



# MEASUREMENT SPECIALISTS

NATIONAL SCALE TECHNOLOGY

*Your Problems, Our Solutions*



## Steel Industry Solutions

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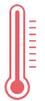
Designed & produced in  
Huntsville, Alabama USA



[www.msnst.com](http://www.msnst.com)



Crane Load Cells	Double-Ended Beam Load Cells	Rolling Mill Load Cells
		
<b>Features</b>		
Premiere calibration equipment for cranes Load pins to be used on equalizer sheaves Shackle pins for Crosby shackles	Hermetically-sealed versions available Integral cable or connector versions available Self-checking	Superior sealing & minimal flexing on welded surfaces Hydraulic hoses to protect cables High heat & weight capacities
<b>Steel Construction</b>		
Stainless	Stainless or Alloy	Stainless
<b>Capacity Range</b>		
35K LBF — 75K LBF 155 kN — 333 kN	5K LBF — 1M LBF 22 kN — 4448 kN	5K LBF — 10M LBF 22 kN — 44482 kN
<b>Excitation Voltage</b>		
10V — 15V	10V — 15V	11V — 28V
<b>Output Configurations</b>		
1mV , 2mV/V — 3mV/V , 0V — 10V , 4mA — 20mA		
<b>Temperature Range</b>		
10°F — 110°F -12°C — 43°C	10°F — 400°F -12°C — 204°C	10°F — 550°F -12°C — 287°C
<b>Accuracy &amp; Precision</b>		
Linearity: 0.10% Hysteresis: 0.03%	Linearity: 0.05% Repeatability: 0.03%	Linearity: 0.75% Repeatability: 0.10%
<b>Maximum Load</b>		
Safe: 150% Ultimate: 300%	Safe: 150% Ultimate: 300%	Safe: 150% Ultimate: 300%



**High temperature resistance**



**Welded construction to withstand harsh environments**



**Best accuracies available in the industry**



**If you need larger capacity than units shown, just ask!**



Please note that specifications or results may vary as we strive to improve our products. Additional information including dimensions and technical drawings available upon request.

Tilting Furnaces	Transfer & Scrap Cells	Custom Assemblies
		
<b>Features</b>		
Premiere calibration equipment for cranes Load pins to be used on equalizer sheaves Shackle pins for Crosby shackles	Car-to-scoreboard wireless option available Wireless communication system from car to pulpit Self-checking	Hermetically-sealed custom assemblies available Patented designs Optimized for thermal extremes
<b>Steel Construction</b>		
Stainless	Stainless	Stainless or Alloy
<b>Capacity Range</b>		
1K LBF — 800K LBF 4 kN — 3558 kN	30K LBF — 400K LBF 133 kN — 1779 kN	1K LBF — 10M LBF 4 kN — 44482 kN
<b>Excitation Voltage</b>		
10V — 15V	10V — 15V	10V — 15V
<b>Output Configurations</b>		
1mV , 2mV/V — 3mV/V , 0V — 10V , 4mA — 20mA		
<b>Temperature Range</b>		
10°F — 400°F -12°C — 204°C	10°F — 550°F -12°C — 287°C	-65°F — 550°F -53°C — 287°C
<b>Accuracy &amp; Precision</b>		
Linearity: 0.75% Repeatability: 0.10%	Linearity: 0.05% Repeatability: 0.03%	<i>Varies (Built-to-Order)</i>
<b>Maximum Load</b>		
Safe: 225% Ultimate: 500%	Safe: 150% Ultimate: 300%	<i>Varies (Built-to-Order)</i>

-  **High temperature resistance**
-  **Welded construction to withstand harsh environments**
-  **Best accuracies available in the industry**
-  **If you need larger capacity than units shown, just ask!**



Please note that specifications or results may vary as we strive to improve our products. Additional information including dimensions and technical drawings available upon request.





## Calibrations & Repairs

Need a load cell or other equipment fixed?  
**Measurement Specialists covers products from any manufacturer!**

With our premium repair and calibration services,  
save money from buying replacement units and  
instead have your existing cells refurbished to good-as-new!

MSNST provides:



Replacement of ALL internal electronic components & other parts as needed



1-year warranty



New cable(s)



Full-scale calibration, according to your needs

MSNST offers a complete calibration service for testing  
load cells, scales, and force sensors of almost any type –  
including calibrations in tension to 600K LBF,  
and compression to 1.6M LBF.

We also provide a certificate of compliance detailing  
the accuracy and precision of the sensor,  
tested with traceability to NIST.

**NIST**  
National Institute of  
Standards and Technology



*All repairs and calibrations completed within  
an average of 15–20 business days.*