

# PRODUCT DATA SHEET

## ET1300 Low Speed Torquemeter

### Model Rating

Maximum Continuous Torque: 300Nm

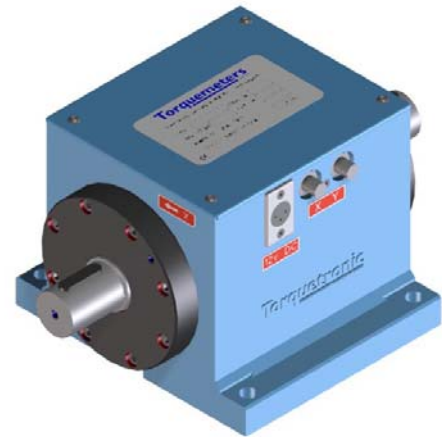
Maximum Continuous Speed: 12000rpm

Shaft Rating Range 32Nm to 300Nm

Accuracy at Full Scale Torque 0.12% Application Dependant

### Specification

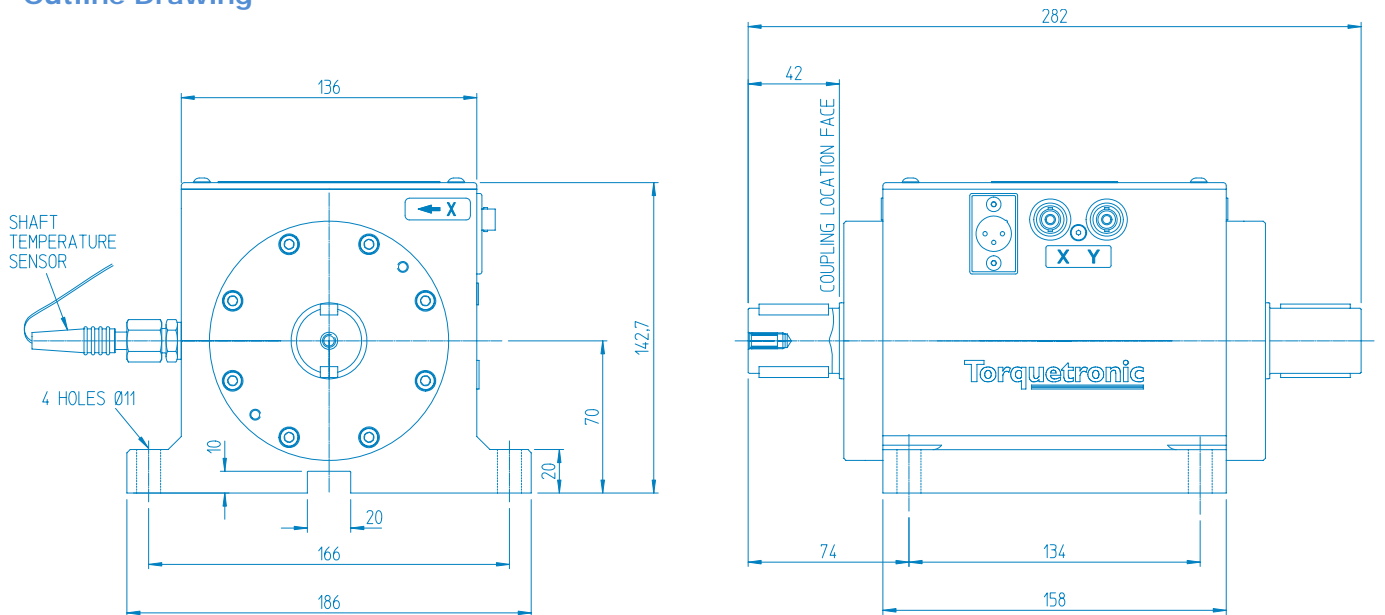
Number of Bearings	2
Bearing Temp. Monitoring	None
Bearing Lubrication Type	Grease
Accelerometer Mounting	None
Rotastat Voltage	See GDS01



### Environment

Storage Temperature	-50 to 85°C
Operating Temperature	-20 to 80°C

### Outline Drawing



Overall Weight 11kg

### For more detail see drawings

INST02-1300-00	For installation drawing
02-1300-00	For itemized assembly drawing
E850001	For typical electrical connection drawing
03-1300-00	For drawing of optional calibration tooling



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### Coupling Specification

Shaft End Type	2off Opposite Shallow Keys
Nominal Size	Ø30mm

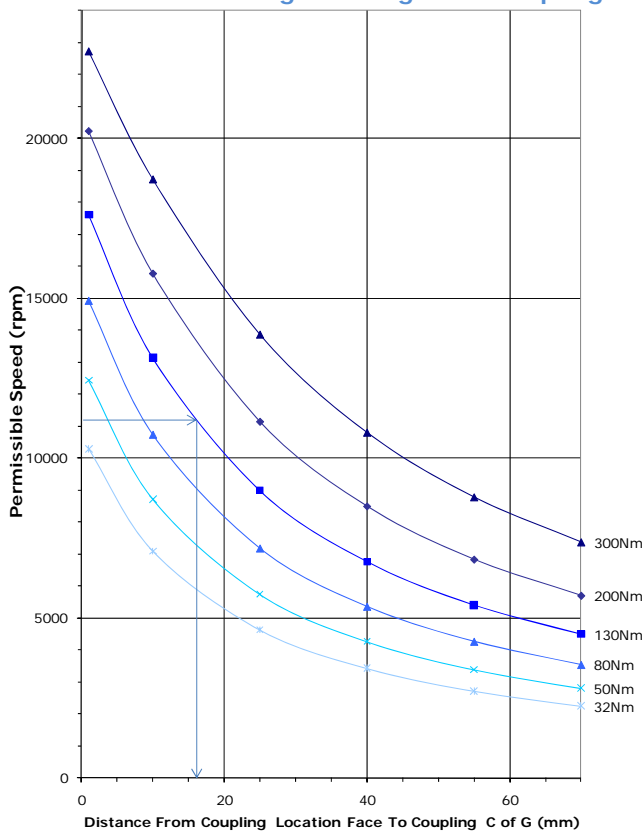
### Bearing Lubrication Requirements

Lubrication type	Semi Synthetic Grease
Grease type	Shell Nerita HV Grease
Grease quantity	1.3 ml

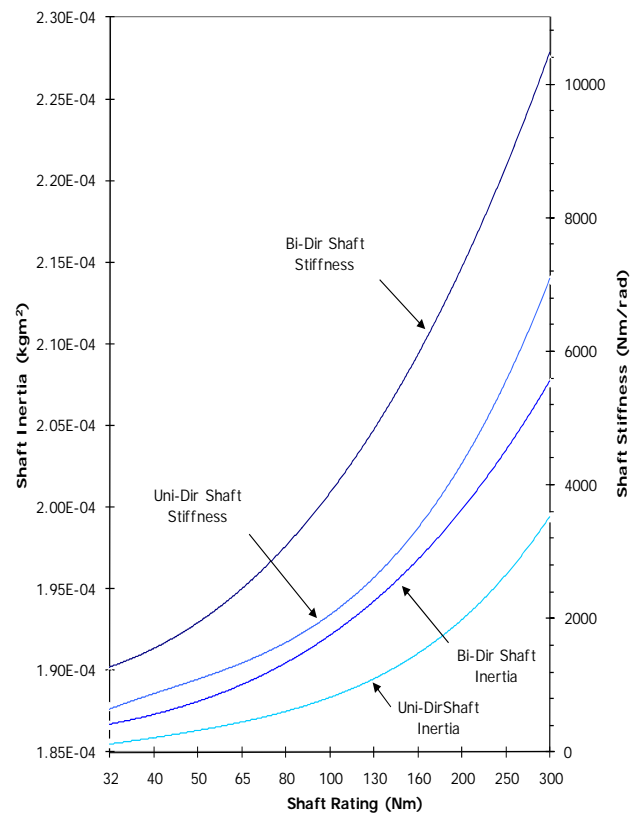
### Cartridge Style

ET1300 supplied as a non cartridge style torque meter, refer to GDS01 Sheet Section 3

**Permissible Speed vs CofG Overhang**  
32–300Nm rating with 2kg Mass Coupling



**Inertia and Torsional Stiffness vs Shaft Rating**



For a different coupling mass ( $m_c$ ) the permissible speed ( $N_{c_c}$ ) is factored as follows:

$$N_{c_{0.5kg}} = N_{c_c} \sqrt{\frac{m_c}{2.0}}$$

Example:

Application max speed 10000rpm  
Torsion shaft rating 130Nm  
Estimated coupling mass 2.5kg

$$N_{c_{0.5kg}} = 10000 \sqrt{\frac{2.5}{2.0}} = 11180rpm$$

The max allowable coupling C of G from location face read off chart is 16mm.

Note: Bi-directional ET's can run heavier couplings, contact Torquemeters for further details.

Please refer to Technical Data Sheet (TDS01) for details of Torquetronic Torquemeter phase shift system.  
Please refer to Generic Data Sheet (GDS01) for details of Torquemeter options.