

Crash Barrier Load Cell

Model CT500-R

- Strain gauge-based transducer
- 1, 3 or 5-Axis versions
- Compatible with all DAQs
- Customizable size, load capacity, and number of axis



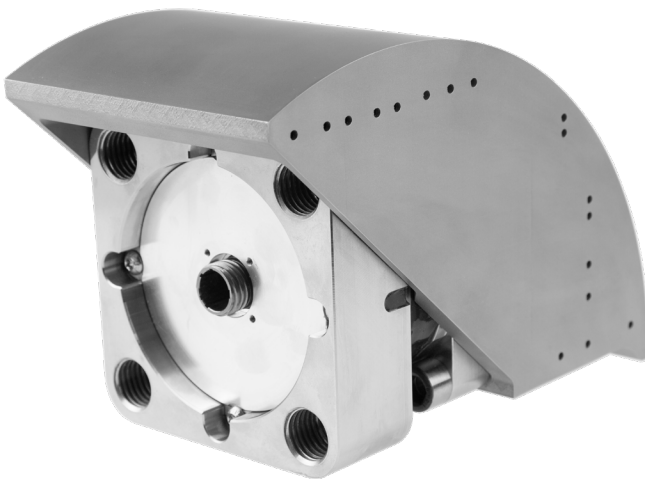
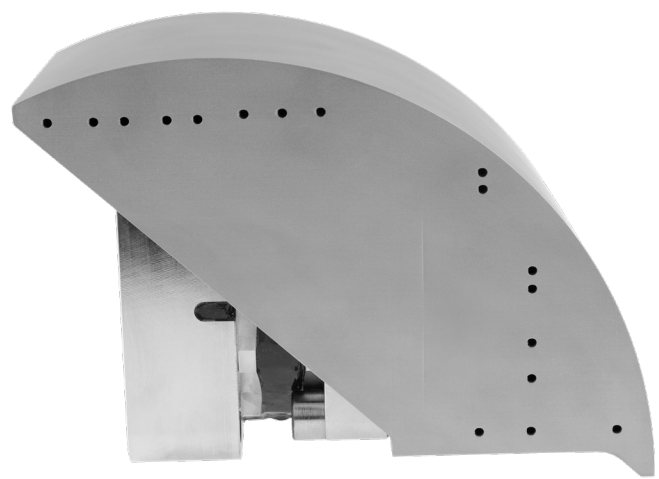
Description

The Michigan Scientific *CT500-R* is a strain gauge-based transducer designed for use on instrumented crash barriers. Made of high-grade stainless steel with a rugged design. The *CT500-R* is available as a single, 3 or 5 axis load cell. The *CT500-R* is designed to use a 150 mm radius plate, allowing it to be used as a corner load cell on a small overlap barrier. Other plates and attachments are available, including pole impact plates. Michigan Scientific's crash barrier load cells can be used with any manufacture's data recorder, allowing the user to specify their DAQ of choice.

Michigan Scientific can also provide complete, instrumented Crash Barrier Systems. These systems are fully assembled with the load cells pre-installed on a mounting plate with internal signal cable routing. The size of the barrier face can be expanded by using multiple systems or by requesting custom plate geometry. The Instrumented Crash Barrier System mounts easily to the barrier frame which allows the system to be quickly moved between testing setups. The system can be offered with or without a DAQ system.

Michigan Scientific can provide recalibration services with very short lead times. The Crash Barrier systems offer even easier recalibration options, as the assembled system can be sent to Michigan Scientific for calibration.

Radius Plate Installed



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Charlevoix, MI 49720
Tel: 231-547-5511
Fax: 231-547-7070
09-16-26
Rev. A

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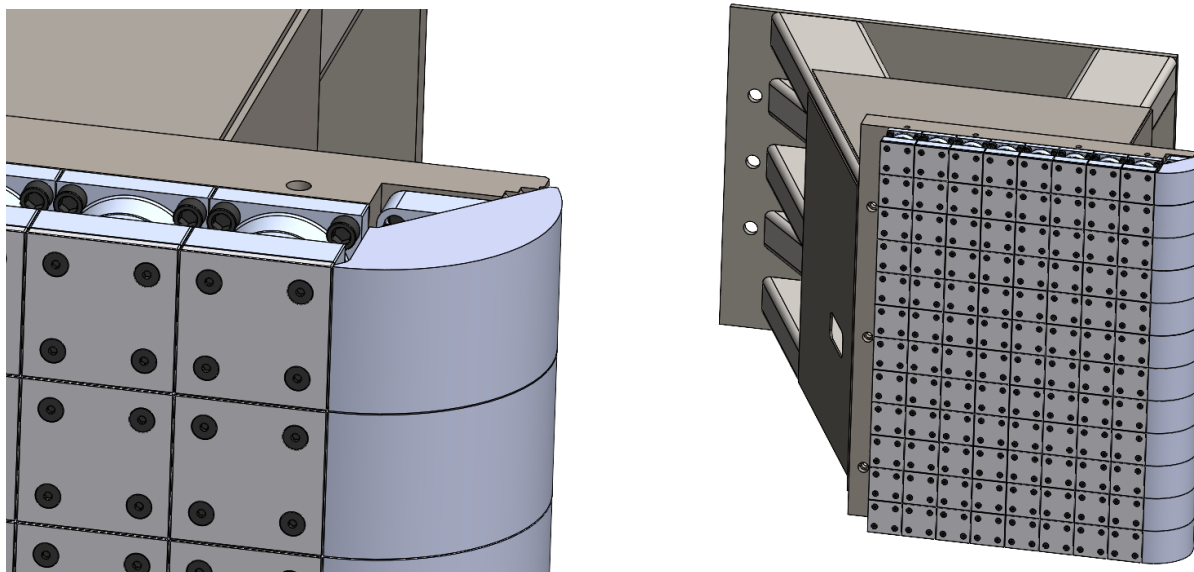
321 East Huron Street
Milford, MI 48381
Tel: 248-685-3939
Fax: 248-685-5406

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Specifications

	<i>CT500-R</i>
Maximum Force Capacity [Fx]	500 kN
Maximum Force Capacity [Fy, Fz] (Three-Axis Only)	125 kN
My and Mz available optionally	
Nonlinearity	< 0.75 % of full scale
Hysteresis	< 0.75 % of full scale
Natural Frequency (load cell only)	> 4900 Hz
Natural Frequency (load cell with 150 mm radius plate)	> 1650 Hz
IP Rating	IP66
Temperature Range	-40°F to 257°F (-40°C to 125°C)
Connector	Mil-Spec Circular Connector
Weight	3.8 kg, 9.5 kg with radius plate installed

Instrumented Crash Barrier System



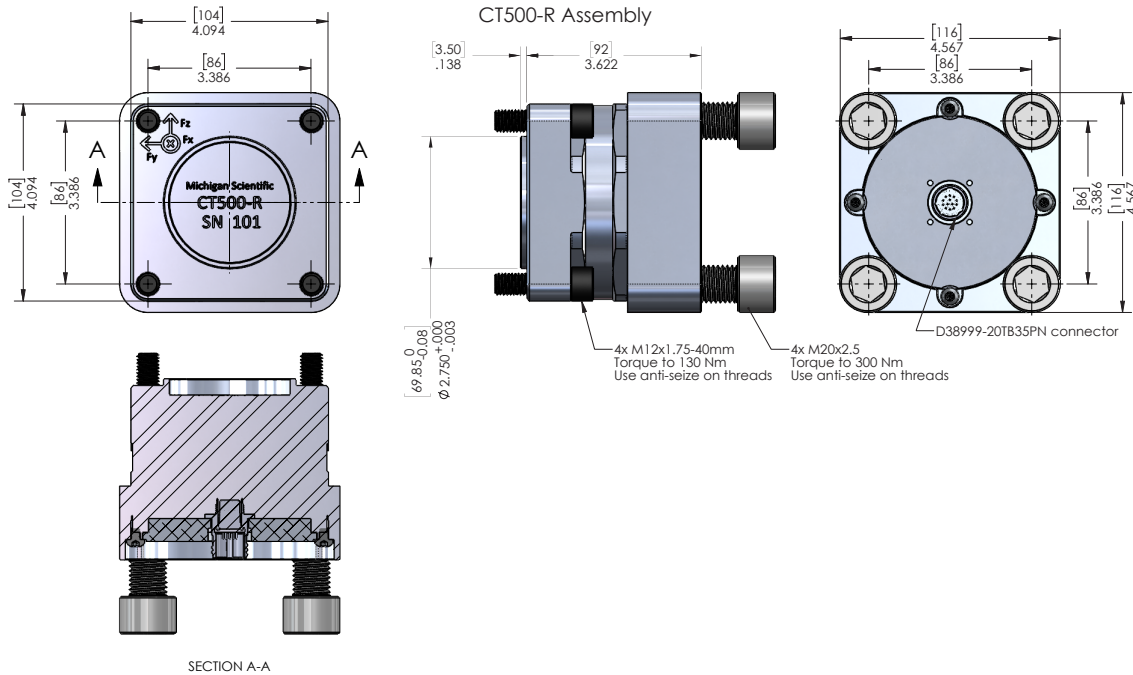
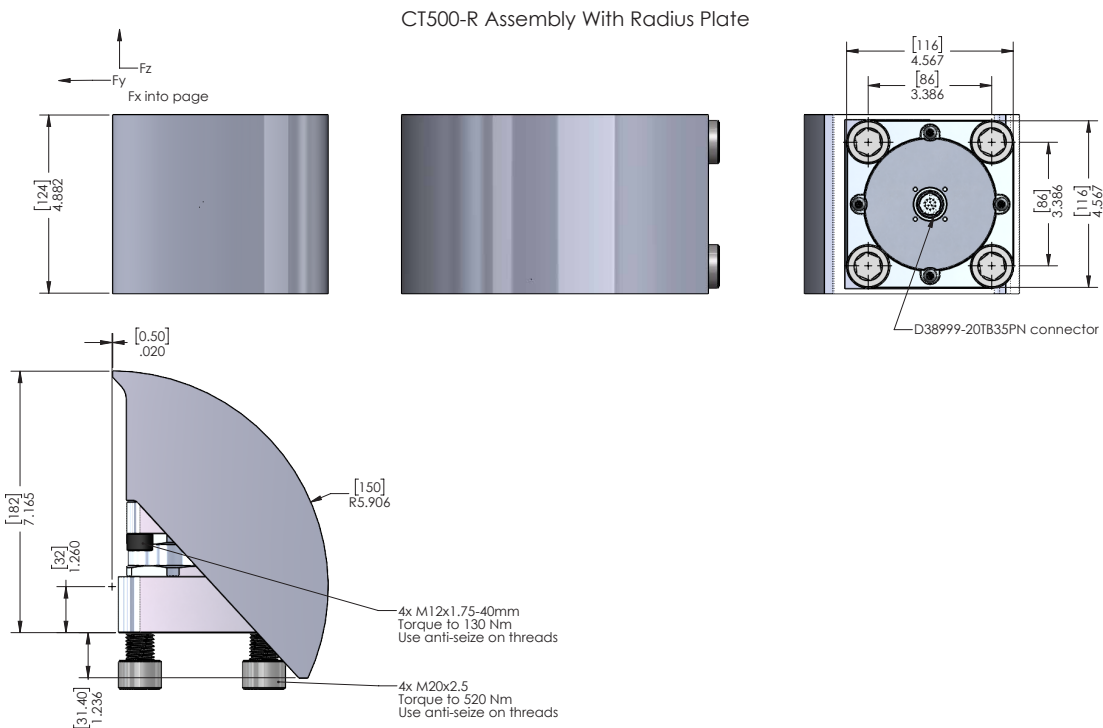
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CT500-R Drawings



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