

Interface

ADVANCED FORCE MEASUREMENT

LowProfile™ Load Cells

1000 Fatigue Rated

- 250 lbf – 1,000K lbf
- 1.25 kN – 4,500 kN
- Fully Reversed High Cyclic Loading



1100 Ultra Precision

- 300 lbf – 200K lbf
- 1.5 kN – 900 kN



1200 Standard Precision

- 300 lbf – 2,000K lbf
- 1.5 kN – 9,000 kN



1200 Flange Mount

- 50 kN – 4,500 kN
- 11K lbf – 1,000K lbf*



1500 Compact Low Capacity

- 25 lbf – 300 lbf
- 125 N – 1,500 N



1700 Flange Mount

- 220 lbf – 14K lbf
- 1 kN – 63 kN*
- Mounts Directly to Cylinders



2400 Stainless Steel

- 100 lbf – 300K lbf
- 0.45 kN – 1,350 kN*
- Environmentally Sealed
- Hermetic Seal Available



3200 Stainless Steel

- 2.5K lbf – 270K lbf
- 12 kN – 1,200 kN*
- Hermetically Sealed
- Eccentric Load Compensated



1600 Gold Standard® Calibration

- 500 lbf – 200K lbf
- 2.2 kN – 900 kN
- Guaranteed 4% Lower Load Limit




1800 Platinum Standard® Calibration, Integral Stud

- 1.1K lbf – 110K lbf
- 5 kN – 500 kN
- Guaranteed 2% Lower Load Limit




Internally Amplified Load Cells



TEDS - Transducer Electronic Data Sheet

- Meets IEEE 1451.4 Standard for Smart Transducer Interface
- Plug & Play Ready
- Cuts Instrument Setup Time



Miniature Load Cells

MB & MBP Mini Beam Overload Protected

MB	MBP
• 5 lbf – 250 lbf	• 2.5 lbf – 10 lbf
<i>22 N – 1,100 N</i>	• 5 N – 100 N



MBI Mini Beam Fatigue Rated & Overload Protected

- 2 lbf – 10 lbf
- 10 N – 50 N
- Safe Overload to 10x Capacity



SPI Platform Scale Load Cell

- Capacities 3 - 150 lbf



SSB Super Beam Environmentally Sealed

- 50 lbf – 10K lbf
- 225 N – 44.5 kN*




Capacities Listed in Blue Italics Denote a Conversion

SM S-Type Super Mini

- 10 lbf – 1K lbf
- 50 N – 5 kN



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SSM & SSM2 S-Type Environmentally Sealed

- 50 lbf – 10K lbf
- 200 N – 50 kN
- Available with Sealed and Fatigue Rated Options



ULC Ultra Low Capacity Overload Protected

- 0.5 N – 2 N
- 0.11 lbf – 0.45 lbf*



SMTM Micro S-Type Overload Protected

- 5, 25, & 50 lbf
- 20, 100, & 200 N*
- Microsized 3/4" x 3/4" x 1/4"
- 1000% Safe Overload (200% for 50 lbf)



SMT S-Type Overload Protected

- 1.1 lbf – 450 lbf
- 5 N – 2 kN
- 500% +1000% FS Safe Overload



SML Low Height

- 5 lbf – 2K lbf
- 22 N – 9.5 kN
- 5 lbf, 10 lbf, 5 N, & 45 N Models Feature 10x Overload Protection




WMC & WMCP Environmentally Sealed

WMC

- 5 lbf – 10K lbf
- 22 N – 45 kN

WMCP

- 500 gf – 1K gf
- 1.1 lbf – 2.2 lbf*
- Overload Protected



Load Buttons LBMU, LBM, LBS, & MSC Series

- 5 lbf – 50K lbf



Load Washers LW, LWPF1, & LWPF2 Series

- 5 lbf – 10K lbf
- 2 kN – 600 kN



BPL Pedal Load Cell

- 100 - 500 lbf



Other Load Cells

Column and Canister Load Cells 2000, 2160, 2200, & 2300 Series

- 50K lbf – 1M lbf
- 630 kN – 4450 kN



Rod End Load Cells REC & 2120 Series

- 1K lbf – 50K lbf
- 5 kN – 220 kN



A4200 / A4600 Weighcheck Assembly

- 2.5 lbf – 50K lbf
- Self-Centering in All Directions
- High Output – 4 mV/V



LP Load Pin

- Custom Designs
- Capacities up to 3,000K lbf
- Available with Amplification, Submersible, Wireless and ATEX options



ATEX Approved Load Cells

- 3410, 3420, 3430
- 3421, 3431, 3441
- 3450: T&C Column
- 3401: Compression Beam
- 3403: Tension Link
- 2 Wire Amplified
- Intrinsically Safe



CE **Ex**


3 & 6 Axis Load Cells

3 Axis

- Fx Fy Fz
- 10 N – 500K N
- 2.25 lbf – 112K lbf*

6 Axis

- Fx Fy Fz
- Mx My Mz
- 50 N – 50K N (Force) & 1 Nm – 5K Nm (Torque)
- 11 lbf – 11K lbf (Force) & 9 lb-in – 44K lb-in (Torque)*



Multi-Axis Sensors

1216, 1516, & 2816 Axial Torsion

- Fz, Mz
- 100 lbf – 15K lbf (Force) & 50 lb-in – 7.5K lb-in (Torque)
- 500 N – 63 kN (Force) & 50 Nm – 900 Nm (Torque)*



5200 XYZ Force & Moment

- High Thrust & Moment Stiffness
- Measure Thrust & Moment Perpendicular To Thrust Axis
- 1K lbf – 100K lbf (Force)
- 4.5 kN – 450 kN (Force)*
- Fz, Mx, My



5600 Axial Torsion Load Cell

- 6K lbf – 180K lbf (Force)
- 27 N – 800 kN (Force)*
- 5K lb-in – 300K lb-in (Torque)
- 560 Nm – 33K Nm (Torque)*
- Extraneous Load Resistance
- Fz, Mz



Accreditations



Cert #1991.01

Interface is A2LA accredited (#1991.01) to perform the most accurate universal recalibrations on all Interface and competitive force and torque transducers in 5 days or less.

Rotary Torque


T2 Ultra Precision & T4 Standard Precision

T2

- 0.1 Nm – 20K Nm
0.9 lb-in – 177K lb-in

T4

- 0.1 Nm – 1K Nm
0.9 lb-in – 9K lb-in



CE


T3 Ultra Precision & T5 Standard Precision

T3

- 0.1 Nm – 20K Nm
0.9 lb-in – 177K lb-in

T5

- 0.1 Nm – 1K Nm
0.9 lb-in – 9K lb-in



CE


T6 & T7 Dual Range

T6

- 0.5 Nm – 20K Nm
4 lb-in – 177K lb-in

T7

- 0.5 Nm – 20K Nm
4 lb-in – 177K lb-in
10:1 Ratio



CE

T8 & T23 General Purpose

- 0.2 Nm – 500 Nm
1.8 lb-in – 4.4K lb-in
- Great Value



CE Value

T25 High Speed Low Bearing Friction

- 0.1 Nm – 5K Nm
0.9 lb-in – 44K lb-in
30K RPM



CE USB

T12 Square Drive & T15 Hex Drive

T12

- 0.1 Nm – 5K Nm
0.9 lb-in – 44K lb-in

T15

- 0.2 Nm – 20 Nm
1.77 lb-in – 177 lb-in



CE USB

T22 Pulley


- 20 Nm – 5K Nm
177 lb-in – 44K lb-in
- High Radial Load



CE

Spindle Torque T31, T32, T33, & T34

- 1 Nm – 500 Nm
- Speeds Up to 2000 rpm
Integrated Speed / Angle Measurement



HRDT High Resolution Digital Telemetry

- 250 Nm – 10K Nm
2.2K lb-in – 88.5K lb-in
±5V, ±10V,
4-20mA,
Frequency,
Ethernet



CE USB

T27 Hollow Flange Bearingless

- 50 Nm – 5K Nm
245 lb-in – 44K lb-in



CE

T1 Torque Coupling

- 50 Nm – 1K Nm
Bearingless



T11 Bearingless

- 0.005 – 150 Nm
0.04 – 1.4K lb-in



Reaction Torque

TS11

- 10 Nm – 20K Nm
88.5 lb-in – 177K lb-in



TS12 Shaft Style

- 0.005 Nm – 20K Nm
0.04 lb-in – 177K lb-in



TS14, TS15, & TS17

TS14

- 2 Nm – 5K Nm
17.7 lb-in – 44K lb-in

TS15

- 2 Nm – 2K Nm
17.7 lb-in 17.7K lbf-in

TS17

- 0.2 – 20 Nm
1.77 lb-in 177 lb-in



TSQ High Capacity Square Drive

- 300K – 3,000K lb-in
34K Nm – 340K Nm
- 2x Safe Overload
- Male Square on Each End



MRT Miniature Reaction Torque Series

MRT

- 0.2 Nm – 20 Nm
1.77 lb-in – 177 lb-in

MRTP

- 0.2 Nm
1.77 lb-in
7x Overload
Protection



MRT2 Miniature Reaction Torque Series

MRT2

- 5 Nm – 50 Nm
44 lb-in – 440 lb-in

MRT2P

- 0.2 Nm – 2 Nm
1.77 lb-in - 17.7 lb-in
3x Overload
Protection



5330 Hollow Flange

- 60 lb-in – 100K lb-in
6.8 Nm – 11.3K Nm



5400 Series Flange Style

- 56 Nm – 56K Nm
- 500 lb-in – 500K lb-in



TEDS Includes TEDS - Plug & Play Ready

CE Certified

Software Available

USB Option Available

Value Option

Capacities Listed in Blue Italics Denote a Conversion

Wireless Telemetry System (WTS)

CE, Software Available, USB Option Available

WTEX ATEX / IECEx Wireless Telemetry Sensor System

CE, Software Available, USB Option Available

BX8 Data Acquisition and Amplifier System

- 8-Channel

Software Available, Value Option

BSC4 Series Multi-Channel Bridge Amplifier or PC Interface Module

- 4-Channel

Software Available, USB Option Available

INF-USB2 / SI-USB PC Input Module

- Single & Dual Channel mV/V, VDC, or mA Input

CE, Software Available, USB Option Available

9330 High Speed Portable Display & Data Logger

- 3750 Hz Peak Capture

CE, Software Available, USB Option Available

9820 General Purpose Digital Indicator

CE, Value Option

9860 High Speed Digital Indicator

- Fast Analog Output

TEDS P&P Ready, Software Available, USB Option Available

9320 Handheld Digital Indicator

TEDS P&P Ready, CE

480 Bidirectional Digital Weight Indicator

CE

9840 Intelligent Calibration Grade Digital Indicator

- Stores Multiple Calibrations

TEDS P&P Ready, CE, Software Available, USB Option Available

SGA AC/DC Powered Signal Conditioner with Selectable Outputs & Filtering

CE

DCA 10-28 VDC Powered Signal Conditioner

DMA2 and ISG DIN Rail Mount Signal Conditioners

CSC Environmentally Sealed and LCSC OEM Inline Signal Conditioners

- Analog or Digital Output

CE, Value Option

Gold Standard Calibration System Load Frame

- Capacities up to 1,000K lbf

Software Available, USB Option Available

Gold Standard® Portable Machine Load Cell and Calibration System

- Reduces Calibration Time 50-90%
- Automatic Calculation & Archiving
- Custom Report Writer

Software Available, USB Option Available

CX-BOX Precision mV/V Transfer Standard

Calibration and Repair Services

- NIST Traceability
- ANSI / NCSL Z540
- ISO 17025 Accredited
- MIL-STD-45662A
- A5TM E74 Calibration
- ISO 376

Includes TEDS - Plug & Play Ready

CE Certified

Software Available

USB Option Available

Value Option

Capacities Listed in Blue Italics Denote a Conversion