

PRODUCT DATA SHEET

ET2350 Low Speed Torquemeter

Model Rating

Maximum Continuous Torque: 3500Nm

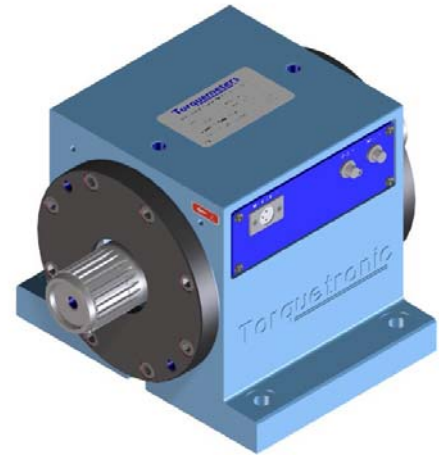
Maximum Continuous Speed: 8000rpm

Shaft Rating Range 320Nm to 3500Nm

Accuracy at Full Scale Torque 0.12% Application Dependant

Specification

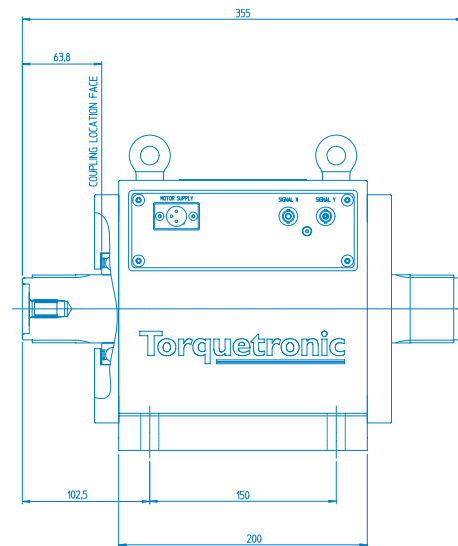
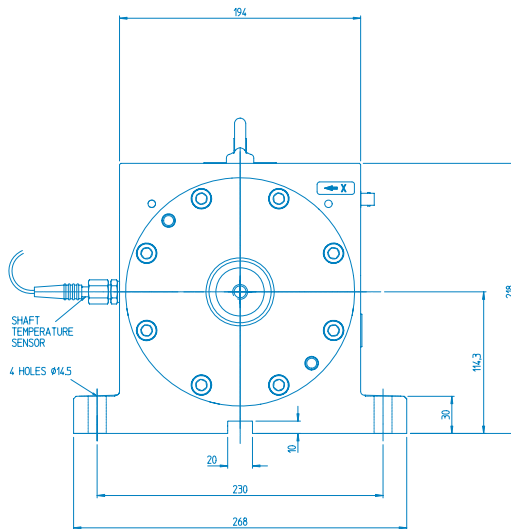
Number of Bearings	2
Bearing Temp. Monitoring	None
Bearing Lubrication Type	Grease
Accelerometer Mounting	None
Rotastat Voltage	See GDS01



Environment

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

Outline Drawing



Overall Weight 30kg

For more detail see drawings

INST02-2350-00	For installation drawing
02-2350-00	For itemized assembly drawing
E850001	For typical electrical connection drawing
03-2350-00	For drawing of optional calibration tooling
06-2350-00 & 06-2350-01	For optional bearing removal and refitting tooling



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Coupling Specification

Shaft End Type	Splined DIN 5480 – 55 x 2 x 26 x 7H 8f
Nominal Size	55mm

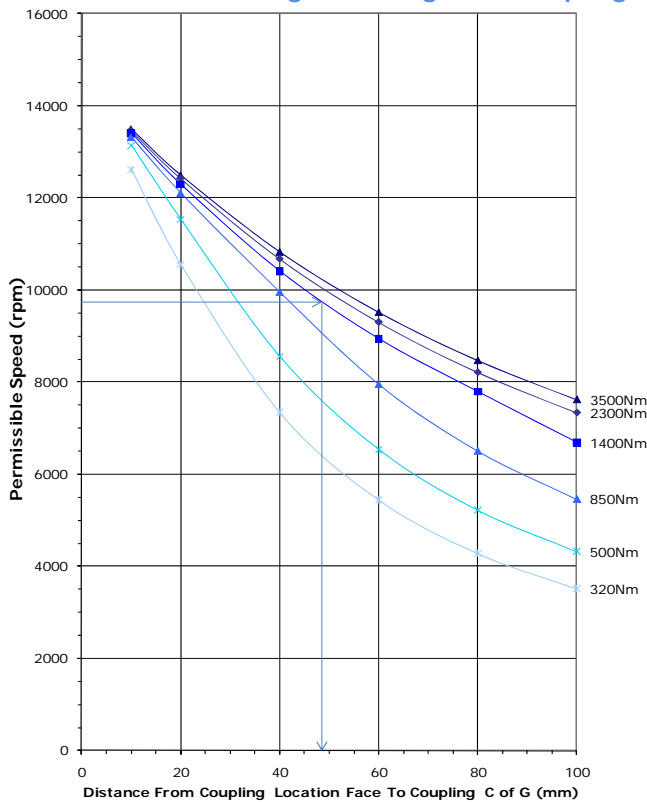
Bearing Lubrication Requirements

Lubrication type	Semi Synthetic Grease
Grease type	Shell Nerita HV Grease
Grease quantity	3 ml

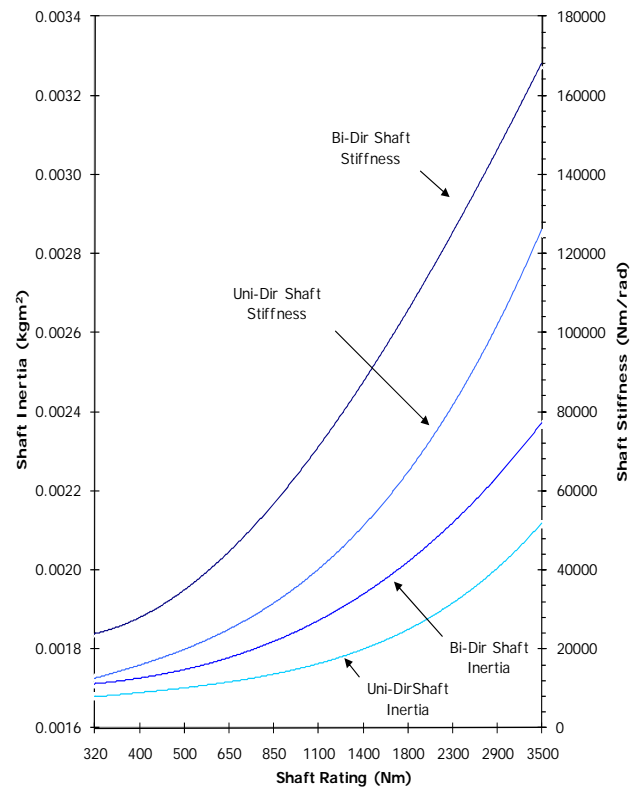
Cartridge Style

ET2350 supplied as a non cartridge style torquemeter, refer to GDS01 Sheet Section 3

Permissible Speed vs CofG Overhang
320–3500Nm rating with 10kg Mass Coupling



Inertia and Torsional Stiffness vs Shaft Rating



For a different coupling mass (m_c) the permissible speed (Nc_c) is factored as follows:

$$Nc_{0.5kg} = Nc_c \sqrt{\frac{m_c}{10.0}}$$

Example:
Application max speed 8000rpm
Torsion shaft rating 1400Nm
Estimated coupling mass 15.0kg

$$Nc_{0.5kg} = 8000 \sqrt{\frac{15.0}{10.0}} = 9798rpm$$

The max allowable coupling C of G from location face read off chart is 48mm.

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.