



# Euclid

SYSTEM ENGINEERING LTD

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## EU-45 Compact

The COMPACT positioner is a Mid-range high performance, Elevation over Azimuth Unit.

Azimuth axis has a continuous rotation using golden slip-rings with Ethernet, Signals & Power lines.

The COMPACT has high stiffness and low backlash with payload in motion, and is easy to integrate with other system devices.

The COMPACT can be modified according to customer requirements including the unit interfaces and software communications.

The COMPACT positioner can also be supplied with Euclid's Tracking Controller (MCU) to provide progressive control modes and target's tracking algorithms



## KEY FEATURES

- > EII: Euclid Intuitive Integration for easy
- > Dual axis Positioner
- > Ethernet and Serial communication
- > Qualifying for harsh environment
- > 360° Continuous azimuth travel
- > Supplied with Euclid's MCU Unit

# EU-45 Compact



## Specifications

| Parameter                   | EU-45 Compact   |
|-----------------------------|---|
| Payload                     | 25 Kg / 55 Lbs  |
| Continuous operation torque | 45 Nm / 33 Lb Ft  |
| Peak torque                 | 95 Nm / 70 Lb Ft  |
| Weight                      | 20 Kg / 44 Lbs  |
| Backlash                    | < 0.02°   |
| Control resolution          | 0.002°  |
| Dimensions                  | 470 x 255 x 160 mm / 18.5 x 10 x 6.3 inch   |
| Elevation travel range      | -5 to 185 Degrees (Adjustable Limits)   |
| Azimuth travel              | 360° continuous   |
| Slip ring signals (golden)  | Ethernet line & 8 signals @ 2Amp & 2 Power @ 10 Amp . Option to add second Ethernet line, signals and Power lines |
| Speed                       | up to 45 deg/Sec / Optional 90 deg/sec  |
| Operating voltage           | 24 VDC ( 18-30V) / optional: 12-80 VDC  |
| Control                     | Via internal MCU (high-level ETH protocol) or direct control over position/speed/torque closed loops              |
| Operating temperature       | -10 - 60°C / Optional -30 -60°C   |
| Storage temperature         | -20 - 70 °C   |
| Environment sealing         | IP 67   |
| Internal protection         | Over/Under-voltage, Over-temperature, Over-current, I2t, Short-circuit  |