

MMS20

Modular Manual Mast System

Minimal Deflection and Twist Performance Manual Mast Configurations for Electro-Optical Surveillance, Radar and Communication Tasks

APPLICATIONS

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

SHOWN AT IDEF 2023; raised on a TURAN pickup at SAHA 2026

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

RETRACTED	EXTENDED	RATED PAYLOAD	WIND LOAD	DEPLOYMENT TIME	WEIGHT
1.200 mm	2.500 mm	58 kg	120 km/h	5 min	32 kg

MAIN FEATURES

Manual Mast, Motorized Performance

A patented hybrid actuator of trapezoidal screws and steel wires gives **58 kg** payload from a **32 kg** manually driven mast.

Shares the MES20 Body

Same square-profile structure and section geometry as the MES20, so manual and electromechanical variants are interchangeable in an installation.

STANDARD CONFIGURATION

MMS20-1200-2500-0058 · Tolerance **±5 %**

PERFORMANCE PARAMETERS	
Rated Payload	**58 kg**
Wind Load	**120 km/h**
Actuating Mechanism	**Manual**
Drive Type	**Hybrid Trapezoidal Screw and Steel Wire**
Retracted Height	**1.200 mm**
Extended Height	**2.500 mm**
Weight	**32 kg**
Deployment Time	**5 min**

MECHANICAL DATA	
Section Width	**140 mm**
Number of Sections	**3**
Material – Main Body	**Aluminum 6061-T6**

HOW TO ORDER

Every step, option and test: **Product Catalog, page 62**

PART NUMBER	**MMS20 – [mast size] – [options]** · 4 build combinations
STEP 1 · MAST SIZE	4 codes · Retracted Height 1.200-3.300 mm · Extended Height 2.500-14.000 mm · Rated Payload 21-58 kg
OPTIONS	**LPEK** Lightning Protection and Earthing Kit **SPPC** Spiral Payload Cable **HEX1** Height Extender **IFPS** Frost Protection Sleeve **LG##** Label Language