

MES01

Ultra Compact Electromechanical Mast System

The World's Most Compact and Lightweight Motorized Mast for Unmanned Ground Vehicles

APPLICATIONS

Border · Armored · **UGV** · Targeting · Radar · Comms mast

FIELD USE Raises SEG10 on HAVELSAN BARKAN and on the AVAZ carrier UGV

QUALIFIED TO **MIL-STD-810G · MIL-STD-461G**

RETRACTED	EXTENDED	RATED PAYLOAD	WIND LOAD	OPENING TIME	WEIGHT
535 mm	1.160 mm	5 kg	120 km/h	30 s	4 kg

MAIN FEATURES

The Most Compact Motorized Mast

535 mm retracted, **1160 mm** extended, **4 kg** total, carrying **5 kg** — sized for small unmanned ground vehicles where no other motorized mast fits.

Fully Integrated Drive

Motor, gearbox, screw shaft, sensors, control board and payload cabling are all inside the mast body, with nothing mounted externally.

STANDARD CONFIGURATION

MES01-0535-1160-0005 · Tolerance **±5 %**

PERFORMANCE PARAMETERS	
Rated Payload	**5 kg**
Wind Load	**120 km/h**
Actuating Mechanism	**Motorized**
Drive Type	**Threaded Rod**
Retracted Height	**535 mm**
Extended Height	**1.160 mm**
Weight	**4 kg**
Opening Time	**30 s**

ELECTRICAL & INTERFACE	
Operating Voltage	**18-32 VDC**
Power Standard	**MIL-STD-1275**
Communication Interface	**RS-422**
Connector Type	**MIL-DTL-38999**
MECHANICAL DATA	
Node Diameter	**92 mm**
Number of Sections	**3**

HOW TO ORDER

Every step, option and test: **Product Catalog, page 45**

PART NUMBER	**MES01 – [mast size] – [options]** · 2 build combinations
STEP 1 · MAST SIZE	2 codes · Retracted Height 535-700 mm · Extended Height 1.160-1.500 mm · Rated Payload 5-10 kg
OPTIONS	**LPEK** Lightning Protection and Earthing Kit **SPPC** Spiral Payload Cable **HEX1** Height Extender **IFPS** Frost Protection Sleeve **LG##** Label Language