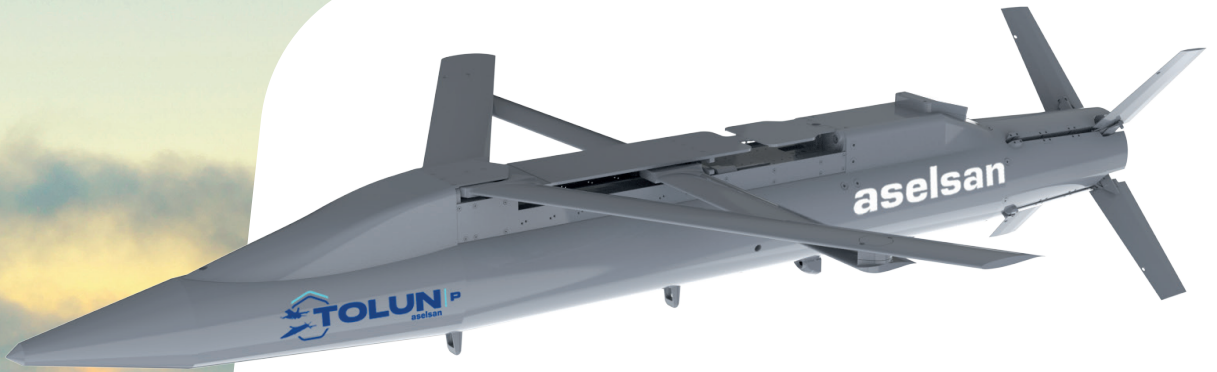




INS/ GNSS GUIDED ALLUP ROUND  
MUNITION  
#Guidance



GPS/INS GUIDANCE  
LONG RANGE  
AIR TO SURFACE  
HIGH ACCURACY



**aselsan**



## INS/ GNSS GUIDED ALLUP 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
- Prosecute targets of opportunity
- 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

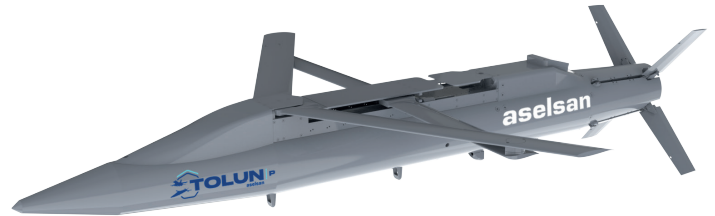
- |                    |   |
|--------------------|---|
| • Range            | : ≤ 55 NM (102 km) (Fighter)<br>≤ 31 NM (57 km) (UAV)                         |
| • Altitude         | : 0- 40.000 ft (MSL) (Fighter)<br>0- 30.000 ft (MSL) (UAV)                    |
| • Accuracy (CEP)   | : < 30 ft (10m)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

### Physical Specifications

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

### Certified Platforms

- F-16, AKINCI, ANKA-III, BAYRAKTAR TB2/TB3



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