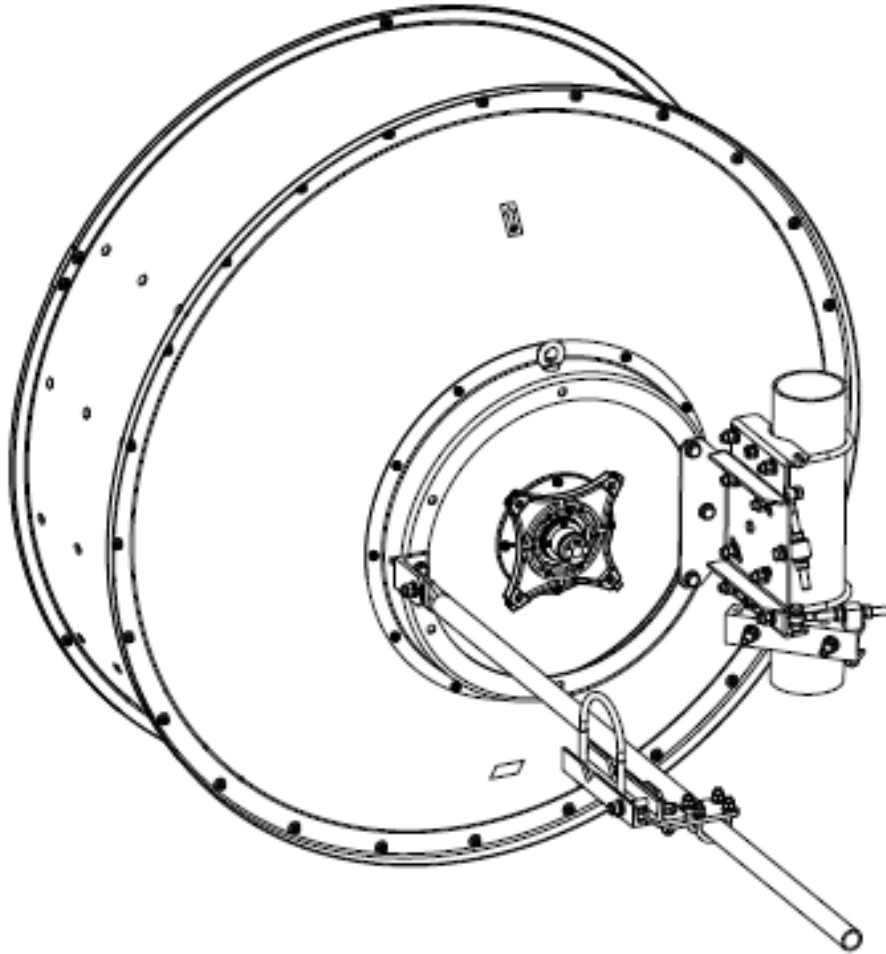


Installation Instructions

For 4 foot / 1.2m Diameter Ultra-High Performance Antenna

Model ADxxG-4-S2



Before Installation, please read the instructions carefully.

- ◆ This instruction guide covers the installation of the 1.2m (4 ft) diameter High performance microwave antenna.
- ◆ Installation, maintenance and removal of antenna should be done by qualified personnel.
- ◆ To guarantee performance, the antenna should be inspected once a year by qualified personnel.

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1 Preparation for Antenna Installation

1.1 Mounting Pole

The antenna must be fixed to a Mounting Pole with a diameter of approximately 4.5 inches (114 mm).

1.2 Tools Required for Installation

20×200 Adjustable Spanner (*Used for bolt M12-M16*)

10 mm Open-end Spanners (*Used for bolt M6*)

17-19 mm Open-end Spanners (*Used for bolt M12*)

3mm L-Spanner (*Used for Bolt M4*)

Cross Screw-driver (*Used for Bolt M6*)

Torque Spanner (*Recommended*)

Pliers

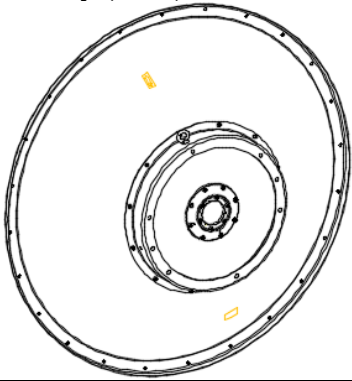
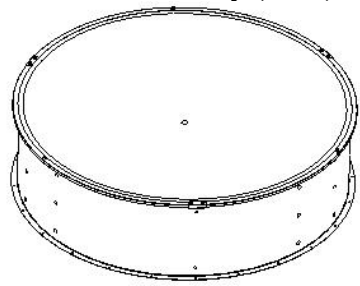
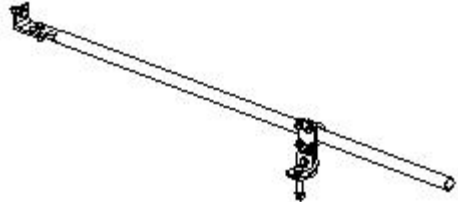
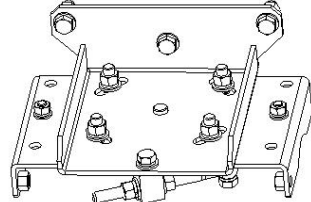
1.3 Torque Parameters of Fasteners

Please use the following torque specifications when assembling the antenna.

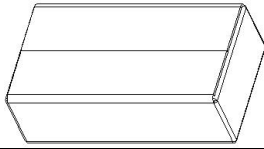
Table of Torque Parameters

NO.	Fastener Size	Torque (N·m)
1	M4	1.3
2	M5	3
3	M6	5
4	M10	28
5	M12	49
6	M14	78
7	M16	122

1st List Packing List of Package Box

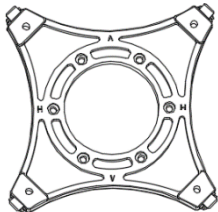
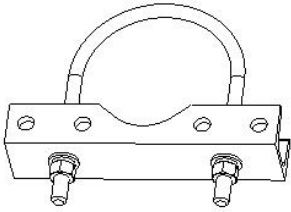
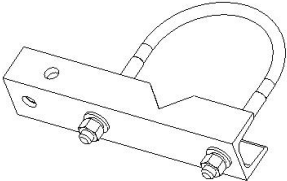
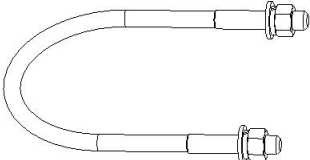
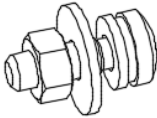
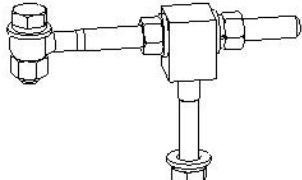
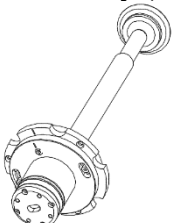
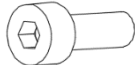
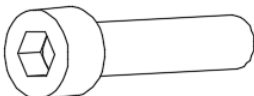
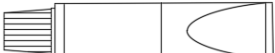



<p>1.Reflector assembly (1 set)</p> 	<p>2.Shield and Radome assembly (1 set)</p> 
<p>3.Azimuth side strut assembly (1 set)</p> 	<p>4. Mounting assembly (1 set)</p> 

5. Feed Box (1 pcs)
(Check the 2nd List below)



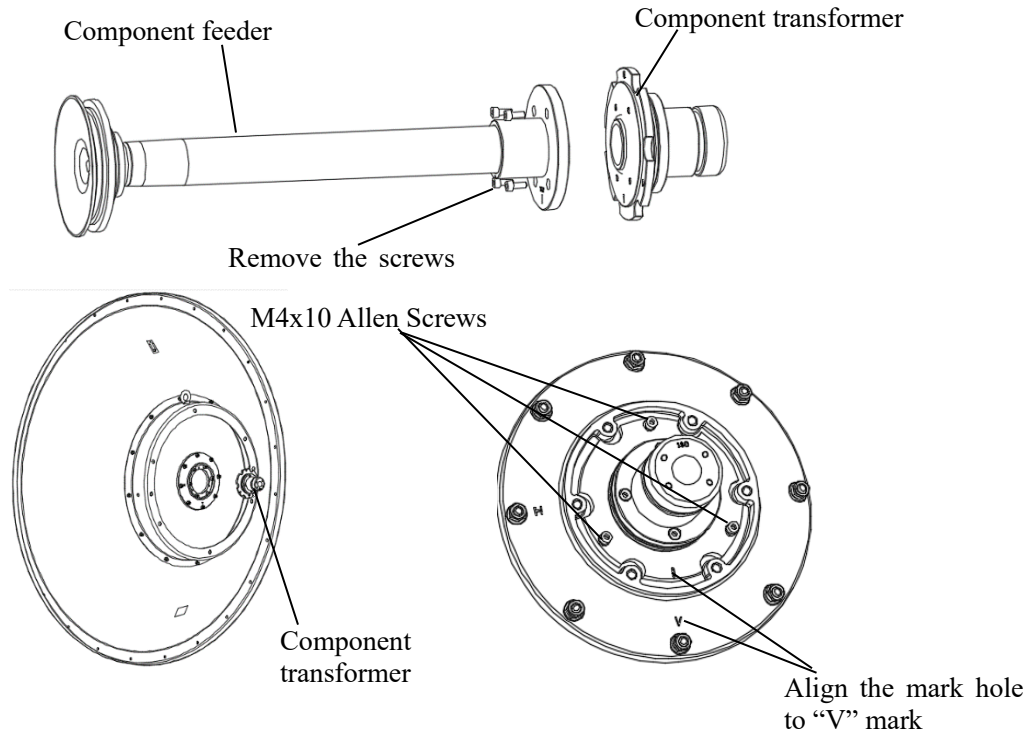
Check all the parts in Feed Box according to the 2nd list below:

2nd List Packing List of Feed Box

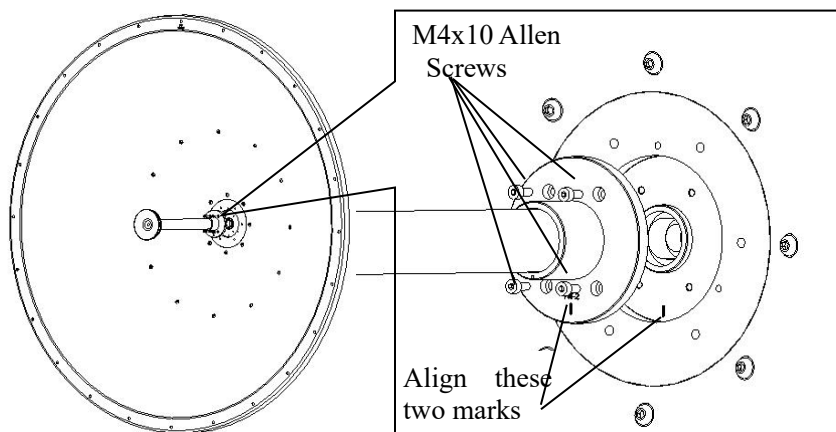
<p>1. Mechanical Flange (1 pcs)</p> 	<p>2. Anti-slip assembly (1 set)</p> 
<p>3. Side strut assembly (1 set)</p> 	<p>4. U-bolt assembly (2 sets)</p> 
<p>5. M6*20 Screw assembly (24 sets for use, 1 set for spare)</p> 	<p>6. Eye-Bolt assembly (1 set)</p> 
<p>7. Feed assembly (1 set)</p> 	<p>8. M4*10 Allen screw (3 pcs)</p>  <p>9. M6*25 Allen screw(6 pcs)</p> 
<p>10. Lubricant (1 bottle)</p> 	<p>11. Finger-cot (1 pcs)</p> 
<p>12. Allen Key S=3 (1 pcs)</p> 	<p>13. Allen Key S=5 (1 pcs)</p> 
<p>A Bag of documents: 14. Installation Manual (1 copy)</p>	

2 Installing Antenna

2.1 Installing 6G-8G Feed assembly

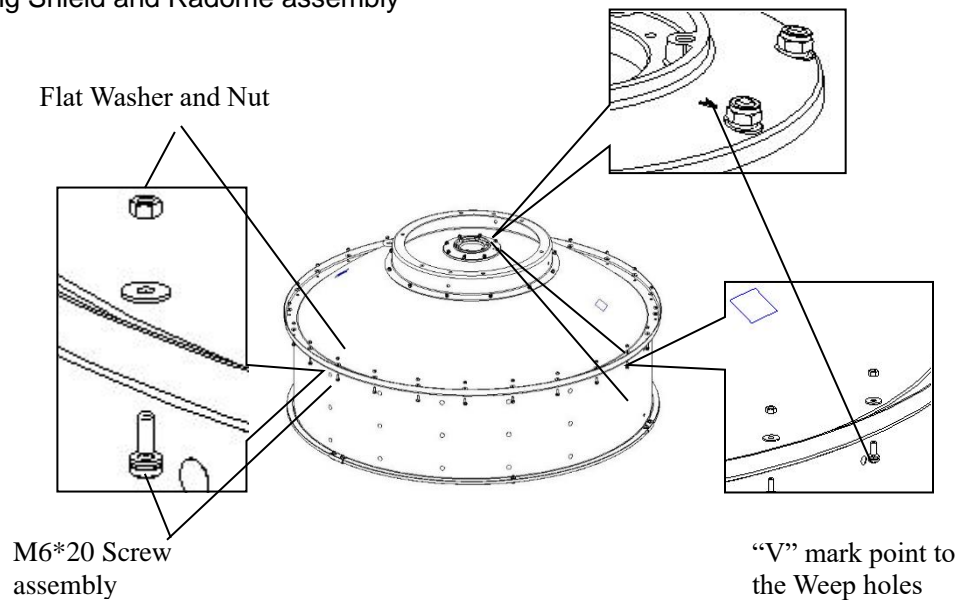


1st Fig Installing Component transformer



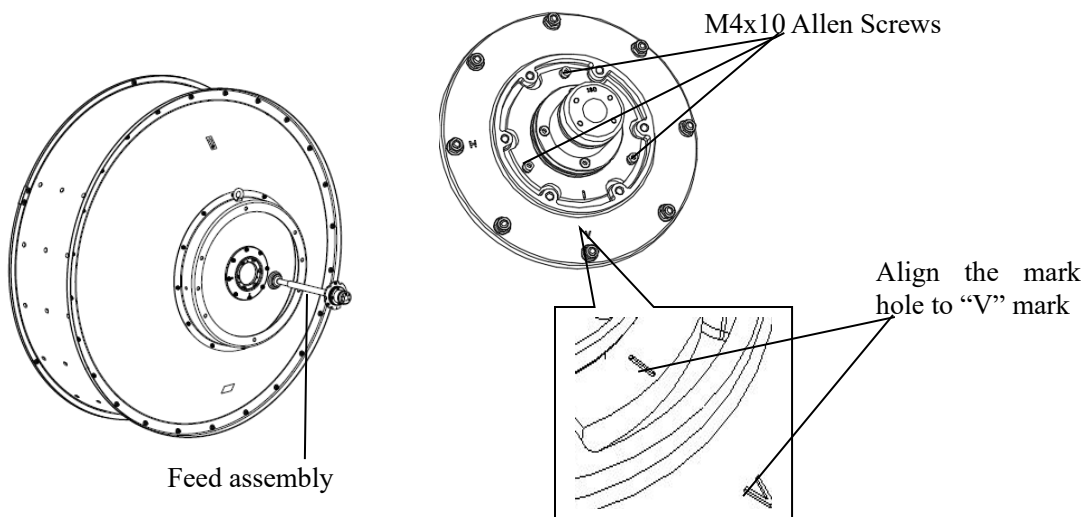
2nd Fig Installing Component feeder

2.2 Installing Shield and Radome assembly

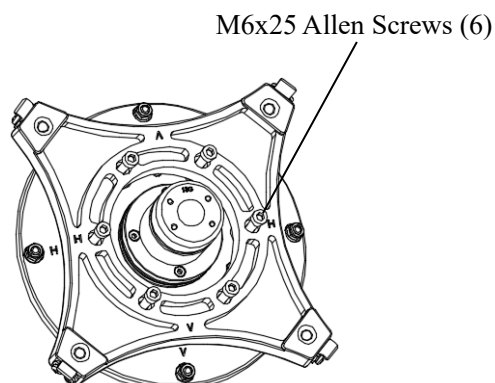


3rd Fig Installing Shield and Radome assembly

2.3 Installing 10G-26G Feed assembly



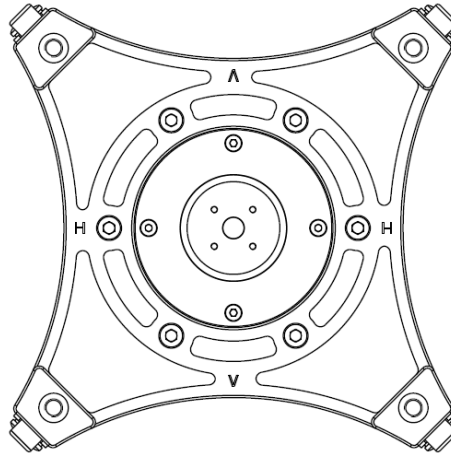
4th Fig Installing Feed assembly



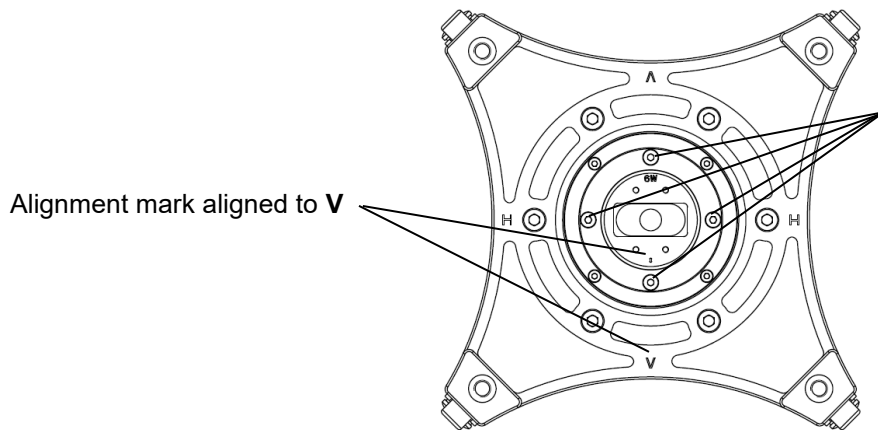
5th Fig Installing Mechanical Flange

3 Adjust Antenna Polarization

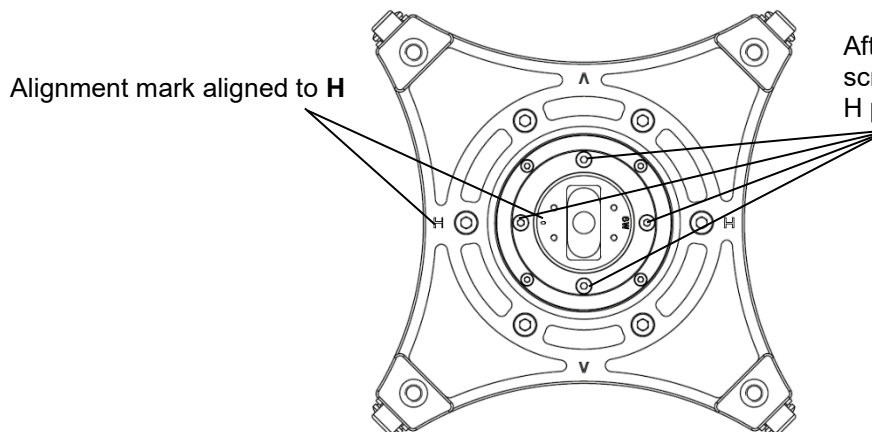
For antennas with a circular waveguide opening, there is no need to change the antenna polarization



For antennas with a rectangular waveguide opening using Horizontal polarization, the antenna polarization must be changed prior to installation. Confirm the required polarization before mounting and adjust as necessary. The detail is shown in Figure 6-7 below.



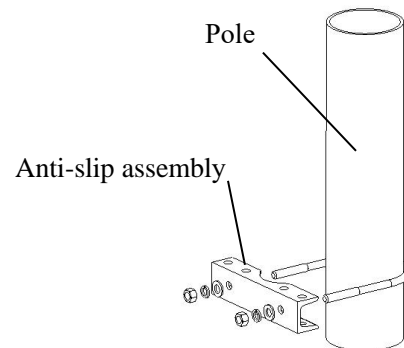
6th Fig Vertical Polarization (Default)



7th Fig Horizontal Polarization

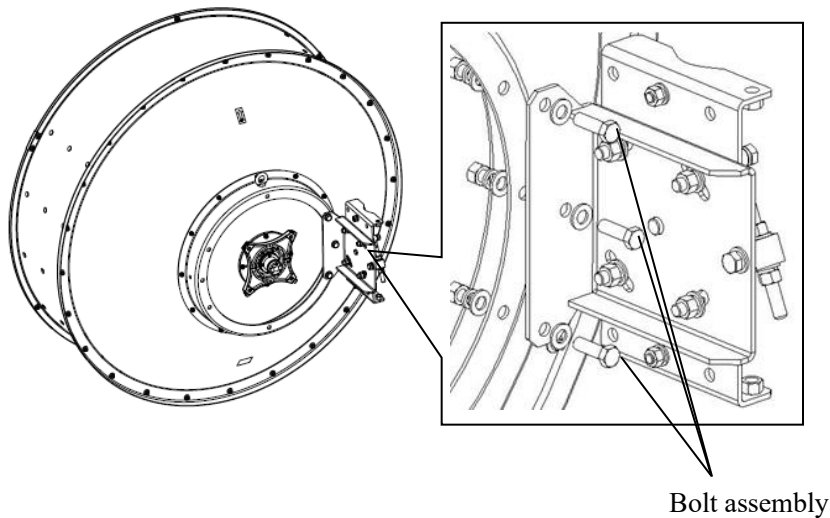
4 Installing Mounting System

4.1 Installing Anti-slip assembly



8th Fig Installing Anti-slip assembly

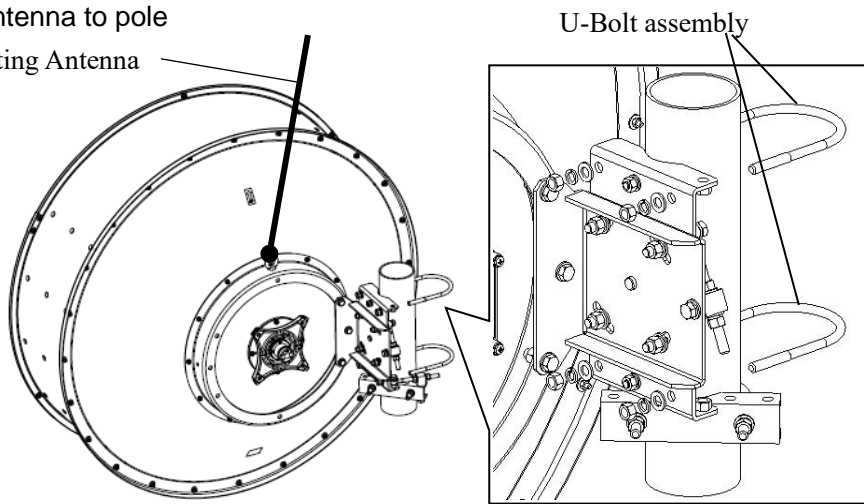
4.2 Installing Mounting assembly



9th Fig Installing Mounting assembly

4.3 Installing Antenna to pole

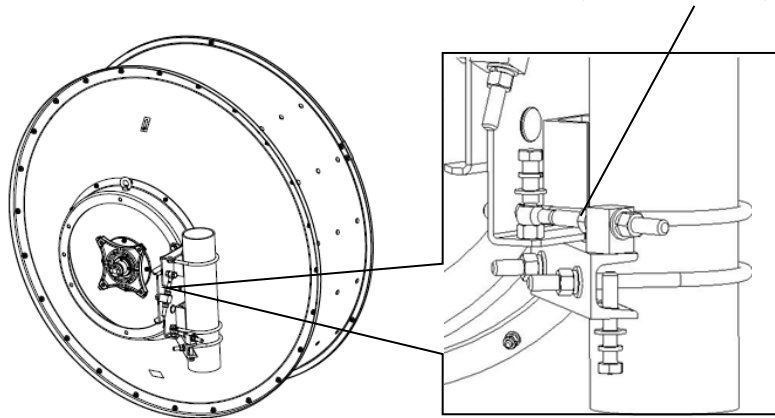
Rope for hoisting Antenna



10th Fig Installing Antenna to pole

4.4 Installing Eye-Bolt assembly

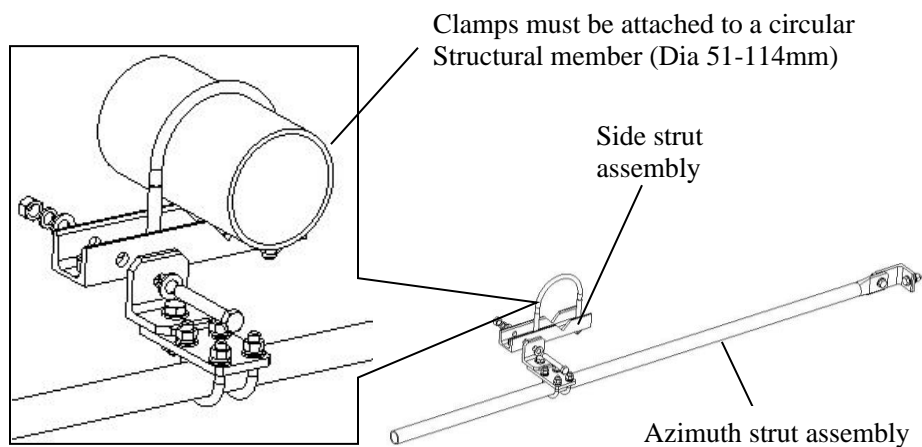
Eye-Bolt assembly



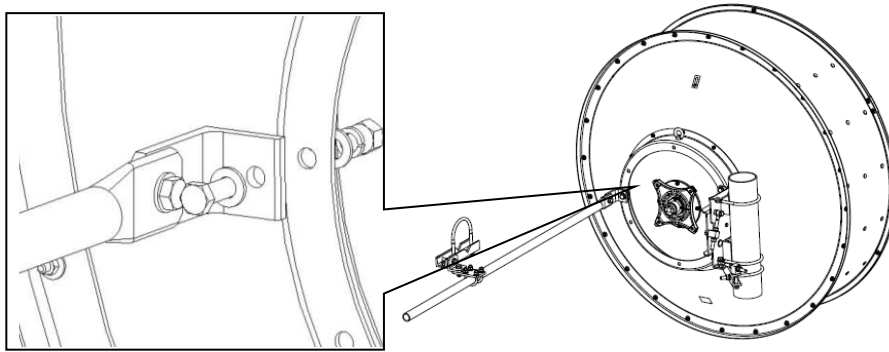
11th Fig Installing Eye-Bolt assembly

4.5 Installing Azimuth Support Side Strut

Installing Azimuth strut assembly and Side strut assembly

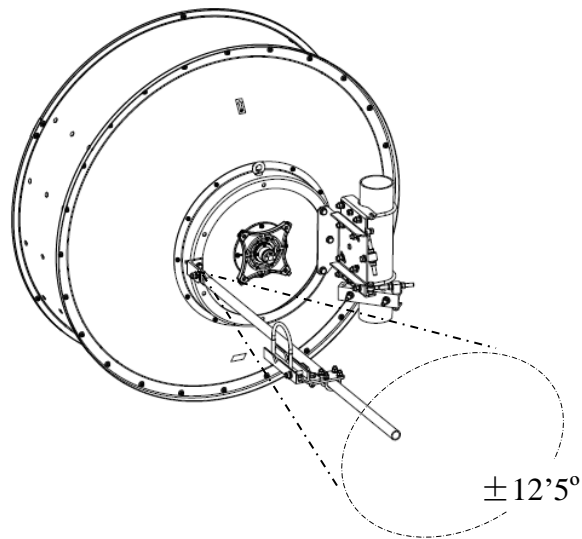


12th Fig Installing Side strut assembly



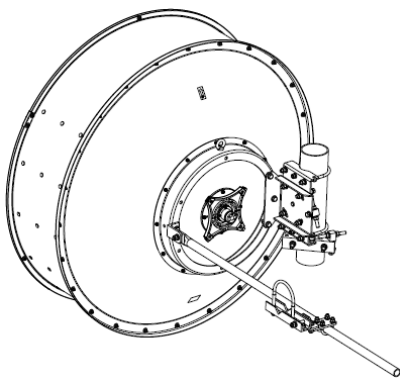
13th Fig Installing Azimuth strut assembly

4.6 Adjustment range of the Azimuth strut

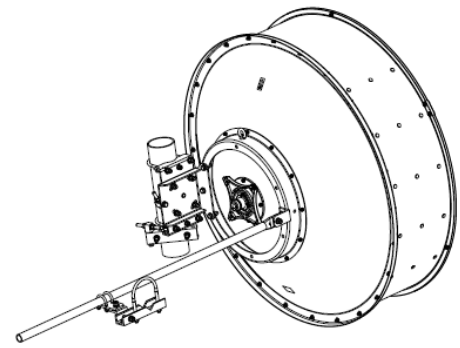


14th Fig Adjustment range of the Azimuth strut

4.7 Antenna Offset



Offset Left (Standard)

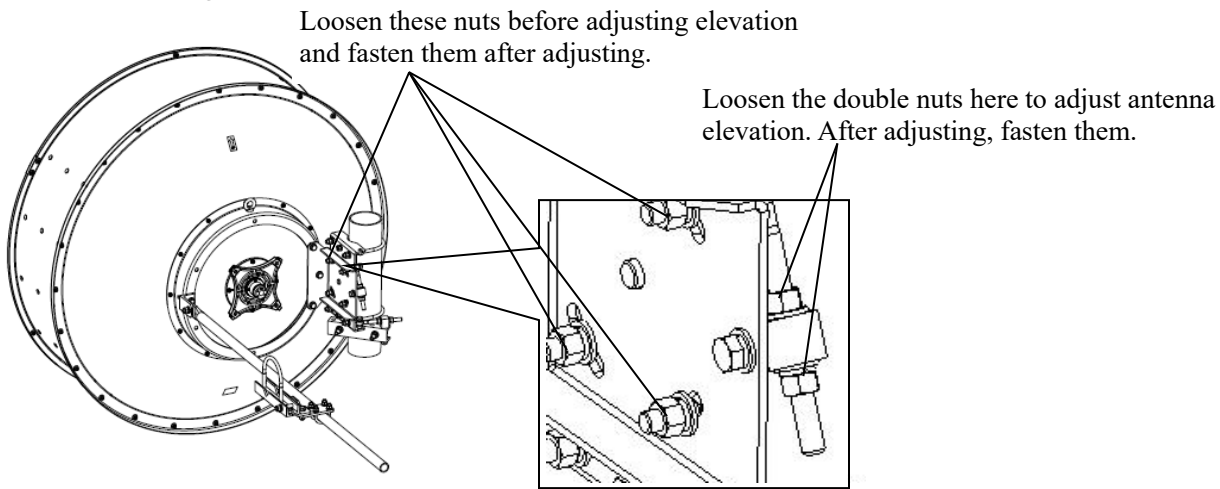


Offset Right

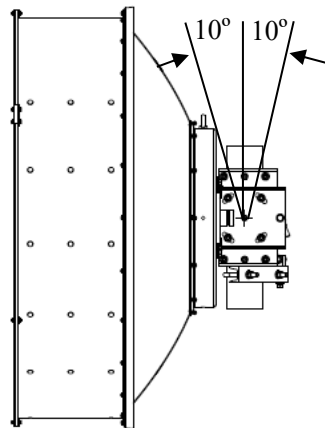
15th Fig Antenna Offset

5 Adjusting elevation and azimuth of antenna

5.1 Adjusting elevation (The range is $\pm 10^\circ$)

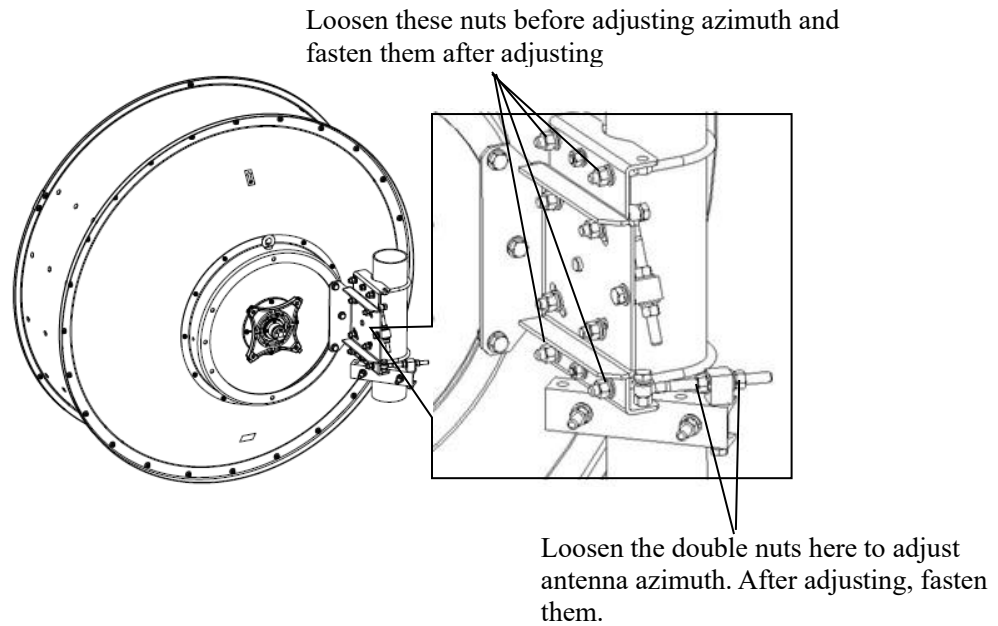


16th Fig Adjusting Elevation

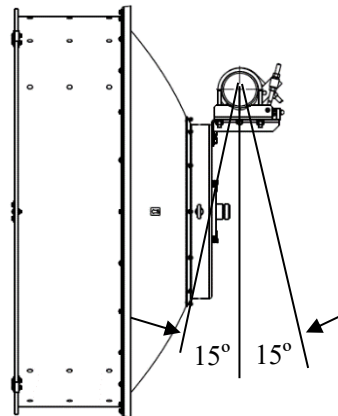


17th Fig Adjusting Elevation 2

5.2 Adjusting azimuth (The range is $\pm 15^\circ$)



18th Fig Adjusting azimuth

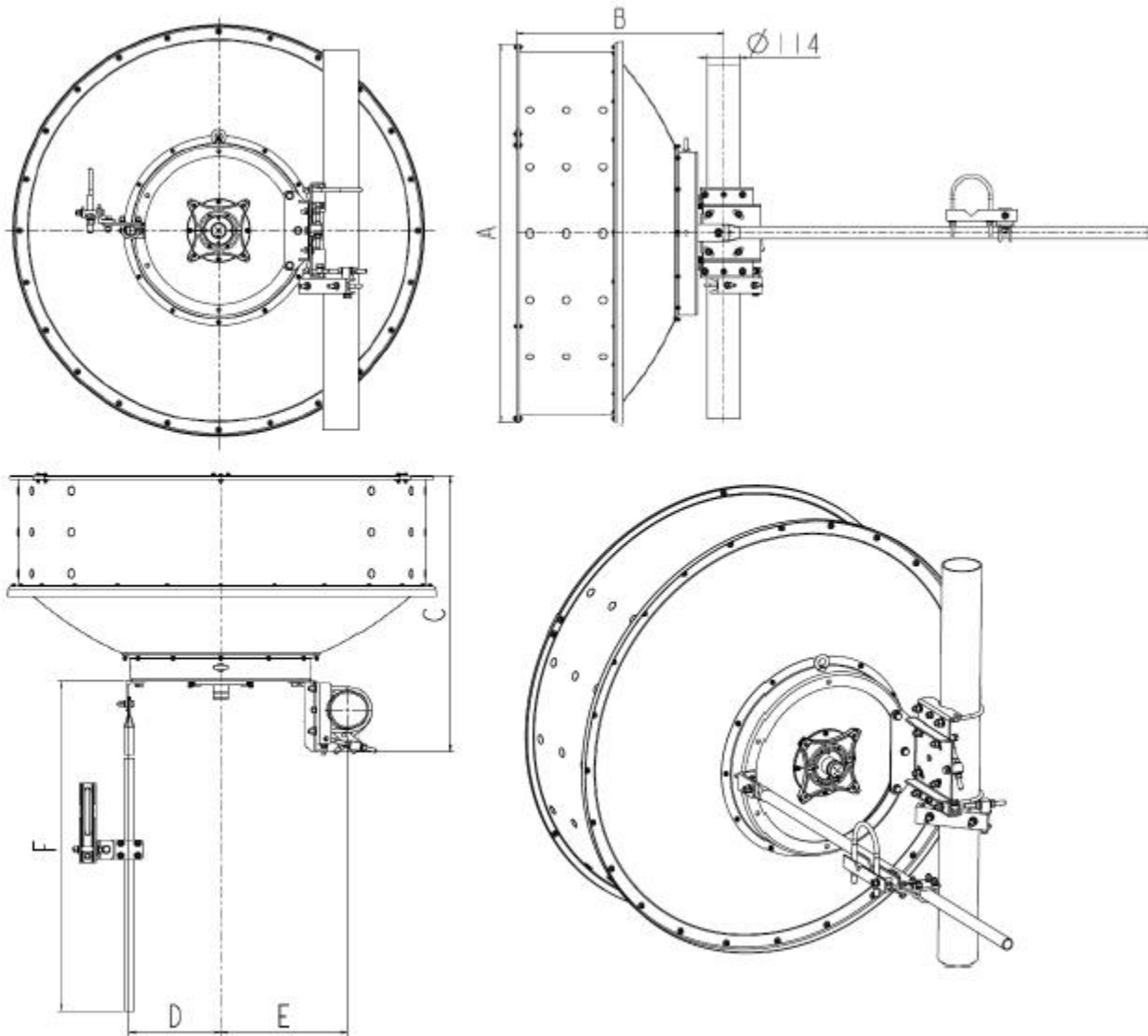


19th Fig Adjusting azimuth 2

6 Final Inspection:

- 1) After completed antenna installation, please check and confirm all of the standard accessories are locked.
- 2) Keep the Weep holes open under reflector.
- 3) Take down the dustproof cover from feed assembly before mounting ODU or Combiner.

7 Mechanical Dimensions:



Dimensions (in/mm)	
A	50.5/1283
B	27.9/708
C	32.9/835
D	11/279
E	15.2/386
F	60.6/1540