

Load Cells / Force Sensors



Low Profile -
Pancake Style



Through Hole -
Donut



Miniature



Low Profile -
Beam



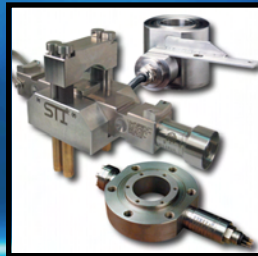
SubMiniature



Load Pins



Rod End



Custom Engineered
Configurations

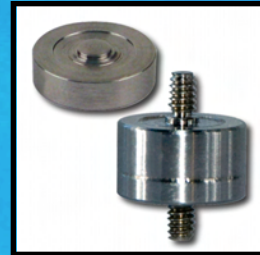
Load Cells / Force Sensors

Applications



Low Profile - Pancake Style

- ◆ Hoisting Systems
- ◆ Materials Testing
- ◆ Rocket Engine Thrust Testing
- ◆ Airframe Assembly Jack Stands
- ◆ Coiled Tubing Injector Heads
- ◆ Tank Weighing
- ◆ Construction Forms Loading
- ◆ Conveyor Systems
- ◆ Rocket/Missile Launch Systems
- ◆ Dynamometer Test Stands
- ◆ Metal Stamping Force R & R
- ◆ Automated Power Tongs
- ◆ Nuclear Fuel Rod Handling
- ◆ Automated Power Tongs



SubMiniature

- ◆ Robotic Surgery
- ◆ Orthopedics
- ◆ Capsule Presses
- ◆ Non-Invasive Fluid Control
- ◆ Prosthetics R & D



Miniature

- ◆ Factory Automation
- ◆ Industrial Robots
- ◆ Components Testing
- ◆ Bio-Mechanics R & D
- ◆ Valve Guide and Seat Insertion
- ◆ Physical Training and Endurance Equipment



Rod End

- ◆ Material Handling Systems
- ◆ Crane Loads
- ◆ Ship-To-Ship Transfer Systems
- ◆ Robotic Controls
- ◆ Industrial Automations
- ◆ Power Transmission Line Load Monitoring
- ◆ Hydraulic and Pneumatic Actuator Systems
- ◆ Pulp and Paper Handling
- ◆ Wireline and Slickline Force Monitoring
- ◆ Torque Tongs

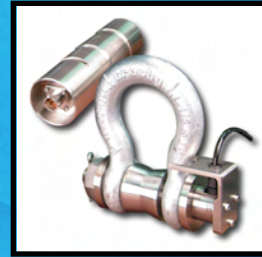
Load Cells / Force Sensors

Applications



Through Hole - Donut

- ◆ Fastener Testing
- ◆ Bolt Force
- ◆ Braking Force Monitoring
- ◆ Pump-Off-Control



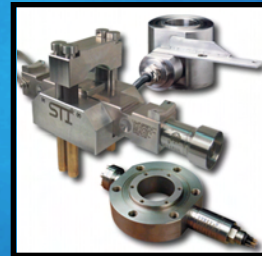
Load Pins

- ◆ Hook Loads on Hoisting Systems
- ◆ Offshore Platform Mooring Systems
- ◆ Ocean Thermal Energy Conversion
- ◆ Nuclear Fuel Rod Handling
- ◆ Weight-On-Bit Monitoring
- ◆ Marine Loading Systems



Low Profile - Beam

- ◆ Component Testing
- ◆ Structural Modeling
- ◆ Materials Testing
- ◆ Bio-Mechanics R & D
- ◆ Electronics Scales
- ◆ Laboratory Sampling



Custom Engineered Configurations

- ◆ On-Line Cable Tension Force
- ◆ Marine Towing Arrays
- ◆ AUV/ROV Force Controls
- ◆ Airborne Cargo Deployment Systems
- ◆ Wind Turbine Force Monitoring
- ◆ Pump-Off-Control Systems
- ◆ Suction Cup Force Measurement
- ◆ Multi-Axis Force Table

Load Cells / Force Sensors

Features



- ◆ Load Ranges from Grams to 2 Million lbf
- ◆ Tension, Compression, and Tension & Compression
- ◆ Fatigue Rated Designs
- ◆ Complete Selection of Standard and Special Configurations
- ◆ Accuracies to 0.03% FSO
- ◆ All Welded Stainless Steel Construction
- ◆ Special Non-magnetic Materials Available
- ◆ Operating Temperatures to 400°F
- ◆ Miniature and Subminiature Versions
- ◆ mV/V, Analog or Digital Outputs (including RS232, RS485, CANbus)
- ◆ Multiple Bridge Configurations
- ◆ Internal Data Logger Versions
- ◆ ATEX, CSA Intrinsically Safe and Explosion Proof Certifications
- ◆ Designs Submersible to 4000 Meters Seawater
- ◆ Available with Radiation Hardened Electronics
- ◆ Comprehensive Calibration Records are Standard
- ◆ Engineered-to-Order Custom Designs Welcomed

