



MES10 – Locked Electromechanical Mast System

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



Distinctive Features

- ❖ **Proven Flange Locking System:** The MES10 mast unit employs a reliable flange locking system that has demonstrated its effectiveness in the field since 1977. This extensive track record of performance provides users with a high level of confidence and peace of mind regarding the system's reliability.
- ❖ **High Payload Capacity:** With the capability to support payloads of up to 192 kg, the MES10 mast system is engineered to handle substantial equipment and devices, making it suitable for a wide range of applications.
- ❖ **Adaptable for Various Environments:** The mast system's versatility shines through in its mechanical interfaces, which are designed to be compatible with armored ground vehicles, shelters, and open field installations.

Main Features

- ❖ The MES10 Mast System is built for maximum reliability, supporting high payload capacities of up to 192 kg and extending up to heights of 10 meters.
- ❖ Featuring a telescopic body with a minimal closed length, supports heavy payloads, and adapts to armored vehicles, shelters, and open field installations.

Configuration Breakdown	Mast – Electromechanical – Actuating System (Screw Driven) – Product Class (10) – Retracted Height (mm) – Extended Height (mm) – Rated Payload Capacity (kg) – Product Specific Codes
Part Number	MES10-X-X-X (Check Available Options Below)
Available Customizations	Retracted/Extended Height, Payload Capacity, Communication Protocol, Mechanical Interfaces
Combinable Platforms	PEDXX – Electromechanical Positioner Family SEGXX – Stabilized Gimbal Family



MES10 – LOCKED ELECTROMECHANICAL MAST SYSTEM	Configuration Part Number *Customization is possible.	Retracted Height (mm)	Extended Height (mm)	Payload (kg)	Main Tube Diameter (mm)	End Tube Diameter (mm)	# Sections
	MES10-1200-3005-72	1200	3005	72			
	MES10-1450-4005-72	1450	4005	72			
	MES10-1700-5005-61	1700	5005	61	150	90	<u>4</u>
	MES10-1980-6005-61	1980	6005	61			
	MES10-2260-7005-50	2260	7005	50			
	MES10-1200-3005-102	1200	3005	102			
	MES10-1450-4005-102	1450	4005	102			
	MES10-1700-5005-91	1700	5005	91	170	110	<u>4</u>
	MES10-1980-6005-91	1980	6005	91			
	MES10-2260-7005-80	2260	7005	80			
	MES10-1300-4005-82	1300	4005	82			
	MES10-1500-5005-82	1500	5005	82			
	MES10-1720-6005-71	1720	6005	71	170	90	<u>5</u>
	MES10-1950-7005-71	1950	7005	71			
	MES10-2180-8005-60	2180	8005	60			
	MES10-1300-4005-122	1300	4005	122			
	MES10-1500-5005-122	1500	5005	122			
	MES10-1720-6005-111	1720	6005	111	210	130	<u>5</u>
	MES10-1950-7005-111	1950	7005	111			
	MES10-2180-8005-100	2180	8005	100			
	MES10-1300-4005-192	1300	4005	192			
	MES10-1500-5005-192	1500	5005	192			
	MES10-1720-6005-181	1720	6005	181	250	170	<u>5</u>
	MES10-1950-7005-181	1950	7005	181			
	MES10-2180-8005-170	2180	8005	170			

	Configuration Part Number	Retracted Height (mm)	Extended Height (mm)	Payload (kg)	Main Tube Diameter (mm)	End Tube Diameter (mm)	# Sections
	*Customization is possible.						
MES10 – LOCKED ELECTROMECHANICAL MAST SYSTEM	MES10-1200-4005-102	1200	4005	102			
	MES10-1400-5005-102	1400	5005	102			
	MES10-1580-6005-91	1580	6005	91			
	MES10-1800-7005-91	1800	7005	91	210	110	<u>6</u>
	MES10-1980-8005-80	1980	8005	80			
	MES10-2150-9005-60	2150	9005	60			
	MES10-2350-10005-60	2350	10005	60			
	MES10-1200-4005-182	1200	4005	182			
	MES10-1400-5005-182	1400	5005	182			
	MES10-1580-6005-171	1580	6005	171			
	MES10-1800-7005-171	1800	7005	171	250	150	<u>6</u>
	MES10-1980-8005-160	1980	8005	160			
	MES10-2150-9005-150	2150	9005	150			
	MES10-2350-10005-150	2350	10005	150			
	MES10-1150-4005-87	1150	4005	87			
	MES10-1320-5005-87	1320	5005	87			
	MES10-1490-6005-76	1490	6005	76			
	MES10-1660-7005-76	1660	7005	76	210	90	<u>7</u>
	MES10-1830-8005-65	1830	8005	65			
	MES10-2000-9005-45	2000	9005	45			
	MES10-2100-10005-45	2100	10005	45			
	MES10-1150-4005-162	1150	4005	162			
	MES10-1320-5005-162	1320	5005	162			
	MES10-1490-6005-151	1490	6005	151			
	MES10-1660-7005-151	1660	7005	151	250	130	<u>7</u>
	MES10-1830-8005-140	1830	8005	140			
	MES10-2000-9005-130	2000	9005	130			
	MES10-2100-10005-130	2100	10005	130			

MES10 – LOCKED ELECTROMECHANICAL MAST SYSTEM	Configuration Part Number *Customization is possible.	Retracted Height (mm)	Extended Height (mm)	Payload (kg)	Main Tube Diameter (mm)	End Tube Diameter (mm)	# Sections
	MES10-1270-5005-142	1270	5005	142	250	110	<u>8</u>
	MES10-1415-6005-142	1415	6005	142			
	MES10-1560-7005-131	1560	7005	131			
	MES10-1705-8005-131	1705	8005	131			
	MES10-1850-9005-120	1850	9005	120			
	MES10-1995-10005-110	1995	10005	110			
	MES10-1250-5005-122	1250	5005	122	250	90	<u>9</u>
	MES10-1380-6005-122	1380	6005	122			
	MES10-1510-7005-111	1510	7005	111			
	MES10-1640-8005-111	1640	8005	111			
	MES10-1770-9005-100	1770	9005	100			
	MES10-1900-10005-90	1900	10005	90			

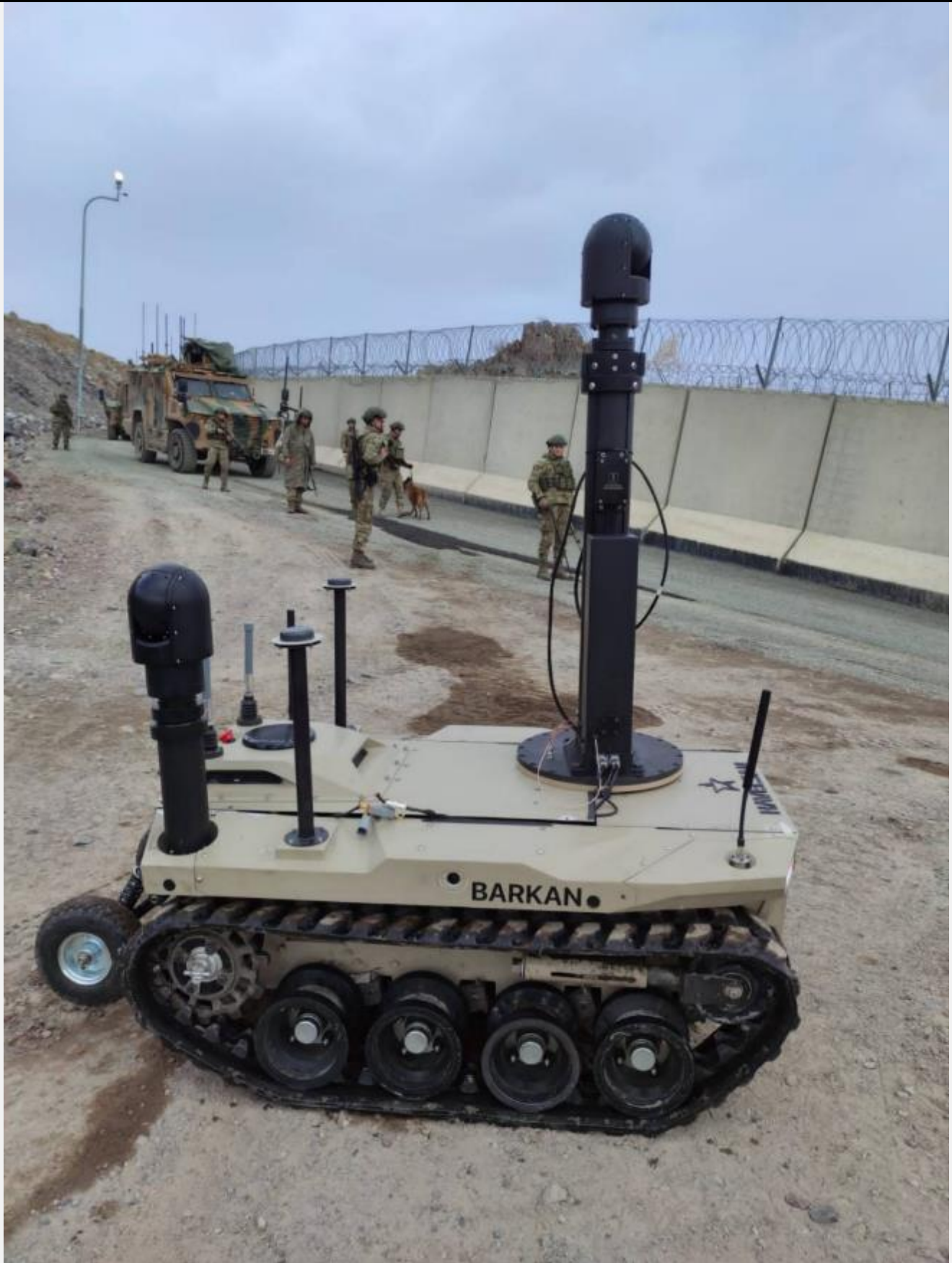
Parameters	Specifications
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MAIN FEATURES	Voltage (MIL-STD 1275)	V	28VDC
	Communication to the Unit	-	Ethernet or RS422
	Connector Type	-	MIL-DTL-38999
	External Paint	-	Check Available Color Finishes
	Instant Height Information	-	Available
	Control Remote for Vehicle	-	Available
	Cable Bundling Interface	-	Available

QUALIFICATIONS	Wind Load	km/h	120 km/h
	Temperature	°C	MIL-STD-810G, Method 502.5 Procedure II – Operational, -32°C
			MIL-STD-810G, Method 501.5 Procedure II – Operational, +60°C
			MIL-STD-810G, Method 501.5 Procedure I – Storage; +70°C
			MIL-STD-810G, Method 502.5 Procedure I – Storage; -40°C
	Vibration	-	MIL-STD-810G, Method 514.6 Procedure I Category 20, Figure 514.6C-3
	Shock	-	MIL-STD-810G, Method 516.6 Procedure I – Functional Shock; 20g 11ms
	Rain	-	MIL-STD-810G, Method 506.5 Procedure I – Rain and Blowing Rain, 1.7 mm/h
	Humidity	-	MIL-STD-810G, Method 507.5 Procedure I; 90% Noncondensing
	Dust and Sand	-	MIL-STD-810G, Method 510.5 Procedure I – Blowing Dusts
			MIL-STD-810G, Method 510.5 Procedure II – Blowing Sand



Our Electromechanical MES10 Mast Platform combined with “PED10 Electromechanical Pan-Tilt System” and “SEB20 – Thermal Imaging System”



MES10 – Locked Electromechanical Mast System

MES01 - Ultra Compact Electromechanical Mast Systems

SEG10 – Dual Channel (EO-LWIR) Stabilized Gimbal System