



SCHWEIZ. UNTERNEHMUNG FÜR WAFFENSYSTEME AG
ENTREPRISE SUISSE D'ARMEMENT SA
IMPRESA SVIZZERA DI SISTEMI D'ARMA SA
SWISS ORDNANCE ENTERPRISE CORP

120 mm Compact Tank Gun



Technical Data

The SW Thun 120 mm Compact Tank Gun allows improvement of the fire power of many battle tanks to today's standard. This new gun is a logical development from 105 mm tank guns. With a specifically designed muzzle brake the 120 mm Compact Tank Gun is also suitable for lighter combat vehicles of the 25 to 30 t class.

- The required weight and space of the weapon system is almost equal to the 105 system mm (gun and on-board ammunition).
- Full compatibility with current and future 120 mm ammunition.

Gun parameters

Dropping block breech (semi-automatic)	
Mean recoil travel	480 mm
Max. recoil travel	500 mm
Mean recoil force	200 kN
Max. recoil force (with muzzle brake)	260 kN
Rate of fire 6–10 rounds/min (manual)	
Muzzle velocity (DM 33 L-50)	1,680 m/s
Design gas pressure	7,400 bar
PIMP	7,100 bar

The latest types of KE rounds have been fired, the related muzzle velocities are still classified.

Ammunition

The gun fires all 120 mm ammunition available today.

Masses

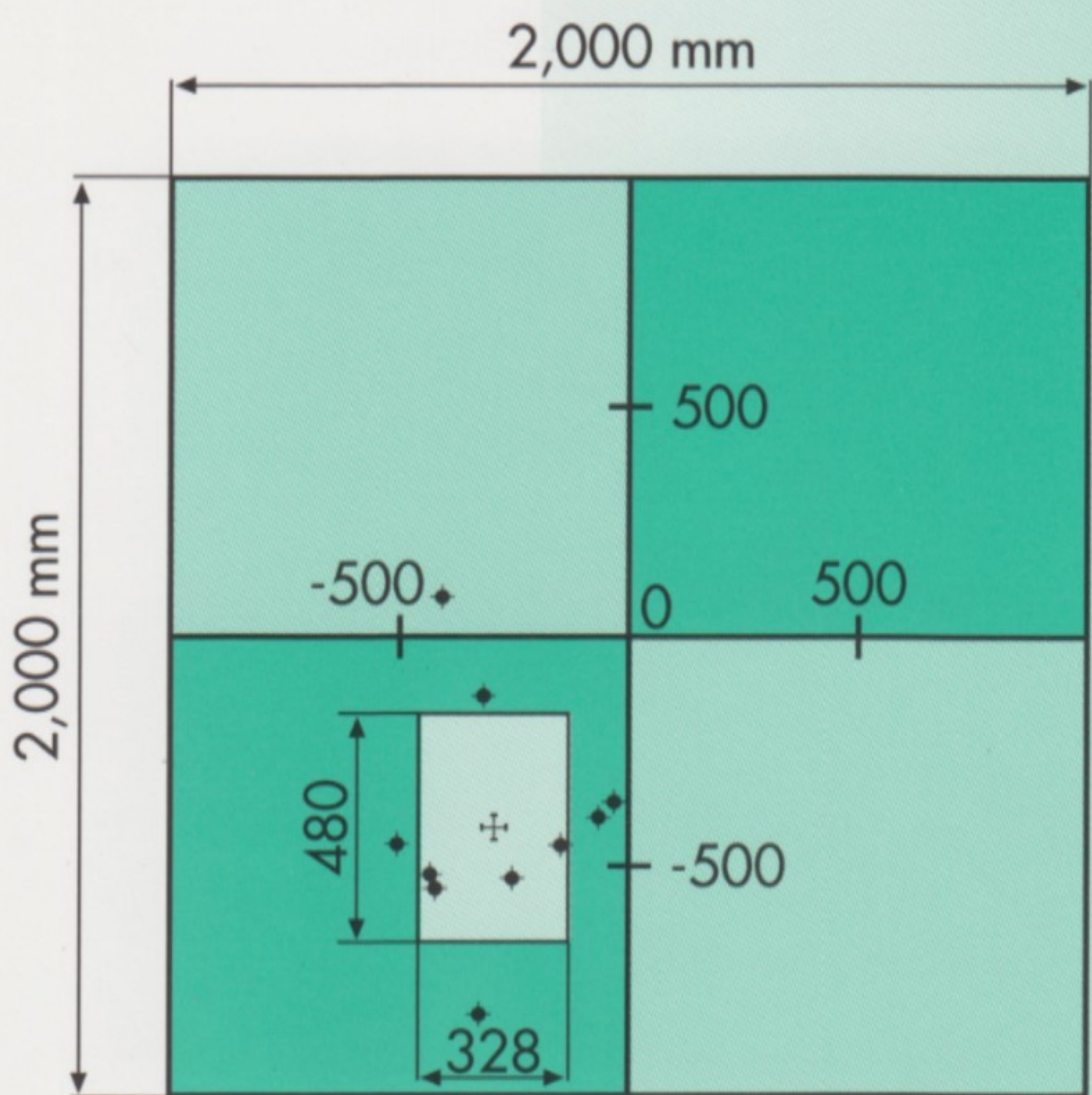
Elevating mass	2,600 kg
Recoiling mass	1,860 kg
Barrel mass L-50 (plus bore evacuator)	1,120 kg

Dispersion pattern

Target distance	1,150 m
Number of rounds	10

Standard deviation

Elevation	0.21 mils
Azimuth	0.14 mils



Dispersion pattern



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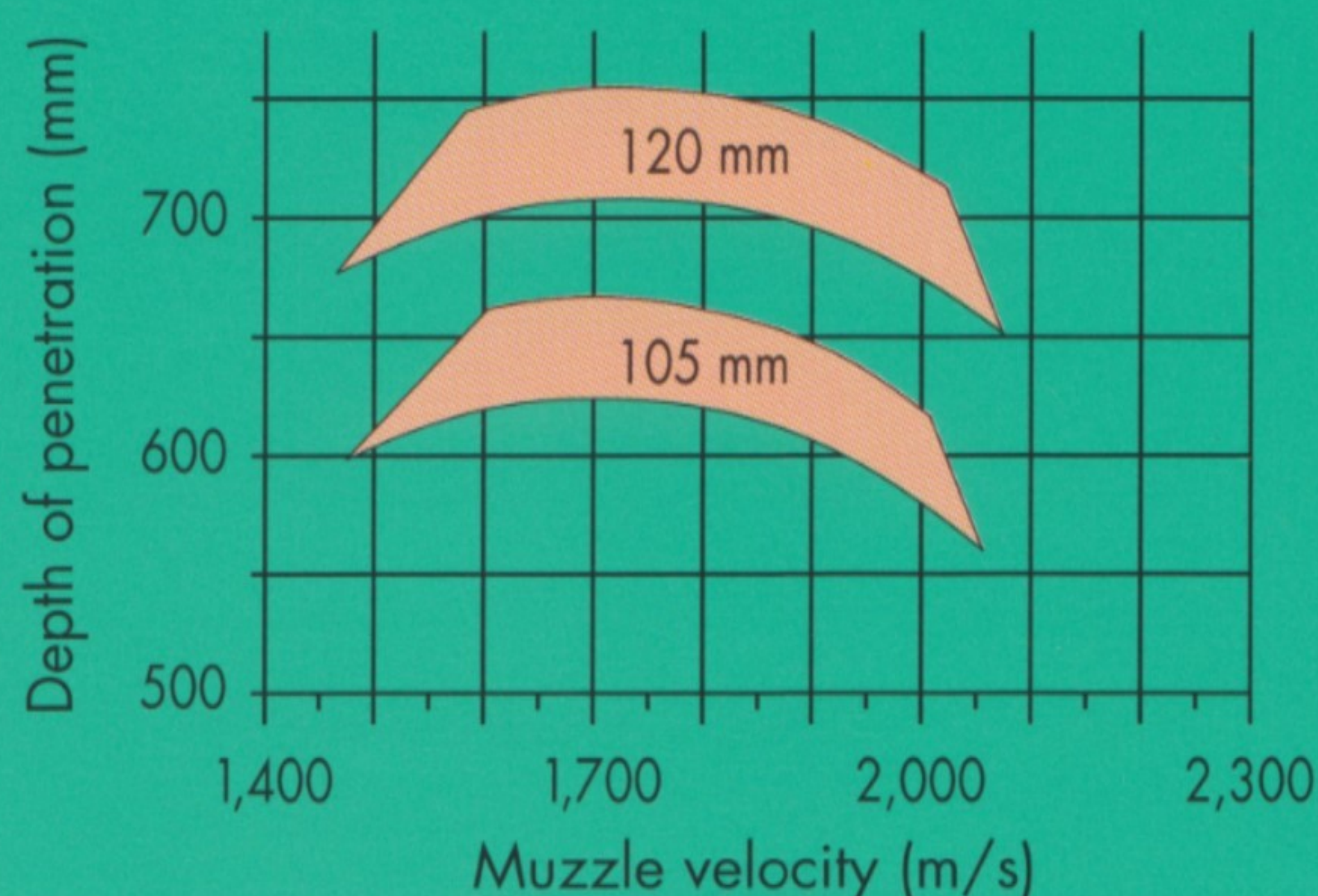
Performance comparison

The 105 mm potential is exhausted in view of

- gas pressure
- barrel length
- projectile fineness ratio

The performance diagram shows the DOP increase attainable with the 120 mm calibre.

Advantages of a 120 mm tank gun



The 120 mm Compact Tank Gun designed by SW Thun meets today's and tomorrow's requirements.

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120 mm CTG on Hägglunds 25 t class
Tank Destroyer CV 90120.

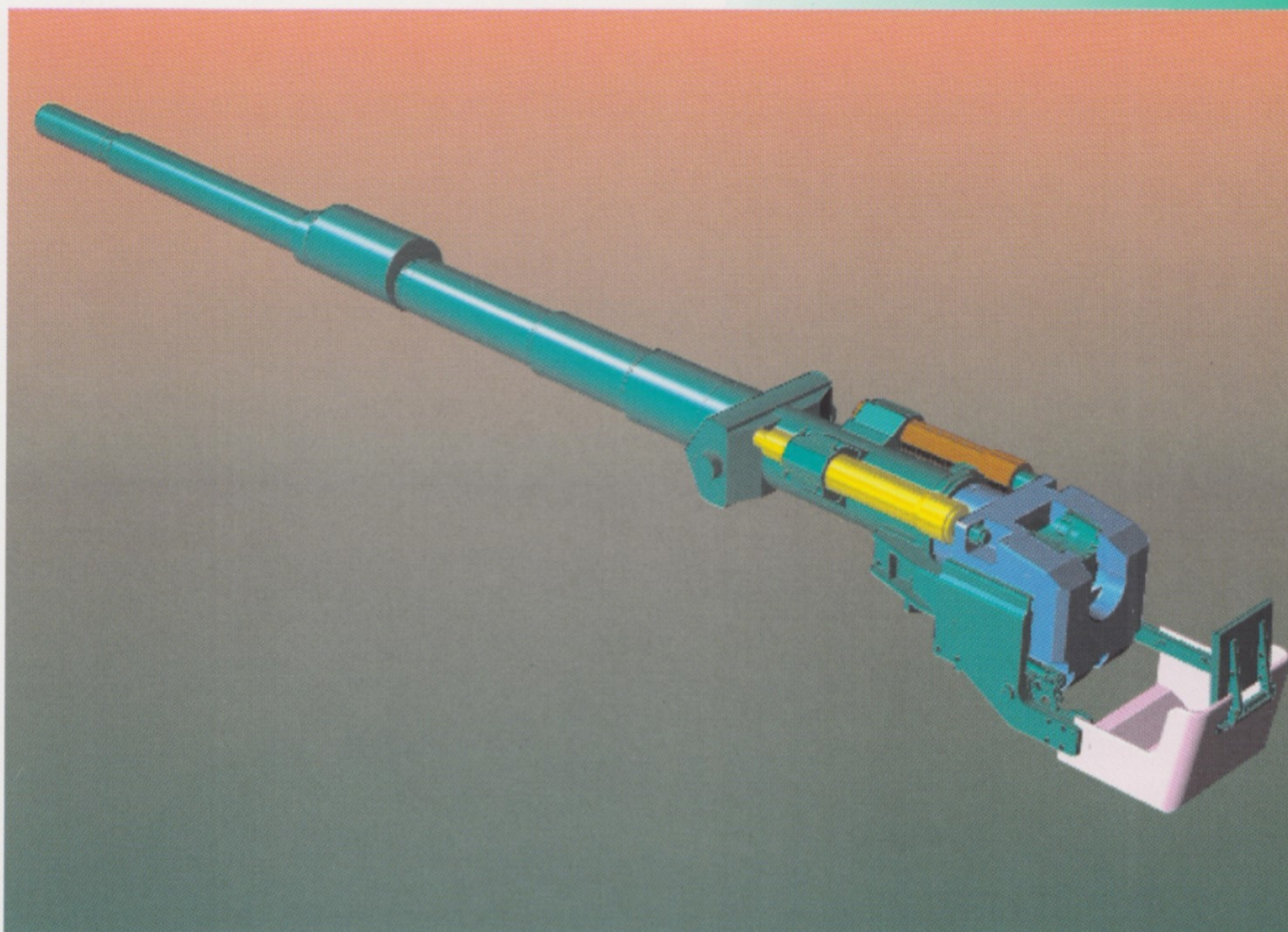


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Dimensions



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Barrel length

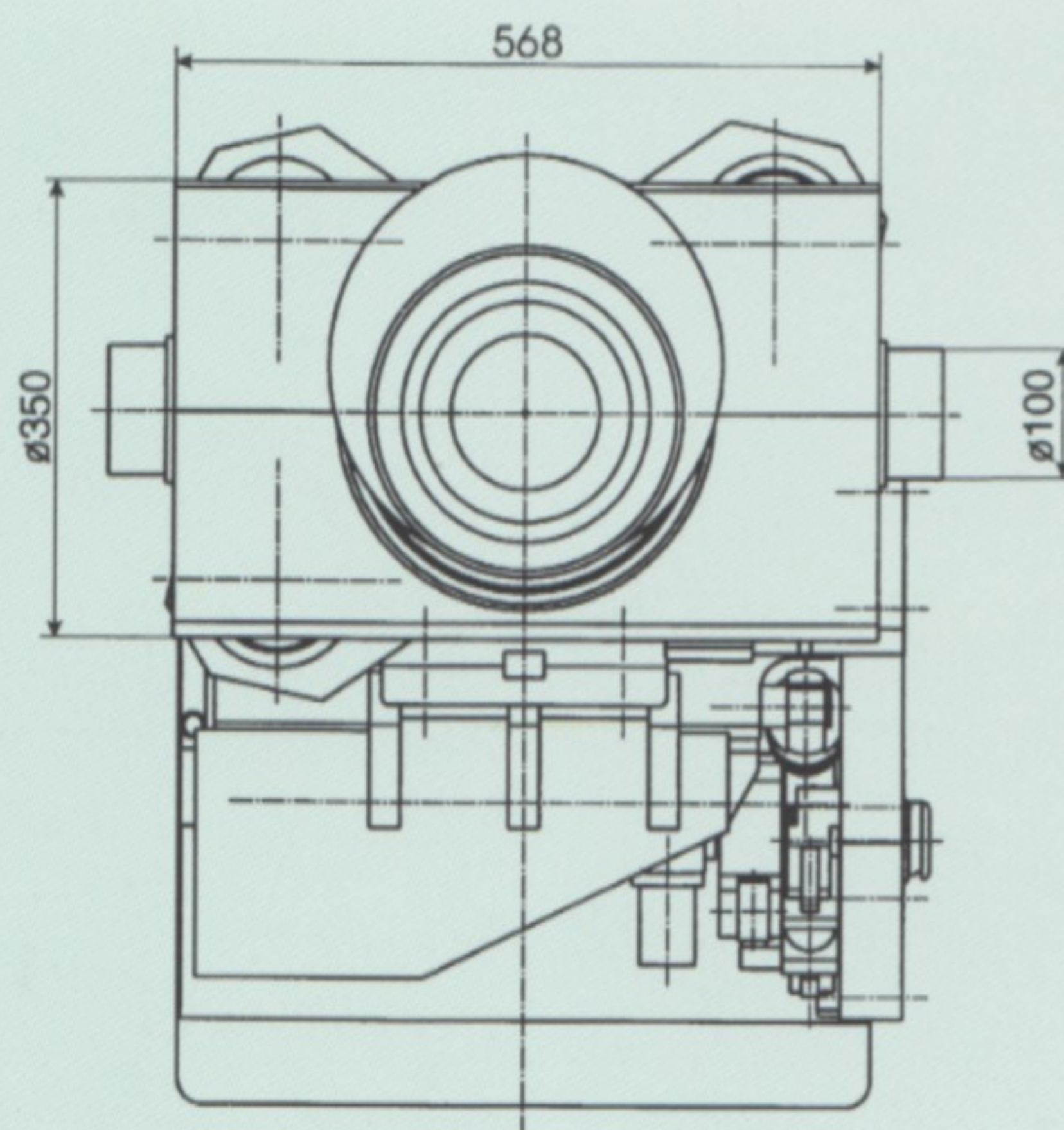
Cal	with muzzle brake	without muzzle brake
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L 50	6,000 mm	
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L 44	5,765 mm	5,280 mm
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Cradle

The design of cradle and muzzle brake as well as the length of the recoil travel may be adapted to the individual characteristics of the overall system.



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