PATTON

HISPANO SUIZA



Hispano Suiza
Anti-tank grenade
Type P 75 C
for 20 and 30 mm
Hispano Suiza guns

General

Designed for use by all troops against armour, the Hispano Suiza anti-tank grenade is the most efficient of modern grenades by reason of the well-known effects of the hollow charge: perforation of steel and reinforced concrete, destruction behind the armour and incendiary effect on inflammable liquids.

Description

Detonation

by instantaneous electric ignition.

The explosion of the charge always occurs at the distance of maximum efficiency, thus ensuring consistent performance. The delay between impact and explosion is of the order of 50 microseconds (50×10^{-6} sec.).

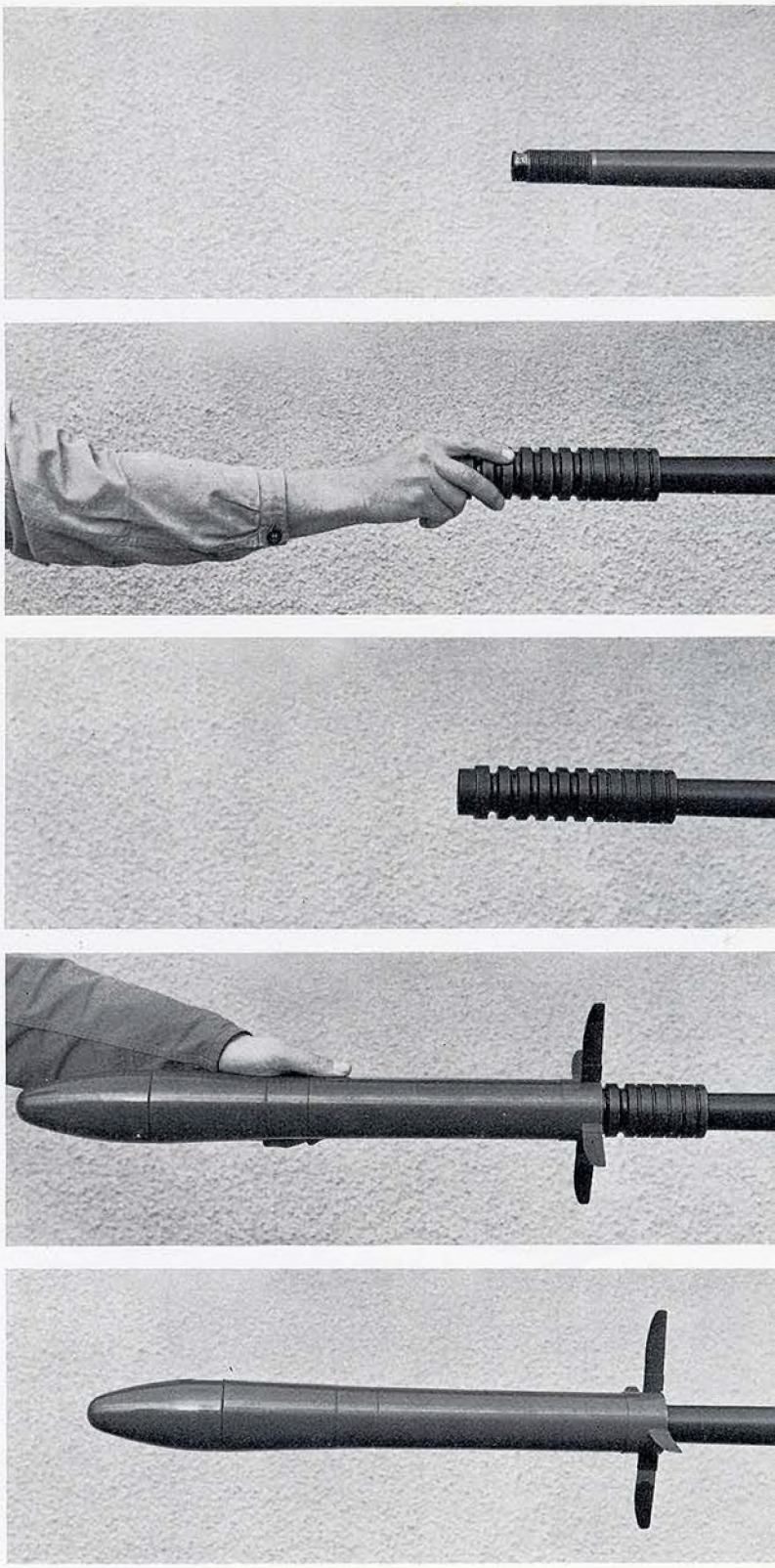
Ignition and efficiency are independent of the speed at impact.



Functioning
efficacious against all surfaces at impact angles less than 90°.

Perforation
identical for all impact angles between 10° and 90°, irrespective of the state of the surface, and for temperatures between −35° and +55° C.

Operates
under all atmospheric conditions.





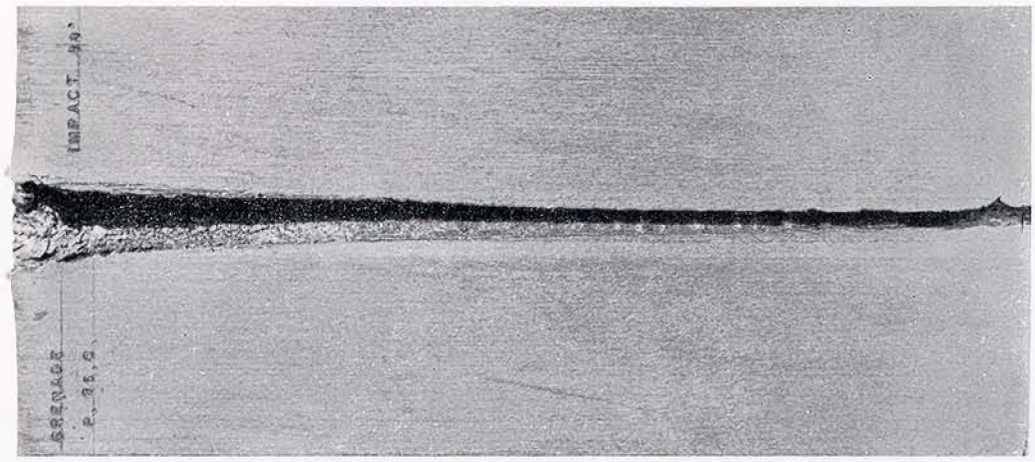


Muzzle Security
absolute. The grenade is not active until it has travelled several metres. If it should strike prematurely an obstacle (wall, tree, ground, camouflage etc.), it will remain inert and may be handled without special precautions.

Transport Security
guaranteed. In no case can dropping a container explode the contents. They can be dropped by parachute under the same conditions as other explosives.

Storage Security
absolute. The charge is separated by its packing from the detonator. Explosion of the latter cannot explode the grenade.

Perforation of armour plate R = 85–90 kg/mm²
Thickness 350 mm, impact angle 90°



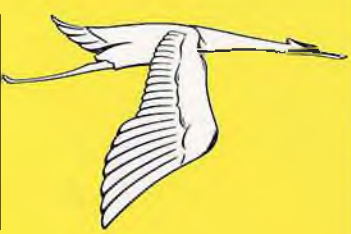
350 mm

Entry: diameter 30 mm

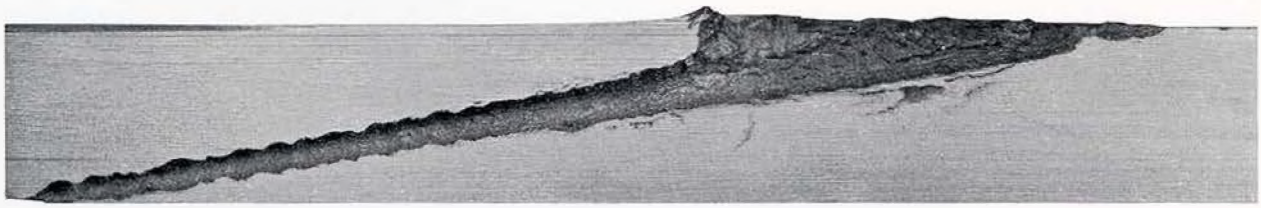


Exit: diameter 7 mm





Perforation of armour plate R = 85–90 kg/mm²
Thickness 50 mm, impact angle 10°



Technical Data

	with Hispano Suiza 20 mm gun type 804
Dimensions and Weights	
Diameter	75 mm
Length	590 mm
Total weight	16 380 g
Weight of explosive	515 g
Ballistics	
Initial speed	~ 125 m/seg
Max. range	~ 1300 m
Practical range against mobile target	300 m
Practical range against fixed target	500 m
50% dispersion as percentage of range	~ 0,6%
Penetration	
Armour plate 90 kg/mm²	~ 340–370 mm
Reinforced concrete	~ 700 mm
Sensitivity { carton	4 mm
Sensitivity { avional	1 mm
Dropping security on steel	2 m
Muzzle safety	8 m

Dummy grenades for handling practice and exercise are available for all types. They have the same ballistic properties as the active grenades.