

VPRAB-500

Hardened Penetration Aerial Bomb



The hardened penetration aerial bomb, vPRAB-500, is used for the annihilation and neutralization of reinforced objects located on the surface, buried under the ground or sheltered behind rocky terrain. Its destructive effect is realized by penetrating through the object's protective walls and after penetration, using a controlled detonation of its explosive charge, it sends a shock wave primarily and secondarily uses its bomb body for steel mantle fragmentation.

The penetration effect is achieved by kinetic energy generated from the sum of the kinetic energy at the instant of releasing from the aircraft and the energy potential of gravitation. The penetration effect is in direct dependence to the aircraft flight speed at the moment of bomb delivering.

The bomb can be used as unguided or as warhead of guided aircraft bombs.

The bomb is aerodynamically shaped and during the flight on its ballistic path it is stabilized by rotation, determined by its stabilizer fins.

The bomb is designed for bombing from adequate NATO standard aircrafts. There is an option for the possibility to be used in aircraft of the RUSSIA standard.

TECHNICAL SPECIFICATIONS:

• Body length without stabilizer	1895 mm
• Length with stabilizer	2917 mm
• Body diameter (max)	249/295 mm
• Suspension lugs clearance	355.6 mm (14in.)
• Body mass of the produced bomb	424 kg
• Gross weight with stabilizer	450 kg
• Mass of explosive charge - nominal	115 kg
• Explosive type	TNT, Comp B or TRITONAL
• Flight speed at bombing	130 - 310 m/s (600 kn)

