

PRODUCT DATA SHEET

ET1304 High Speed Torquemeter

Model Rating

Maximum Continuous Torque: 300Nm

Maximum Continuous Speed: 44000rpm

Shaft Rating Range 32Nm to 300Nm

Accuracy at Full Scale Torque 0.12% Application Dependant

Specification

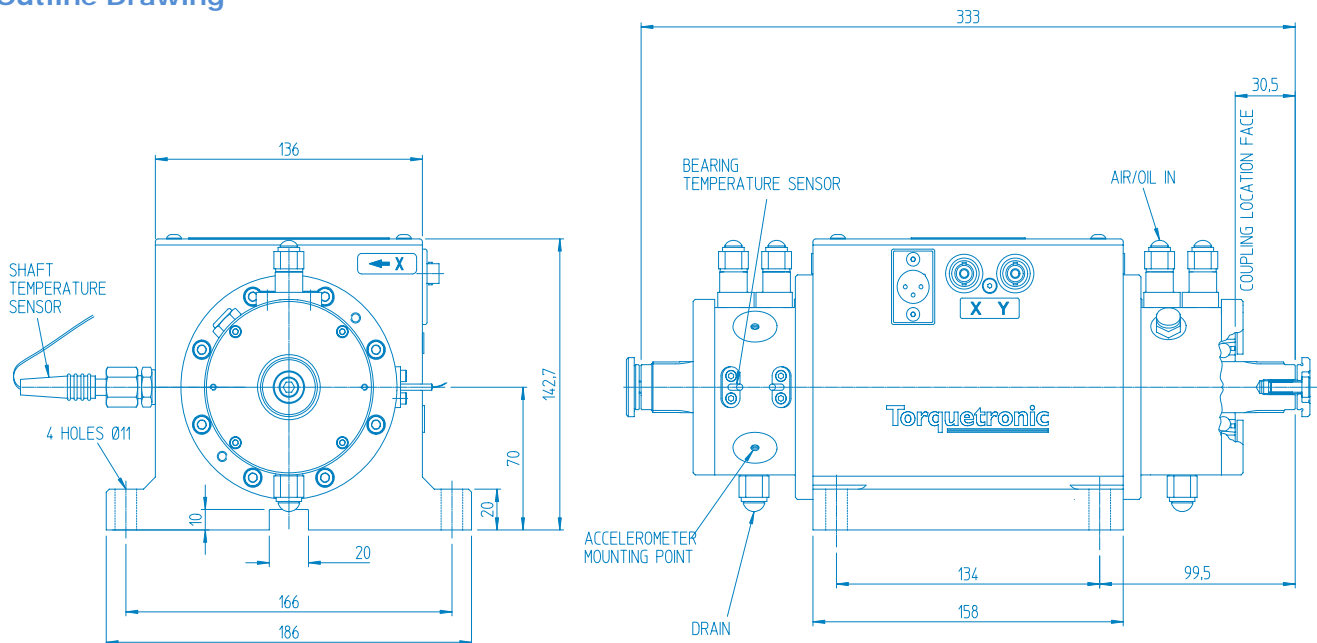
Number of Bearings	4
Bearing Temp. Quantity	1 Per Bearing
Bearing Temp. Monitoring	See GDS01
Bearing Lubrication Type	Oil Spot
Accelerometer Mounting	2-off Each End. See GDS01
Rotastat Voltage	See GDS01

Environment

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



Outline Drawing



Overall Weight 13kg

For more detail see drawings

INST02-1304-00

02-1304-00

For installation drawing

For itemized assembly drawing



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E850001	For typical electrical connection drawing
03-1303-00	For drawing of optional calibration tooling
06-1304-00 & 06-1304-01	For optional bearing removal and refitting tooling

Coupling Specification

Recommended Coupling	TORDISC LM130
Shaft End Type	Splined DIN 5480 – 25 x 1 x 24 x 7H 8f
Shaft Diameter Nominal	25mm

Bearing Lubrication Requirements

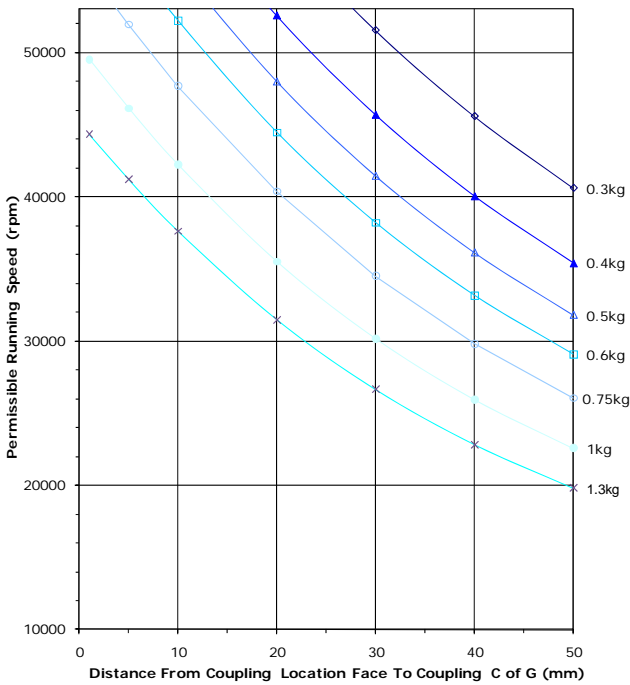
Lubrication System	Oil Spot
Lubrication type	ISO VG68
Oil Quantity	70-120mm ³ /hr per bearing
Air Pressure	3-5 Bar
Inlet Port size	4mm Tube
Outlet Port size	6mm Tube

Air-oil flow to the bearings must be consistent and with negligible losses along its path. Individual air-oil supply to each bearing is strongly recommended.

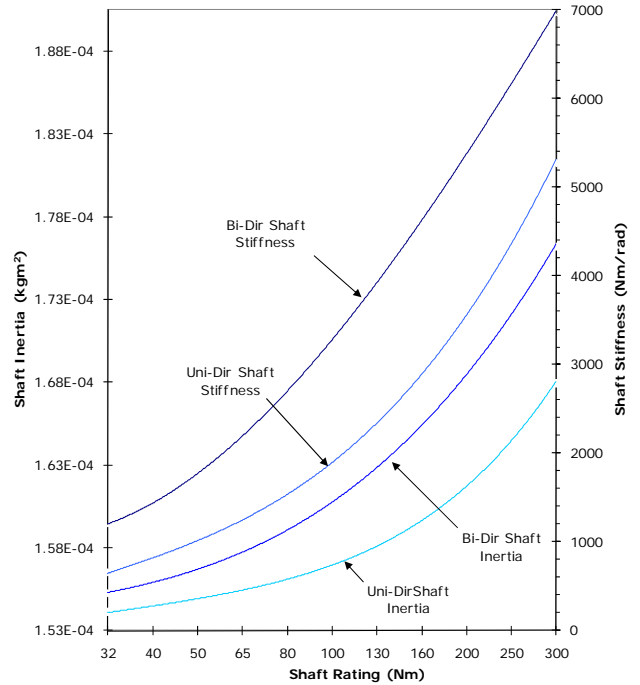
Cartridge Style

ET1304 supplied as a non cartridge style torque meter, refer to GDS01 Sheet Section 3

Permissible Speed vs CofG 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.