



THUNDER P31 - ER / P32 - ER

LONG STAND-OFF. LETHAL ACCURACY.

AIR LAUNCHED EXTENDED RANGE GUIDANCE KITS FOR MK-81 & MK-82

The THUNDER P31/32 - ER family of guidance retrofit kits converts legacy general-purpose MK-81 and MK-82 bombs into precision stand-off glide munitions. The kits give operators a cost-effective solution for long-reach, high-accuracy strikes.

Both P31 - ER and P32 - ER provide all-weather accuracy and modular fusing options for tailored mission effects. The GAINS module ensures precise mid-course navigation, while the SAL seeker provides pinpoint terminal guidance against static or moving targets.

SPECIFICATIONS

KEY FEATURES

- Static and moving target engagement
- All-weather, day/night operation
- > 80 km stand-off release capability
- STANAG-3733-compliant SAL seeker
- MIL-STD-1760E digital interface
- Configurable fuse options (proximity/contact/penetration
- Suitable for:
 - Mirage 2000
 - F-16
 - Rafale
 - UAVs
 - Light strike platforms such as A-29, B-250

TECHNICAL DATA

	P31 - ER	P32 - ER
Length, m	~2.0 m	~2.5 m
Diameter, mm	~230 mm	~280 mm
Length, mm		~4.0 m
Diameter, mm		~410 mm
Max. Range, km		+80 km
Max. Launch Altitude, ft		42,000 ft
Min. Launch Altitude, ft		15,000 ft
Navigation		GAINS + SAL
Accuracy, CEP, m		3 m
Seeker Type		SAL STANAG 3733 compliant
Target Type	Stationary, Moving Main Battle Tanks, IFVs, Personnel, Soft-skinned Vehicles, Buildings, POL installations, Parked aircraft Electrical Infrastructure; Suitable for Effects Based Operations	
Kit Weight, kg		~70 kg
Deployment Platforms	High-energy carriers (Mirage 2000, F-16, Rafale) Low-energy carriers (A-29, various UAVs)	
Launcher Interface		MIL-STD-1760 E