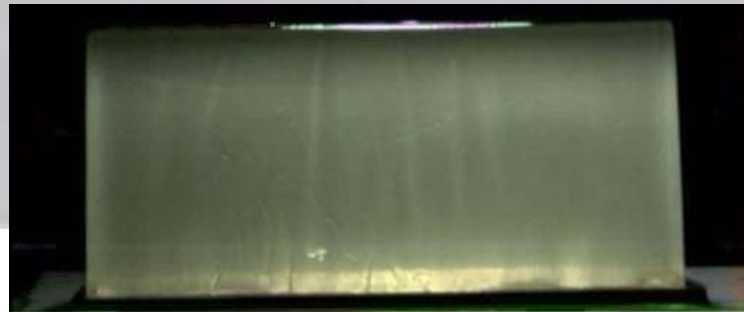
Comparative Firing Trials: Unprotected Target



9 mm x 19
(Full Metall Jacket
Softcore,
NATO Standard)

.45 Auto
(Full Metall Jacket
Softcore,
Mod. 1911 A1 230 grs)

4.6 mm x 30
„Combat Steel“



MP5

UMP

MP7

Range: 25 Meters / Gelatine: 10%; Dimensions: 35 x 15 x 15 cm (13.8 x 5.9 x 5.9 in.)

Please initiate each film by mouse click!

9 mm x 19
(Full Metall Jacket
Softcore,
NATO Standard)



MP5

.45 Auto
(Full Metall Jacket
Softcore,
Mod. 1911 A1, 230 grs)



UMP

4.6 mm x 30
„Combat Steel“



MP7

Range: 25 Meters / Gelatine: 10%; Dimensions: 35 x 15 x 15 cm (13.8 x 5.9 x 5.9 in.)

MP 7

4.6 mm x 30

Comparative Firing Trials: Soft target behind CRISAT structure



9 mm x 19
(Full Metall Jacket
Softcore,
NATO Standard)



MP5

.45 Auto
(Full Metall Jacket
Softcore,
Mod. 1911 A1, 230 grs)



UMP

4.6 mm x 30
„Combat Steel“



MP7

Range: 25 Meters / Gelatine: 10%; Dimensions: 35 x 15 x 15 cm (13.8 x 5.9 x 5.9 in.)

Please initiate each film by mouse click!

9 mm x 19
(Full Metall Jacket
Softcore,
NATO Standard)



MP5

.45 Auto
(Full Metall Jacket
Softcore,
Mod. 1911 A1, 230 grs)



UMP

4.6 mm x 30
„Combat Steel“

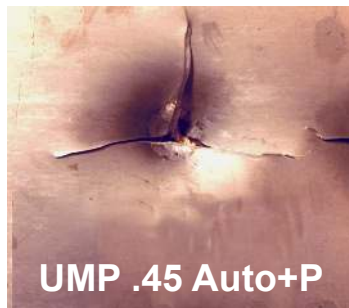


MP7

Range: 25 Meters / Gelatine: 10%; Dimensions: 35 x 15 x 15 cm (13.8 x 5.9 x 5.9 in.)

MP 7 **Firing trials CRISAT target 4.6mm x 30**

9mm x 19 / .40 S+W / .45 Auto - 25 meters



Caliber	4.6mm x 30 Combat Steel	9mm NATO Standard (German)	9mm NATO Standard (UK)	9mm KTW	.45 Auto KTW	.45 Auto + P (Hollow Point)
Titan penetration	positive	positive	Jacket: neg Bullet Core: pos	positive	positive	positive
Penetrated Kevlar layers	20 (all)	Negative	1	10	6	negative





MP 7



CLOSE RANGE WEAPON SYSTEM

4.6MM X 30

AMMUNITION TYPES



MP 7

4.6 mm x **36**
Predecessor of caliber 4.6 x 30



**1968 -1973: „HK36“
Assault Rifle Program**



– Live Ammunition

- **Combat Steel**
- **Ultimate Combat**
- **Full Metal Jacket / Copper Plated Lead**
- **Tracer**
- **Police**
- **Spoon Nose**
- **Subsonic**



– Live and Training Ammunition

- Copper Training
- Hard Frangible
- Soft Frangible

– Training Ammunition

- Blank
- Drill



MP 7

4.6 mm x 30 Cartridge Family



Combat-Steel



**Ultimate
Combat**



**Full Metal
Jacket**



Tracer

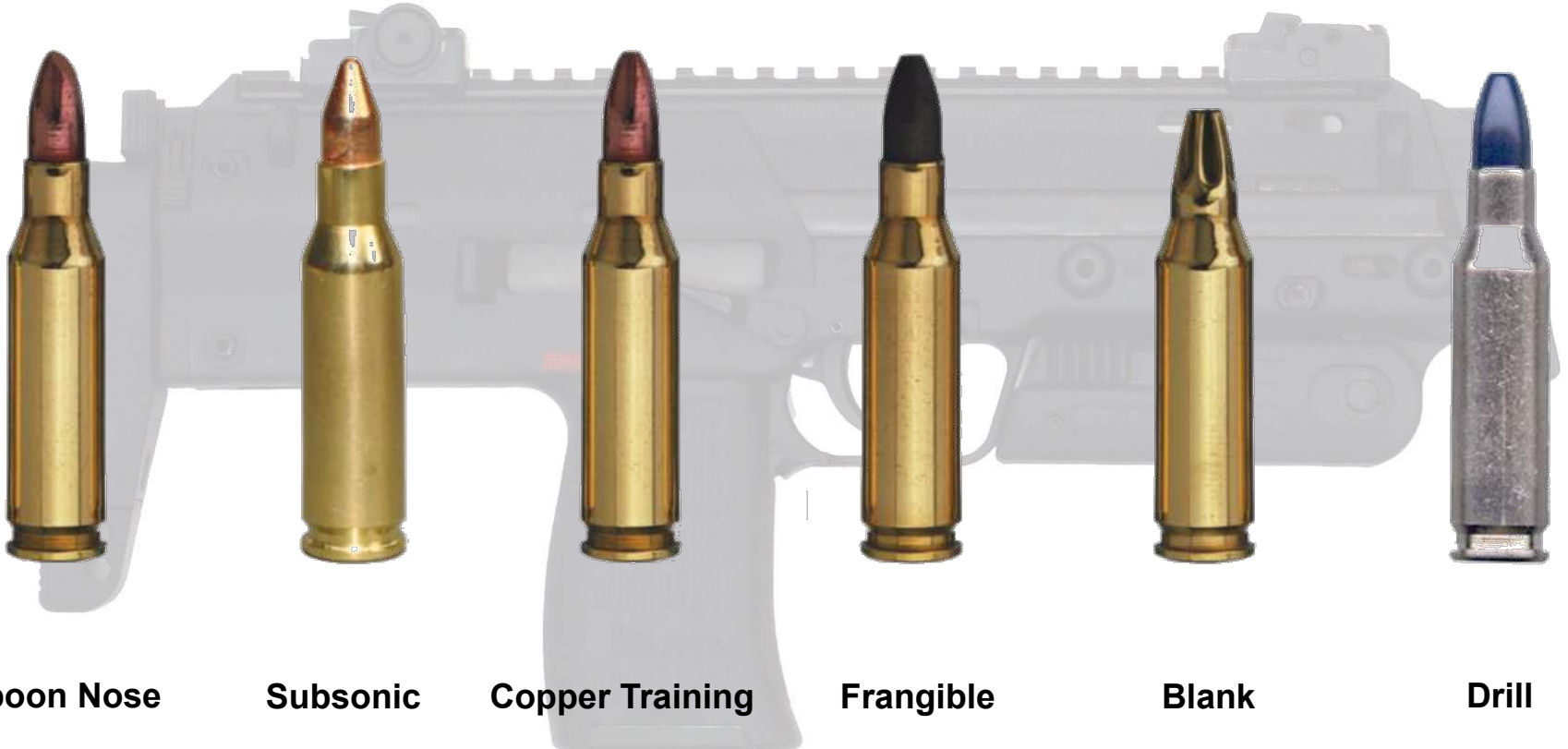


Police



MP 7

4.6 mm x 30 Cartridge Family



Spoon Nose

Subsonic

Copper Training

Frangible

Blank

Drill

No.	Type	Bullet Structure	Intended Use	Notes
1	Live round “Combat-Steel”	Steel, copper clad (100% non-toxic)	Military / Police Special Forces	Penetration of NATO CRISAT structure up to 200 m, as well as of German Class II at 25 m
2	Live Round “Ultimate Combat” (available soon)	Steel, copper clad (100% non-toxic)	Military / Police Special Forces	Maximum penetration: CRISAT up to 300 m; excellent wound ballistics
3	Live round Full Metall Jacket (available soon)	Full Metal Jacket with lead core	Military / Special Forces	Improved wound ballistics comp. to “Combat Steel”
4	Live round Tracer (available soon)	Hollow base brass	Military / Special Forces	Penetration of NATO CRISAT up to 50 m Tracer visible up to 200 m
5	Police (available soon)	Solid, hollow point (100% non-toxic)	Police / Survival Special Forces Sky Marshal	Maximum energy transfer and stopping power with maximum risk reduction conc. collateral damage

No.	Type	Bullet Structure	Intended Use	Notes
6	Spoon Nose	Copper Solid (100% non-toxic)	Police / Special Forces	Excellent energy transfer and stopping power
7	Subsonic (available soon)	Solid bullet	Military / Police / Special Forces	Penetration of NATO CRISAT structure up to 80 m
8	Copper Training	Solid copper bullet (100% non-toxic)	Military / Police / Special Forces	Penetration of NATO CRISAT structure at 50 meters; same recoil as “Combat Steel” round
9	Soft Frangible (available) Hard Frangible (available soon)	Metal powder plastic mixture solid (100% non-toxic)	Training / Use in sensitive areas	Bullet disintegrates upon impact on hard materials
10	Blank	--	Training	Folded brass case
11	Drill	--	Training	

Technical Specification

Manufacturer:	Radway Green / UK
Type:	Live round
Bullet Structure :	Steel, copper clad (100% non-toxic)
Use:	military, police, special forces
V ₀ :	725 m/s (2378 fps)
E ₀ :	447 J (332 ft. lbs.)



The Combat Steel Bullet performs a fast energy transfer into a soft target and penetrates the NATO CRISAT target (1.6 mm Titanium + 20 layers of Kevlar) at over 200 m. German Protective Classes I and II acc. to PFA Technical Guidelines will be penetrated at distances of up to 25 meters. The bullet is 100% non-toxic.

**Gelatine firing trials, range 25 m
(High speed picture)**

Narrow channel = ca. 100 mm (3.94 in.)
Ø of cavity = 80-100 mm (3.14 – 3.94 in.)
Energy transfer = Approx. 30–35 J/cm



**Gelatine firing trials (10%; dimensions 35 x 15 x 15 cm / 13.8 x 5.9 x 5.9)
at a range of 25 meters – High speed video sequence**



Please initiate by mouse click!

**Gelatine firing trials (10%; dimensions 35 x 15 x 15 cm / 13.8 x 5.9 x 5.9)
at a range of 25 meters – „Narrow channel“**



Narrow channel = ca. 100 mm (3.94 in.)
 $\varnothing$ of cavity = 80-100 mm (3.14 – 3.94 in.)
 Energy transfer = Approx. 30–35 J/cm

**Gelatine firing trials (10%; dimensions 35 x 15 x 15 cm / 13.8 x 5.9 x 5.9)
at a range of 25 meters – Maximum temporary wound cavity**



Technical Specification (objectives)

Manufacturer:	Radway Green / UK (available soon)
Type:	Live round
Bullet Structure :	Steel, copper clad (100% non-toxic)
Use:	military, police, special forces
V ₀ :	690 m/s (2172 fps.)
E ₀ :	476 J (389 ft. lbs)



„Ultimate Combat“ cartridge combines maximum penetration performance with excellent wound ballistic characteristics.

The bullet delivers an energy of more than 459 Joule (341 ft. lbs.) on 100 m and **penetrates the NATO CRISAT target at more than 300 meters!**

It also penetrates the Protective Classes I and II acc. to german PFA Technical Guidelines at distances up to 25 meters.



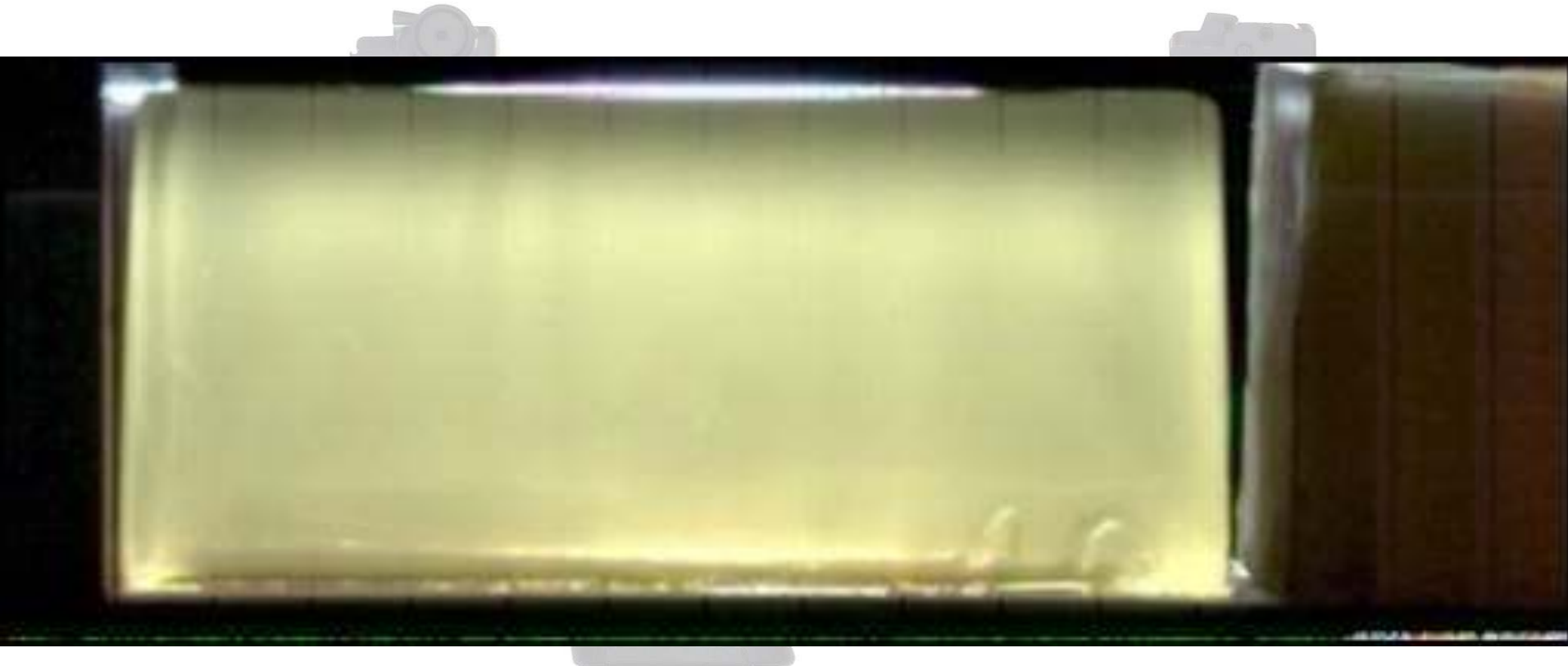
Gelatine firing trials, range 25 m (High speed picture)

Narrow channel = ca. 50-70 mm (1.97 – 2.76 in.)

Ø of cavity = 90-100 mm (3.54 – 3.94 in.)

Energy transfer = Approx. 35-40 J/cm

Gelatine firing trials (20%; dimensions 35 x 15 x 15 cm / 13.8 x 5.9 x 5.9)
at a range of **25 meters** – High speed video sequence



Please initiate by mouse click!

Gelatine firing trials (20%; dimensions 35 x 15 x 15 cm / 13.8 x 5.9 x 5.9)
at a range of **25 meters** – „Narrow channel“



Narrow channel = ca. 50-70 mm (1.97 – 2.76 in.)
Ø of cavity = 90-100 mm (3.54 – 3.94 in.)
Energy transfer = Approx. 35-40 J/cm

Gelatine firing trials (10%; dimensions 35 x 15 x 15 cm / 13.8 x 5.9 x 5.9)
at a range of **25 meters** – Maximum temporary wound cavity

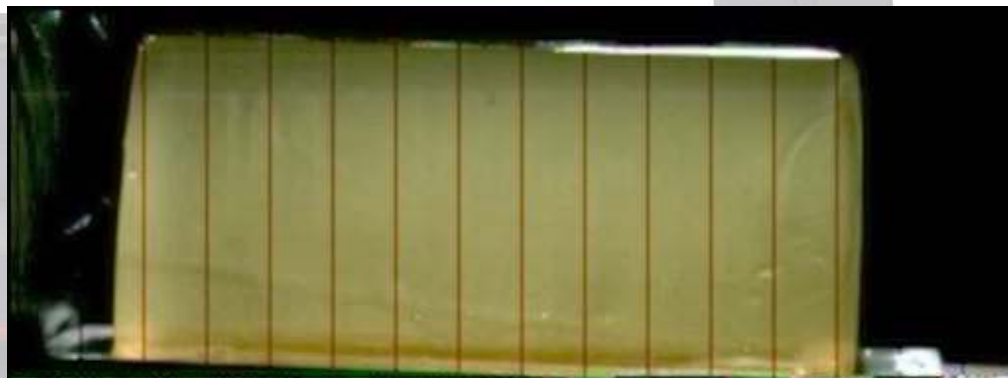


Gelatine firing trials (10%; dimensions 35 x 15 x 15 cm / 13.8 x 5.9 x 5.9)
at a range of **100 meters** – Maximum temporary wound cavity

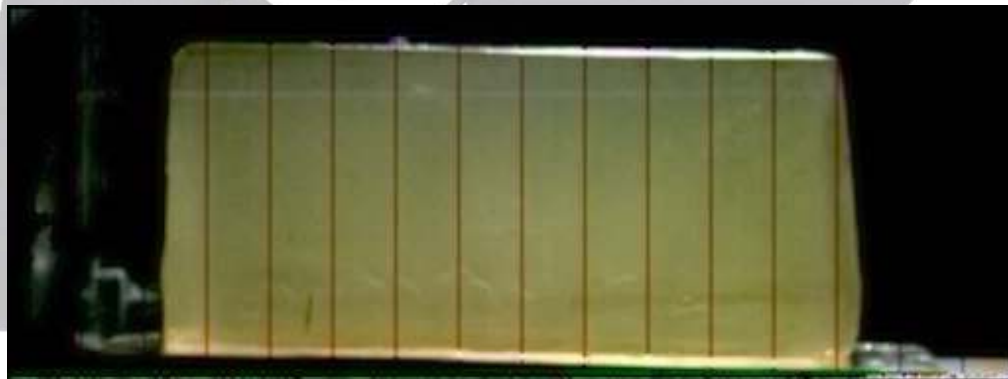


Gelatine firing trials (20%; dimensions 35 x 15 x 15 cm / 13.8 x 5.9 x 5.9)
at a range of **100 meters on CRISAT target** – High speed video sequence

4.6 x 30
Ultimate Combat
MP 7



5.7 x 28
SS 190
FN P90



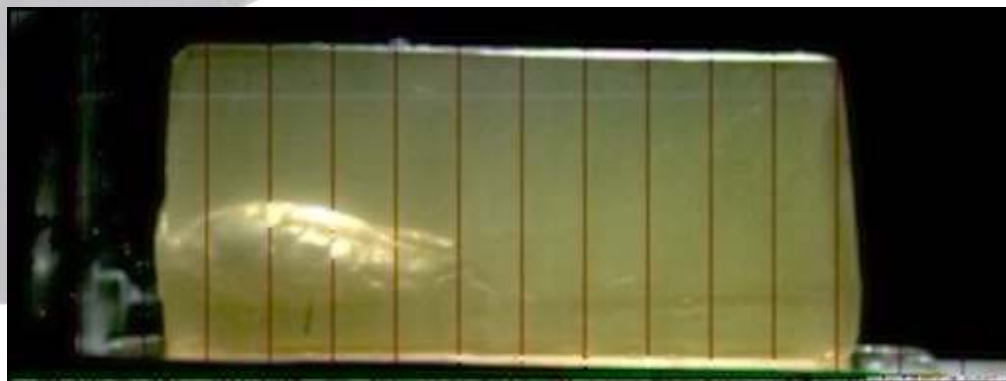
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Gelatine firing trials (20%; dimensions 35 x 15 x 15 cm / 13.8 x 5.9 x 5.9)
at a range of **100 meters on CRISAT** – Maximum temporary wound cavity

4.6 x 30
Ultimate Combat
MP 7



5.7 x 28
SS190
FN P90



Penetration of CRISAT target at 300 meter!
Under supervision of German Procurement Authority (BWB),
February 28, 2003



The superiority of the ballistic performance potential of the 4.6 x 30 compared to 5.7 x 28 is obvious!

Caliber	V_{100}	E_{100}	V_{100} (behind CRISAT)	E_{100} (behind CRISAT)
4.6 x 30 (MP7/240mm barrel) Ultimate Combat	625 m/s (2050 fps)	365 J (270 ft.lbs)	504 m/s (1676 fps)	224 J (182 ft.lbs)
4.6 x 30 (MP7/180mm barrel) Ultimate Combat	545 m/s (1788 fps)	297 J (220 ft.lbs)	432 m/s (1417 fps)	186 J (138 ft.lbs)
4.6 x 30 (MP7/180mm barrel) Combat Steel	545 m/s (1788 fps)	248 J (184 ft.lbs)	414 m/s (1336 fps)	143 J (106 ft.lbs)
5.7 x 28 (P 90/260mm barrel) SS 190 (2 g)	539 m/s (1768 fps)	290 J (215 ft.lbs)	319 m/s (1053 fps)	102 J (76 ft.lbs)
5.7 x 28 (P 90/260mm barrel) SS 190/1 (1.8 g)	620 m/s (2046 fps)	345 J (255 ft.lbs)	330 m/s (1089 fps)	33 J (24 ft.lbs)

Technical Specification (objectives)

Manufacturer:	Radway Green / UK (available soon)
Type:	Live round
Bullet Structure :	In development
Use:	military, police, special forces
V_0 :	600 m/s (1967 fps)
E_0 :	540 J (401 ft. lbs.)



The Full Metal Jacket cartridge exploits the high ballistic potential of the 4.6 mm x 30 cartridge by delivering improved maximum possible energy transfer and man-stopping-power compared to the standard Combat Steel-cartridge.



Gelatine firing trials, range 25 m
(High speed picture)

Narrow channel = ca. 5-6 cm (1.97 – 2.36 in.)
Ø of cavity = 100-120 mm (3.94 – 4.72 in)
Energy transfer = approx. 40-45 J/cm

MP 7

Cartridge 4.6 mm x 30
Full Metal Jacket



**Gelatine firing trials (10%; dimensions 35 x 15 x 15 cm / 13.8 x 5.9 x 5.9)
at a range of 25 meters – High speed video sequence**



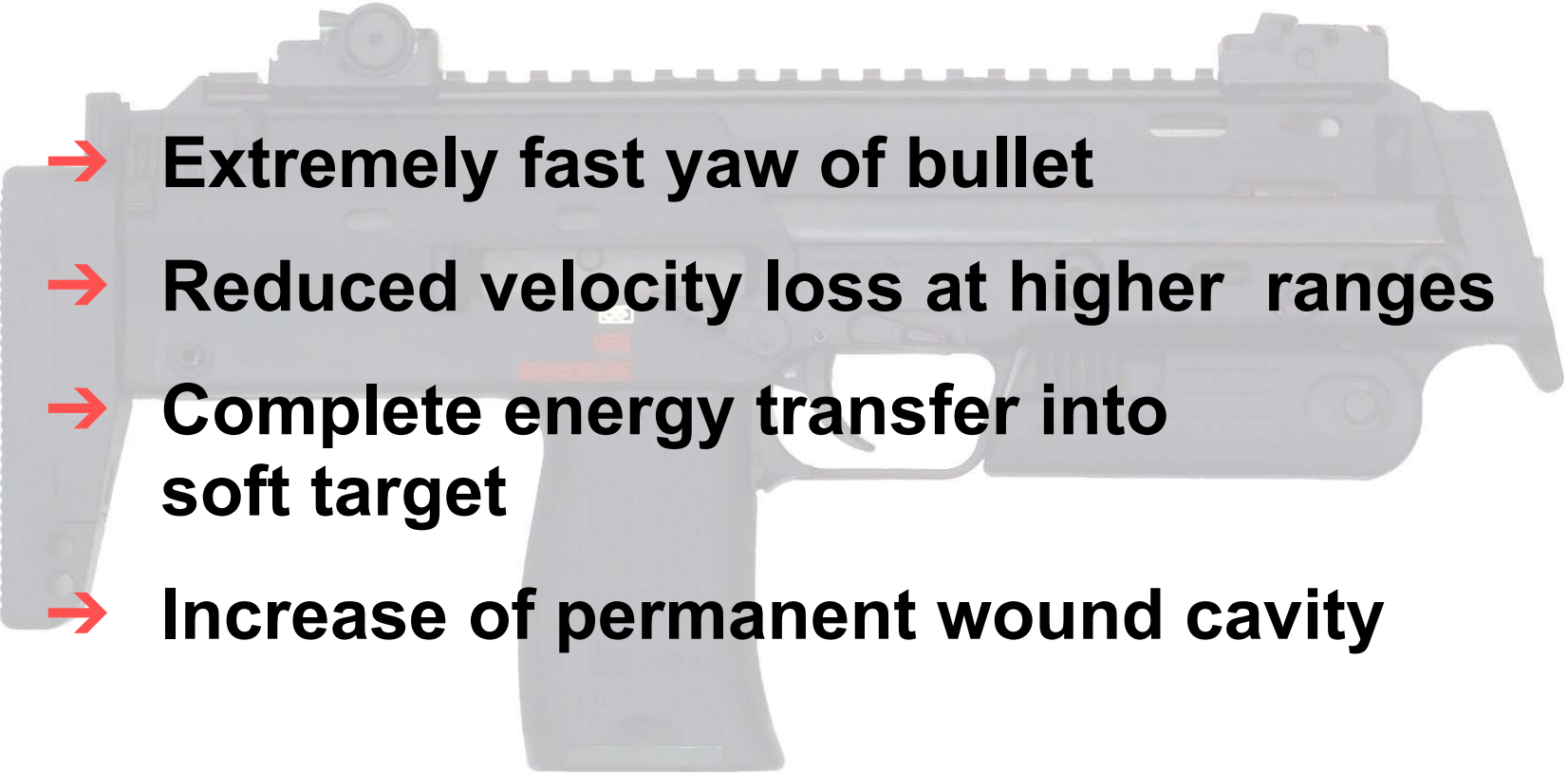
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**Gelatine firing trials (10%; dimensions 35 x 15 x 15 cm / 13.8 x 5.9 x 5.9)
at a range of 25 meters – „Narrow channel“**



**Gelatine firing trials (10%; dimensions 35 x 15 x 15 cm / 13.8 x 5.9 x 5.9)
at a range of 25 meters – Maximum temporary wound cavity**



- 
- **Extremely fast yaw of bullet**
 - **Reduced velocity loss at higher ranges**
 - **Complete energy transfer into soft target**
 - **Increase of permanent wound cavity**

Technical Specification (objectives)

Manufacturer:	Radway Green / UK (available soon)
Bullet Design	Solid (100% non-toxic)
Use:	police, skymarshal, special forces, survival
V_0	700 m/s (2297 fps)
E_0	480 J(357 ft. lbs)
$E_{ab \text{ max.}}$	< 60 J/cm
$E_{ab \text{ min.}}$	> 30 J/cm over a length of at least 5cm
Max. temporary wound cavity:	> 10 cm (3.94 in.)
Penetration depth:	< 30 cm (11.84 in.)
Remaining bullet mass:	ca. 99 %



The „Police“-cartridge delivers maximum energy transfer right after penetrating the target medium. The bullet design also guarantees maximum risk reduction of collateral damage. The energy transfer of the „Police“-cartridge corresponds the demands of the directive of the Police Leader's Academy (Germany) for the 9mm x 19 „Police Cartridge“. The bullet penetrates Protective Class I bullet proof vest (German PFA standard). The bullet is 100% non-toxic.



Gelatine firing trials (20 %)
Range: 25 m
(High speed picture)

**Gelatine firing trials (20%; dimensions 35 x 15 x 15 cm / 13.8 x 5.9 x 5.9)
at a range of 25 meters – High speed video sequence**



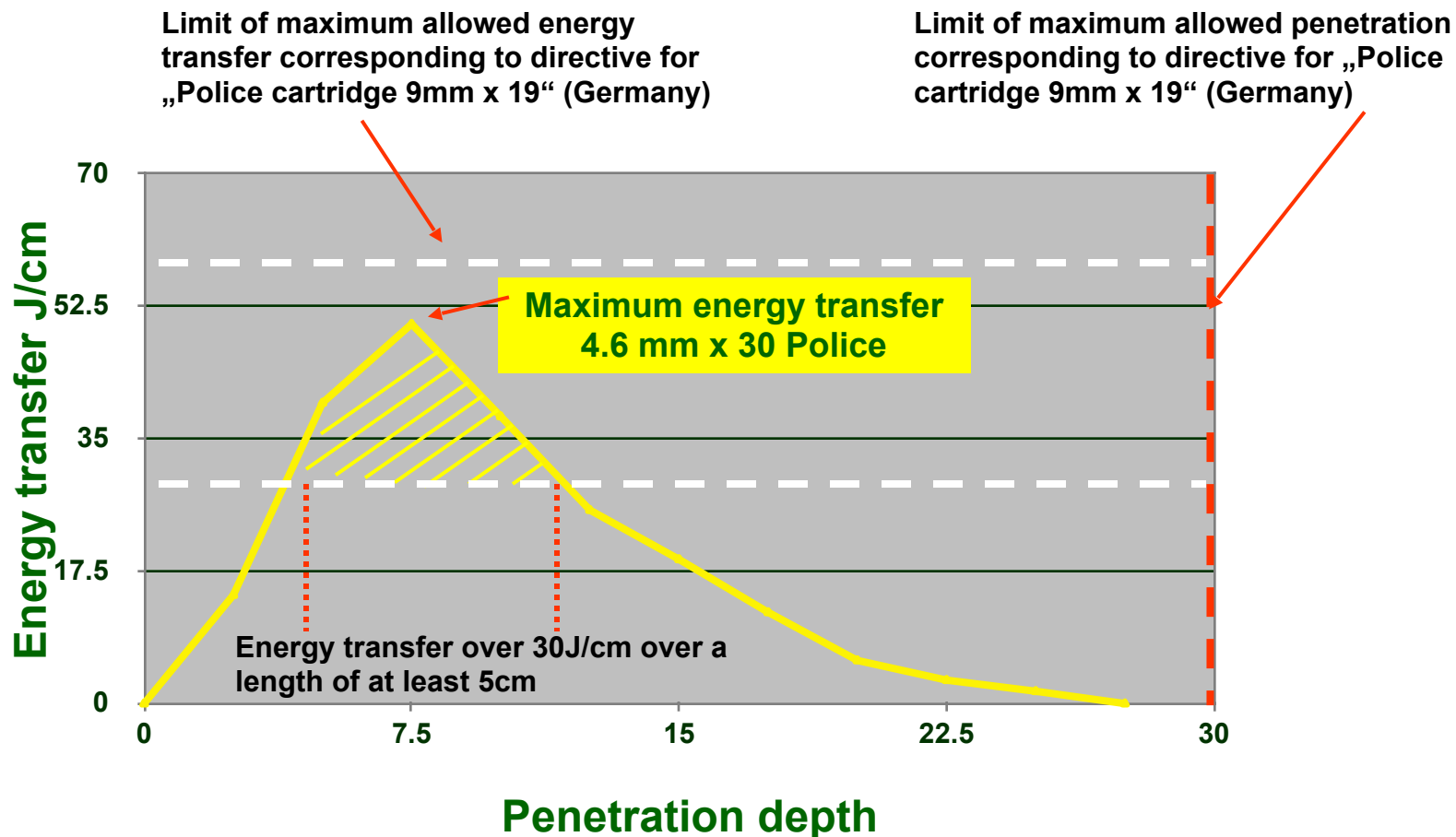
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**Gelatine firing trials (20%; dimensions 35 x 15 x 15 cm / 13.8 x 5.9 x 5.9)
at a range of 25 meters – Maximum temporary wound cavity**

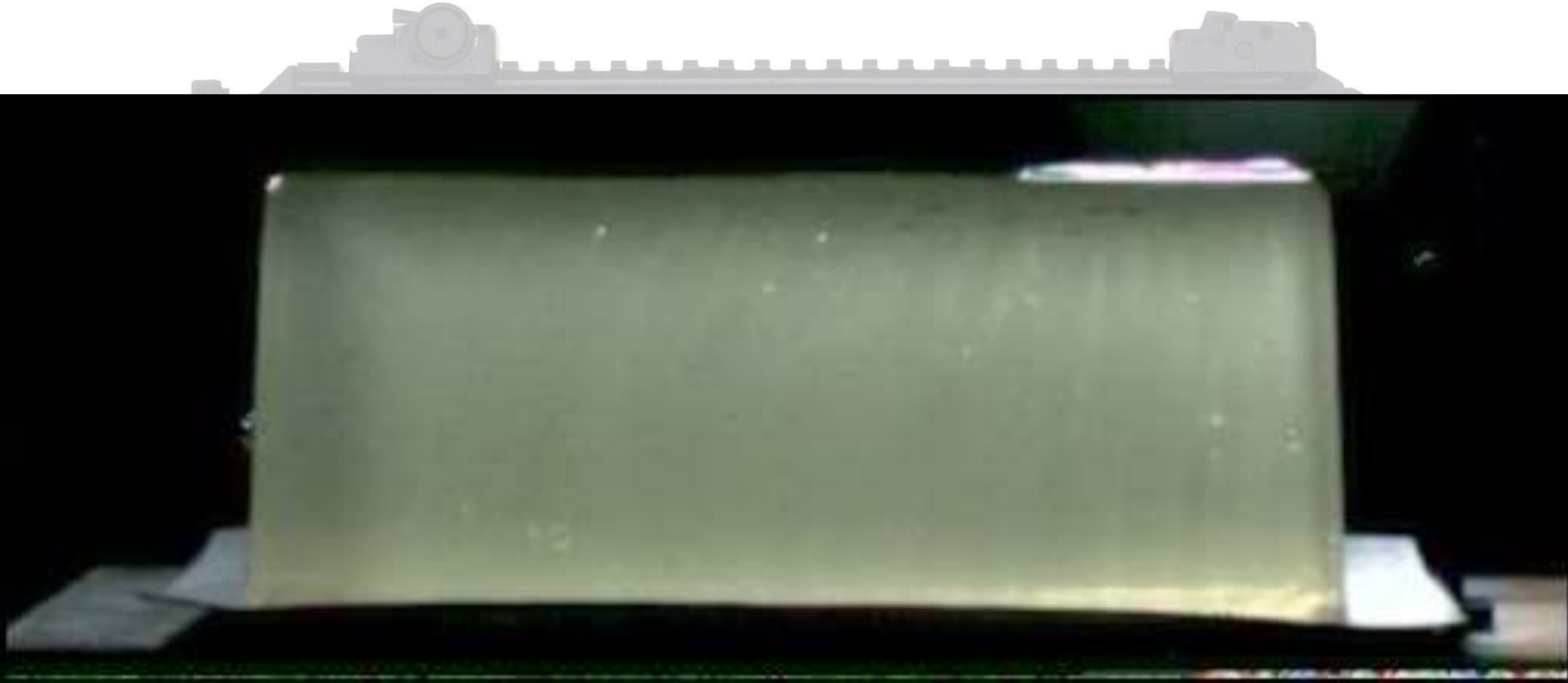


Bullet does not leave the gelatine block!

Energy transfer and penetration depth diagram for gelatine (20 %), Range: 25 m



**Gelatine firing trials (10%; dimensions 35 x 15 x 15 cm / 13.8 x 5.9 x 5.9)
at a range of 25 meters – High speed video sequence**



Please initiate by mouse click!

**Gelatine firing trials (10%; dimensions 35 x 15 x 15 cm / 13.8 x 5.9 x 5.9)
at a range of 25 meters – Maximum temporary wound cavity**

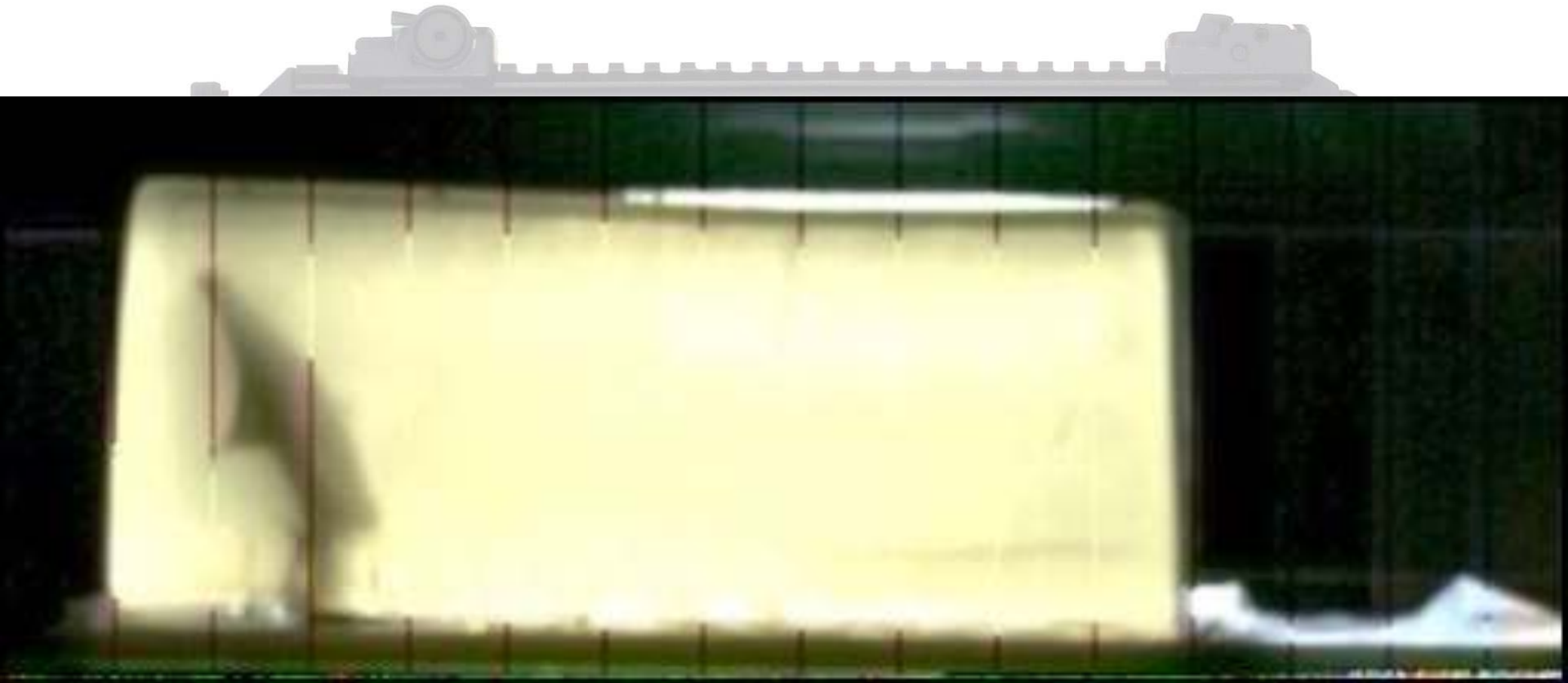


**Gelatine firing trials (20%; dimensions 35 x 15 x 15 cm / 13.8 x 5.9 x 5.9)
at a range of 25 meters – Bones **2.5 cm** (.98 in.) in gelatine**



Please initiate by mouse click!

**Gelatine firing trials (20%; dimensions 35 x 15 x 15 cm / 13.8 x 5.9 x 5.9)
at a range of 25 meters – Bones **5 cm** (1.97 in.) in gelatine**



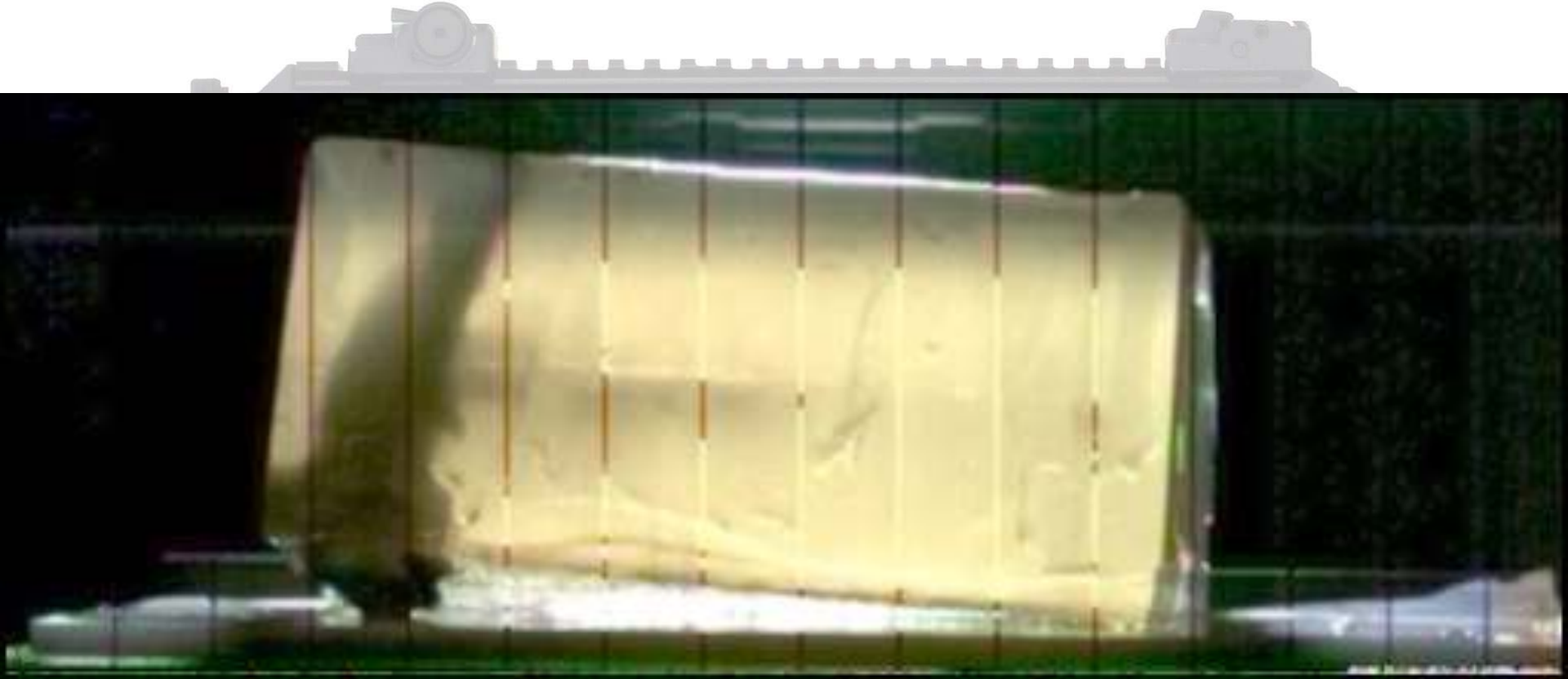
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**Gelatine firing trials (20%; dimensions 35 x 15 x 15 cm / 13.8 x 5.9 x 5.9)
at a range of 25 meters – Bones **10 cm** (3.94 in.) in gelatine**



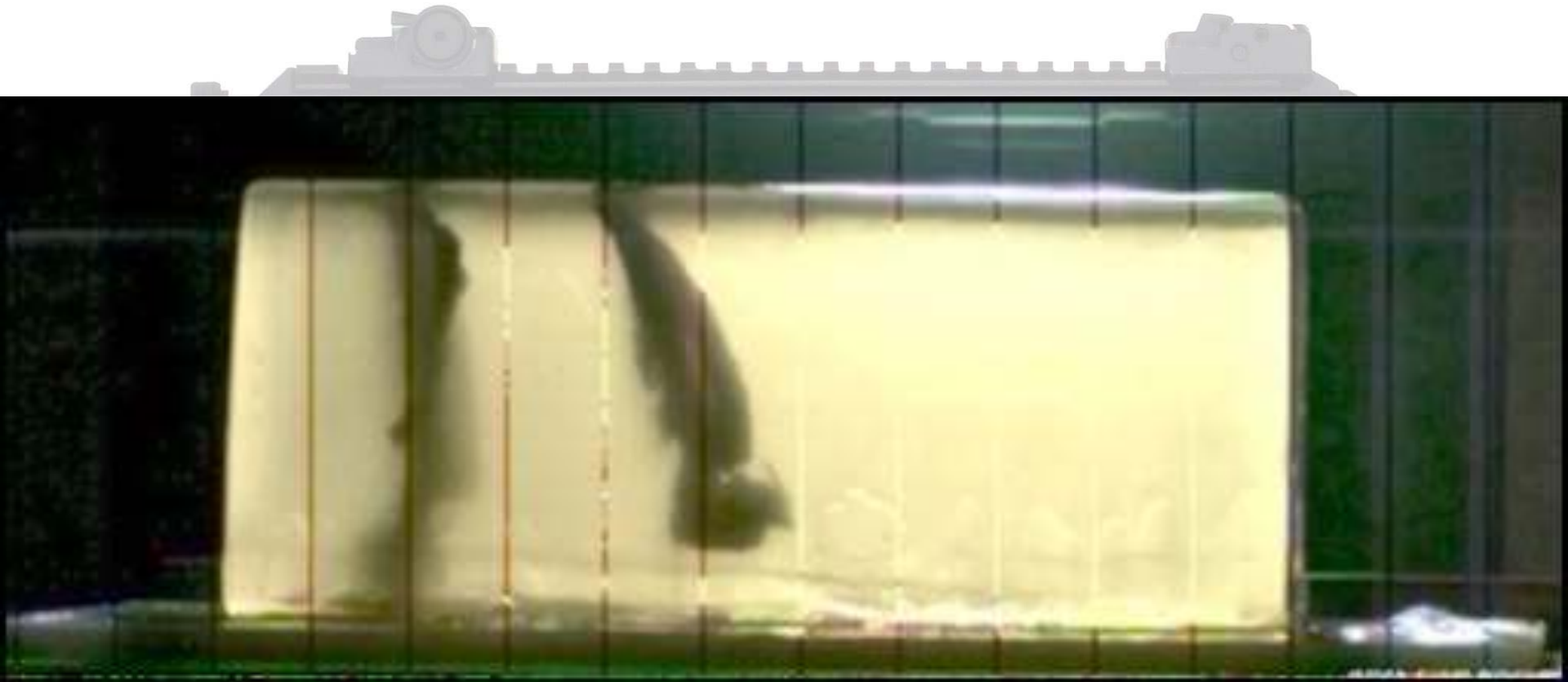
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Gelatine firing trials (20%; dimensions 35 x 15 x 15 cm / 13.8 x 5.9 x 5.9)
at a range of 25 meters – **3 cm** (1.18 in.) massive bone



Please initiate by mouse click!

Gelatine firing trials (20%; dimensions 35 x 15 x 15 cm / 13.8 x 5.9 x 5.9)
at a range of 25 meters – 2 bones **5 cm** (1.97 in.) and **10 cm** (3.94 in.) in gelatine



Please initiate by mouse click!

Technical Specification

Manufacturer:	Radway Green / UK
Type:	Spoon type
Bullet structure	Solid copper
Use	Police, Special Mission
V_0	725 m/s (2379 fps)
E_0	447 J (332 ft. lbs.)



The Spoon Nose bullet already achieves max. energy transfer upon a shallow depth of penetration and shows an overall more shallow depth of penetration into the soft skinned target.



**Gelatine Firing Trials, Range 25 m
(High speed photograph)**

Narrow channel = ca. 45 mm
Ø of cavity => 100 mm
Energy transfer = Approx. 35 – 40 J/cm

Technical Specification (objectives)

Manufacturer: Radway Green / UK
(available soon)

Bullet structure: Copper plated solid

Use: military, police, special mission

V_0 : 326 m/s (1070 fps)

E_0 : 270 J (200 ft. lbs)

Silencer

Weight: 430 g (15.1 oz)

Material: Steel / Aluminum

Irreproachable weapon functioning (semi auto and full auto mode) without additional attachments; penetrates the CRISAT target up to a range of 90 m.



Weapon	Silencer	Ammunition Type	V_0	Noise level	
MP7	-	„Combat Steel“ live round ammunition	720 m/sec	141 dBA	
MP7	+	„Combat Steel“ live round ammunition	746 m/sec	110 dBA	Reduction 27 dBA
MP7	+	Ammunition „Subsonic“	326 m/sec	103 dBA	Reduction 31 dBA
MP5 SD		Live round ammunition (Supersonic)	310 m/sec	115 dBA	

Technical Specification (objectives)

Manufacturer:	Radway Green / UK (available soon)
Type:	Tracer
Tracer colour:	red
Maximum visible range:	300 m
Start of burning:	at the muzzle



The Tracer round is primarily intended to mark the target area and make the own position visible to the „friendly“ forces.

The ballistic characteristics are secondary.

The charge is ignited right at the muzzle and burns in red colour for a range of at least 300m.

Technical Specification

Manufacturer:	Radway Green / UK
Type:	Training
Bullet structure:	Solid Copper (100% non-toxic)
Use:	military, police, special forces
V_0 :	725 m/s (2379 fps)
E_0 :	445 J (331 ft. lbs.)



The Copper Training design is a low-cost training ammunition. Its trajectory and recoil characteristics match that of the 1,7 g Combat Steel bullet. Suitable for use against unprotected targets, this ammunition may be used both in operation and in training. The non-toxic bullet penetrates the NATO-CRISAT structure up to a range of 100 meters.



Gelatine firing trials, range 25 m (High speed photograph)

Narrow channel = Approx. 100 mm (3.94 in.)

Ø of cavity = 80 - 100 mm (3.14 – 3.94 in.)

Energy transfer = Approx. 30–35 J/cm

Technical Specification

Manufacturer: Radway Green / UK

Type: Frangible

Bullet structure: Metal powder
plastic mixture solid (non-toxic)

Use : (Reduced range) training cartridge

Live round for close quarters use against
unarmored soft skinned targets

V_0 : 825 m/s

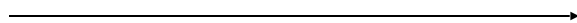
E_0 : 408 J



4.6 mm „Frangible“ is a safety ammunition that will disintegrate upon impact on hard targets. Ricochet hazard is thus reduced to an absolute minimum. The „Frangible“ is thus highly suitable for use inside sensitive structures like aircraft, nuclear power plants and offshore drilling rigs. The bullet is 100% non-toxic. The type **Hard Frangible** will be available soon.

TERMINAL BALLISTICS

MP 7



Hard target
(concrete, steel plate)

Technical Specification

Manufacturer: Radway Green / UK
Type: Blank
Bullet structure: Brass case with 6 fold crimp
Use: Training



Cutaway View SMPG 3 rounds „Combat Steel“ fired

Single Fire



Bullets



Sustained Fire

Even after firing of up to three live rounds, The SMPG will ensure full shooter safety and safety in front of weapon.

Figure shows the MP 7 with
Safety Blank Firing Attachment
(SMPG).

Technical Specification

Manufacturer: Radway Green / UK
Type: Drill
Bullet structure: Coloured solid
(copper plated)
Use: Training

To avoid mix up with live rounds the Drill cartridge has a silver coloured case and a blue coloured bullet.





BAE SYSTEMS

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