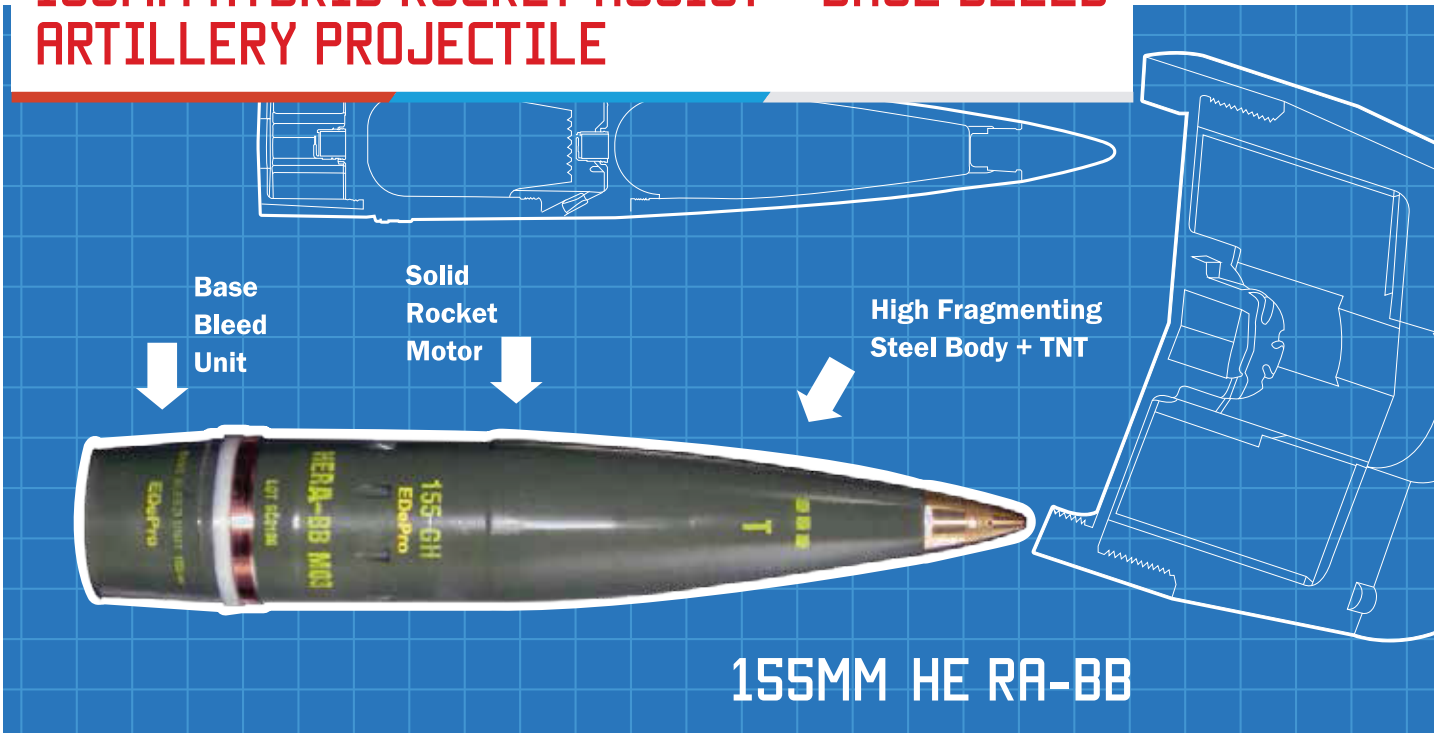
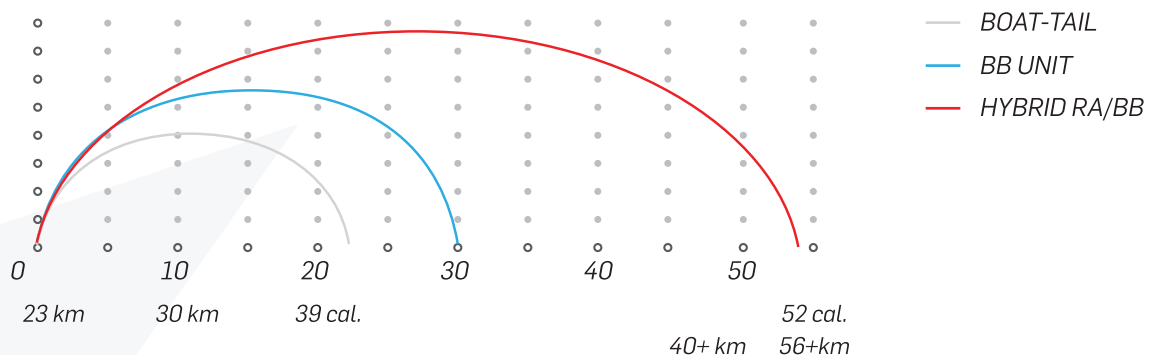


## 155MM HYBRID ROCKET ASSIST – BASE BLEED ARTILLERY PROJECTILE



HE RA/BB 155mm projectile is rocket assisted base bleed projectile that will extend the operational range of most 39, 45 and 52 caliber 155mm gun howitzers by 10km, depending on the gun and charge used. The biggest contribution is on the 39 caliber gun howitzers which will have the same performances as 52 caliber system with ERFB-BB projectiles.

HE RA/BB 155mm projectile intent is not to replace existing HE projectiles. It complements existing ammunition systems for greater ranges, requiring no special training or logistics. HE RA/BB 155mm enables 39 caliber 155mm gun howitzer to engage enemy battle units at greater ranges, well beyond the range of their counter battery fire. It also enables long range harassment fire onto enemy logistic lines, forcing them to deploy an additional +10km from front edge of the battle area. Its terminal effectiveness (blast and fragmentation) is the same as that of the standard round. Penetration/piercing capabilities will give excellent performances in anti-structural use.

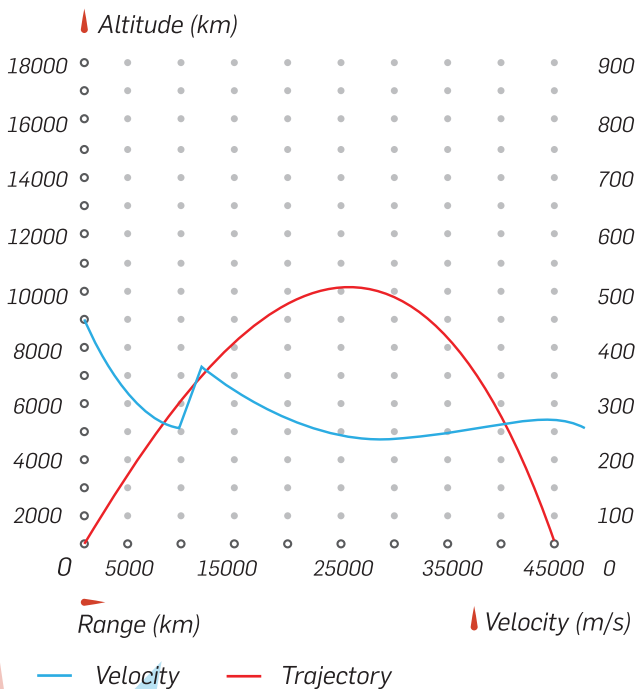


## TECHNICAL CHARACTERISTICS

Caliber	154.74 mm
Total Mass Defuzed	47.59 kg
Length Defuzed	808 mm
Explosive Charge - TNT Mass	~4.6 kg
Rotating Band Diameter	157.86 mm
Solid Rocket Propellant Grain Mass	~3.4 kg
Base Bleed Propellant Grain Mass	~1.3 kg

## WEAPONS

M109ASeries (USA)	FH70(UK, Germany, Italy)
M198(USA)	M139(Netherlands)
M114/39(USA/Netherlands)	M46/84(Serbia) ...
FH77B(Sweden)	



## BALLISTIC DATA (EST)

Projectile with Fuze	899 mm
Total Mass	48.15 kg
Muzzle Velocity	940 m/s
Maximum Chamber Pressure	430 Mpa
Maximum Range	56200 m
Accuracy:	
Dispersion in Length	0.75%
Dispersion in Side	0.75%
Temperature Range	-40 °C ~ +63°C

## Rocket Motor Characteristics

Total Impulse	> 5600 Ns
Propellant Mass	~3.4 kg
Specific Impulse	> 1650 Ns/kg
Ignition Delay	17 s ± 2s

## + Forces Acting upon Propellant Grain

"g" Level	16000 g max
Rotation Speed	18000 rev/ min

= EDePro Thermoplastic Composite Propellant- Type Flexolite F7 (burning rate low sensitivity to spin, high mechanical properties)



## EDePro Contacts

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