



MP7 A1

Innovation for the future

HECKLER & KOCH 



Modern defensive weapon for flexible deployment

The MP7 A1 of cal. 4.6 mm x 30 has been developed according to the requirement profile elaborated by NATO for a new personal defence weapon.

This means that:

- › MP7 A1 is compact and lightweight enough to be permanently carried on the body;
- › MP7 A1 ammunition is accurate and powerful enough for effective engagement of personnel equipped with NATO CRISAT protection up to 200 m.

The MP7 A1 thus represents a new generation of very compact and performance improved submachine guns which contrary to former conventional submachine guns can also effectively engage protected targets at short and medium ranges. In the course of development of this new weapon and its ammunition the following user groups have been taken into consideration:

- › Military and civilian police
- › Military and police special forces
- › Military personnel not directly engaged in combat
- › VIP protection personnel

Thought out functionality

Equipped with the MP7 A1, the user has an optimum weapon for self defence which combines numerous, well thought out characteristics and features many advantages over conventional sub machine guns with pistol calibres:

- › Minimum overall dimensions
- › Lowest weight
- › Fully ambidextrous operation
- › Semiautomatic and full automatic fire
- › Increased magazine capacity
- › Highly increased penetration
- › Increased accuracy and range
- › Considerably increased wound effect especially against protected targets
- › Reduced recoil
- › One or two handed use like a pistol, shoulder firing like a submachine gun

A new generation of modular and very compact submachine guns



Minimum weight and smallest dimensions

In modern armed forces, the majority of troops are not directly involved in combat and are tasked with command, supply and support activities. These personnel do not necessarily require an assault rifle whose size and weight may hinder them in the fulfilment of their main tasks but need a compact, lightweight and efficient weapon to defend themselves against possible enemy attacks. The MP7 A1 is ideally suited to this operational role, with the advantage that it can be permanently carried on the body enabling the user to complete their full duties.

Ambidextrous operation

In military and police special forces practice there are many situations where two-handed firing of the weapon is required, both by left and right handed shooters.

The extreme compact design of the MP7 A1, its low weapon weight and light recoil permit aimed fire in both the semi automatic and full auto modes. The ergonomic ambidextrous operating controls permit use by both right and left handed shooters without any impediment.

Increased penetration

Conventional submachine guns using NATO standard 9 mm x 19 ammunition or police specific pistol ammunition have the disadvantage that these ammunition types are ineffective against bullet proof vests. The MP7 A1 eliminates this disadvantage by the use of small calibre steel core ammunition which features a much higher cross sectional density and achieves a penetration and target effect which is unachieved by present handgun calibres, even when similar steel core designs are used.

Compact, lightweight and efficient weapon for quick defence



4.6 mm x 30 ammunition family

For the different groups of users and their missions, the following types of ammunition have been developed and optimized:



› Steel 2 g

With copper plated steel bullet for the engagement of protected targets.



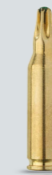
› Full Metal Jacket 2,6 g

For engagement of unprotected and lightly protected targets and for training.



› Action 2 g

Transfers a maximum of energy immediately after entering the target medium.



› Blank (in development)

Used in combination with the MP7 A1 safety blank firing attachment. Permits realistic and safe training.



› Training

This cartridge featuring a lead-free tin projectile guarantees high precision, with minimal tendency to ricochet and optimal protection of the backstop.



› Drill

For safe carrying out of loading drills, check of the weapons feed function or the loadability of magazines.

Ammunition with improved penetration and performance as a system solution

- | | | | |
|-------------------------|----------------------------------|-----------------------------------------------|---------------------------------------------|
| 1 Flash hider | 4 Aperture sight | 7 Safety/Selector lever (ambidextrous) | 10 Safety trigger |
| 2 Front sight | 5 Cocking lever (central) | 8 Magazine catch (ambidextrous) | 11 Bolt catch release (ambidextrous) |
| 3 Picatinny rail | 6 Retractable buttstock | 9 Magazine (20 round) | 12 Forward grip |



MP7 A1

4.6 mm x 30



Oerlikon Contraves LLMo1



Hensoldt RSA
Red dot sight



EOTech
HOLOgraphic sight



Silencer



AIMPOINT Red dot sights



MP7 A1 4.6 mm x 30



20 round
magazine



30 round
magazine



40 round
magazine



MP7 A1 Silencer

Easy and quick attachment/removal of the silencer onto the MP7 A1 flash hider, also after prolonged firing.

- › Weapon's firing accuracy not adversely affected by silencer fitted
- › Full weapon function on semi and full auto with silencer fitted
- › Excellent silencing and long service life of silencers
- › Unrestricted use of all types of ammunition having a bullet

MP7 A1 Silencer Specifications:

Weight:	590 g
Length:	222 mm
Silencer tube Ø:	40 mm
Locking bush Ø:	44 mm

MP7 A1 Safety blank firing attachment

The MP7 A1 safety blank firing attachment together with the blank cartridges are used for realistic firing practicing in the semi and full auto modes.

Should a magazine with live rounds inadvertently be loaded into the weapon, the safety blank firing attachment is capable of stopping up to 3 bullets fired.



Special purpose accessories



Rail for tactical accessories

In addition to the top sight rail, further Picatinny rails can be fitted to the right or left side of the receiver above the forward grip. This permits the fitting of laser aiming units and target designators.

Carrying and handling fixtures

For safe and convenient transport of the MP7 A1 on the user, Heckler & Koch has developed several practical carrying concepts and fixtures allowing the weapon to be quickly deployed.

Add-on night vision unit with adaptor

The MP7 A1 is fully suitable for night fighting. The long Picatinny rail on top of the weapon receiver allows the fitting of a night vision optical sight in addition to a daylight optical sight.



Special purpose accessories



Highlights at a glance

- › Lightweight and compact high performance calibre
- › Extremely compact dimensions
- › Extremely low overall weight
- › Universally applicable (attack and defence)
- › Suitable for use with one hand or both hands
- › Semiautomatic and full automatic fire
- › Completely ambidextrous operation
- › Penetration of NATO CRISAT Target (1.6 mm of Titanium and 20 layers of Kevlar) at over 200 meters ("Copper Plated Steel")
- › Combination sight (optical/mechanical)
- › Long MIL-STD-1913 Picatinny rail
- › Efficient silencer
- › Adopted by many NATO and non-NATO police and military services

Specifications

Dimensions

Caliber:	4.6 mm x 30
Overall length	
Buttstock retracted:	415 mm
Buttstock extracted:	638 mm
Overall width:	51 mm
Overall height	
with 20 round magazine, without sight:	169.5 mm
Barrel length:	180 mm
Barrel profile/Twist:	Polygonal profile, 6 twist lines, right-hand twist

Weights

MP7 A1 (without magazine):	approx. 1900 g
Magazine, empty (20 rounds):	approx. 100 g
Magazine, empty (30 rounds):	approx. 150 g
Magazine, empty (40 rounds):	approx. 200 g

Other data

Muzzle velocity v_0 :	approx. 710 m/s
Muzzle energy E_0 :	approx. 500 Joule
Rate of fire:	approx. 950 rounds/minute

MP7 A1 Technical Data

Heckler & Koch . Germany

Heckler & Koch GmbH

P.O. Box 1329

78722 Oberndorf a. N.

Tel.: +49 (0)7423790

Fax: +49 (0)7423792497

sales@heckler-koch-de.com

Heckler & Koch . UK

NSAF Ltd.

P.O. Box 7151

Nottingham NG7 2TD

Tel.: +44 (0)1159248720

Fax: +44 (0)1159248730

enquiries@heckler-koch-uk.com

Heckler & Koch . USA

Heckler & Koch

19980 Highland Vista Drive, Suite #190

Ashburn, VA 20147 USA

Tel.: +1 (0)7034501900

Fax: +1 (0)7034508160

info@heckler-koch-us.com

Heckler & Koch . France

Heckler & Koch France SAS

7, rue de la Plaine

78860 Saint-Nom-La-Breteche

Tel.: +33 (0)161062300

Fax: +33 (0)161062309

info@heckler-koch-fr.com

www.heckler-koch.com

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