




MSNST SHEAR BEAM LOAD CELLS




Measurement Specialists Inc, dba National Scale Technology, manufactures shear beam, or cantilever-style load cells optimized to weigh between 100 and 1,000,000 pounds for applications which include movement. On-site electrical engineers and technicians allow for customized bridge, excitation, output, and wiring configurations.

MSNST Drawing # **13XXXXX** 


Single-Ended Beams


Capacities	100 — 200,000 LBS
Temperature Ranges	0°F — 150°F
Nonlinearity Ranges	0.02% — 0.05%
Repeatability Ranges	0.02% — 0.05%

14XXXXX 

Double-Ended Beams


Capacities	1,000 — 1,000,000 LBS
Temperature Ranges	10°F — 400°F
Nonlinearity Ranges	0.05% — 0.50%
Repeatability Ranges	0.03% — 0.15%


 **Compression** Negative Stress | Material Contraction


 **Shear** Parallel Stress | Material Displacement

Specifications reflect beam-style load cells either currently in stock, or previously engineered and ready-to-assemble, as of August 2022. Accuracy data based on full-scale output readings upon completion of production, which is an average 6–8 weeks period for new load cells. Pricing available for off-the-shelf MSNST #13XXXXX and #14XXXXX units.

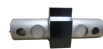
Beam load cells are horizontal, rectangular sills ideal for use in medical scales, packaging and shipping scales, and vehicle scales. Thanks to an inherent self-centering design, Measurement Specialists’ beam cells are great for providing uplift restraint. MSNST manufactures units interchangeable with most other force measurement brands – consistently reporting higher performance metrics in terms of accuracy and durability.

 **Element | Envelope Metal**
17-4PH Stainless Steel
4340 Carbon Steel
A36 Alloy Steel

 **Cabling Materials**
Heavy-Duty Polyurethane
Braided Steel
Teflon Hose

 **Mounting Hardware**
Rocker Pins
Steel Plates
Tension Adapters

MSNST has been a provider and distributor of weighing solutions across the world for 40 years now, and carries beam/cantilever style load cells customizable to fit any need.



Any facility utilizing weighing equipment should calibrate its scales at least annually for peak performance. This ensures longevity of the load cell(s), keeps your business in compliance with ISO/QMS standards, and saves you money from buying a new device.

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**MEASUREMENT
SPECIALISTS**
NATIONAL SCALE TECHNOLOGY

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