

PRODUCT DATA SHEET

ET2145 High Speed Torquemeter

Model Rating

Maximum Continuous Torque: 1400Nm

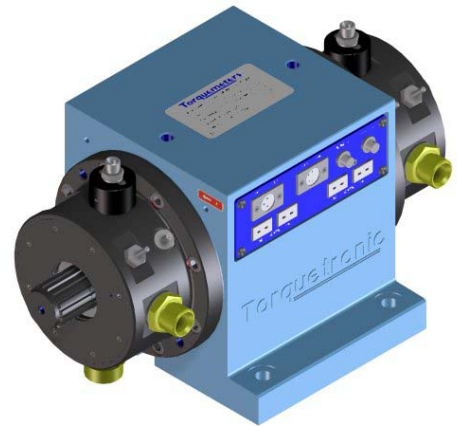
Maximum Continuous Speed: 3200rpm

Shaft Rating Range 140Nm to 1400Nm

Accuracy at Full Scale Torque 0.12% Application Dependant

Specification

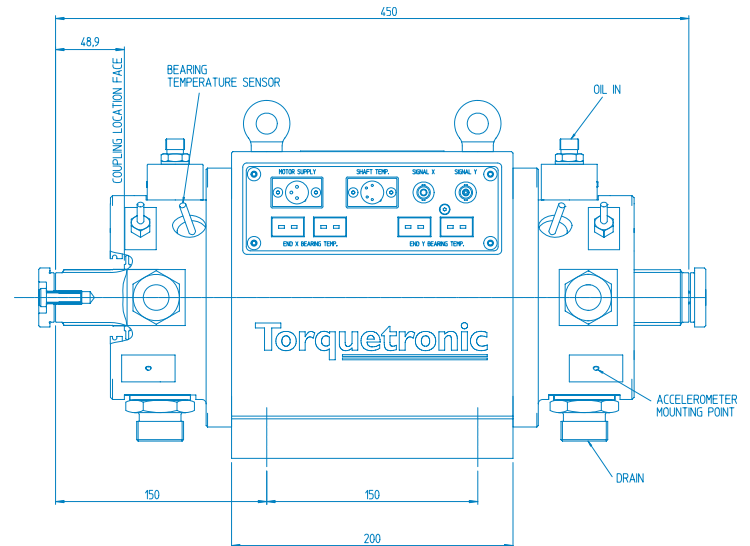
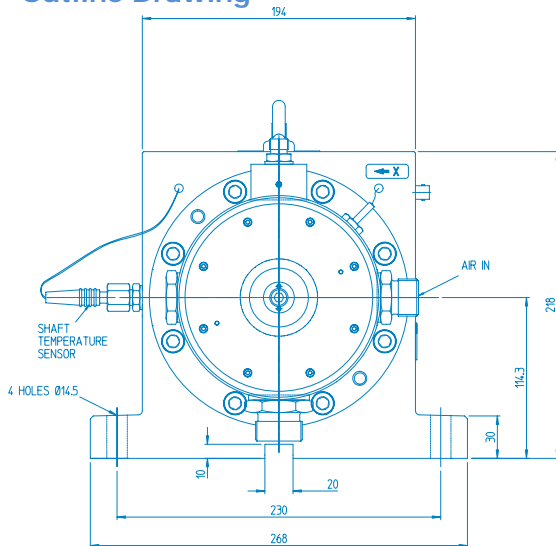
Number of Bearings	4
Bearing Temp. Quantity	1 Per Bearing
Bearing Temp. Monitoring	See GDS01
Bearing Lubrication Type	Oil
Fluid Port Type	See GDS01
Accelerometer Mounting	2-off Each End. See GDS01
Rotastat Voltage	See GDS



Environment

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

Outline Drawing



Overall Weight 45kg

For more detail see drawings

INST02-2145-00	For installation drawing
02-2145-00	For itemized assembly drawing
E850001	For typical electrical connection drawing
03-2145-00	For drawing of optional calibration tooling
06-2145-00 & 06-2145-01	For optional bearing removal and refitting tooling



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Coupling Specification

Recommended Coupling	TORDISC LM214
Shaft End Type	Splined DIN 5480 - 40 x 2 x 18 x 7H 8f
Shaft Diameter Nominal	40mm

Bearing Lubrication Requirements

Lubrication Type	Oil Jet
Oil type	ISO VG32
Oil inlet temperature	35 ± 5 °C
Oil supply pressure	200 ± 50 kPa
Oil quantity	135 l/hr @ 200 kPa
Oil filtration	10 µm

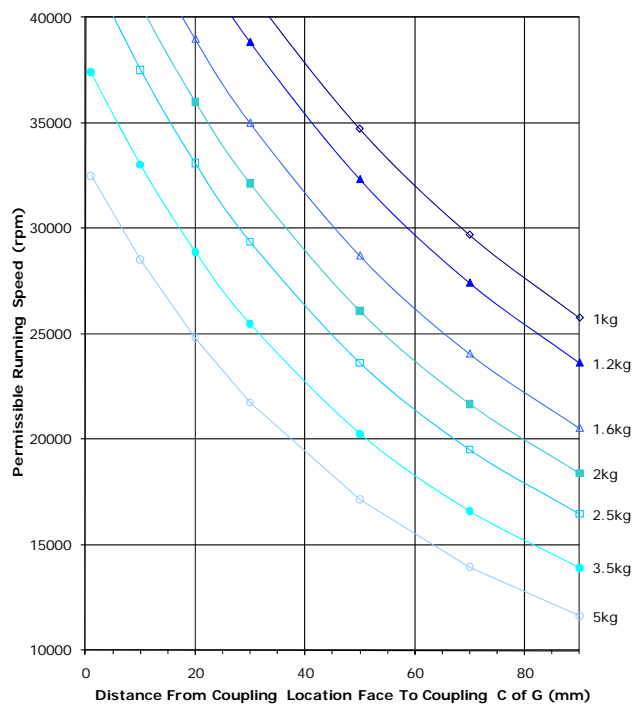
Seal Air Supply Requirements

Air pressure	4 ± 1 kPa
Air quantity	75 m ³ /hr

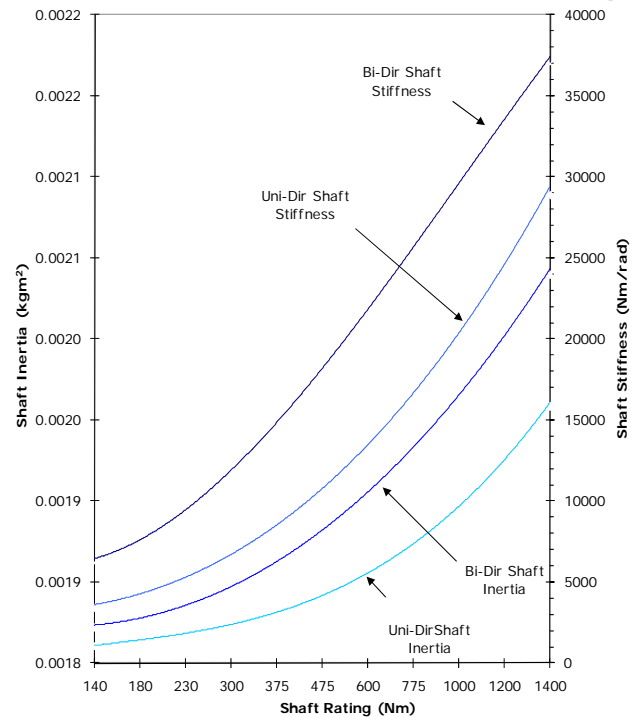
Cartridge Style

Interchangeable torsion shafts for ET2145 supplied with bearings as a cartridge assembly

Permissible Speed vs Coupling C of G Overhang



Inertia and Torsional Stiffness vs Shaft Rating



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.