

GENERAL DYNAMICS

Ordnance and Tactical Systems



Event #0610
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Dallas, Texas

"21st Century Weapons Systems – Providing the Right Response"

**GD-OTS' 25mm Non-Energetic Fragmenting (NEF)
Cartridge
(Enhanced 25mm PGU-20)**



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25mm NEF Cartridge - Enhanced PGU-20

Joint development by:

General Dynamics –
Ordnance and Tactical Systems (GD-OTS)
Marion, Illinois

and

the Army Research and Development
Engineering Center (ARDEC)
Picatinny, New Jersey



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25mm NEF Cartridge - Enhanced PGU-20



Delivering Lethality to Target

- Air-to-Air → thin-skinned targets
- Air-to-Ground → armored targets

25mm NEF
Cartridge

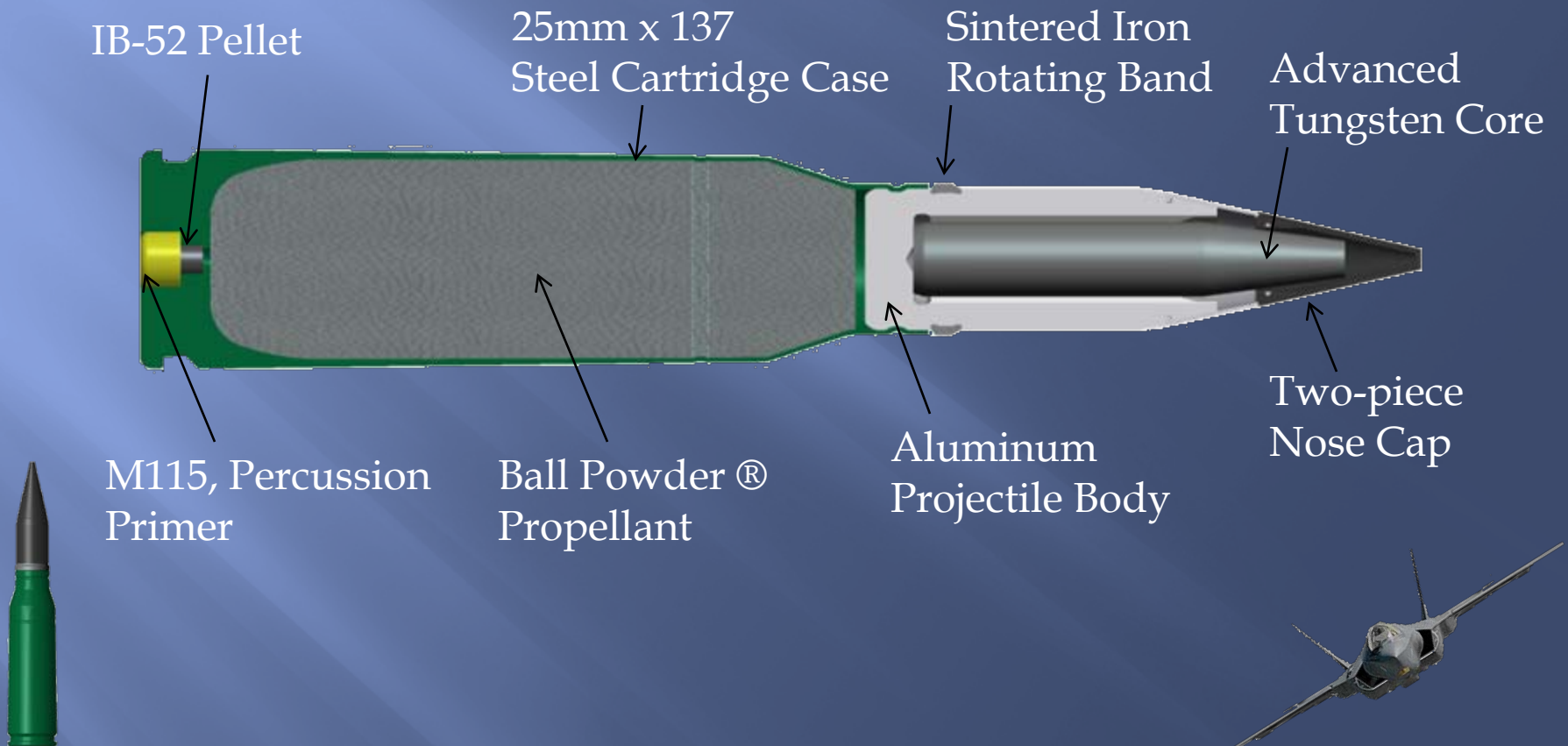


25mm
GAU-22A
Cannon



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Armor Penetration (Air-to-Ground Combat)

- Advanced Tungsten Core - developed by ARDEC to provide significant improvements to standard tungsten alloys.
- V50 Data and Performance Capabilities are classified.
- The 25mm NEF Cartridge ("Enhanced PGU-20") easily exceeds the Joint Strike Fighter requirements.

**More Penetration = Lethality
Against More Targets**



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Fragmentation (Air-to-Air Combat)

- Two-Piece Nose Cap - specially designed for transfer of forces to body and core.
- Projectile Body - incorporates features to promote separation and fragmentation of body upon impact with thin-skinned targets.
- Advanced Tungsten Core - provides a large pattern of high density fragments creating damage within the target.



**High Density Fragments =
More Damage = More Kills**



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The **25mm NEF** Cartridge (“Enhanced PGU-20”) provides the JSF war fighter **lethality on target** whether it is in the **air** or on the **ground**.

