



# FEDAİ UAV KILLER



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### General Features

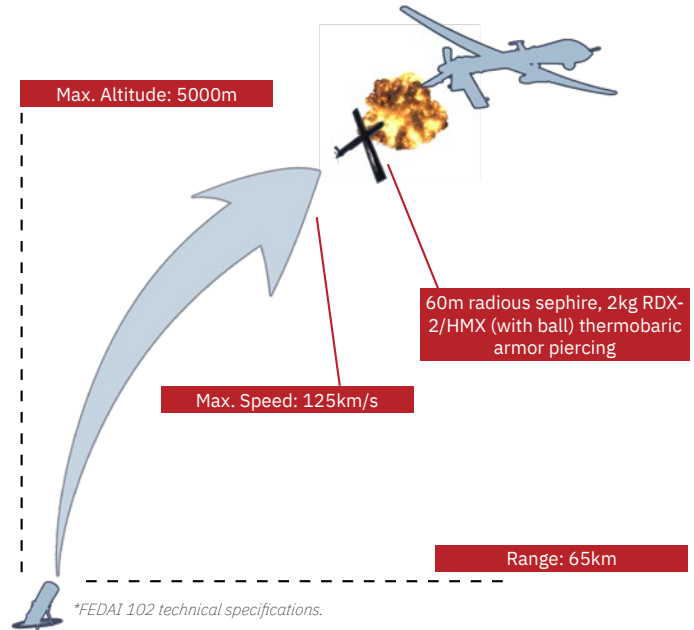
A tube-launched loitering munitions system equipped with a wing-folding mechanism.

The Fedai Loitering Munition System is a combat vehicular UAV that provides a highly targeted strike capability with either an antipersonal or anti-tank warhead.

The system's unique feature is a folding wing structure in order to fit inside a canister-launching system.

The system can be launched pneumatically from a tube mounted on any ground vehicle, or site at which point the wings unfold once it gets airborne. The addition of a DROKA radar and Thermal/Day-night cameras and FCS to the warhead allows for the assessment of a target before launching a strike, and a number of fail safe mechanisms means that missions can be easily aborted if intelligence is revised.

- High targeting accuracy
- Interchangeable warheads
- Low acoustic trace
- High performance
- Modular /Multi canister-launching system
- Integrated with DROKA Systems





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Technical Specifications	FEDAİ-101	FEDAİ-102
Max. airspeed	100 km/s (60 mph)	125 km/s (75 mph)
Max altitude	1200 mt (3,900 ft)	5000 mt (16,400 ft)
Range	40 km (25 mi)	65 km (40 mi)
Endurance	30 min	45 min
Weight	7,5 kg	9,5 kg
Length	1.2 mt	1.5 mt
Wingspan	2.10 mt	2.50 mt
Warheads	3 type	2 type
Fragmentation	50m radius sephire, 1,7kg RDX-2/HMX (with ball) thermobaric armor piercing	60m radius sephire, 2kg RDX-2/HMX (with ball) thermobaric armor piercing
Parasute Landing	Available	Available
Application	Single self contained launcher and multi channel Cannister (launcher) types are available (4x3, 6x4, 8x5 and others)	Single self contained launcher and multi channel Cannister (launcher) types are available (4x3, 6x4, 8x5 and others)

### STRIKE

The attack mode initiates a strike on a selected target, and control of the AV is fully-autonomous during a strike.

The user is shown a video feed, at the mobile control station of DROKA from the camera mounted on the front of the warhead and this can be used to assist in directing the aircraft.

### WARHEADS

The FEDAI airframe can incorporate various types of warheads (training, high-exposive anti-personal, anti-tank), which are interchangeable and can be changed in the field depending on the mission objectives. Effected zone: 3500, fragment: 30m radius Sephire with 2.4kg Semtex/TNT

### USER FRIENDLY

The FEDAI System part of DROKA mobile ground control station (GCS) that is easy to use and provides a real time video feed to the user. A wide range of autonomous flight modes can be managed at the GCS.

### RAPID DEPLOYMENT

The take-off of the FEDAI is fully automated. The platform is launched from a tube mounted on any vehicle.

The UAV is launched following a series of pre-flight tests to ensure communication between the ground control station and the AV. Take-off is fully automated ensuring that the AV will climb to 5000 m before switching to the chosen flight plan.

### FLIGHT MODES

**Auto mode** - the main flight mode that is pre-programmed by the user prior to a flight. During this mode the AV will take-off and then follow a series of waypoints according to a flight plan. However, at any point during this mode three further modes can be activated

**Loiter flight mode** - The AV orbits a point over the ground.

**Fly to coordinate** - This flight mode is similar to the 'Loiter Flight Mode' except that the AV will fly from its current position to a new position set by the operator.

**Cruise** - This mode causes the AV to fly in a straight line in the direction that the camera is facing.

**Search** - This mode is use for slow diving flight necessary for proper target selection.

**Attack** - This mode initiates a strike. The automated videotracker allows for a precise target hit without the operator's control even after the loss of communication.

### ABORTING A MISSION

Landing of the vehicle, in an emergency is possible using a manual landing flight mode. The air vehicle will land, by belly landing, in any open area identified by the user. In addition, the warhead may be detonated remotely when the air vehicle is in flight allowing for the abortion of a mission.