

ARTISAN®
TECHNOLOGY GROUP

Your **definitive** source for quality pre-owned equipment.

Artisan Technology Group
(217) 352-9330 | sales@artisantg.com | artisantg.com

Full-service, independent repair center
with experienced engineers and technicians on staff.

We buy your excess, underutilized, and idle equipment
along with credit for buybacks and trade-ins.

Custom engineering
so your equipment works exactly as you specify.

- Critical and expedited services
- In stock / Ready-to-ship
- Leasing / Rentals / Demos
- ITAR-certified secure asset solutions

Expert team | Trust guarantee | 100% satisfaction

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Find the *MTS 661.18* at our website: ***Click HERE***

661.18 Force Transducer

MTS 661.18 Force Transducers are compact, fatigue-rated devices designed for measuring through-zero tension and compression loads of 220 to 550 lb (1.0 to 2.5 kN) maximum capacity.

These force transducers feature low deflection and a high degree of stiffness to give you better dynamic performance. They also feature a high degree of component concentricity and parallelism to give you greater accuracy during your test setup. Accuracy is also enhanced by a shear-web design that features radially-oriented strain measurement beams. These beams compensate for off-axis loads and moments.

These units are easily mounted on, or interchanged with, existing force transducers on actuators, crossheads, platens or other test fixtures. They are manufactured for long, accurate service life using aircraft-quality specially heat-treated aluminum. There are no welded joints to fatigue.

MTS uses proprietary wiring techniques to reduce electrical noise, then temperature compensates each unit to ensure stability.

FEATURES

Dynamic Performance
- Low deflection and high stiffness give you better dynamic performance

High Output
- Provides you with excellent resolution and reading accuracy.

Radially Oriented Beams
- Lets unit resist off-axis loads and moments for greater accuracy.

High Degree Of Component Concentricity And Parallelism
- This feature gives you greater accuracy during your test setup.



661.18
Force Transducer

SPECIFICATIONS

Temperature Effect On Zero
- 0.0015% of full scale/°F
- 0.0027% of full scale/°C

Temperature Effect On Sensitivity
- 0.0015% of reading/°F
- 0.0027% of reading/°C

Compensated Temperature Range
- +15°F (–9°C) to +115°F (+46°C)

Useable Temperature Range
- –65°F (–54°C) to +200°F (+93°C)

Bridge Resistance
- 350 Ω

Maximum Excitation Voltage
- 20 Vdc

Repeatability
- 0.03% of full scale

Output
- 1 mV per V

Deflection At Rated Force Capacity
- 0.003 inch (0.08 mm)

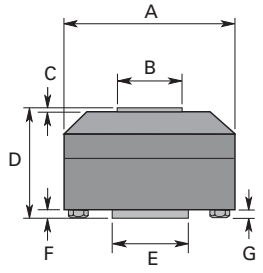
Weight (approximate)
- 2.6 lb (1.2 kg)

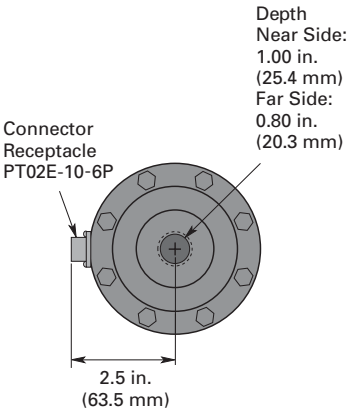
Number Of Bridges
- Single (Dual Optional)

Hysteresis
- 0.08% of full scale

Non-linearity
- 0.08% of full scale

Calibration
- Each force transducer ordered may be calibrated by MTS using our automated calibration system at our factory or on-site by MTS Field Service. In addition, the force transducer and associated conditioning electronics may be returned to MTS for repair and recalibration.





A	B	C	D	E	F	G
4.12 in. dia. (104.6 mm)	1.25 in. dia. (31.8 mm)	0.03 in. (0.8 mm) typ.	2.62 in. (66.5 mm)	1.27 in. (32.3 mm)	0.25 in. (6.4 mm) typ.	0.20 in. max. (5.1 mm)

Model	Force Capacity	Thread Size
661.18E-01	220 lb	1/2-20 UNF-3B
661.18E-02	550 lb	1/2-20 UNF-3B
661.18F-01	1.0 kN	M12 x 1.25 mm
661.18F-02	2.5 kN	M12 x 1.25 mm

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ISO 9001:2000 CERTIFIED QMS

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Artisan Technology Group is an independent supplier of quality pre-owned equipment

Gold-standard solutions

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We buy equipment

Planning to upgrade your current equipment? Have surplus equipment taking up shelf space? We'll give it a new home.

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Visit us at **artisantg.com** for more info on price quotes, drivers, technical specifications, manuals, and documentation.

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