

Rotators and Tilters

Manual rotators and tilters for all Comrod masts

Tactical Masts: Accessories



General Description

Manual rotators and tilters allow orientation of the antenna in azimuth over 360° and elevation over $\pm 15^\circ$. This range of rotators/tilters are particularly designed for tactical line of sight antenna systems.

All rotators and positioners are operated from the ground. Four models are available:



F3435-64638

Combined rotator/tilter compatible with a mast spigot of 60 mm. Light and heavy duty.



F3435-76718

Rotator - Circular flange and V-ring collar interface (fast securing system) on both sides (mast and antenna fixation).



F3435-64340

Tilter $\pm 15^\circ$ - Can be installed over the rotator 76718 to create a double axis positioner.



F3435-63231

Rotator - Circular flange and V-ring collar interface (fast securing system). 40 mm spigot for antenna fixation. The Comrod standard lightning arrester can be directly mounted onto the integral rotator bracket.

Installation on Mast

The combined rotator/tilter F3435-64638 is designed to be mounted on a 60 mm mast spigot. The other three are installed on the Comrod standard flange using a V-ring collar. Installation on the mast does not require any special tools.

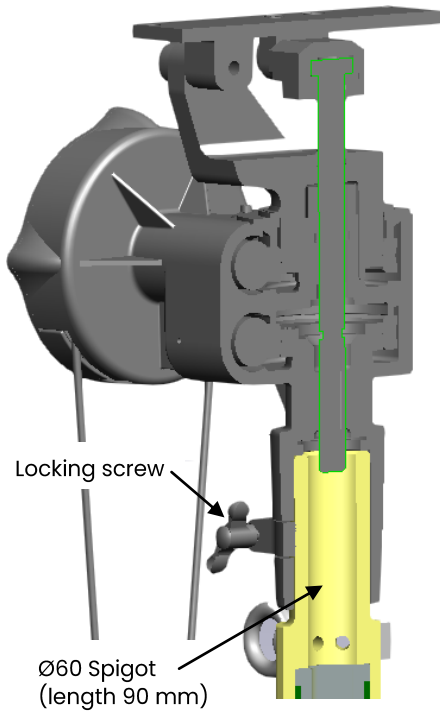
Technical Characteristics

Reference	64638	76718	63231	64340
Rotation AZ	360°	360°	360°	-
Elevation EL	± 15°	-	-	± 15°
Total Height	345 mm	292 mm	706 mm	245 mm
Height above Flange	-	194.5 mm	609 mm	147.5 mm
Height below Flange	-	97.5 mm	98 mm	97.5 mm
Total Weight	17.4 kg	9.1 kg	9.4 kg	10.5 kg
Weight without Rope	12 kg	7.8 kg	7.9 kg	9.2 kg
Rope Length (can be adapted)	2 x 58 m	58 m (2 x 29 m)	58 m (2 x 29 m)	40 m (2 x 20 m)
Rope Diameter	5 mm	5 mm	5 mm	5 mm
Backlash	Pan < 0.22° Tilt < 4.8e ⁻⁵ o			
Transport Bag	55 x 30 x 30	38 x 27 x 26 cm	Option	38 x 27 x 26 cm

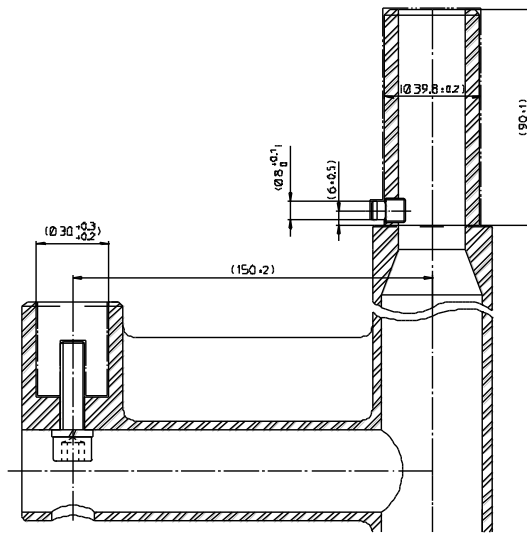
Environmental and Mechanical Characteristics

Temperature (MIL-STD-810D, methods 501.2 and 502.2): <ul style="list-style-type: none"> • Operation • Storage 	- 45° to + 55°C - 56° to + 71°C
Wind (reference Winds according to ANSI TIA/EIA-222-F): <ul style="list-style-type: none"> • For deployment/retraction • For operation (pointing accuracy) • For survival (a Comrod document explaining wind calculations and tests is available upon request)	40km/h 100km/h 140km/h
Salt fog (MIL-STD-810D, Method 509.2 §I-3.2.d)	96 hours
Humidity (MIL-STD-810D, method 507.2, procedure III)	95+5% RH at 28°C
Rain (MIL-STD-810D, method 506.2, procedure I)	Heavy rain
Ice (MIL-STD-810D Method 521.0 and EIA/TIA-222-F)	1,2 cm
Sand and Dust (MIL-STD-810D, Method 510.2 Procedures I and II)	Remains operational
Vibration – Loose cargo transport (MIL-STD810D Method 514.3 §I-3.2.3 Cat 3)	No damages
Shocks, transit drop (MIL-STD-810D Method 516.3 Procedure IV)	Test Level 516.3-II
Shocks, Bench Handling (MIL-STD-810D Method 516.3 Procedure VI Bench Handling)	Remains operational
Altitude (MIL-STD-810D, Method 500.2, Procedures I, II and III)	No incidence on mast capability
Fungus (MIL-STD-810D, Method 508.3)	No visual traces
Immersion (MIL-STD-810D, Method 4.12.2 Procedure I)	30 minutes

Mast Interface for Rotator/Tilter F3435-64638



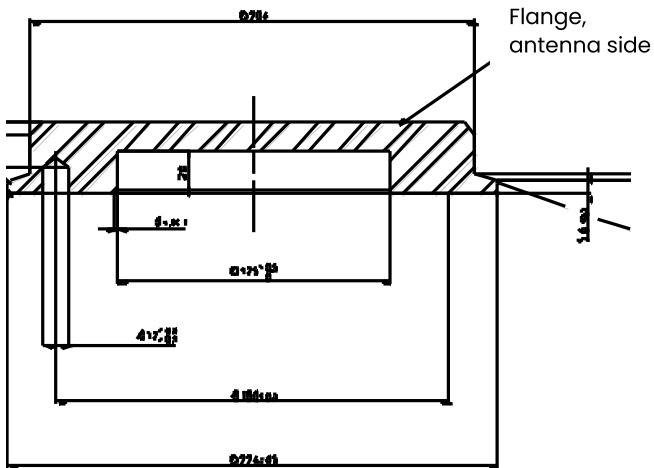
Antenna Interface – Rotator F3435-63231



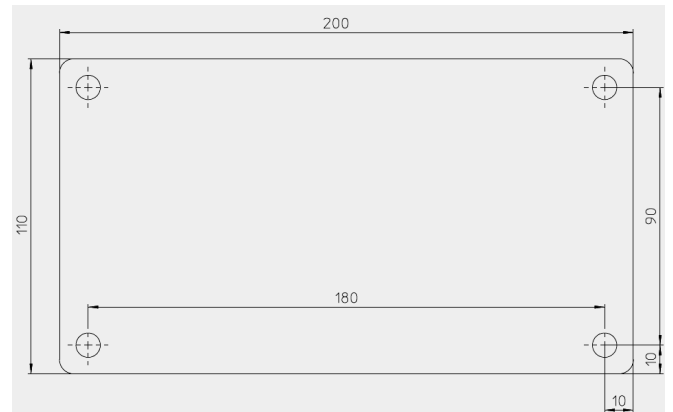
Adaptor for antenna and lightning arrestor

Antenna Interface – Rotator F3435-76718

Antenna bracket must be designed with the following flange at the base



Antenna Interface – Rotator F3435-64638



All specifications are subject to change without notice
The information contained herein is for reference only and does not constitute a warranty of performance

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