

## 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 60mm. 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).  
40mm 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 60mm mast spigot. The other three are installed on the Ø224mm COMROD standard flange using a V-ring collar. Installation on the mast does not require any special tools.

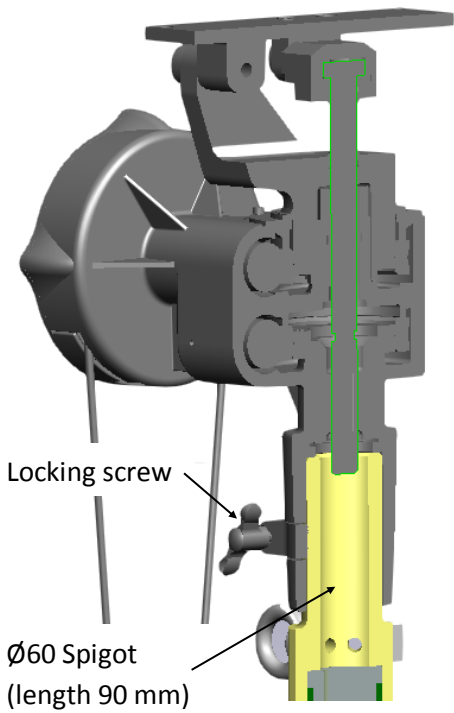
## TECHNICAL CHARACTERISTICS

| Reference                    | 64638                                      | 76718         | 63231         | 64340         |
|------------------------------|--|---------------|---------------|---------------|
| Rotation AZ                  | 360°                                       | 360°          | 360°          | -             |
| Elevation EL                 | ±15°                                       | -             | -             | ±15°          |
| Total height                 | 345 mm                                     | 292mm         | 706mm         | 245mm         |
| Height above flange          | -  | 194.5mm       | 609mm         | 147.5mm       |
| Height below flange          | -  | 97.5mm        | 98mm          | 97.5mm        |
| Total weight                 | 17.4kg                                     | 9.1kg         | 9.4kg         | 10.5kg        |
| Weight without rope          | 12 kg                                      | 7.8kg         | 7.9kg         | 9.2kg         |
| Rope length (can be adapted) | 2 x 58m                                    | 58m (2 x 29m) | 58m (2 x 29m) | 40m (2 x 20m) |
| Rope diameter                | 5mm  | 5mm           | 5mm           | 5mm           |
| Backlash                     | Pan < 0.22°<br>Tilt < 4.8e <sup>-5</sup> ° |               |               |               |
| Transport bag                | 55x30x30                                   | 38x27x26cm    | Option        | 38x27x26cm    |

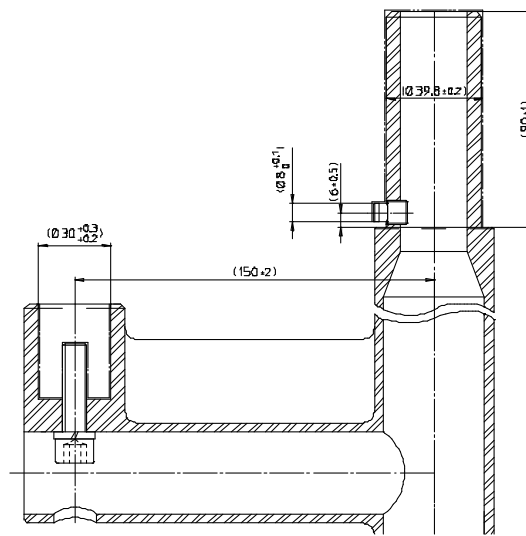
## ENVIRONMENTAL AND MECHANICAL CHARACTERISTICS

|  |                                 |
|--|---------------------------------|
| Temperature (MIL-STD-810D, methods 501.2 and 502.2):<br>•Operation<br>•Storage   | -45° to +55°C<br>-56° to +71°C  |
| Wind (reference Winds according to ANSI TIA/EIA-222-F):<br>•For deployment/retraction<br>•For operation (pointing accuracy)<br>•For survival<br><br>(a Comrod document explaining wind calculations and tests is available upon request) | 40km/h<br>100km/h<br>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 §1-3.2.3 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**



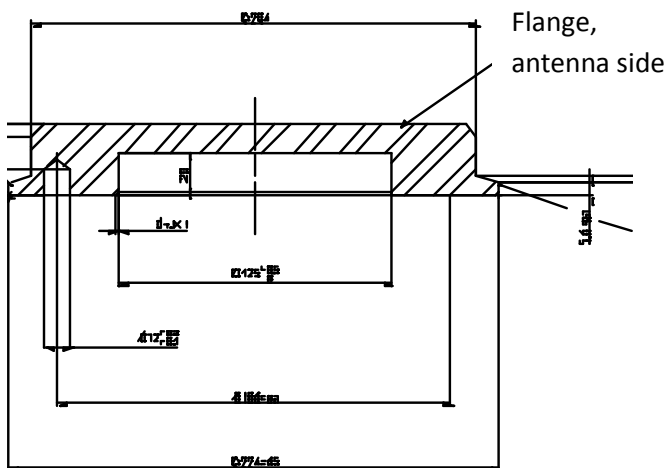
**Antenna Interface - Rotator F3435-63231**



Adaptor for antenna and lightning arrester

**Antenna Interface - Rotator F3435-76718**

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



**Antenna Interface - Rotator F3435-64638**

