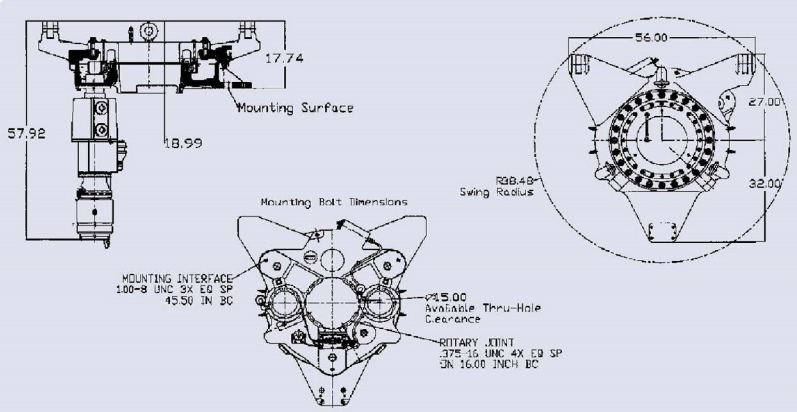
KRATOS®
READY FOR WHAT'S NEXT™

Model 2200 Rotator

Model 2200 Rotator Features

- Outdoor Applications; No Radome Required
- Full Redundancy
- Precision Constant Rotation Applications
- Oil Bath Sump Bearing Lubrication
- Variable Gear Reductions Available



The Model 2200 Rotator is a wind exposed system that is ideal for constant rotation applications, such as fixed ground terminal range surveillance. The rotator features two (2) fully redundant drivetrain assemblies. To provide a range of precise rotation rates the gearboxes are available in a variety of different ratios. The Model 2200 Rotator is a typed tested, environmentally certified, redundant outdoor system. There are currently 25 proven Model 2200 Rotators fielded around the world.

The Model 2200 Rotator is manufactured from ASTM Grade 65-45-12 ductile iron castings for exceptional strength and durability. A notable feature of the system is that the main sluing bearing can be removed without disturbing the alignment of the antenna. In the remote chance of a drivetrain failure, the gearboxes, motors, and pinion support assemblies can be removed one at a time without stoppage of rotation.

Other drivetrain features include over torque slip clutch protection and custom dual Viton lip seals, which seal the high speed shafts of the gearboxes. A holding break is included, as well as an interlocked stow pin, to protect personnel during maintenance activities. The Model 2200 Rotator's main bearing is oil lubricated which allows the pedestal to be easily maintained. The pedestal contains oil level sensors which monitor oil levels in both gearboxes and the main sump.

The Model 2200 Rotator also features a cursor ring which provides azimuth position as well as lightning protection brush blocks.

Precision and reliability in a direct coupled rotator

Kratos Rotators

Setting the standard for value, Kratos' complete line of cost-effective rotators offer proven quality, reliability, and performance. Recognized throughout the industry, our rotator designs meet or have evolved from stringent FAA qualification standards and have proven themselves in the field. Kratos provides air traffic control (terminal-and long-range) surveillance systems designed with a single source of configurable rotators, controls, and antennas. Designers of special tactical applications can also benefit from Kratos' long experience, superior product performance, and industry-leading expertise in rotator engineering.

To simplify and reduce the costs of system acquisition, installation, operation, and maintenance,Kratos offers complete system solutions with its line of positioners, pedestals, and control electronics. Reliable electronic control systems interface with customer applications to reduce or eliminate compatibility problems while enhancing overall system performance.

CHARACTERISTICS

Bull Gear Data		Bearing Data	
Tooth Form	External Spur	Ball Path Diameter (inch)	21.875
Diametral Pitch	7	Number of Balls	69
Pitch diameter (inch)	24.285	Diameter of Balls	1.25
AGMA Class	8	Mounting Bolts	24 x .500-13 UNC
Heat Treat	Induction Hardening	Race Material	ASSI 4150 Steel
Pin/Bull Reduction	6.8	Preload (inch)	.000-.003

Performance Specifications*

Motor, HP	5	7.5
Rotation	3-15	3-15
Peak Torque. ft-lb	5539	7800
Peak Dynamic Overturning Moment, ft-lb	66784	66784
Rotator Weight, lbs.	4200	4200
Motor Speed, rpm	4500	4500
Motor Voltage (Volts)	208/380/415	208/380/415
MTBF (hours)	55000	55000
Payload Weight (lbs)	10,000	10,000

* Performance specifications reflect maximum ratings and do not necessarily occur simultaneously.

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