

EAR-500 Elevation over Azimuth Rotating System:

The EAR-500 consists of the Elevation-over-Azimuth Rotator (EAR), controller (ACU-3D-24) and cables required for power and control of the positioner. The EAR rotator is designed with an azimuth slip-ring to allow continuous motion. A riser (up to 8 feet tall) and counter weights are included. See Photos.

The load capacity of the system is 500 lbs with a 10g vertical shock rating.

The positioner is designed for reliable operation in outdoor environments, and is designed to meet MIL-STD-810E.

The control unit can be remotely located to facilitate integration with the end user's system. It can be controlled locally using front panel controls or remotely via serial Interface (RS-232) using simple, well defined commands. The control unit is suitable for mounting in an equipment rack or on a table. The controller is designed to meet MIL-STD-810E for indoor operation.

RANGE of MOTION

Azimuth: Continuous
Elevation: -10° to 190°

POSITIONING ACCURACY

Azimuth: $\pm 0.25^{\circ}$
Elevation: $\pm 0.25^{\circ}$

CONTINUOUS TORQUE

Azimuth: 500 ft lbs
Elevation: 1000 ft lbs

VELOCITY:

Azimuth: 1 - 20 deg/sec
Elevation: 1 - 20 deg/sec

ACCELERATION:

Azimuth: 20 deg/sec²
Elevation: 20 deg/sec²

POWER INPUT:

Controller 120VAC/60Hz

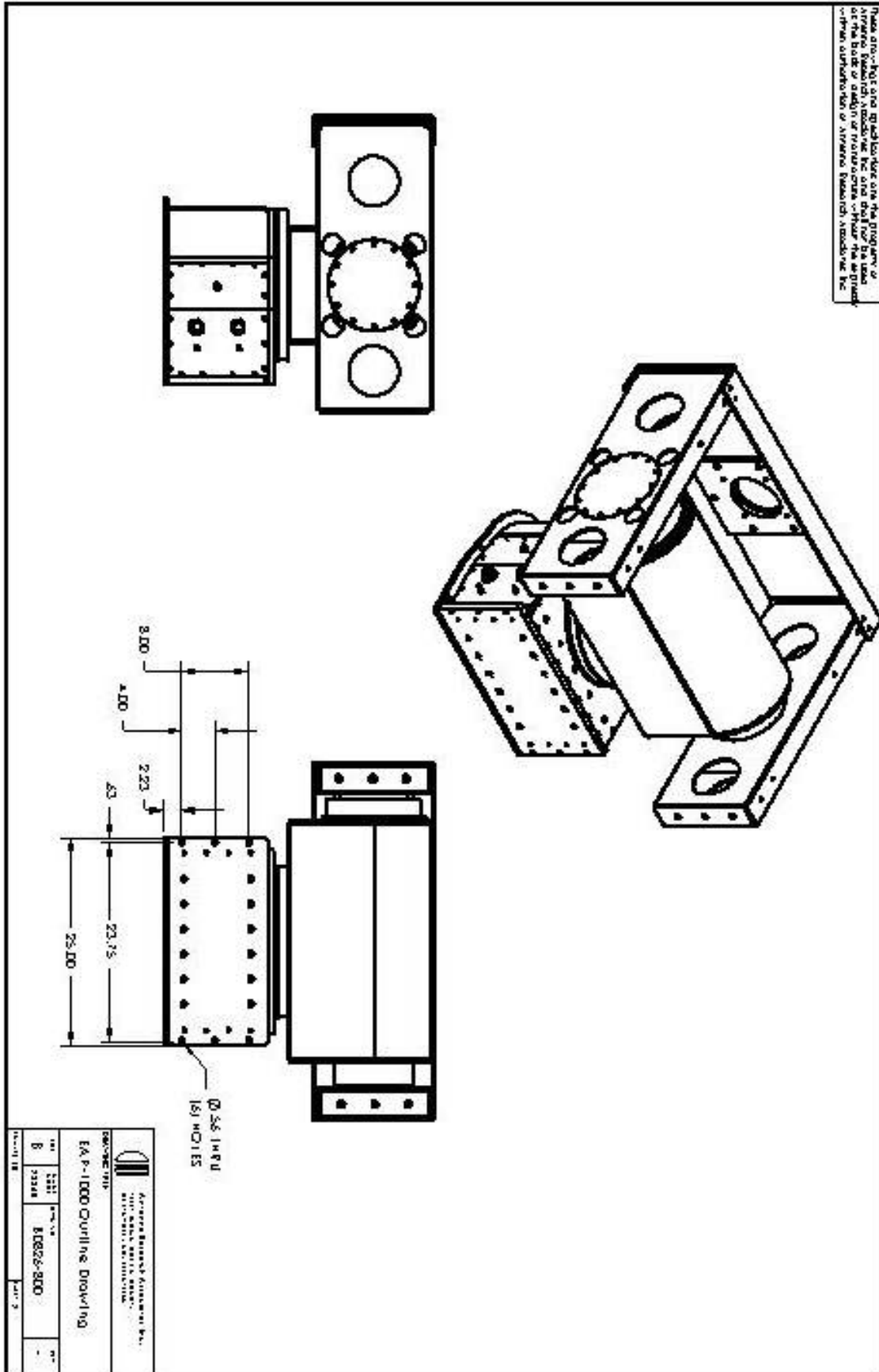
WEIGHT:

Positioner: 720 lbs (327 kg)
Controller: 50 lbs (23 kg)

POSITIONER:

Operational Temperature: 0° - 131° F
(-20° to 55° C)
Relative Humidity: 0 to 100%





This drawing is the property of Antenna Research Corporation. It is to be used only for the design and construction of antennas. It is not to be used for any other purpose. All rights reserved.