

Series **STH**

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UNIVERSAL TORQUE SENSORS

## **Reference Guide**

## GENERAL

Carefully remove the sensor from its packaging and inspect for any damage.

Each chuck and bit holder is interchangeable and easily mounted onto the sensor. Align the torque pin on the sensor with the hole on the attachment and insert the guide pin into the sensor. Lightly tighten the knurled ring.

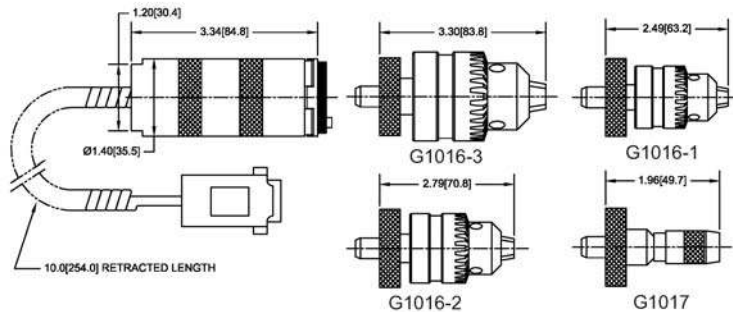
Series STH torque sensors work in conjunction with the BGI force/torque indicator for instantaneous, average, and peak torque measurements. Simply plug the 15-pin connector into the external sensor connector on the indicator.

Please note that all calibration data and menu selections programmed and saved during setup with the BGI are saved within the sensor. While this allows for interchangeability, each sensor must be programmed separately.

The sensor can be used as a hand tool or mounted in a fixture (not included).

In order to extend the life of your torque sensor, avoid repetitive shock and impact loads.

## DIMENSIONS AND SPECIFICATIONS in [mm]



Model	Capacity x Resolution	Safe Overload % of Capacity
STH10Z	10 x 0.01 ozin, 7 x 0.005 kgFmm, 7 x 0.005 Ncm	300
STH20Z	20 x 0.02 ozin, 14 x 0.01 kgFmm, 14 x 0.01 Ncm	
STH50Z	50 x 0.05 ozin, 36 x 0.05 kgFmm, 35 x 0.05 Ncm	
STH12	12 x 0.01 lbin, 140 x 0.01 kgFmm, 135 x 0.01	200
STH50	50 x 0.05 lbin, 580 x 0.5 kgFmm, 570 x 0.5 Ncm	
STH100	100 x 0.1 lbin, 1150 x 1 kgFmm, 1150 x 1 Ncm	

Grip	Sample Diameter Range
G1016-1	0.028 - 0.250 [0.7-6.4]
G1016-2	0.062 - 0.375 [1.6-9.5]
G1016-3	0.078 - 0.500 [2.0-12.7]
G1017	1/4" hex

Accuracy:  $\pm 0.2\%$  FS + BGI

Operating Conditions:

Temperature: 40°F - 110°F [5°C - 45°C]

Humidity: 96% max. (no condensation)