

SCO Series - Clamp-on Rotary Torque System

Product Overview

Retrofit torque measurement has become more cost-effective in recent years. This style of Transducer is designed for the Automotive Industry and other applications where battery changing is undesirable and radial shaft movement prevents the use of a 'static' coil around the shaft for a permanently powered data transmission system.

IML's TCO 'temporary' clamp-on system was a popular product, but it had a relatively low speed limit related to shaft diameter, so we developed the SCO Clamp-on Rotary Torque System to solve this issue.

Our new higher-speed SCO system is designed to fit any shaft diameter from 100 to 250mm, and is rated to 65°C with a 100°C option. The SCO can be fitted on site or within our workshop for a traceable calibration. The system is supplied as standard with a desk mounted signal-conditioning unit for Torque.

Alternate packages are available to suit our customer's requirements and application.

For more information about the SCO Series and other Clamp-on Rotary Torque Systems, visit www.indmeas.co.uk, or for a quote, call +44 (0) 1332 810 240 or email sales@indmeas.co.uk.

System Specifications*:

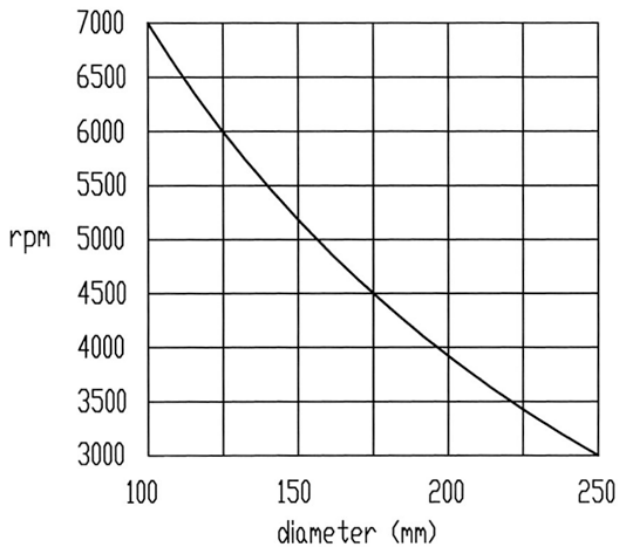
Combined inaccuracy for on-site fitted systems:	±1.0%
Output signal at zero Torque:	10kHz
Nominal output at -FS Torque:	5kHz
Repeatability:	±0.05% FS
Calibration level:	Specified on cal.certificate.
Operating temp. range:	0 to +65°C
Zero shift:	<±0.01% FS/°C
Nominal output at +FS torque:	15kHz
Non-linearity:	±0.2% FS (uni-directional)
Hysteresis:	±0.1% FS
Overload capacity:	As parent shaft
Optional temp range:	-10 to +100°C
Span shift:	<±0.02%FS/°C

* For a typical standard installation

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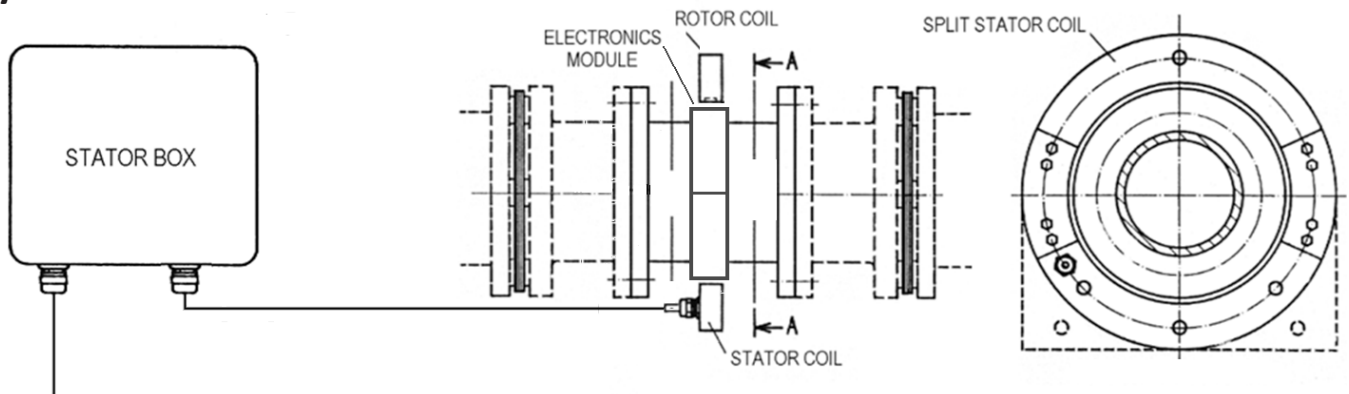




NOTE-

The SCO can only be considered if the Speed vs Shaft Size relationship is below the line shown in the graph opposite.

System Schematic



Desk mounted display with $\pm 10\text{vdc}$ or 4 – 12 – 20mA outputs, supplied as standard.

Other options:

- ✓ Desk mounted Torque and Speed displays.
- ✓ 19" rack, incorporating Torque and Speed.
- ✓ TDU-2 - tough screen display - cabinet mounted version also available.

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