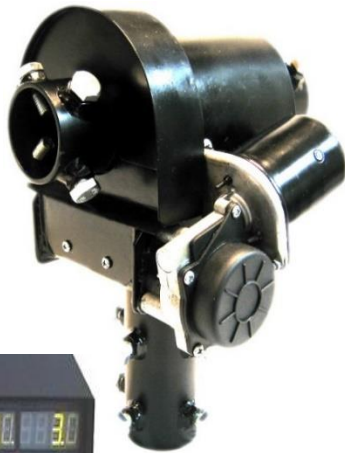


RAEL Light Duty Elevation Rotator

Complexity is reduced to a minimum by utilizing a simple double worm gear drive

* 13.8 to 18 volts DC.

* Position readout is sensed by a reed switch.



Can be run from 13.8 volts
Portable / Rover or Fixed
Operations

Works with all Alfa controller
such as ROT1, ROT2 or MD-01/02

Low Voltage - DC motor, Worm Drive,
high torque.

Uses inexpensive 4 conductor low
voltage cable.

Able to work long runs > 600 m
(~2000 ft)

Remote relay operation possible.

Sealed reed switch sensor
technology for reliable
all weather readout. (no
potentiometers to fail)

Rated for lightweight loads even
when mounted outside the tower.
Designed for simple mounting to
~50 mm (2.0") pipe mast - bottom
opening and 50 mm (2.0") top
opening (horizontal)



Designed to used/ mated with RAU,
RAK, and Big RAK



Rot2Prog Controller

Manual, Automatic, Scanning and
Programmable modes.

Digital readout with 1 degree
resolution.

Large easy to read soft green LED
display.

Computer USB interface ability
included.

Low voltage operation from any
13.8 to 18 volt source (typically
2-5 amps).

Easy to interface computer
control, open protocol.

Ideal for EME, Satellite, Yagis
antenna when used with RAU or RAK
for Roving, Portable, Disaster
and Field Day operations.

EL can be zeroed at any position
to allow for installation
inaccuracy or antenna mount
slippage.

Small front panel to simplify
stacking several units takes up
less valuable space.

Mouse control

Works with most Logging programs.

Normal 360

- 180

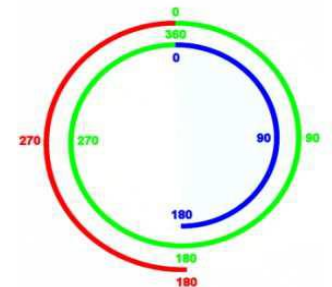
or

+540 from

North 0

for

total of 720



RAEL Specifications

Torque Voltage dependent
13.8 volts ~158.1 N m 1400 lb in.
120 sec for 360 degrees
18 volts ~203 N m 1800 lb in.
90 sec for 360 degrees
24 volts ~366 N m 3240 lb in.
60 sec for 360 degrees.
Rotation speed ~60 sec for 180
Degree @ 13.8 volts
Braking Torque ~2712 N m (24,000
in lb)
1 degree positioning resolution-
Tight tolerances for minimal play
Double worm drive
Quiet & powerful self brake action
Heavy duty bearings
Pipe to pipe mount
Overall height ~340 mm (13.5 in)
Horizontal pipe opening ~50 mm (2.0
in)
Bottom pipe opening ~50 mm (2.0 in)
Centre to widest point is ~165 mm
(6.5 in)
Real steel housing & final gear
drive

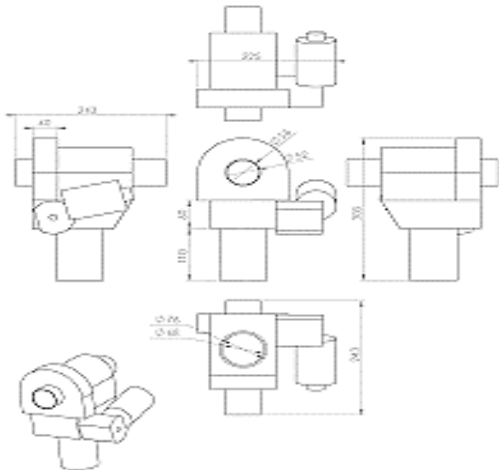
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by Amateur Radio Operators

We Are, We Know,
We do Communication
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Rotating Around



The World



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