

Large Torque Sensor

PRODUCT OVERVIEW

V1.1



Large Torque Sensor

Datum Electronics Ltd are the manufacturer of some of the largest inline torque measurements systems in the World where we accurately measure torques of up to 84MNm as sold to some of our valued customers including GE and Siemens.

Based on our expertise for these systems Datum Electronics are introducing the LTS range to our customers requiring to accurately measure Torques from 40kNm up to 500kNm. The LTS [Large Torque Sensor] systems are designed using flanged coupling spacers to allow for simple and efficient inline installation. Datum Electronics have designed a standard range for the LTS systems to allow customers to easily plan and integrate the LTS range into their own test stands.

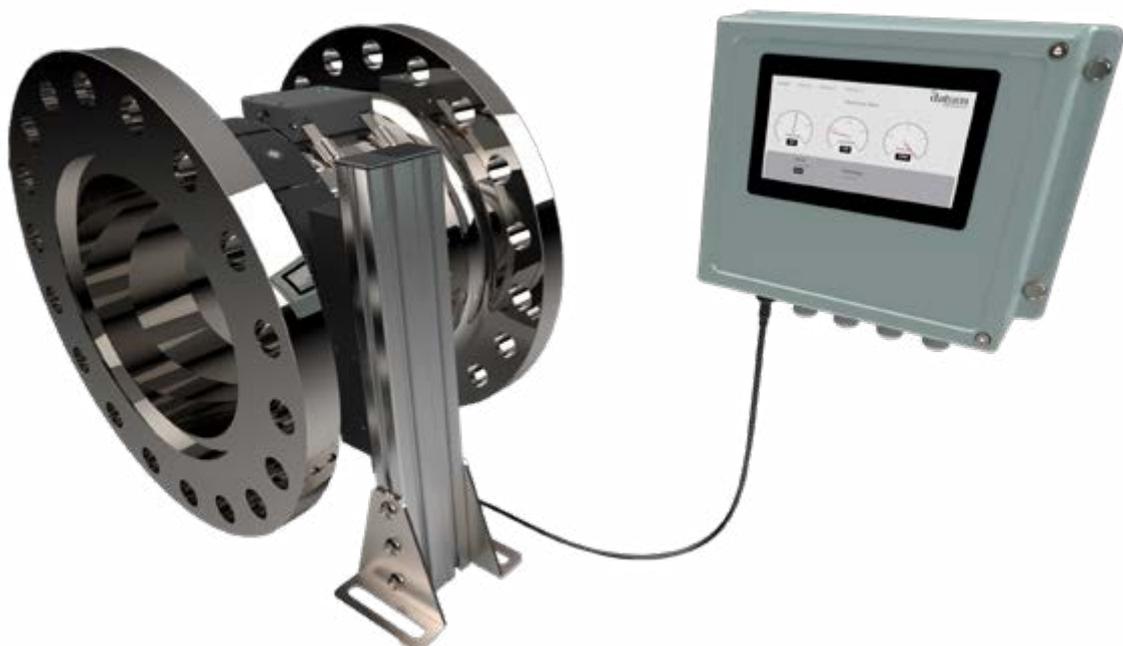
The LTS Systems offers our customers precise on-shaft torque measurement solutions with a wide range of outputs including digital, selectable analogues and a display included as standard.



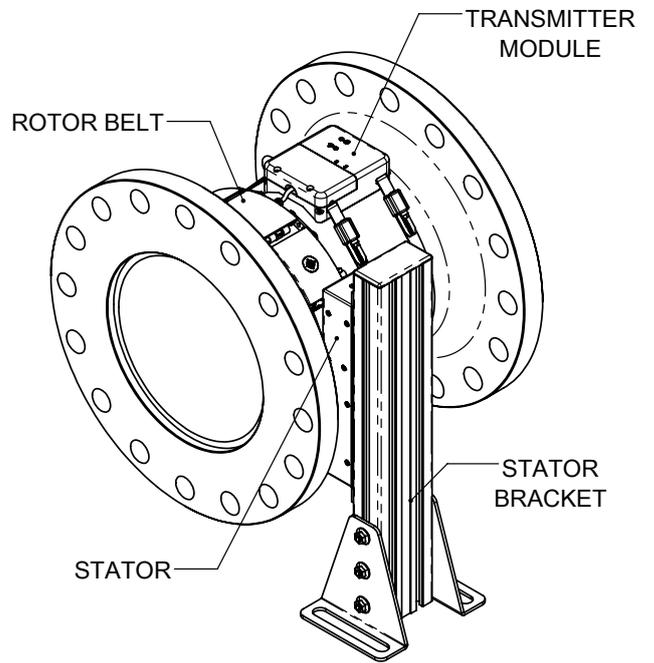
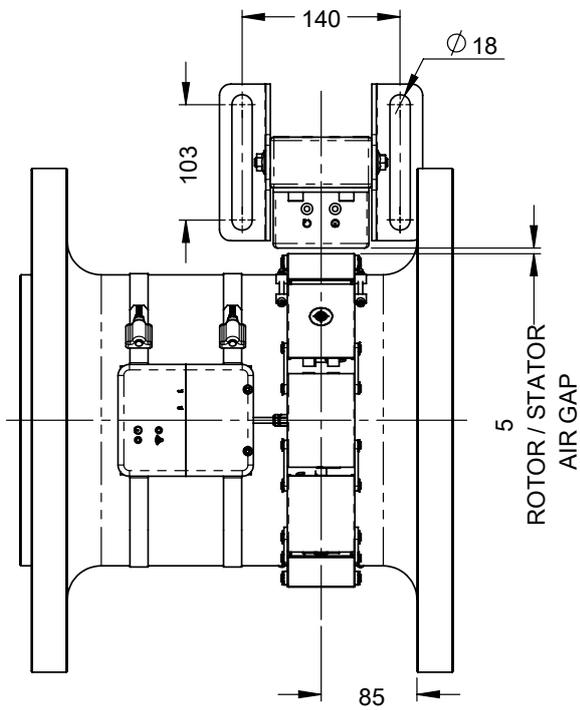
For those customers who have specific requirements such as higher sample rates for dynamic torque data for analysis and/or any specific integration requirements such as customer PCD's etc. please talk with our sales team who are happy to discuss making the LTS the right solution to your torque measurement needs.

Technical Specification

100 SPS Torque Measurement	1000SPS upgrade option available	
1 RPM Speed Measurement		
Calculated Power Measurement		
Torque Electronics Accuracy of 0.1%	Final Accuracy dependant on coupling design and material specification	
Range pricing shown is on Datum Standard Coupling Drawing	Customer Specific Flange Design Service available as extra for simple integration - please discuss with sales	
Calibration Certificate Included	Part mathematical and part physical calibration supplied	
	Physical Full Scale Calibration Upgrade Available - Please discuss with sales	
Includes Touch Screen Controller with calibrated outputs for Torque, Speed & Power	Digital Outputs - RS485 or MODBUS 3 x Channel Analogue Output	Selectable as 0-10V, +/-10V, 4-20mA, 12+/-8mA
Remote Ethernet Repeater Function	Dependant on customer network configuration	
On Shaft Electronics IP65 Rated		
Includes Single Point Stator for simple integration	Post Mount Included in Price	

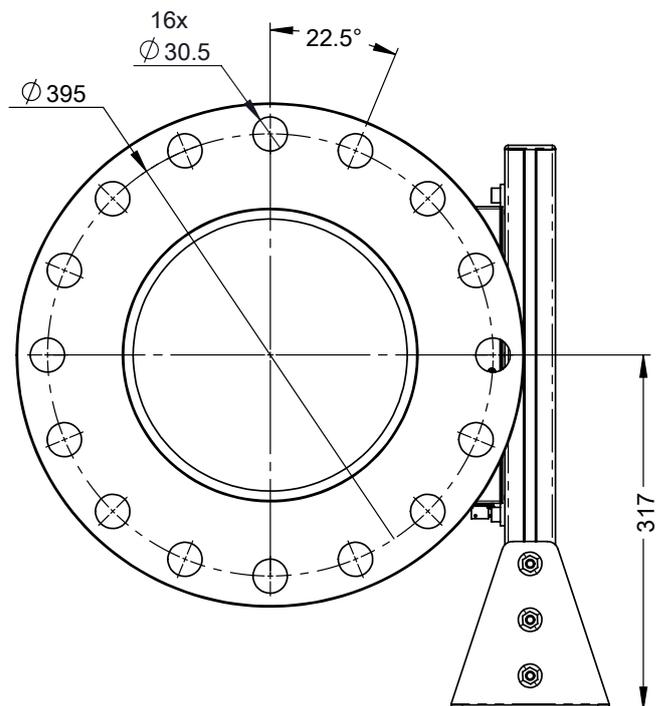
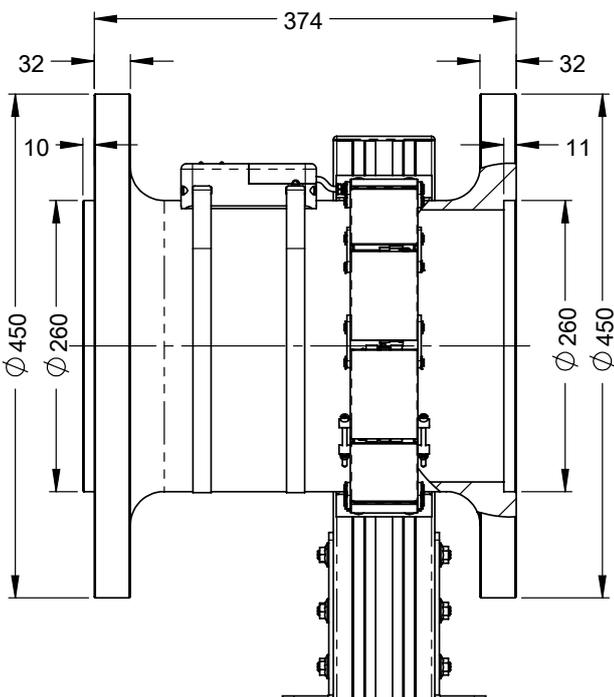


Model sizes



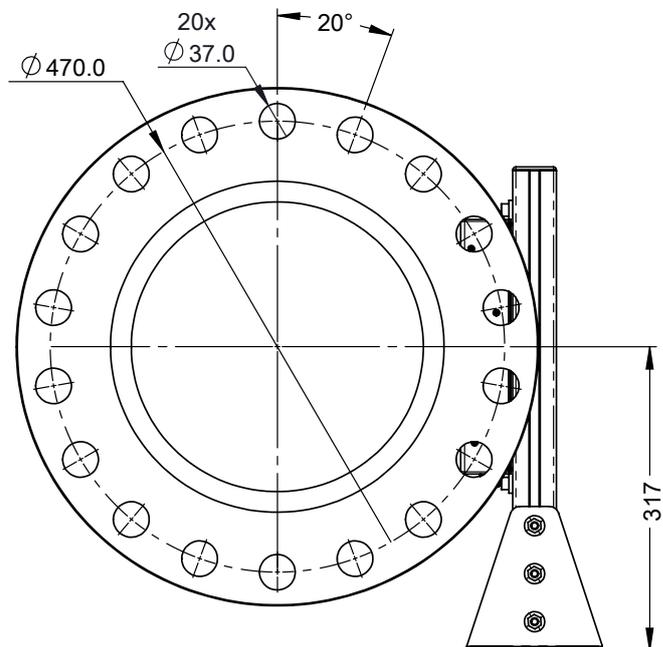
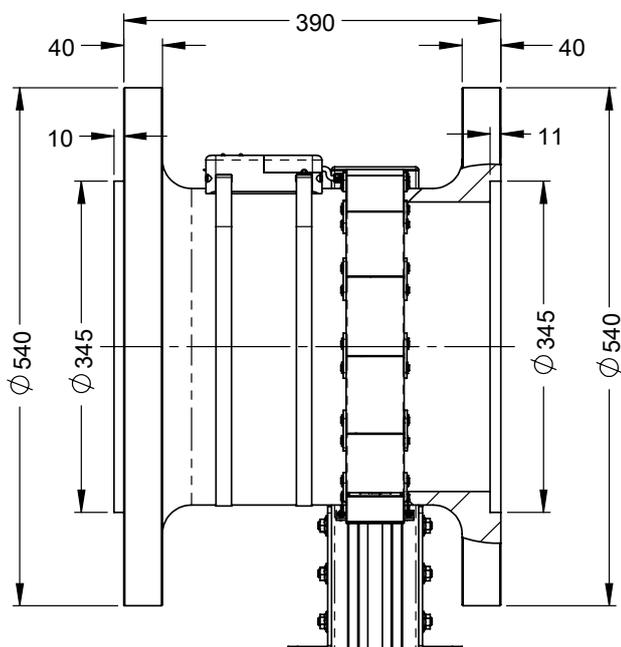
LTS - STD-1 (40-190kNm)

PART CODE	TORQUE RANGE
LTS-STD-1A	40-90kNm
LTS-STD-1B	100-140kNm
LTS-STD-1C	150-190kNm



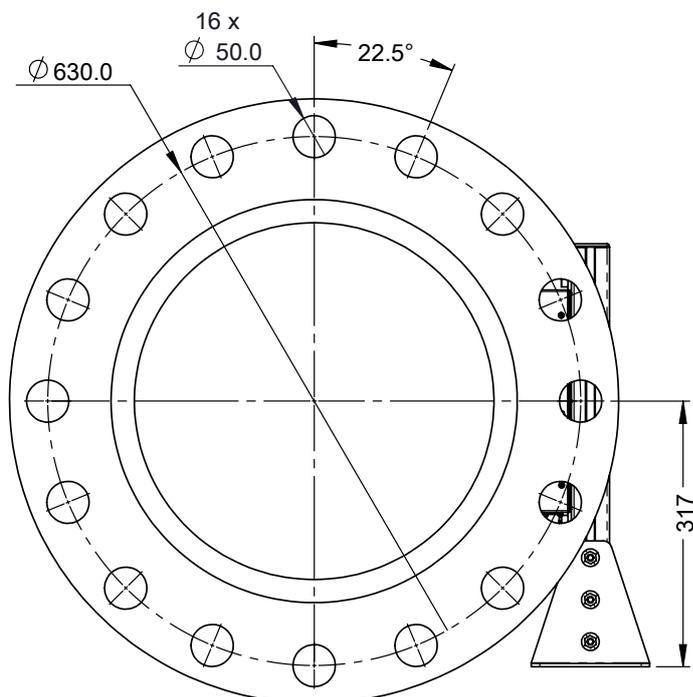
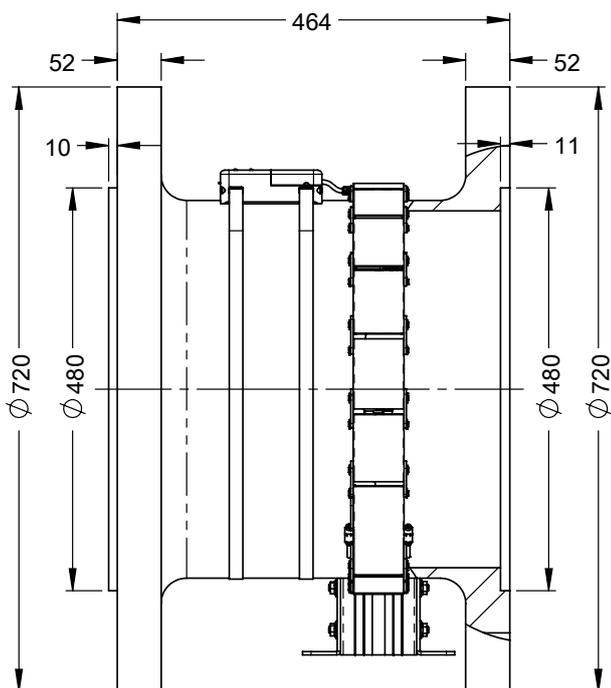
LTS - STD-2 (200 - 290kNm)

PART CODE	TORQUE RANGE
LTS-STD-2A	200-240kNm
LTS-STD-2B	250-290kNm



LTS - STD-3 & 4 (300-390kNm & 400-500kNm)

PART CODE	TORQUE RANGE
LTS-STD-3	300-390kNm
LTS-STD-4	400-490kNm



The logo for Datum Electronics features a stylized 'd' composed of three small squares in the top-left corner, followed by the word 'datum' in a large, lowercase, serif font, and the word 'electronics' in a smaller, lowercase, sans-serif font below it.

datum electronics

Precision. Data. Innovation.



Contact Us

datum-electronics.com

