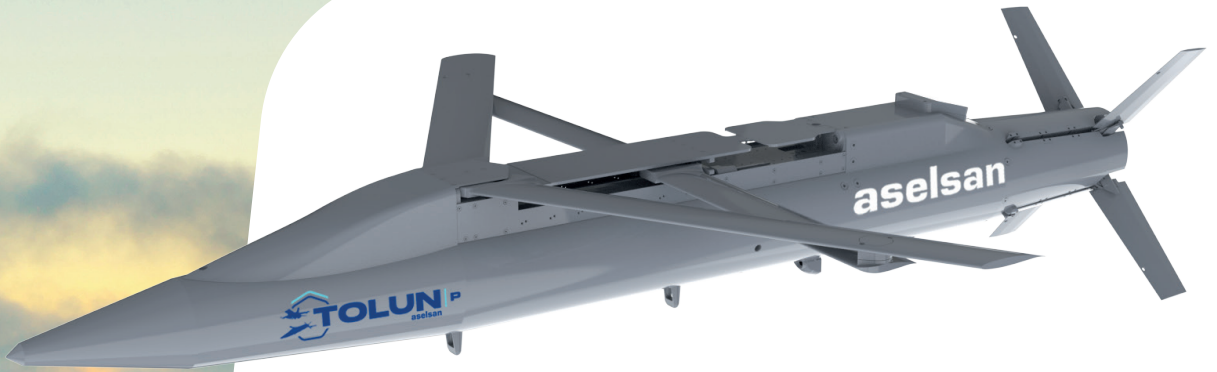




INS/ GNSS GUIDED ALL UP ROUND
MUNITION
#Guidance



GPS/INS GUIDANCE
LONG RANGE
AIR TO SURFACE
HIGH ACCURACY



aselsan



INS/ GNSS GUIDED ALL UP ROUND MUNITION

TOLUN P is a INS/GNSS guided gliding all up round ready 250 lb. weapon system carried on Smart Pneumatic Quad Rack (SPQR) (SADAK-4T).

TOLUN P is designed to maximize the number of weapons that can be loaded per aircraft. Additionally, it can be deployed and utilized in a standalone configuration, designated as TOLUN-SI due to mounting interface difference.

The TOLUN P features an advanced penetration warhead designed to effectively defeat both armored and non-armored targets. Capable of penetrating up to 1 meter of reinforced concrete, the hardened nose cone ensures maximum effectiveness against even the toughest targets. The system offers a delayed initiation mode via a fuse that is equipped with electronic safety and cockpit-programmable functionality, allowing precise control over detonation timing for diverse mission requirements.

With its cutting-edge technology, high targeting precision and offering low collateral damage, TOLUN P provides a reliable solution for a wide range of operational needs.

Main Specifications

- Launchable up to 4 in ripple release against single or multiple targets in one sortie
- High precision and low collateral damage
- Extended range with diamond shaped wings
- All-weather conditions
- Day/night operations
- Integrated GNS/INS navigation
- Resistant to jamming threat with 4-channel CRPA antijam antenna
- Embedded spoofing resistance software
- Re-targeting during captive flights
- Waypoints tracking
- Selectable impact angle in advance
- Low operational and life cycle cost
- High reliability and low maintenance
- Can be launched from internal weapon bay
- Combat proven

Technical Specifications

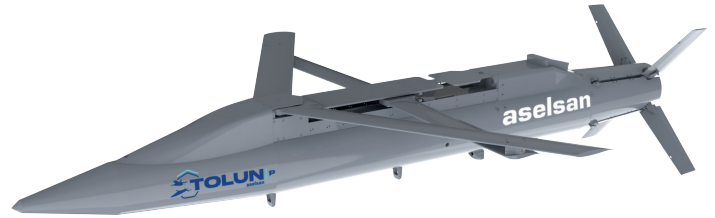
- | | |
|--------------------|---|
| • Range | : ≤ 55 NM (102 km) (Fighter)
≤ 31 NM (57 km) (UAV) |
| • Altitude | : 0- 40.000 ft (MSL) (Fighter)
0- 30.000 ft (MSL) (UAV) |
| • Accuracy (CEP) | : < 30 ft (10m) |
| • Guidance | : INS/GPS |
| • Warhead Weight | : 105kg |
| • Carriage/Release | : Quad (SADAK 4T) (TOLUN P)
Dual (SADAK 2T) (TOLUN P)
Single (TOLUN SI) |
| • Warhead | : Penetration |

Physical Specifications

- | | |
|---------------------------|----------------------------|
| • Weight (including bomb) | : 136 kg |
| • Length | : 1800 mm x 191mm x 253 mm |
| • Diameter | : 164mm |

Platforms

- F-16, AKINCI, ANKA-III, BAYRAKTAR TB3, KIZILELMA



Specifications are subject to change without any notice. | All tolerances are within ±10%.