



# NEO JTW TRIDENT FRICTIONAL GERMAN EQUATORIAL MOUNT

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## NEO JTW TRIDENT FRICTIONAL GERMAN EQUATORIAL MOUNT

**\$4,995.00**



Model Number: JTWOGEM

The OGEM (Open German Equatorial Mount) is a servo powered (kinematic) friction drive mount. This system is renowned for high precision and reliability. The mount comes with several patented features and a flexible open source modern control.

Absolute Encoders

1

**Your Price: \$4,995.00**

\*A handling fee of \$250.00 per item will be added to your order





Manufacturer: JTW Astronomy



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## DESCRIPTION

## CUSTOMER REVIEWS (0)

*Available soon.*

The NEO JTW TRIDENT frictional german equatorial mount is a servo powered (kinematic) friction drive mount. This system is renowned for its high precision and reliability. The mount comes with several patented features and a flexible open-source modern control.

The mount is designed to carry **100 kg** (this is enough for a 500 mm catadioptric or a 200 mm refractor). The advised maximum payload is 75 kg, this should be reduced with particularly demanding systems, such as refractors due to their length.

The mount is constructed for outdoor use, all surfaces have some form of heavy-duty protection. Aluminum is hard-coat anodized, steel is galvanized and powder coated, the system is built to survive many years outdoors and if the environment is particularly tough there is an option to upgrade to stainless steel drive wheels. The drive wheels are already high-grade steel and very rust-resistant but your requirements may vary. 30 kg of counterweights will be provided with the mount.

To lower the barrier to entry as much as possible, the base model Trident will be supplied with servo encoders. The mount uses servo motors instead of steppers and the controller is the same on all models meaning upgrading to encoders at a later date is something the client can do themselves with a minimum of mechanical skills. The encoder system provides 0.08 arcsecond resolution, enough for even the best sites on the planet. With guiding or encoders you can expect 0.1 to 0.2 arcsecond peak to peak tracking error. This may increase when you approach the limits of the mount but will remain undetectable at the eyepiece/CCD camera. An added benefit to the absolute encoders is that the mount will never lose it's position when knocked or due to a power cut.

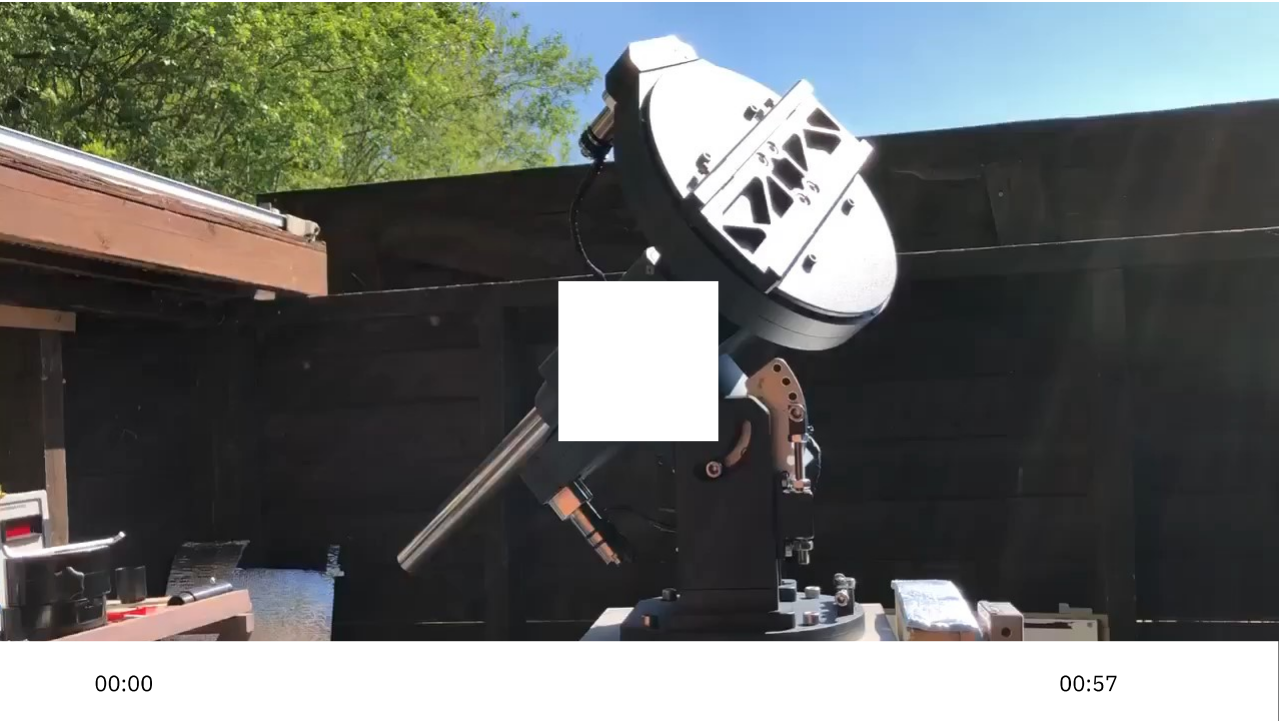
Absolute encoders also allow power cycling without losing positional data. Perfect for remote observatories.

The mount can be controlled via joystick, computer, laptop, smartphone or tablet. There is a Windows driver [^](#) and an Apple driver in the pipeline and hopefully the Linux community will take advantage of the open-source control



Drive system	Friction
Payload (kg)	100 (advised 75)
Axle diameter	50 mm RA, 40 mm DEC
Axis encoder resolution (Arcsec)	0.08
Control system	ASCOT compliant
Slewing speed (deg/s)	5
Pointing accuracy (arcsec)	<30
Typical PE (Arcsec RMS)	<0.2
Weight (kg)	30 (14 kg base and 16 kg body)
Power (v DC)	12
Maximum current (A)	0.8
Current pull during tracking (A)	0.15

Torque: 225 N/M





## EQUATORIAL MOUNT"

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**Greg Szymanski**

April 24, 2020 at 8:18 am

Hi there,

When is the approximate ETA foe this mount?

What encoders are available?

Kind regards

Greg

Stay safe

[Log in to Reply](#)

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**Nadventr**

April 27, 2020 at 11:51 pm

Hi Greg,

According to the factory, we are looking at next month and then a few weeks for the shipment to arrive. We currently have the option of 23 or 26-bit encoders.

Thank you,

Sean

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