

# MES10

## Locked Electromechanical Mast System

Reliable flange-lock mast with extensive payload capacity for Electro-Optical Imaging, Radar and Communication Tasks

APPLICATIONS

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

PLATFORM BMC armored 4×4

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

| RETRACTED | EXTENDED | RATED PAYLOAD | WIND LOAD | MAIN TUBE |
|---|---|---|---|---|
| 1.200 mm | 3.005 mm | 72 kg | 120 km/h | ⌀ 150 mm |

### MAIN FEATURES

**High-Capacity Locked Mast**

A flange-locked telescopic mast carrying up to **192 kg** and extending to **10 m**, for electro-optical, radar and communication payloads.

**Field-Proven Locking**

The flange locking system has been in field service since 1977. The mast holds its height mechanically, not by drive torque.

### STANDARD CONFIGURATION

**MES10-1200-3005-0072** · Tolerance **±5 %**

| PERFORMANCE PARAMETERS | |
|---|---|
| Rated Payload | **72 kg** |
| Wind Load | **120 km/h** |
| Actuating Mechanism | **Motorized** |
| Drive Type | **Flange-Locked Telescopic** |
| Retracted Height | **1.200 mm** |
| Extended Height | **3.005 mm** |
| Main Tube Diameter | **150 mm** |
| End Tube Diameter | **90 mm** |

| ELECTRICAL & INTERFACE | |
|---|---|
| Operating Voltage | **18-32 VDC** |
| Power Standard | **MIL-STD-1275** |
| Communication Interface | **RS-422** |
| Connector Type | **MIL-DTL-38999** |
| **MECHANICAL DATA** | |
| Number of Sections | **4** |
| Material – Main Body | **Aluminum 6061-T6** |

### HOW TO ORDER

Every step, option and test: **Product Catalog, page 49**

| | |
|---|---|
| PART NUMBER | **MES10 – [mast size] – [options]** · 65 build combinations |
| STEP 1 · MAST SIZE | 65 codes · Retracted Height 1.150-2.350 mm · Extended Height 3.005-10.005 mm · Rated Payload 45-192 kg |
| OPTIONS | **LPEK** Lightning Protection and Earthing Kit **SPPC** Spiral Payload Cable **HEX1** Height Extender **IFPS** Frost Protection Sleeve **CRVH** Control Remote for Vehicle **CBIF** Cable Bundling Interface **IHIF** Instant Height Information **LG##** Label Language |