

F/T Sensor: Nano43

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Model Description

One of the Smallest 6-axis Transducers in the World: The Nano43 is our thinnest transducer model available and allows linkages and cables to pass through its center hole.

Extremely-High Strength:

EDM wire-cut from high yield-strength stainless steel.
Maximum allowable single-axis overload values are 6.6 to 14.7 times rated capacities.

High Signal-to-Noise Ratio: Silicon strain gages provide a signal 75 times stronger than conventional foil gages. This signal is amplified, resulting in near-zero noise distortion.

Typical Applications

- Telerobotics
- Robotic surgery
- Robotic-hand research
- Finger-force research



Nano43 Transducer

Ranges and Resolutions

Specifications

Drawings

Manuals

Select a system type. (For more information on system types, please see our [F/T Product Description](#) page.)

☒ 16-Bit DAQ and Net F/T System

☐ Controller F/T System

Standard Calibrations (US)

| Calibration | Fx,Fy | Fz | Tx,Ty | Tz | Fx,Fy | Fz | Tx,Ty | Tz |
|-------------|----------------|-------|----------|----------|------------|------------|---------------|---------------|
| US-4-2 | 4 lbf | 4 lbf | 2 lbf-in | 2 lbf-in | 1/1160 lbf | 1/1160 lbf | 1/2320 lbf-in | 1/2320 lbf-in |
| US-8-4 | 8 lbf | 8 lbf | 4 lbf-in | 4 lbf-in | 1/580 lbf | 1/580 lbf | 1/1160 lbf-in | 1/1160 lbf-in |
| | SENSING RANGES | | | | RESOLUTION | | | |

Metric Calibrations (SI)

简体中文 | English | Español

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| Calibration | Fx,Fy | Fz | Tx,Ty | Tz | Fx,Fy | Fz | Tx,Ty | Tz |
|-------------|-------|------|----------|----------|---------|---------|-----------|-----------|
| SI-18-0.25 | 18 N | 18 N | 250 N-mm | 250 N-mm | 1/256 N | 1/256 N | 1/20 N-mm | 1/20 N-mm |
| SI-36-0.5 | 36 N | 36 N | 500 N-mm | 500 N-mm | 1/128 N | 1/128 N | 1/10 N-mm | 1/10 N-mm |