



# Euclid

SYSTEM ENGINEERING LTD

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## EU-300 Fusion XTR

The FUSION 300 XTR dual axis positioner is a Super Heavy-Duty Elevation over Azimuth system with high torque capacity.

Azimuth axis has continuous rotation using slip-rings with Ethernet, Signals & Power lines. Hard stop and limit is optional.

The FUSION 300 XTR has high stiffness and low backlash with a payload in motion, and it is easy to integrate with other system's modules.

The FUSION 300 XTR positioner is supplied with Euclid's built-in Logics & Tracking Controller (MCU) to provide progressive control modes and target's tracking algorithms.

The integration GUI and the MCU protocol is supplied with the system.

The system speed is up to 20 deg/sec and up to 5 rad/sec<sup>2</sup> acceleration.



## 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-300 Fusion XTR



## Specifications

Parameter	EU-300 Fusion XTR
Payload	350 Kg / 770 Lbs
Continuous operation torque	1050 Nm
Peak operation torque / Peak momentary torque	1500 Nm / 22,000 Nm
Weight	120 Kg / 264 Lbs
Transmission backlash	0.02°
Control resolution	0.001°
Dimensions	810 x 490 x 290 mm
Elevation travel range	-5 to 55 Degrees . Optional: -10 to 185 Degrees
Azimuth travel	360° continuous / Limits and Hard stop are optional
Slip ring (golden rings)	Power up-to 30 Amp + 36 Signals (2A) including Ethernet Communications & motion control
Speed	up to 25°/Sec
Operating voltage	28 VDC ( 18-36VDC) / Mil-Std 1275 is optional
Current consumption	No load: 3 Amp Nominal: 8 Amp Peak: 18 Amp
Control	Via internal iMCU (Internal MCU) high-level ETH protocol
Operating & Storage temperature	Operating: -20 - 60°C Storage: -30 – 70°C / optional: Operating -32 - 60°C
Environment sealing	IP 67
Internal protection	Over/Under-voltage, Over-temperature, Over-current, I2t, Short-circuit