The M200 HEDP
A new generation of rifle grenade
Background

- Modern references to the rifle grenade start in the 1904 Japan – Russia war
- Used in Second World War but reached a peak usage in Korean War
- Displaced by 40mm grenade launcher
- Still used extensively by some defense forces
- Resurgence of interest, as additional weapon not alternative to M203
Overview

- **M200 uses well proven bullet trap**
  - No bullet to worry about
  - No special cartridge required, fires with standard 5.56 or 7.62

- **No launcher required**
  - Grenade slips over flash hider
  - No added bulk to weapon
  - Every soldier in the squad has one

- **Electronic fuze**
  - MIL-STD-1316 - Two totally independent arming environments
  - Fast acting base detonating fuze ideal for shaped charge
  - Excellent graze sensitivity
  - Self sterilization - impossible to rearm
Overview

Explosive Charge

Booster

Copper cone

Lead charge, 2 pellets

Safety & Arming device

Trigger Piezo

Bridge-wire detonator

Shock absorber

Tail tube

Bullet trap

Piston

Charging Piezo

Electronic circuits

Tail fin
- No stored energy
- Bullet impact
- Charge generated by piezo
- Acceleration of grenade due to gun gas

- Safety and arming brings detonator in line
  - 120 msec
  - 6 - 8 m
- Electronic delay allows firing circuit to be active
  - 290 msec
  - 10 - 20 m
Fuze Functioning

- On impact trigger piezo closes firing circuit
  - Shock travels at sound speed through body
  - Acts on 1mm cardboard
- Shaped Charge capable of penetrating 80mm RHA
- Fragmentation comparable classic hand grenade
- Sterilization after 40 sec in event of soft landing
Enhancing small arms effectiveness