



NEXT GENERATION ELECTRONIC PD FUZE

Safe
Reliable
For All Calibers
Delivers Top Performance !

EPD

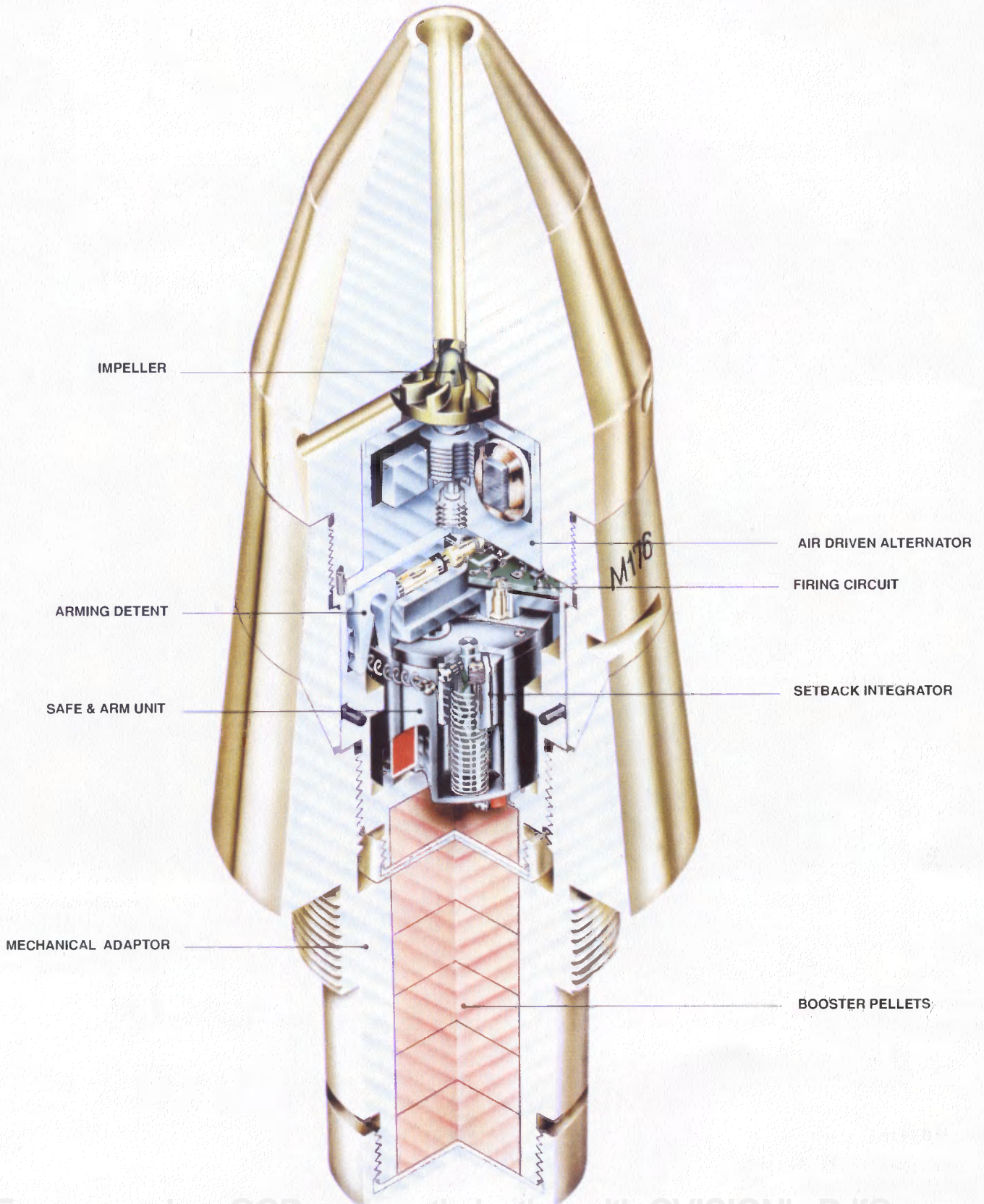
M176

M176 is an Electronic point Detonating (EPD) fuze for Artillery Rockets

- *wide compatibility*
- *meets all safety requirements of MIL-STD-1316D / STANAG 4187*
- *no use of safety pull wire*

RESHEE TECHNOLOGIES LTD

EPD M176 ARTILLERY ROCKETS ELECTRONIC POINT DETONATING FUZE



TECHNICAL SPECIFICATIONS

GENERAL:

The M176 is an Electronic Point Detonating (EPD) fuze for artillery rocket systems. This fuze fully complies with the STANAG4187, MIL-STD-1316D and does not use a safety pull-wire.

COMPATIBILITY:

With artillery rockets having high explosive (HE) warheads, of calibres of 2.75", 110mm to 300mm. The fuze is designed to fit different sizes of fuze cavities, with minor modifications (adaptors).

ARMING:

Fuze arming (when the explosives are in one detonating line) is done by two independent arming mechanisms:

- Set back forces for a minimum duration.
- sustained air flow through the fuze.

SAFETY:

- Set-back:** Acceleration of 20 g minimum for a duration of 0.1 sec. minimum.
- Air Flow:** 100 m/s minimum.
- Missequencing:** The mechanism prevents arming the fuze whenever arming condition of "air flow" precedes arming condition "set Back".
- Fail safe mechanism:** Self-lock system in safe position, whenever missequencing occurs without external arming possibility.
- Arming distance (SSD):** 500m minimum from muzzle.
- Shorted detonator:** The electronic detonator is shorted until full arming is achieved.

POWER SUPPLY:

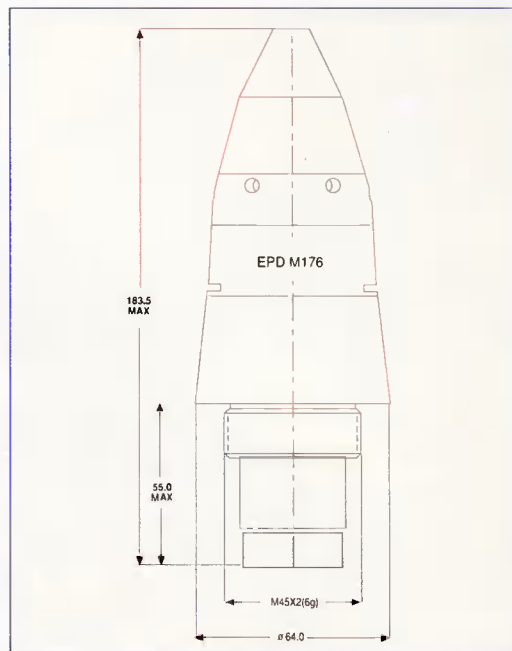
Air driven (turbine) alternator

EXPLOSIVE ELEMENTS:

- Detonator - Microdetonator, electric 1DT160/D185BO (M100)
Lead charge - PA510
Booster pellet - 32 gr. of CH-6

TEMPERATURE LIMITS:

- For firing - from - 40°C to + 63°C.
For storage - from - 54°C to + 71°C.



EPD M176 FUZE

PHYSICAL DESCRIPTION*

- Total length -** 183.5 mm
Intrusion depth - 55.0 mm
Cross section diameter - 64.0 mm
Thread size - M45 x 2 - 6 g
Weight - 0.75 kg

* Note: The dimensions given here are for the 122m rocket version.

MILITARY STANDARDS:

- MIL-STD-331B-** Environmental and performing tests for fuze and fuze components.
MIL-STD-1316D - Fuze design, safety criteria.
STANAG-4187 - Fuzing system - safety design requirements.