

PD544
Point Detonating
Artillery Fuze



for high explosive (HE), base bleed and rocket assisted artillery shells

PD544

The PD544 is a mechanical point detonating artillery fuze with super-quick and delay functions.

It has been designed and qualified for use with 105 mm and 155 mm high explosive artillery shells, including extended range and base bleed ammunition. The fuze is suitable for use with 39, 45 and 52 calibre weapon systems and is safe and suitable for flick-ramming. The fuze has also been designed and qualified for use with 120 mm rifled mortars, providing full function at all charges including charge 0.

The fuze design incorporates a fully Insensitive Munitions (IM) compliant firing train which provides enhanced safety during storage, transportation and operational use. Fuze arming is initiated by transitional and rotational forces after firing, with the fuze rotor moving in-line immediately after the muzzle safety distance has been achieved.

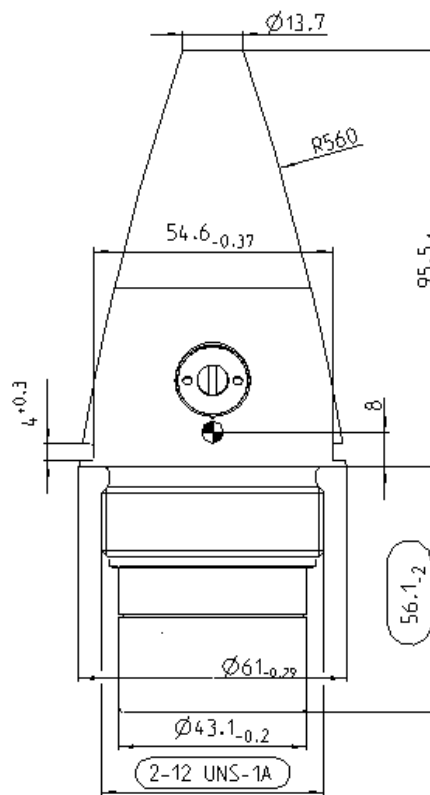
The firing pin and SQ detonator assembly provide the super-quick action upon impact.

The Impact Delay Device (IDD) is located in the rear part of the fuze and provides a 60 ms fuze initiation delay for target

penetration when the mode setter is set to "DELAY". When not set to "DELAY", the IDD provides a back-up function for the SQ setting.

The fuze consists of the following major components:

- Upper fuze body
- Lower fuze body
- Mode Setter
- Impact Delay Device (IDD)
- Safety and Arming Device (SAD)
- Booster assembly



Technical Data PD544

Muzzle safety	≥ 200 m (155 mm gun) ≥ 150 m (105 mm gun)
Required setback for arming	≥ 850 g
Max. setback	26,000 g
Required rotation for arming	$\geq 2,900$ rpm
Max. rotation	25,000 rpm
Storage temperature range	-54°C to +71°C
Operational temperature range	-46°C to +63°C
Dimensions	STANAG 2916
Weight	595 \pm 20 g
Shelf life	10 years
Compliance with MIL-STD 1316E / STANAG 4187 Ed. 4, MIL-STD 331C / STANAG 4157 Ed. 2	

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