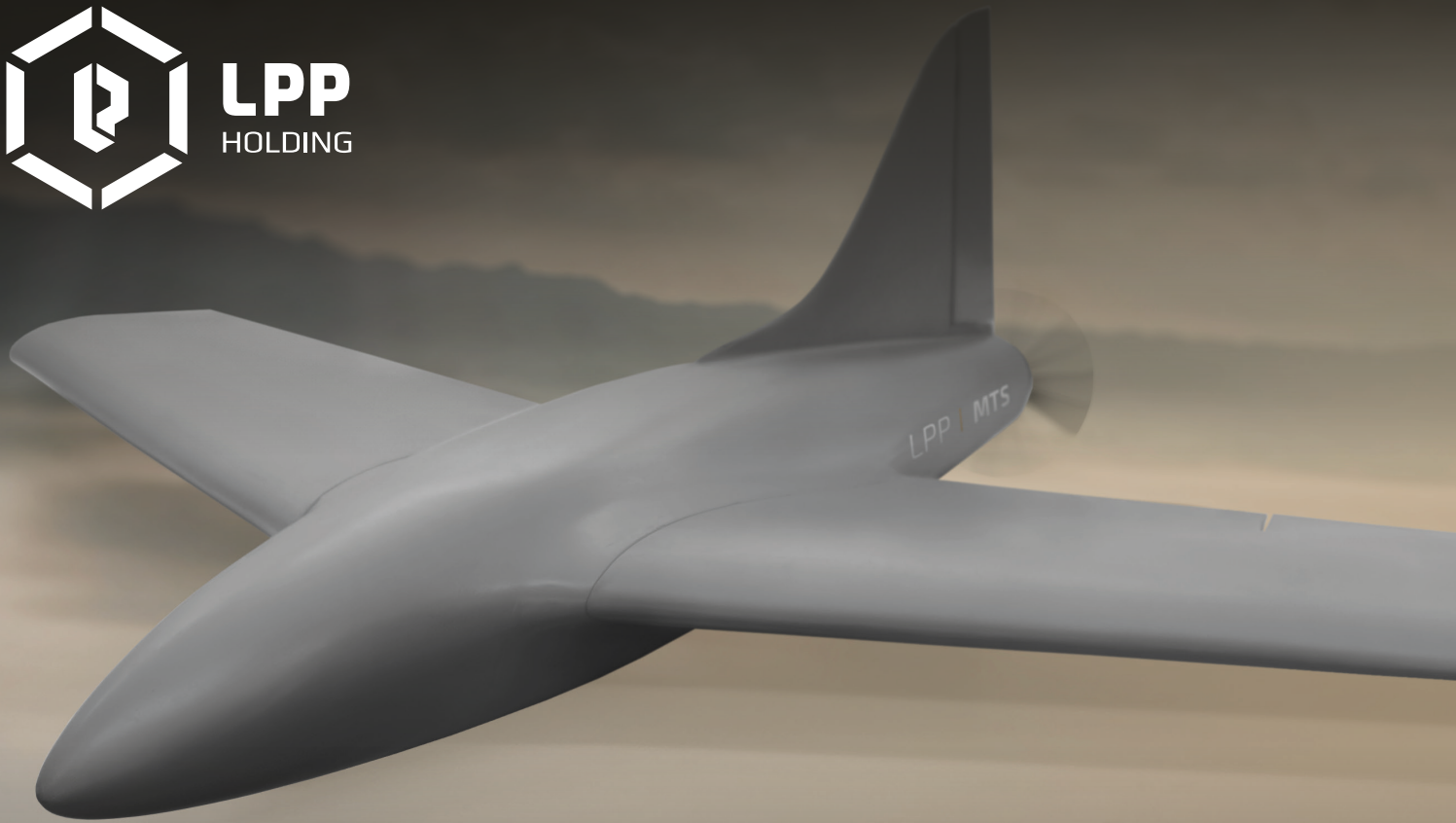




LPP
HOLDING



MTS-40C

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
- + AT-TBFRAG combined cumulative and thermobaric 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

AT-TBFRAG WARHEAD

Combined cumulative and thermobaric fragmentation warhead.

Effect	Thermobaric with increased fragmentation
Overall weight	max. 6 kg
Explosive amount	max. 2,5 kg
Penetration	up to 300 mm RHA
Explosive radius	min. 50m lethal / 100m shock wave max. 100m lethal / 150m shock wave

TECHNICAL SPECIFICATION

MTS-40C

Wingspan	3,32 m
Length	1,75 m
MTOW	40 kg
Endurance	up to 9 h
Cruise speed / Max. speed	120 km/h / 160 km/h
Payload	6 kg LPP AT-TBFRAG
Range	800 - 1000 km
Ceiling	4500 m
Launch	Electric catapult / Rocket-Assisted Take-Off (in development)



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