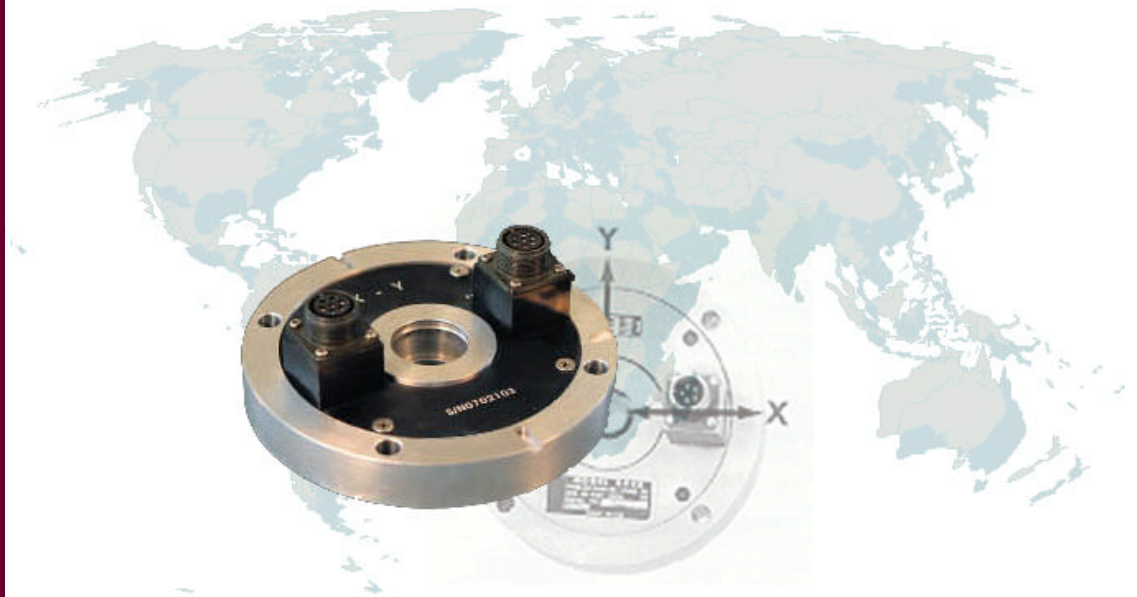
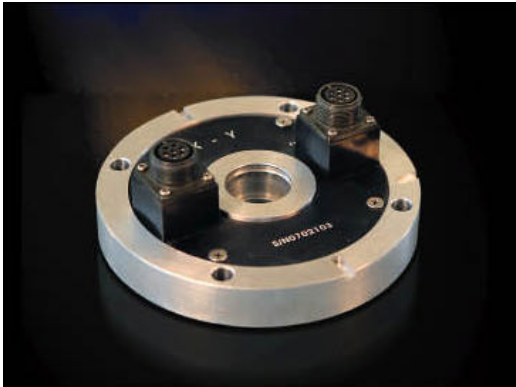
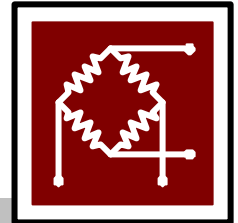


High-tech Force Transducer

X-Y Force Sensor



High-tech Force Transducer X-Y Force Sensor



POWER'S 2-COMPONENT FORCE SENSOR

Features

This is made of 2-component (Fx, Fy) loadcell. It has very high accuracy having low interference with respect to each component. This loadcell is used for balancing test during production and maintenance of many kinds of rotating systems.

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

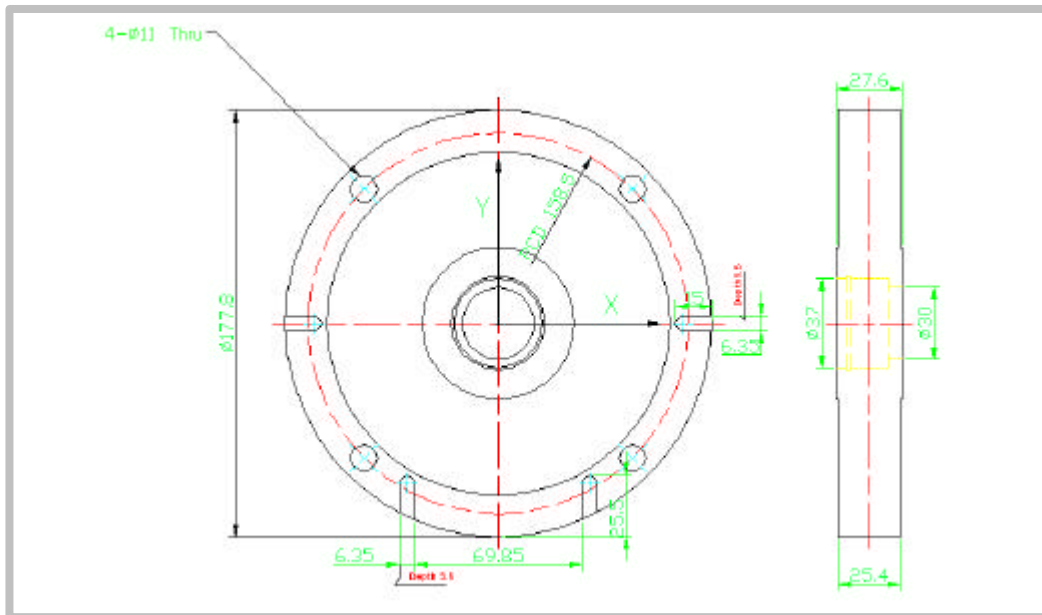
Application

This is biaxial load cell capable of monitoring 2-component force in one plane. It was designed specifically for a special machine used in the tire industry to trim the tires as they are being produced to provide for a tire that is inherently balanced and runs true on the road. They have also been used in other application where forces in two axes need to be monitored.

Specifications

Output at rated capacity : millivolts per volt	2mV/V, $\pm 0.2\%$
Nonlinearity : of rated output	0.1%
Hysteresis : of rated output	0.05%
Repeatability : of rated output	0.05%
Zero balance : of rated output	0.0%
Bridge resistance : ohms nominal	350
Temperature range , compensated	+70 to +170 F +21 to +77 C
Temperature range , useable	-65 to +200 F -54 to +93 C
Temperature effect on output : of reading	0.002% / F 0.0036% / C
Temperature effect on zero : of rated output	0.002% / F 0.0036% / C
Overload rating, safe : of rated capacity	150% R.O
Overload rating, ultimate : of rated capacity	200% R.O
Excitation voltage, maximum : volts DC or AC rms	20
Insulation resistance , bridge/case : megohms at 50 VDC	> 5000
Crosstalk : of full scale	< 1 %

Design Drawings (unit : mm)



Design Information

MODEL	Capacity (kN)		Output
	X	Y	mV/V \pm 0.25%
PWFT-2C-005	5	2.5	2.0
PWFT-2C-010	10	2.5	2.0
PWFT-2C-075	75	2.5	2.0

* Customization needed for other capacities

The POWER X-Y Force Sensor is constructed of two strain gage bridges, mounted at 90° isolated by a flexure system. The complete 2-component system, including flexures, is machined from one specially prepared metal billet to provide unusual structure strength and to minimize crosstalk between the two component signals. This unique sensor has excellent linearity characteristics and maximum structure life.

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