



Rotor BIG-RAS HR



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DESCRIPTION

Rotor RAS HR is a high-strength, designed to run large satellite dishes and comes complete with an electronic control unit. The rotor is designed in such a way that it is possible to assemble "pipe in pipe", or on an optional adapter plate for mounting in the configuration of a conventional tower. It can also be mounted outside of the tower, mast or wall mounted.

SPECIFICATIONS

Rotation angle:	360 +/- 180 °
Rotation time for 360°:	240 sec. * 145 sec.
Electric motor:	12 V DC
Weight Antenna rotor:	25 Kg
Encoder Type:	Magnetic 6 pulse /HR 32 pulse
Vertical load:	320 Kg
Rotating torque:	8.000

CONTROLLERS WORKING WITH MACHINE

MD-01



MD-01 is an electronic control unit for rotating the rotors. It is a multifunctional device that allows for different combinations of settings work. The controller can be connected to individual rotors (eg, two rotors azimuth) or double (one rotor azimuth / elevation). The basic layout provides work with DC motors.

Controller parameters:

- Controller MD-01 supply voltage 15 VDC (I_{max} - 2A),
- Rotor supply voltage 12-14 VDC (I_{max} - 40 A),
- Maximum supply voltage of a single motor up to 20 A.
- 2 RS232 ports
- 1 USB host port
- 1 USB device - visible in the system as a virtual COM port.
- 1 RJ45 Ethernet port.

MD-02



MD-02 is an electronic control unit for rotating the rotors. It is a multifunctional device that allows for different combinations of settings work. The controller can be connected to individual rotors (eg, two rotors azimuth) or double (one rotor azimuth / elevation). The basic layout provides work with DC motors.

Controller parameters:

- Controller MD-01 supply voltage 15 VDC (I_{max} - 2A),
- Rotor supply voltage 12-14 VDC (I_{max} - 40 A),
- Maximum supply voltage of a single motor up to 20 A.
- 2 RS232 ports
- 1 USB host port
- 1 USB device - visible in the system as a virtual COM port.
- 1 RJ45 Ethernet port.

COMPARISON OF AVAILABLE MACHINES

Rotator Comparison Table	RAU and RAU/HR (18 V) *(24V)	RAK and RAK/HR (18V) *(24V)	BIG RAK and BIG-Rak/HR (18V) *(24V)	RAS and RAS/HR (18V) *(24V)	BIG-RAS and BIG-RAS/HR (18V) *(24V)
Rotating torque	900 *1800	1.800 *3.240	8.000 *8.000 **	1.800 *3.240	8.000 *8.000 **
Braking torque	8.000	14.000	24.000	14.000	24.000
Vertical load	350 lbs	550 lbs	>700 lbs	550 lbs	>700 lbs
Break type	Double worm	Double worm	Double worm	Double worm	Double worm
Carter	Metal	Metal	Metal	Metal	Metal
Gear	Metal	Metal	Metal	Metal	Metal
Mast plate	Metal	Metal	Metal	Metal	Metal
Reduction ratio	3300 / 1	4950 / 1	6120 / 1	4950/ 1	6120 / 1
Encoder type	Magnetic 4 pulse /HR 32 pulse	Magnetic 6 pulse /HR 32 pulse	Magnetic 6 pulse /HR 32 pulse	Magnetic 6 pulse /HR 32 pulse	Magnetic 6 pulse /HR 32 pulse
Precision	1° / 1.0° /HR 0,1° / 0.1°	1° / 1.0° /HR 0,1° / 0.1°	0.5° / 0.5° /HR 0,1° / 0.1°	1° / 1.0 /HR 0,1° / 0.1°	0.5° / 0.5° /HR 0,1° / 0.1°
Rotation angle	360° +/- 180°	360° +/- 180°	360° +/- 180°	360° +/- 180°	360° +/- 180°
Rotation time for 360°	45 sek	90 sek *45 sek	240 sek * 145sek	90 sek *45 sek	240 sek *145 sek
Electric motor	12 Vdc	12 Vdc	12 Vdc	12 Vdc	12 Vdc /HR 24 Vdc
Environment	-20° +50°	-20° +50°	-20° +50°	-20° +50°	-20° +50°
Weight Antenna rotor	8 kg	12 kg	15kg	19kg	25kg
Weight Digital Rotator Controller	Rot1Prog- 1,5 kg MD-02 – 4 kg MD-01 – 5 kg	Rot1Prog- 1,5 kg MD-02 – 4 kg MD-01 – 5 kg	Rot1Prog- 1,5 kg MD-02 – 4 kg MD-01 – 5 kg	Rot2Prog- 2 kg MD-02 – 4 kg MD-01 – 5 kg	Rot2Prog- 2 kg MD-02 – 4 kg MD-01 – 5 kg