

UMBANI

Precision-guided Bomb Kit



Umbani is a low-cost, high-performance bomb kit that offers a long stand-off range on a number of aircraft. The modular kit can be used with the 120 kg MK81, 250 kg MK82 or 500 kg MK83 bomb, and can be adapted to suit a range of missions and targets.

DENEL DYNAMICS

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SYSTEM FEATURES

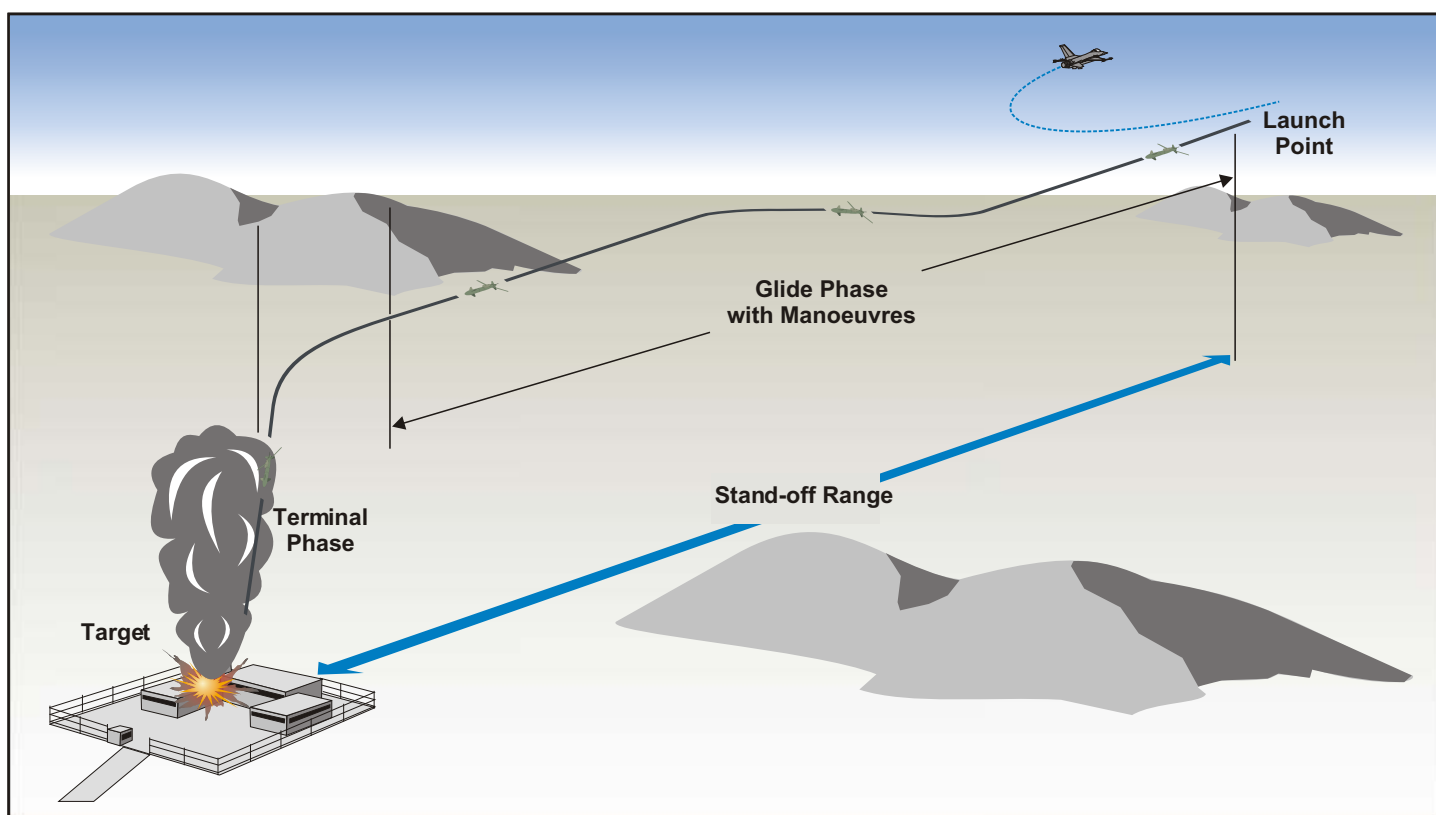
- Autonomous target acquisition with long stand-off range
- Wing kit or motors may be added to increase stand-off range and low-level (straight and level) launch capability.
- Programmable attack angle up to 90° (straight from above)
- Low cost
- Different adaptations possible, including seekers, fuzes and warheads, utilizing a common airframe

DESCRIPTION

Umbani is a strap-on bomb kit, used on MK81, MK82 and MK83 bombs. Umbani gives the user all-weather, day or night operational capabilities, by making use of GPS/INS guidance. Increased targeting accuracy can be achieved by using an Imaging Infrared (IIR) with complete Automatic Target Recognition (ATR) capability, or a semi-active laser seeker. The system can also be fitted with an RF proximity fuze for area targeting, using a pre-fragmented warhead.

TYPICAL MISSIONS AND TARGETS

- Offensive counter-air, e.g. hardened aircraft shelters, runway cratering, runway denial, aircraft on tarmac
- Battlefield interdiction, e.g. air defence units, surface-to-air missile launcher, supply columns (trucks)
- Deep battlefield interdiction, e.g. buildings, bridges and refineries, industrial areas
- Close air support, e.g. troops, artillery



CHARACTERISTICS

- Range up to 120 km (depending on configuration)
- Accuracy as low as 3 m CEP (laser or IIR)
- Warhead: MK81, MK82 and MK83 and variants
- Large launch envelope
- Fully autonomous operation once released
- Modular system
- Low maintenance and life-cycle cost
- Minimal logistics equipment
- Ease of use
- Extended Range (ER) module can increase range to 200 km.

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