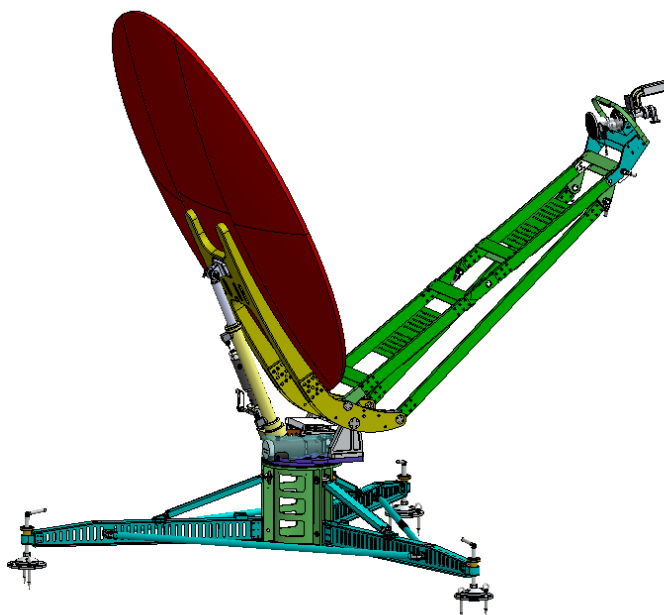


Starwin 1.8m C band Carbon Fiber Auto Flyaway Antenna Datasheet

1. Antenna photo

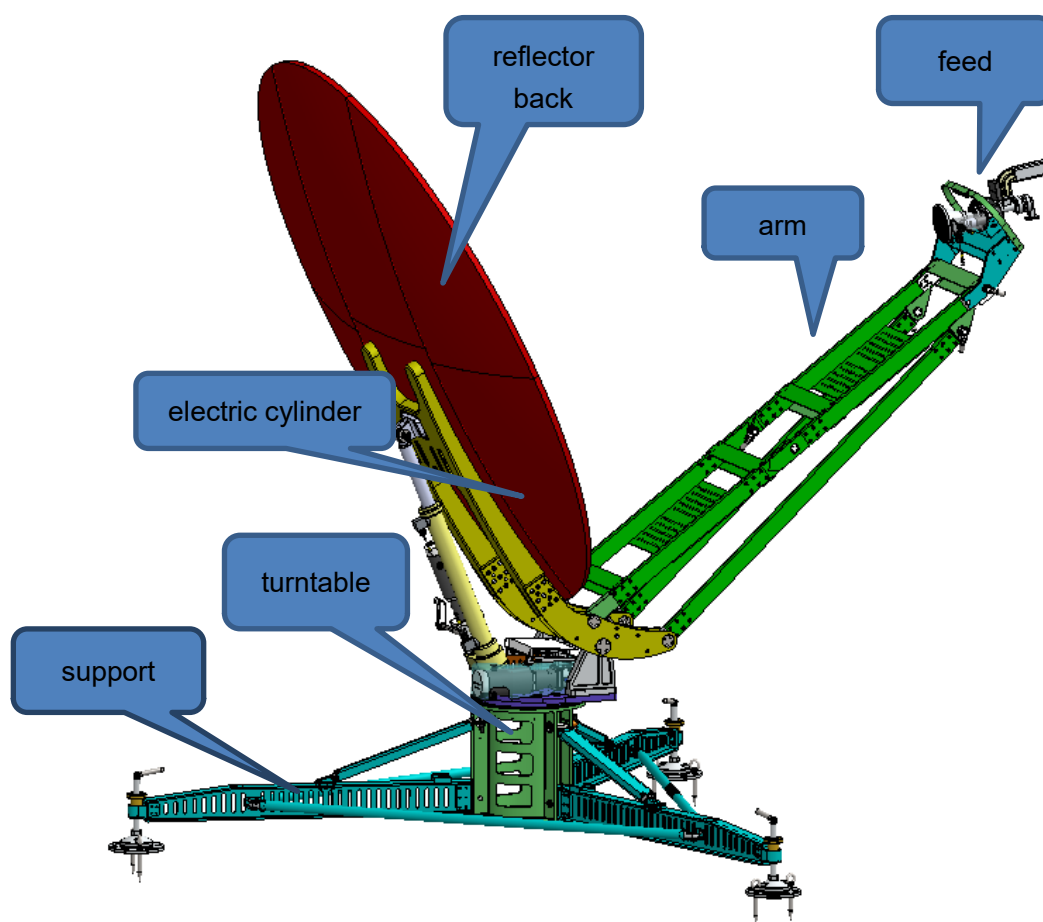


2. Technical Specifications

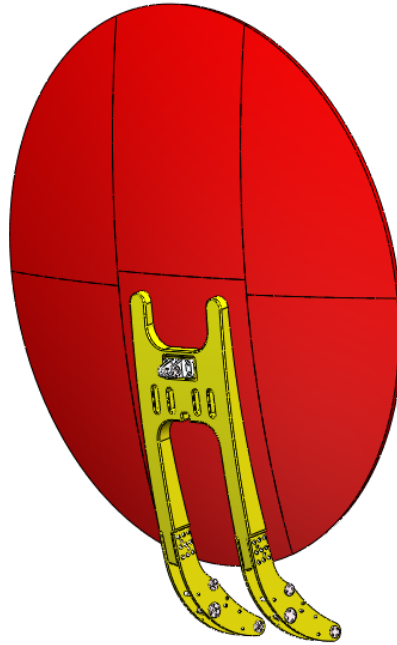
Product Name		1.8m C Band Auto Flyaway Antenna		Feed Type	Offset
Equivalent Caliber		1.8m		Polarization	Linear Polarization Circular Polarization
Frequency Range		Rx: 3.4 ~ 4.2 GHz	Gain: LP (±0.5dB)	Rx: ≥35.4+20lg(f/3.8) dBi	
		Tx: 5.85 ~ 6.725 GHz		Tx: ≥39.3+20 lg(f/6.25) dBi	
XPD		LP: ≥ 35 dB, On axis CP: Rx ≥ 15.5 dB Tx ≥ 17.7 dB	Gain: CP (±0.5dB)	Rx: ≥35.2+20lg(f/3.8) dBi	
				Tx: ≥39.1+20 lg(f/6.25) dBi	
Port Isolation		Tx-Rx ≥ 85 dB Rx-Tx ≥ 40 dB	SWR	≤ 1.5	
First Side Lobe		≤ -14 dB	Power Capacity	100 W	
Interface		Rx: WR229, Tx: WR137	Auto Acquire Time	≤ 3 min	
Range	Az	± 200°	Speed	Az	0.1° ~ 3 °/s
	EI	10° ~ 90°		EI	0.1° ~ 1 °/s
	POL	± 90°		POL	0.1° ~ 3 °/s
Controller		1U Controller	Pointing Mode	Beacon/DVB	
Positioning Mode		GPS	Positioning Type	Automatic positioning, or manual input	
Operation Temperature		-40℃ ~ +55 ℃	Operation Wind Speed	15 m/s (Counterweight)	
Storage Temperature		-50℃ ~ +70 ℃	Survival Wind Speed	28 m/s (Counterweight)	
Humidity Requirement		95% (20 ℃)	Protection Grade	IP65	
Power Supply		220 VAC ±10%, 50Hz ± 2 Hz	Power Consumption	≤ 500W (Exclude BUC)	

3. Antenna Structured

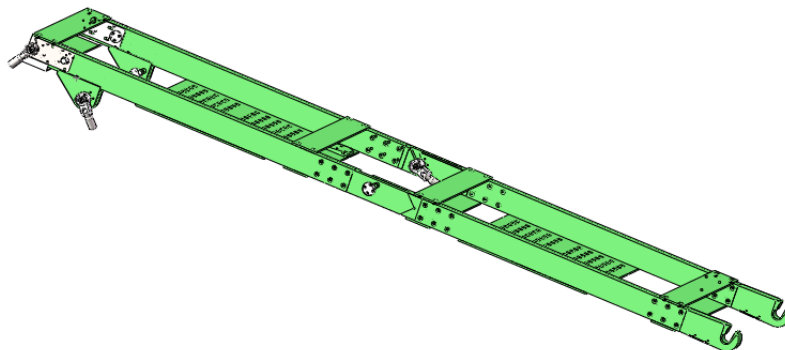
The 1.8m auto flyaway antenna is composed of antenna reflector back mechanism, arm mechanism, feed mechanism, turntable mechanism, support mechanism and electric cylinder.



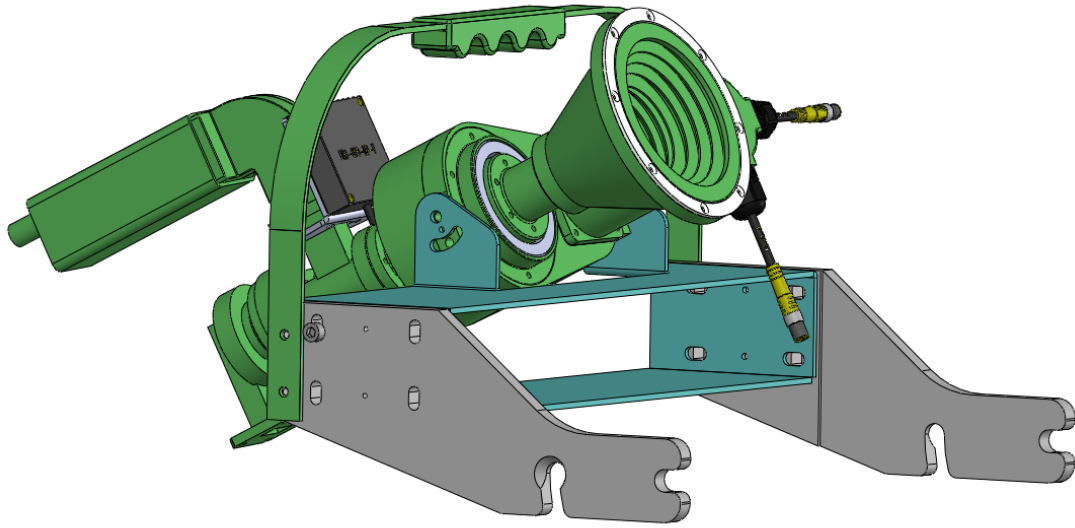
1) Antenna reflector back mechanism



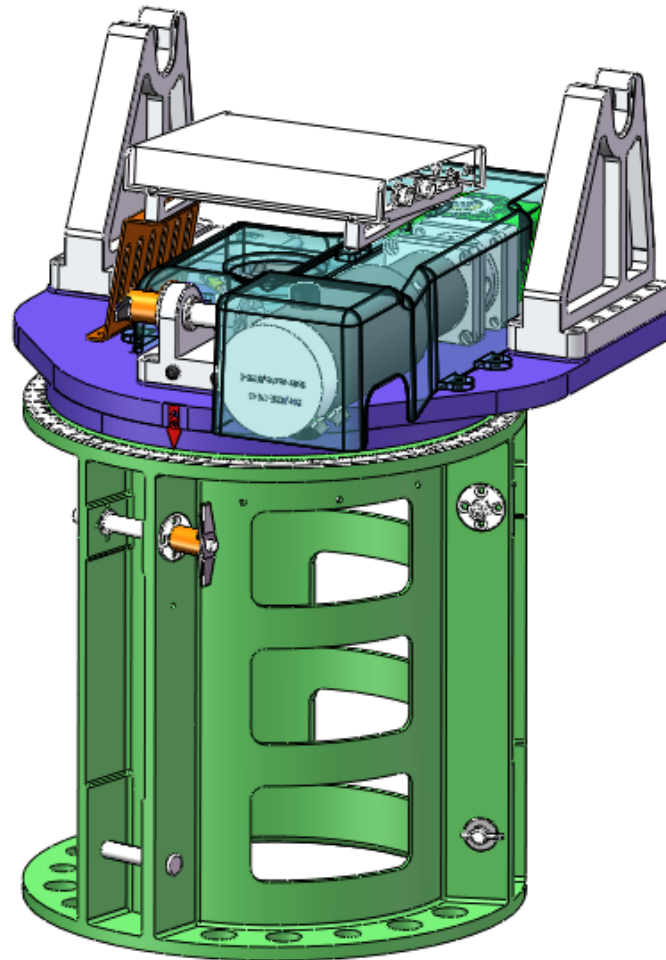
Arm mechanism



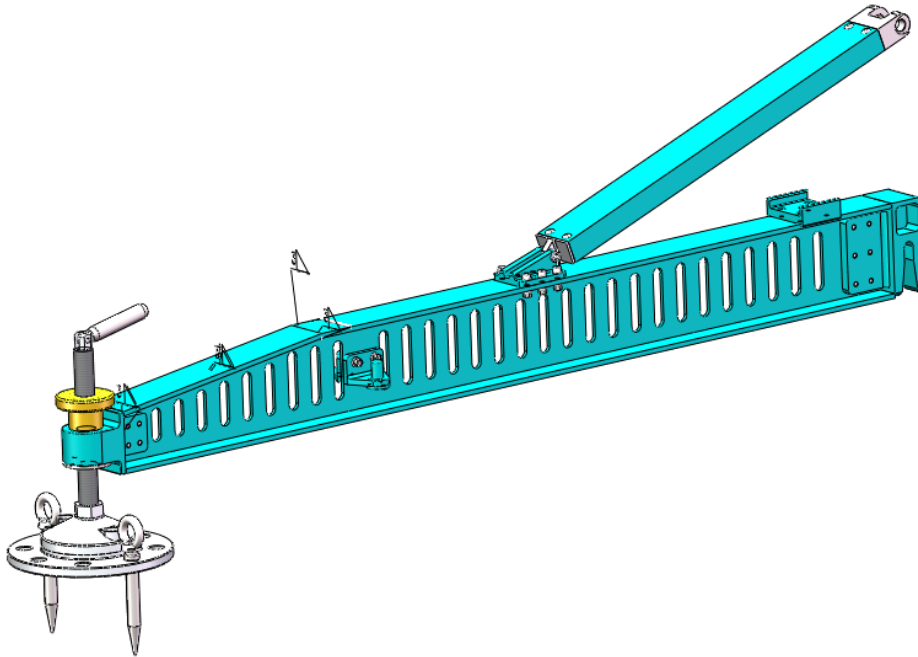
2) Feed mechanism



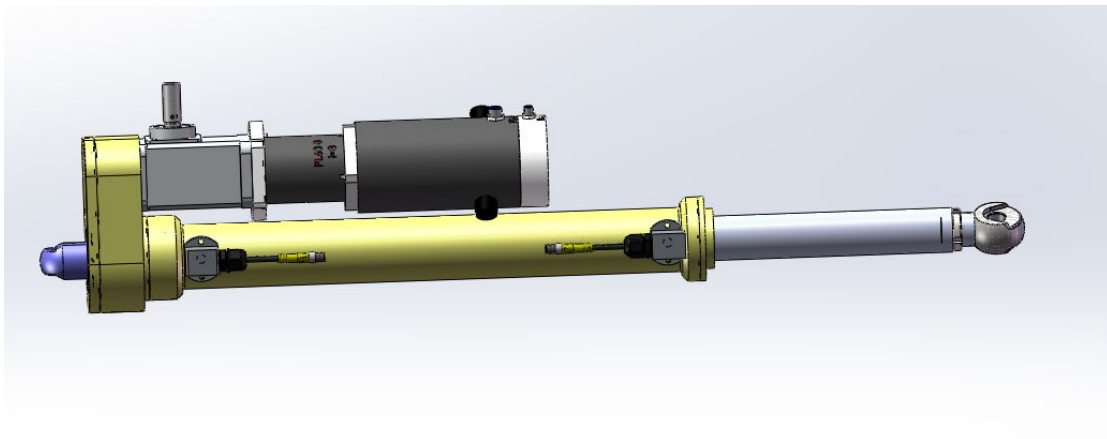
4) Turntable mechanism



5) Support mechanism



6) Electric cylinder



7) ACU (or Handhold controller)

This antenna can be controlled by ACU.