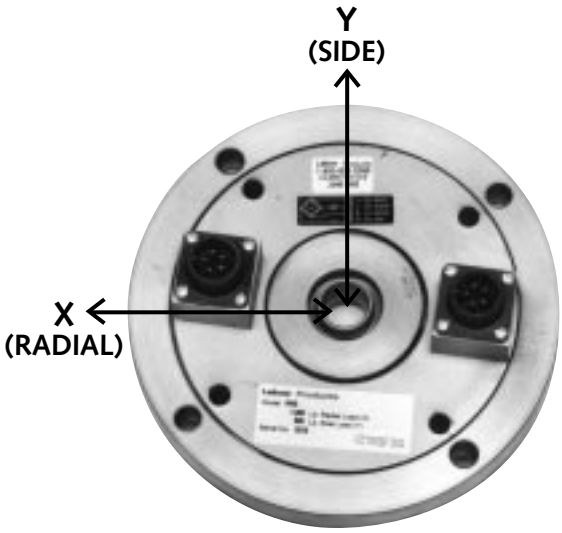
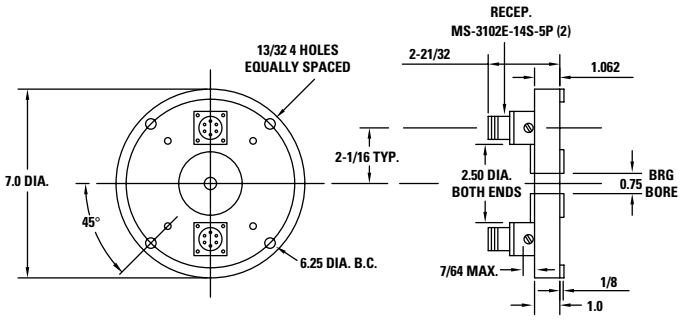
MODEL X-Y FORCE



Model 6443



STANDARD MODELS AVAILABLE*

MODEL NUMBER	CAPACITY (lbs.) X (RADIAL)	Y (SIDE)	OUTPUT MV/V ±0.25%
6443	1,000	500	2.00
6443-105	2,000	500	2.00
6443-106	1,500	500	2.00

***Consult factory for other capacities, sizes or tri-axis versions.**

FEATURES:

- Measures engine mount force components
- Measures radial two-component bearing force loads
- Measures tire radial and side loads

The Lebow® X-Y force sensor is constructed of two strain gage bridges, mounted at 90°, isolated by a flexure system. The complete two-component system, including flexures, is machined from one specially prepared metal billet to provide unusual structure strength and to minimize crosstalk between the two transducers. This unique sensor has excellent linearity characteristics and maximum structure life.

PERFORMANCE SPECS:

X-Y FORCE

SPECIFICATIONS

Output at rated capacity: *millivolts per volt*	See table
Nonlinearity: *of rated output*	±0.1%
Hysteresis: *of rated output*	±0.1%
Repeatability: *of rated output*	±0.05%
Zero balance: *of rated output*	±1.0%
Bridge resistance: *ohms nominal*	350
Temperature range, compensated: *°F*	+70 to +170
Temperature range, compensated: *°C*	+21 to +77
Temperature range, usable: *°F*	-65 to +200
Temperature range, usable: *°C*	-54 to +93
Temperature effect on output: *of reading per °F*	±0.002%
Temperature effect on output: *of reading per °C*	±0.0036%
Temperature effect on zero: *of rated output per °F*	±0.002%
Temperature effect on zero: *of rated output per °C*	±0.0036%
Overload rating, safe: *of rated capacity*	150%
Excitation voltage, maximum: *volts DC or AC rms*	20
Insulation resistance, bridge/case: *megohms at 50 VDC*	>5,000
Crosstalk: *of full scale*	≤1%

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