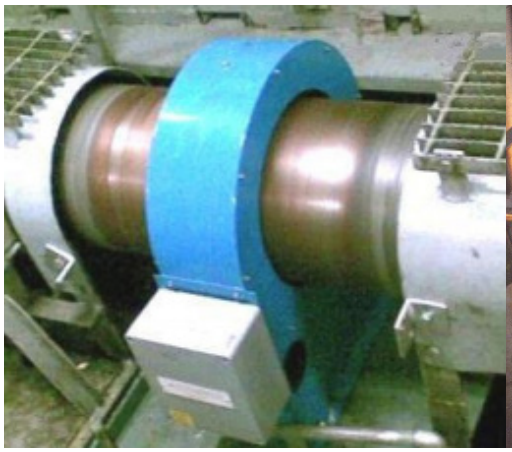
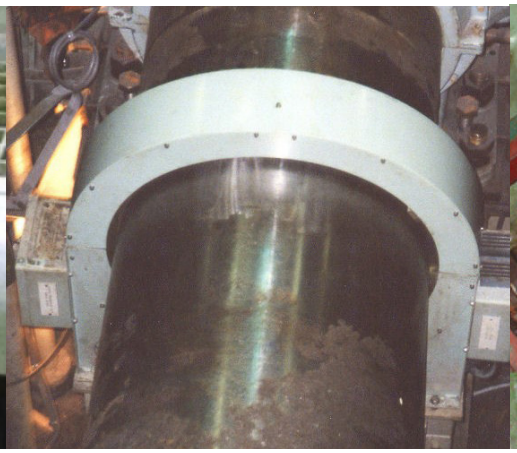


MT Series - In-line Rotary Torque System

Product Overview

Operators realise that increasing demands for close monitoring of a ship's overall performance and its running costs, requires accurate and reliable measurement of torque transmitted through the propeller shaft. Additional speed measurement and signal conditioning allows a direct reading of system power.

The MT series torque system is designed specifically for a marine environment, combining a rugged mechanical construction with a proven non-contacting inductive system powering the shaft-mounted strain gauge bridge and conditioning electronics.

The use of a single coil for power and data transmission allows a large running gap, typically 10 to 12mm, therefore axial and radial alignments are not critical.

Digital, analogue meters, current & voltage outputs are available to cover all requirements.

For more information about the MT Series and other in-line 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:	
Instrumentation accuracy:	±0,1% of rated Torque
System accuracy*:	<±1,0% of rated Torque
Analogue signal outputs:	4-20mA
Optional signal outputs:	0±10V
System check facility:	Remote switch
Operating temperature:	-5 to 65°C
Temperature effect on reading:	0,01%/C°
Stator positional tolerance:	±8mm radial
Stator positional tolerance:	±5mm axial
Supply voltage:	110 – 230V 40/60Hz
Housing material:	Powder coated steel
Optional housing material:	Stainless steel
Housing diameter:	Shaft diameter + 200mm
Housing width:	160mm (baseplate 220mm)
Line driver dimensions:	160 x 160 x 90mm
Environmental Protection:	IP67

* Allows for shaft material modulus and shaft diameter tolerance.

Industrial Measurements
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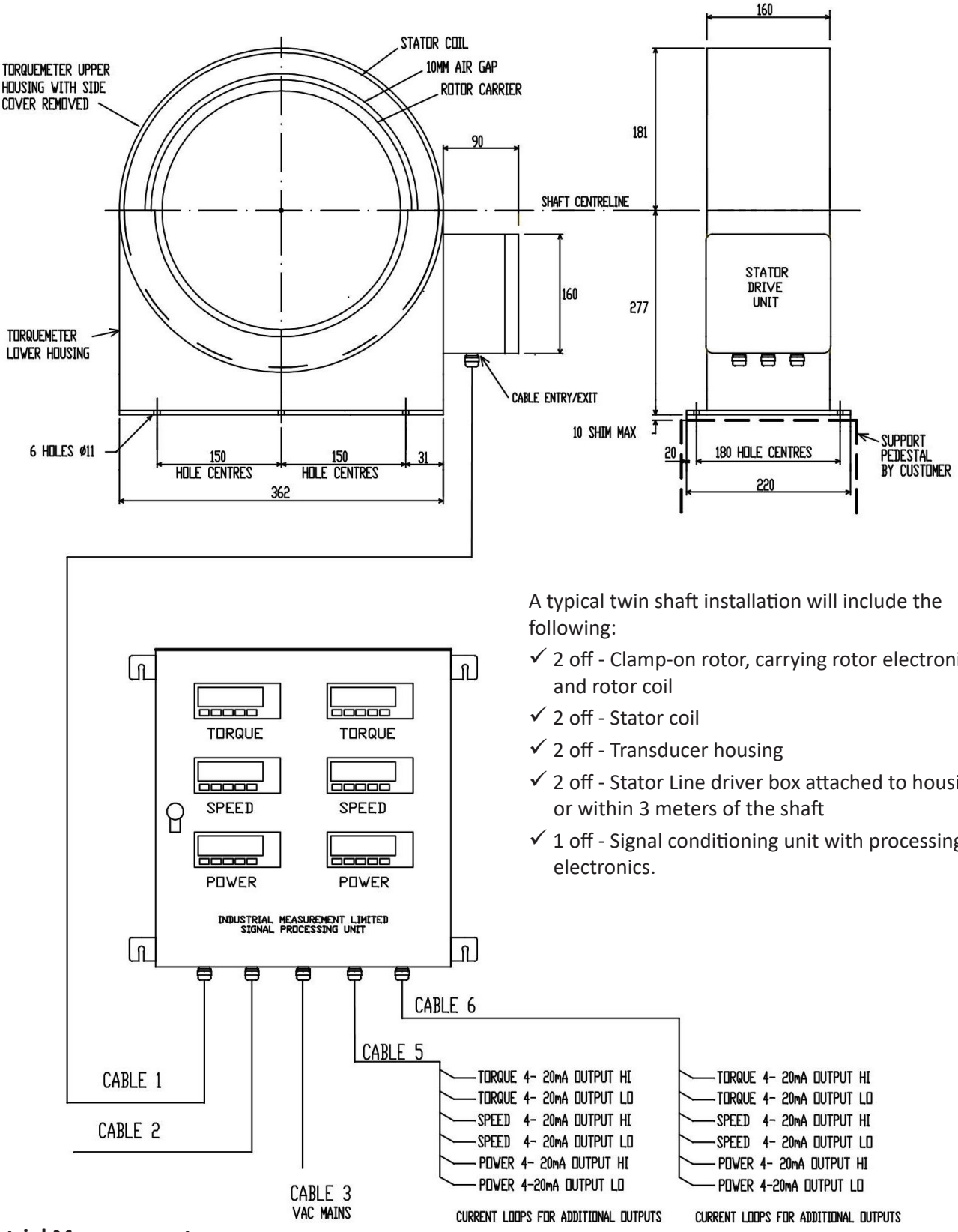
System Schematic



A typical twin shaft installation will include the following:

- ✓ 2 off - Clamp-on rotor, carrying rotor electronics and rotor coil
- ✓ 2 off - Stator coil
- ✓ 2 off - Transducer housing
- ✓ 2 off - Stator Line driver box attached to housing or within 3 meters of the shaft
- ✓ 1 off - Signal conditioning unit with processing electronics.

UK10/2019v3 - MT-CN-024

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