



LPP
HOLDING



MTS-5E

UAS SOLUTION

MTS, or Modular Tactical System, is an in-house, swiftly deployable, and easily transportable UAS with autonomous visual navigation and target optical systems. The system includes an automatic catapult platform and GCS with planning software.

MAIN FEATURES

- + Advanced Visual Navigation
- + LPP AI powered navigation in GNSS-denied areas
- + Easy to disassemble into parts suitable for transport
- + Fast deployment through catapult acceleration system
- + Target optical tracking for accurate terminal phase of autonomous missions
- + HEAT or HEFRAG cumulative or fragmentation warhead
- + Warhead safe, arm and initiation system
- + Auto destruction in case of critical failure

TARGET OPTICAL TRACKING

In the terminal phase of the flight path, the drone employs target optical tracking using onboard HD camera to detect and lock onto pre-defined target.

- + Target Angle and Relative Position Computation
- + Flight Path Planning
- + Flight Dynamics Consideration
- + Safety and Obstacle Avoidance
- + Iterative Control
- + Predefined Flight Path and Slope



NAVIGATION SYSTEM

The MTS navigation system fuzes positioning data from multiple sources and, through LPP AI algorithms, provides precise localisation for the autopilot.

- + Inertial navigation
- + Barometric airspeed and altitude measurement
- + Digital compass
- + GNSS including GPS, GLONASS, or regional systems
- + LPP Advanced Visual Navigation

HEAT WARHEAD

Cumulative anti-armor capabilities to engage and eliminate enemy medium and heavy armored targets.

Penetration up to 300 mm RHA

Explosive amount 320 g

Weight 700 g

HEFRAG WARHEAD

Specialized explosive designed primarily to engage lightly armored and unarmored enemy forces.

Lethal radius 25 m lethal / 50 m shock wave

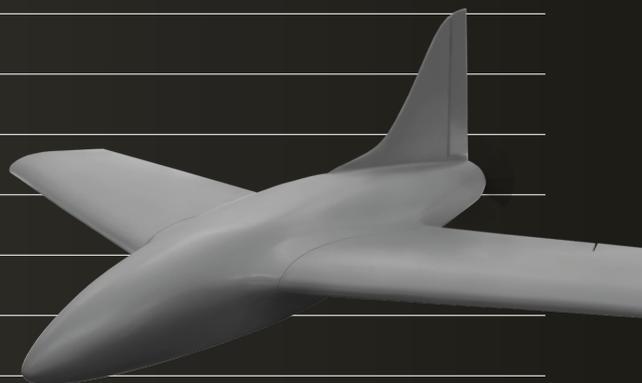
Explosive amount 320 g

Weight 1100 g

TECHNICAL SPECIFICATION

MTS-5E

Purpose	Autonomous loitering munition
Wingspan / Length	1670 mm / 850 mm
MTOW	5,5 kg
Cruise speed / Max. speed	80 km/h / 160 km/h
Payload	Up to 2 kg
Range / Endurance	40 km / 45 min
Propulsion	Electric motor
Launch	Electric catapult



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