



MMT20 – Heavy Duty Portable Tripod/Mast System

Portable, Heavy-Duty Mast With Crane-Assisted Height Expansion for Tactical and Commercial Communications, Video Surveillance and Wireless Data Configurations



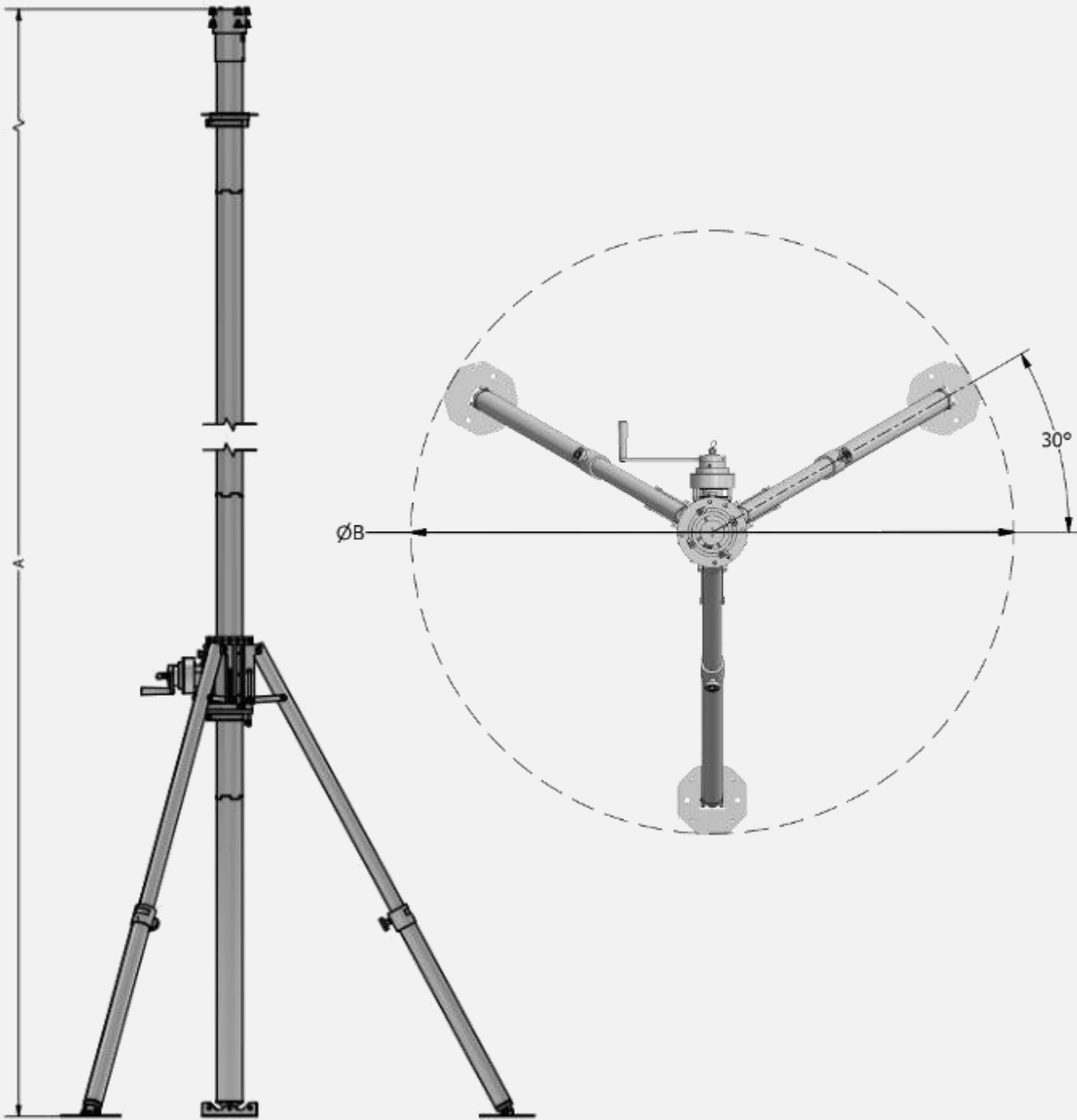
Main Features

- ❖ The MMT20 is a versatile, heavy-duty mast system designed for rapid deployment in tactical and commercial settings.
- ❖ Featuring a lightweight tripod and expandable height via crane-assisted nodes, it supports heavy payloads while ensuring stable performance in various environments.

Distinctive Features

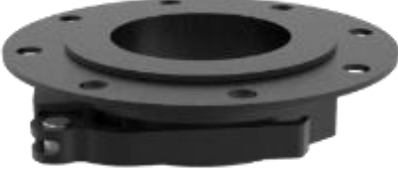
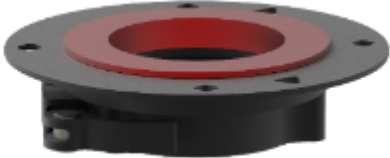
- ❖ **Adaptable Height Expansion:** Similar to the MMT10, the MMT20 mast units offer the unique ability to increase height by adding nodes using the crane arm on the tripod's main body. This expandable design allows the MMT20 to transform from a compact nested length to an extended 15-meter open position
- ❖ **Heavy Payload Capability:** The mast system is specifically designed to accommodate heavy-class payloads, thanks to its reinforced body structure.
- ❖ **Effortless Single-Person Installation:** Following the legacy of the MMT10, the MMT20 maintains the multi-purpose portable mast architecture that can be quickly and easily installed by a single person.

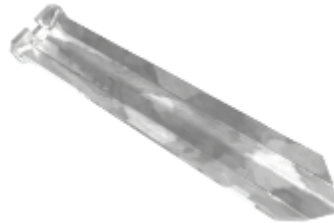
Configuration Breakdown	Mast – Manual – Actuating System (Tripod) – Product Class (20) – Retracted Height (mm) – Extended Height (mm) – Rated Payload Capacity (kg) – Product Specific Codes
Part Number	MMT20-1400-X-X (Check Available Options Below)
Available Customizations	Retracted/Extended Height, Payload Capacity, Mechanical Interfaces
Combinable Platforms	PEX – Electromechanical Positioners Family PMX – Manual Positioners Family



Parameters		MMT20-1400-2000-90	MMT20-1400-3000-85	MMT20-1400-4000-80	MMT20-1400-5000-77	
PERFORMANCE PARAMETERS	Retracted Height	mm	1400			
	Extended Height	mm	2000	3000	4000	5000
	Rated Payload Capacity	kg	90	85	80	77
	Weight (Mast & Tripod)	kg	32	37	41	45
	Number of Sections	-	2	3	4	5
	Wind Load	km/h	120 km/h @0.5m²			
Parameters		MMT20-1400-6000-73	MMT20-1400-7000-69	MMT20-1400-8000-65	MMT20-1400-9000-62	
PERFORMANCE PARAMETERS	Retracted Height	mm	1400			
	Extended Height	mm	6000	7000	8000	9000
	Rated Payload Capacity	kg	73	69	65	62
	Weight (Mast & Tripod)	kg	50	54	58	63
	Number of Sections	-	6	7	8	9
	Wind Load	km/h	120 km/h @0.3m²			
Parameters		MMT20-1400-10000-58	MMT20-1400-11000-55	MMT20-1400-12000-50	MMT20-1400-13000-45	
PERFORMANCE PARAMETERS	Retracted Height	mm	1400			
	Extended Height	mm	10000	11000	12000	13000
	Rated Payload Capacity	kg	58	55	50	45
	Weight (Mast & Tripod)	kg	68	73	78	82
	Number of Sections	-	10	11	12	13
	Wind Load	km/h	120 km/h @0.2m²			
Parameters		MMT20-1400-14000-40	MMT20-1400-15000-35			
PERFORMANCE PARAMETERS	Retracted Height	mm	1400			
	Extended Height	mm	14000	15000		
	Rated Payload Capacity	kg	40	35		
	Weight (Mast & Tripod)	kg	87	92		
	Number of Sections	-	14	15		
	Wind Load	km/h	120 km/h @0.2m²			

Parameters		MMT20-1400-XX-XX
COMMON FEATURES	Reverse Drive	- Available with Self-Locking
	Actuating Mechanism	- Manual Push or Cable Driven
	External Paint	- RAL 9005 MATTE Black Electrostatic Powder Coating
	Base Diameter (ØB)	mm 1900
	Deployment Time	min 5-30min Between (Depends on Number of Section)
	IP Rating	- IP65
	Material	Main Body: Aluminum 6XXX Series
		Connection Part: Stainless Steel
		Fasteners: Stainless Steel
	Guy Kits	8 Straight Stake
		4-16 Flat Stake
		4-16 Guying rope
ENVIRONMENTAL QUALIFICATIONS	Accessories	Wheeled Carry Bag
		Accessory Bag
		Antenna Mounting Adapter
		Hammer
		Stake Extractor
	Temperature	MIL-STD-810G, Method 502.5 Procedure II – Operational, -40°C
		MIL-STD-810G, Method 501.5 Procedure II – Operational, +60°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

WEIGHT / PART NUMBER	FIGURE
Tripod with Removable Winch 17.4 kg PN: INV-MMT20-01	
Winch Handle 0.25 kg PN: INV-MMT20-02	
Base Pole - 1070 mm 2.7 kg PN: INV-MMT20-03	
Center Pole – 1070 mm 2.7 kg PN: INV-MMT20-04	
Mounting Pole - 535 mm 1 kg PN: INV-MMT20-05	
Antenna Mounting Adapter 1.2 kg PN: INV-MMT20-06	
Primary Guy Ring 0.9 kg PN: INV-MMT20-07	
Secondary Guy Ring 0.9 kg PN: INV-MMT20-08	

Base Lift Plate**1.1 kg****PN: INV-MMT20-09****Steel Stake – 380 mm****0.45 kg****PN: INV-MMT20-10****Galvanized Guying Stakes – 300 mm****0.4 kg****PN: INV-MMT20-11****Stake Extractor****0.35 kg****PN: INV-MMT20-12****Hammer****1.25 kg****PN: INV-MMT20-13****Wheeled Carry Bag****10.4 kg****PN: INV-MMT20-14****Primary Guying Ropes****0.9 kg****PN: INV-MMT20-16****Secondary Guying Ropes****0.9 kg****PN: INV-MMT20-17**

Accessory Bag
0.4 kg
PN: INV-MMT20-18



Stake Kit
5.6 kg
8 X Steel Stake (INV-MMT20-10)
1 X Stake Extractor (INV-MMT20-12)
1 X Hammer – 1.25 kg (INV-MMT20-13)
1 X Accessory Bag (INV-MMT20-18)
PN: INV-MMT20-19



Cable Driven Winch
2 kg
PN: INV-MMT20-20





MMT20-1400 Temperature Operational/Storage Test



MMT20 – Heavy Duty Tripod/Mast System at IDEF International Defense Industry Fair