

10 SERIES R50 TORQUE SENSORS



10.1 Unpacking and Assembly

Carefully remove the sensor from the box. For models MR50-10Z, MR50-20Z, and MR50-50Z, remove the protective tubing inserted around the chuck. Save it for future transportation needs. No assembly is required.

10.2 Overview

Designed for clockwise and counter-clockwise torque testing. The sensor may be handheld or mounted to a test stand, fixture, or other equipment.

Bits or fixtures may be placed in the chuck, although extra care should be taken when handling low capacity models.

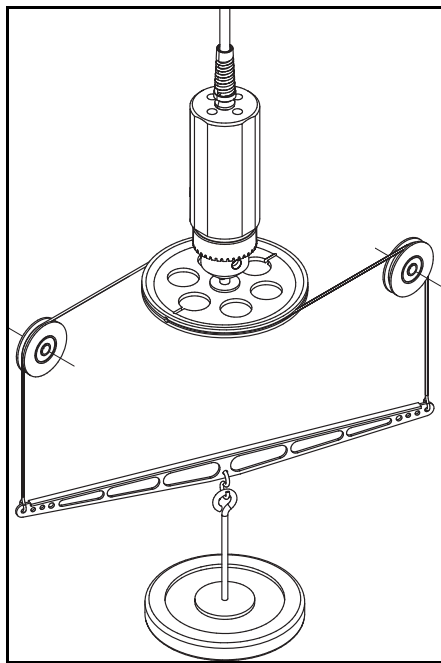
10.3 Specifications

Accuracy:	±0.35% of full scale
Safe overload:	MR50-10Z - MR50-50Z: 300% of full scale MR50-12 - MR50-100: 150% of full scale
Chuck opening range:	MR50-10Z - MR50-50Z: 0.062 - 0.375 in [1.6 - 9.5 mm] MR50-12 - MR50-100: 0.078 - 0.5 in [2.0 - 12.7 mm]
Operating temperature:	40°F – 100°F [5°C – 38°C]
Operating humidity:	96% max. (non-condensing)
Weight:	From 1.4 lb [0.6 kg]

10.4 Calibration

Calibration should be performed in a vertical orientation, especially for sensors with capacities of 50 ozFin [35 Ncm] or less. Horizontal orientation subjects the sensor to side loads resulting from the weight of the chuck and attachments. Such side loads can be significant enough to skew the readings out of tolerance.

The illustration below depicts a recommended vertical setup:



For further calibration instructions, refer to the indicator's user's guide.