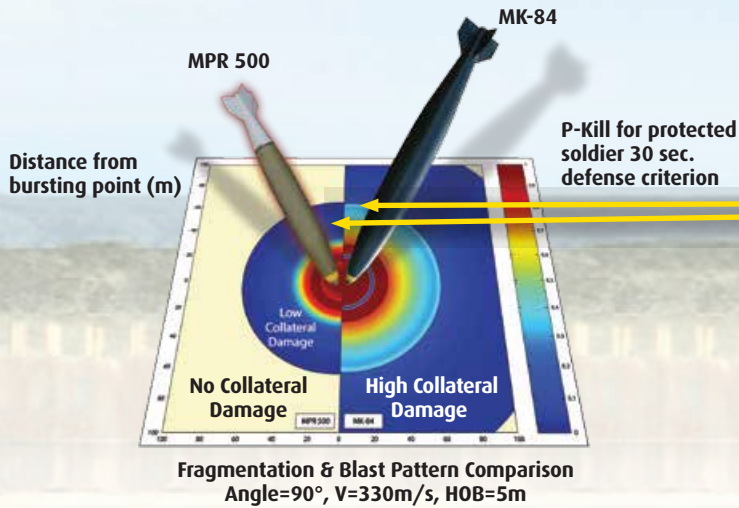


MPR 500

500 lb multi-purpose rigid GP bomb



MPR 500 – The powerful MK 84 with MK 82 dimensions



MPR 500

500 lb multi-purpose rigid GP bomb

The MPR 500 is a combat-proven 500 lb (230 kg) multi-purpose rigid penetration and surface attack bomb, part of a family of next-generation general purpose (GP) bombs with a reliability of more than 95%. The MPR 500 delivers the effective performance of the powerful MK 84 GP bomb with the dimensions of the MK 82.

Improved penetration and attack capabilities

The MPR 500 is capable of penetrating four reinforced concrete walls or floors 200mm thick each, or 1m of reinforced concrete. No "J" effect enables a straight penetration path to the target. MPR 500 also includes 26,000 controlled fragments to deliver concentrated blast and controlled fragmentation effects, for high kill probability with low collateral damage against a wide range of targets in open terrain.

MPR 500 is fully compatible with the MK 82 guidance systems and standard fuzes, and is approved by Boeing as compatible with the Joint Direct Attack Munition (JDAM) guidance kit.



Fragmentation & Blast Effect



Key Benefits

- General Purpose (GP) bomb: Penetration and Fragmentation
- Over 95% reliability
- Low target engagement cost
- Flexible operation and maintenance
- Compatible with guidance kits such as JDAM, Paveway II, Lizard, etc.
- Low collateral damage
- Compatibility with jet fighters and close air support

Key Features

- MK 82 form and fit with better than MK 84 performance
- No “J” effect
- Concentrated fragmentation



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MPR500 vs. MK-82/84 - Performance Comparison

Penetration of Concrete at 330m/s	Max. Thickness at 80° Impact (m)	> 1	< 0.2	< 1
	Number of Ceilings	4	< 1	< 4
Fragments & Blast In Open Terrain	Number of Controlled Fragments	~26,000	0	0
	Kill Area (m ²) for Pk > 80% Protected soldier 30 sec. Alert defense criterion	~2,200	~380	~3,000
Collateral Damage	Max. Fragmentation Risk Range (m)	60-100	Hundreds	Hundreds



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