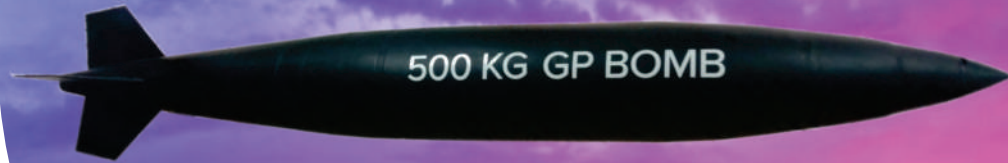


Munitions India Limited

Accurate. Lethal. Reliable.



AIR FORCE AMMUNITION



- Quantum leap in Exports
- Over 95% Indigenisation
- Strong technological base



AIR FORCE AMMUNITION

AERIAL BOMB 500 KG GP



- 500 kg GP Bomb is an air-dropped weapon intended to neutralize a variety of targets varying from soft skinned to moderately protected targets in the close vicinity of bomb impact
- The bomb has two modes of functioning i.e. on impact and with impact delay.
- In the impact mode, bomb generates blast and natural fragmentation effects
- In the impact delay mode, the bomb penetrates into the RCC targets and explodes within the target causing extensive structural damage and confined blast effects.

PHYSICAL PARAMETERS

Total length of Ammunition	3031 mm
Weight of Empty Bomb	280 Kg (Approx.)
Filled weight of Bomb	463 KGs \pm 3 Kgs
Weight of filling	185 KGs \pm 3 Kgs
Center of gravity	1200 \pm 15 mm
Density	1.68 \pm 0.02 gm/ cc (min)
Explosive used	Torpex-4B



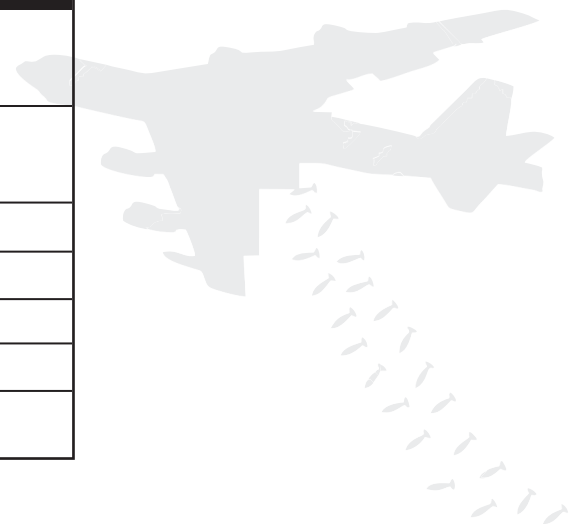
AERIAL BOMB 1000 LBS HE



The Bomb HE 1000 LB is made of Cast Steel construction open at both ends. The Bomb body is filled with high explosive. The nose opening is closed by an exploder container. The rear end of the body is under cut internally, to form a lip in which are out two diametrically opposite slots. It can be dropped from heights as high as 15000 metres. It penetrates deep into subsoil strats and detonates giving earthquake effect. Against concrete runways penetrates deep and detonates leaving a crater of approx 6m x 3m deep thus putting them out of commission.

PHYSICAL PARAMETERS

Length of Ammunition with Tail Unit	7 ft.6 inch approx.
Total Weight of filled Bomb W/O Tail Unit	450 Kg Approx.
Tail Unit Length	2ft. 4.5 inch approx.
Weight of Tail Unit	25.36 Kgs
Charge Mass	186 KGs \pm 5 Kgs
Centre of gravity	808 \pm 20 mm
Explosive Used	Torpex-4A



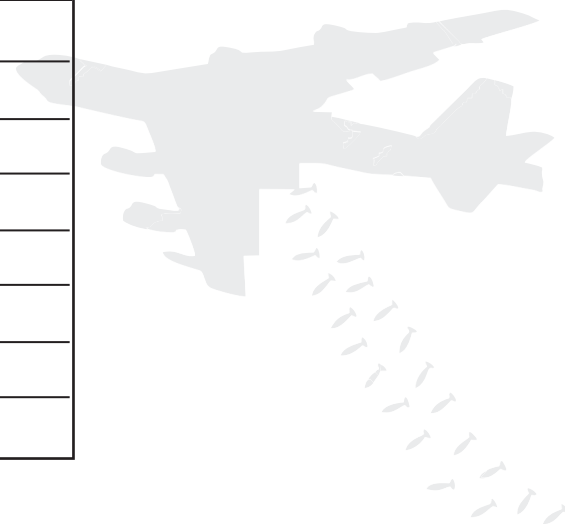
AERIAL BOMB 450 KG HSLD



It is carried on different fighter planes and dropped from heights . It penetrates deep into subsoil and starts to detonate giving earthquake effect. Against concrete runways penetrates deep and detonates leaving a crater thus rendering it non operational.

PHYSICAL PARAMETERS

Total length of Ammn	280 cm
Weight of Empty Bomb	255±7kgs
Volume of Empty Bomb	117000 cc
Filled weight of Bomb with BTU	450 KGs ± 25Kgs
Weight of filing	200 Kgs ± 5kgs
Center of gravity	1155 ± 20mm
Density	1.70 gm/cc (min)
Explosive used	DENTEX



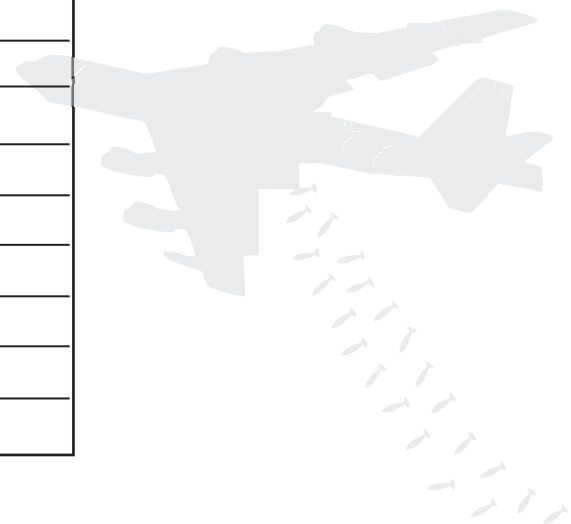
AERIAL BOMB 250 KG HSLD



It is carried on different fighter planes and dropped from heights . It penetrates deep into subsoil and starts to detonate giving earthquake effect. Against concrete runways penetrates deep and detonates leaving a crater thus rendering it non operational.

PHYSICAL PARAMETERS

Length of Ammunition	237 cm
Weight Empty of Bomb	135 Kgs
Volume of filled Bomb	60000cc
Weight of Bomb with tail unit	250 KGs \pm 25 Kgs
Empty weight Bomb	145 \pm 5 Kg
Filled weight	250 \pm 8 Kg
Charge Mass	103 \pm 3 kg
Center of gravity	972 \pm 20mm
Density	1.7 gm/ cc (min)
Explosive Used	Dentex

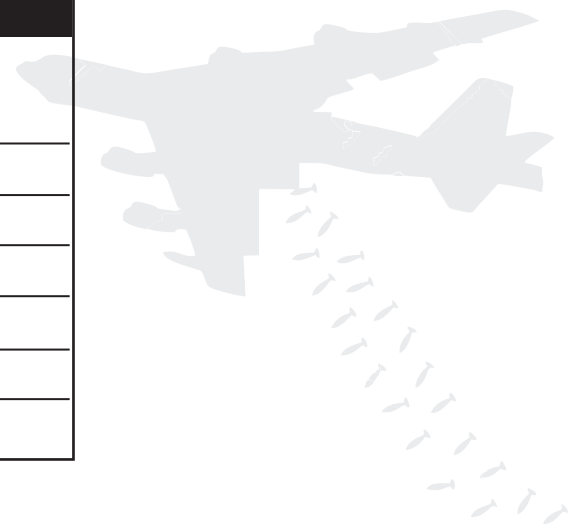


AERIAL BOMB 100 - 120 KG

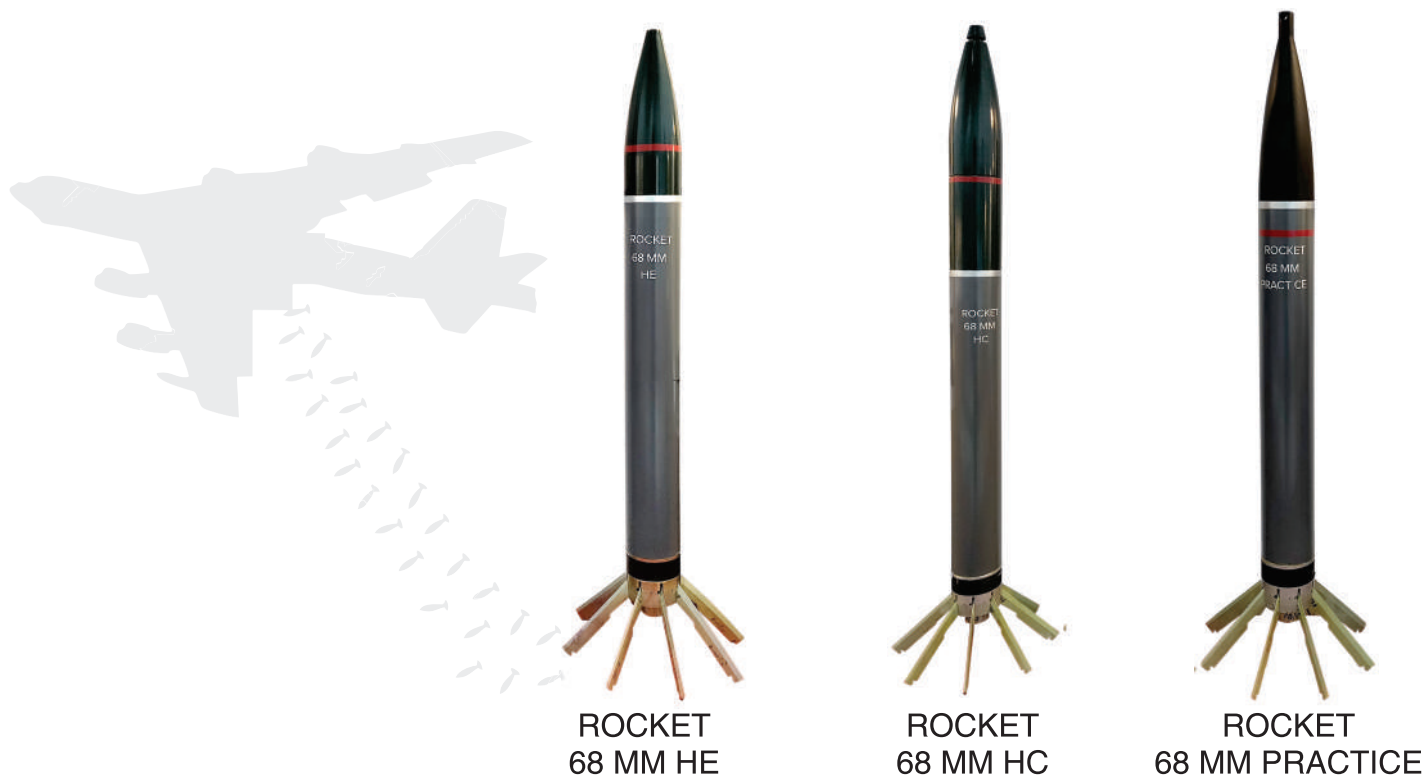
100-120 Kg aerial bomb is used to target industrial, military field installations, railway junctions and airfields etc. Primarily as well as also for anti personnel applications. The aerial bomb 100-120 Kg is intended to be used as a target bomb at horizontal flights and altitudes between 50 to 500 m and airplane speed between 500 to 1150 km/hr. The bomb is delivered by aircraft such as MiG-21, MiG-27 & MiG-29

PHYSICAL PARAMETERS

Weight of Bomb with AVU - ETM fuze	123+3 kg
Empty weight of Bomb	73.5 kg Max
Total filled weight	Max 122kg
Charge Mass	47±1.5 kg
Center of gravity	345- 355mm
Density	1.70 gm/cc (min)
Explosive used	DENTEX



ROCKET 68 MM



ROCKET
68 MM HE

ROCKET
68 MM HC

ROCKET
68 MM PRACTICE

Weight without Fuze	4.100kg ±110 gm.	5.275 kg ±110 gm.	4.100kg ±110 gm.
Length without Fuze (Plugged)	820.50 mm	942.20 mm	838 mm
Filling type standard RDX	TNT 60:40 Type 'A'	TNT 60:40 Type 'A'	HE Substitute (inert Composition)
Filling Weight	760 ± 25 gm.	250 gm.	550 gm. Approx
Compatible Fuze	Fuze Rocket 24A HE (Base Fuze)	MK-II (Base Fuze)	Fuze Rocket 24A HE
SNEB Propellant (inhibited)	1.5 kg	1.5 kg	1.5 kg
Maximum Pressure	300 kg / sq cm	300 kg / sq cm	300 kg / sq cm
Thrust	500 kg	500 kg	500 kg
Operating Temp.	-40° C to + 70°C	-40° C to + 70°C	-40° C to + 70°C
Packages	1 Rocket packed in container 1203 and 06 containers packed in 1 Steel Box 412-S/4	1 Rocket packed in container 1203 and 06 containers packed in 1 Steel Box 412-S/4	1 Rocket packed in container 1203 and 06 containers packed in 1 Steel Box 412-S/4
PURPOSE:	Designed primarily for Air to Ground deployment. Very light, fast and accurate.		

Munitions India Limited [MIL] is Defence Public Sector Enterprise [CPSE] under the Ministry of Defence, Government of India.

MIL, India's biggest manufacturer and market leader is engaged in Production, Testing, Research & Development and Marketing of comprehensive range of ammunition & explosives for Army, Navy, Air Force & Para-Military Forces.

With Corporate Office at Pune (India), MIL in its 12 state-of-the-art manufacturing units located across the country employs skilled workforce of around 23,000. These factories have proven integrated base for production of Small, Medium & High Calibre Ammunition, Mortars, Rockets, Hand Grenades etc. with in-house manufacturing of Initiatory Compositions, Propellants and High Explosives for over 150 years. Our primary objective is to provide competitive edge to the Armed Forces by equipping them with modern and quality battlefield ammunition.

Our foreign customers include countries located in North America, South America, Europe, Africa and Asia. The patronage we receive from our customers both in India and abroad reflects their faith in quality of our products and services. We are the Force behind the Armed Forces.

MIL with its 12 manufacturing units provide :

- A broad and versatile production base with multi-technology capabilities
- State-of-the-art manufacturing facilities
- Large pool of skilled and professionally qualified manpower and managerial personnel
- Strict adherence to quality standards (all units are ISO-9001 certified)
- Original as well as adaptive Research & Development
- A strong base for industrial training & testing



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