

SCO Series - Clamp-on Rotary Torque System

Product Overview

Retrofit torque measurement has become more cost-effective in recent years. This style of torque system 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.

Our 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) 1455 25 14 88 or email sales@indmeas.co.uk.

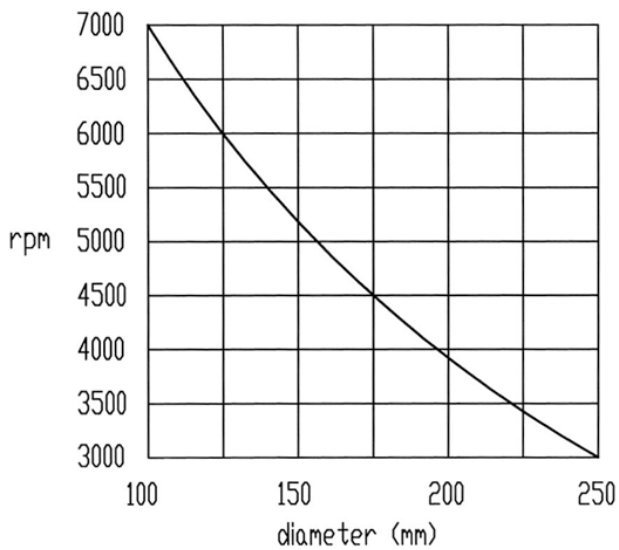
System Specifications*:

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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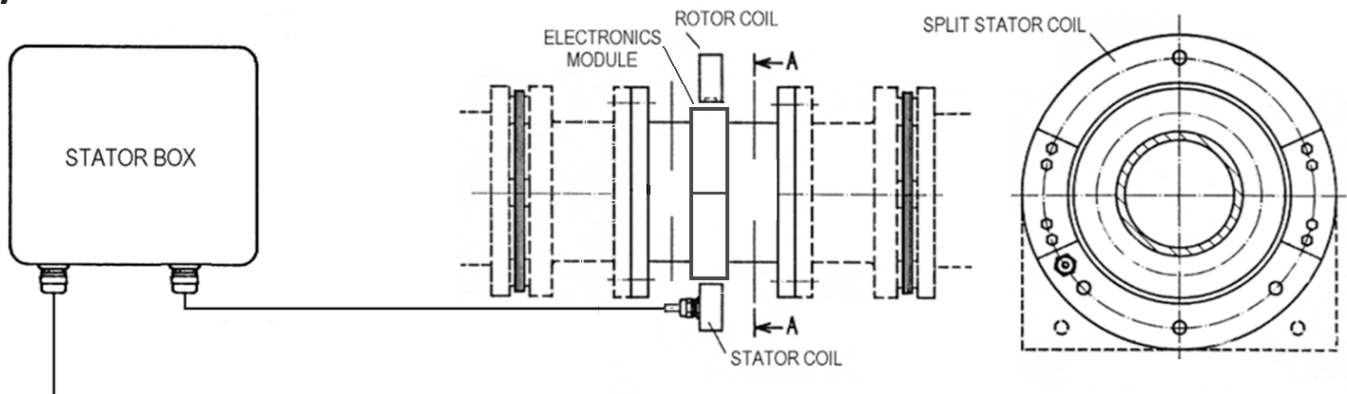




NOTE-

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 - touch screen display - cabinet mounted version also available.

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