

DIGITAL REMOTE

BGI

- FORCE & TORQUE
- INTERCHANGEABLE SENSORS
- ONE DISPLAY - MANY SENSORS
- COMPUTER INTERFACES
- SELECTABLE UNITS

*BGI - Remote Display
and "S" Beam Sensor*



*Model SS
"S" Beam*



*Model SBC
Miniature Button*



*Model SSM
Inline*



*Model SJR
Miniature "S" Beam*



*Model STJ
Universal Torque*



*Model STH
Interchangeable
Torque*

The unique **BGI Digital Remote Force and Torque Gage** system features extreme versatility with many force and torque sensors available for quick attachment to the BGI display.

The various sensor configurations are offered with a wide range of capacities extending from 1/4 lbf to 10,000 lbf of force and 10 ozf-in to 100 lbf-in of torque.

The BGI system operates in the same manner as the BG Force Gage with its load cell sensor located within its housing, but with the BGI, the sensor is simply located remotely by a cable.

CONSTRUCTION

- BGI Display - Cast aluminum housing.
- Coiled or un-coiled cable connects gage to sensor.
- Sensors - Refer to individual specifications.

OPERATION

- Selected sensor attaches to BGI display for immediate use.
- Selectable force units: lbf, kgf, gf or N.
- Selectable torque units: lbf-in, ozf-in, kgf-mm, kgf-m, N-cm or N-m.
- Peak sampling rate: 65/sec.
- Display rate: 2.5/sec.
- Data outputs: RS232, Mitutoyo, Analog ± 1 VDC.

POWER REQUIREMENTS

- Rechargeable NiMH 9V battery for 10 hours of use with 8 hour charge.
- "Lo Bat" warning then gage turns off.
- Selectable auto shut-off, after 30 minutes of inactivity, conserves battery.

ACCESSORIES

- Various output cables are available.
- Hi / Lo limits indicator to set limit conditions for a test.
- Set point cable for use with motorized test stands.

ACCURACY

- Total System: BGI Display ($\pm 0.1\%$) + Sensor ($\pm 0.XX\%$). See individual sensors.

WEIGHT & DIMENSIONS:

- Weight: 0.9 lb.
- Dimensions: 6" H x 2 1/2" W x 1 1/2" D.

Prices and specifications are subject to change without notice.

CALL US TOLL FREE 800-345-4188

www.wagnerinstruments.com



SS – TENSION / COMPRESSION

SS – "S" Beam


SPECIFICATIONS

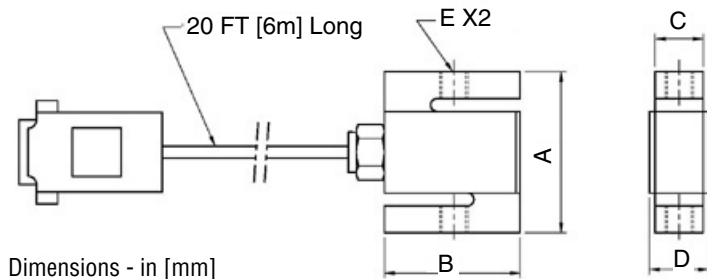
 Accuracy: $\pm 0.15\%$ of full scale + BGI ($\pm 0.1\%$).

Safe Overload: 150% of full scale.

Weight: 1.9 - 3.0 lb (0.4 - 1.4 kg).

MODEL	CAPACITY/GRADUATION				PRICE
BGI	Digital Force Display – 110 / 220 VAC				\$865*
SS50	50 lbf x 0.02 lbf	25 kgf x 0.01 kgf	250 N x	0.1 N	595
SS100	100 lbf x 0.05 lbf	50 kgf x 0.02 kgf	500 N x	0.2 N	595
SS200	200 lbf x 0.1 lbf	100 kgf x 0.05 kgf	1000 N x	0.5 N	595
SS500	500 lbf x 0.2 lbf	250 kgf x 0.1 kgf	2500 N x	1 N	595
SS1000	1000 lbf x 0.5 lbf	500 kgf x 0.2 kgf	5000 N x	2 N	595
SS2000	2000 lbf x 1 lbf	1000 kgf x 0.5 kgf	10000 N x	5 N	595
SS5000	5000 lbf x 2 lbf	2500 kgf x 1 kgf	25 kN x	0.01 kN	845
SS10000	10000 lbf x 5 lbf	5000 kgf x 2 kgf	50 kN x	0.02 kN	845

*For total system add BGI price to sensor price.



Dimensions - in [mm]

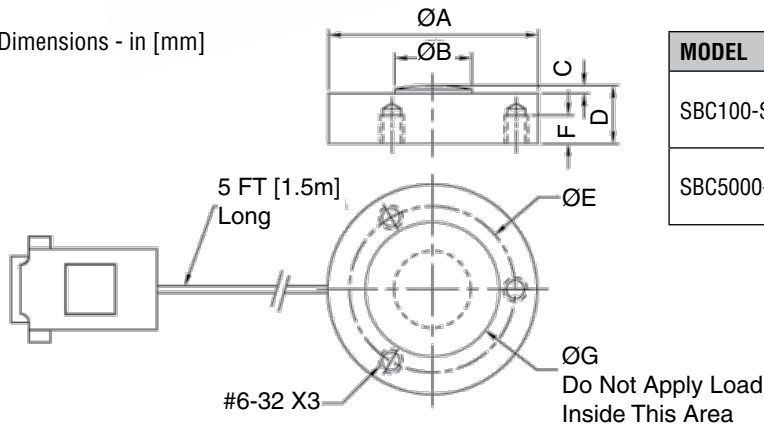
MODEL	A	B	C	D	E
SS50	2.40 [61.0]	2.00 [50.8]	0.46 [11.7]	0.65 [16.5]	1/4-28 UNF
SS100			0.71 [18.0]	0.90 [22.9]	1/2-20 UNF
SS200					
SS500	3.90 [99.1]	3.00 [76.2]	0.96 [24.4]	1.15 [29.2]	3/4-16 UNF
SS1000					
SS2000					

SBC – COMPRESSION

SBC – Miniature Button



Dimensions - in [mm]



MODEL	CAPACITY/GRADUATION				PRICE
BGI	Digital Force Display – 110 / 220 VAC				\$865*
SBC100	100 lbf x 0.05 lbf	50 kgf x 0.02 kgf	500 N x	0.2 N	745
SBC200	200 lbf x 0.1 lbf	100 kgf x 0.05 kgf	1000 N x	0.5 N	745
SBC500	500 lbf x 0.2 lbf	250 kgf x 0.1 kgf	2500 N x	1 N	745
SBC1000	1000 lbf x 0.5 lbf	500 kgf x 0.2 kgf	5000 N x	2 N	745
SBC2000	2000 lbf x 1 lbf	1000 kgf x 0.5 kgf	10000 N x	5 N	745
SBC5000	5000 lbf x 2 lbf	2500 kgf x 1 kgf	25 kN x	0.01 kN	745
SBC10000	10000 lbf x 5 lbf	5000 kgf x 2 kgf	50 kN x	0.02 kN	745

*For total system add BGI price to sensor price.

MODEL	ØA	ØB	C	D	ØE	F	ØG
SBC100-SBC2000	1.23 [31.3]	0.32 [8.1]	0.05 [1.3]	0.39 [9.9]	1.0 [25.4]	THRU	0.83 [21.1]
SBC5000-SBC10000	1.48 [37.6]	0.43 [10.9]	0.07 [1.8]	0.62 [15.8]	1.25 [31.8]	0.25 [6.4]	1.08 [27.4]

SPECIFICATIONS

 Accuracy: $\pm 0.5\%$ of full scale + BGI ($\pm 0.15\%$).

Safe Overload: 150% of full scale.

Weight: From 0.4 lb (0.2 kg).

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SJR – COMPRESSION



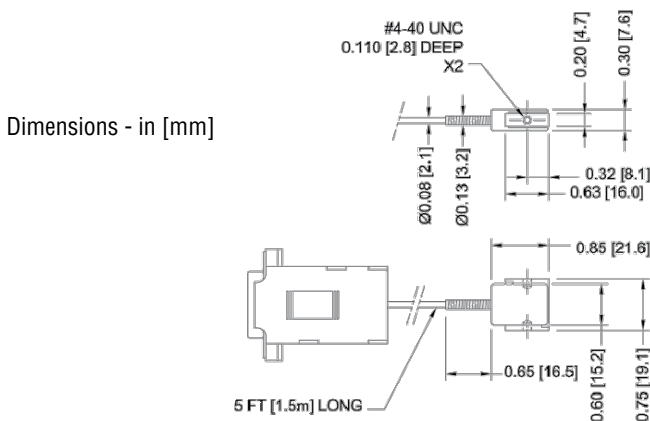
SJR – Miniature "S" Beam

SPECIFICATIONS

Accuracy: ± 0.2% of full scale + BGI (± 0.1%).
Weight: 0.015 lb.
Dimensions: 0.30" H x 0.85" W x 0.75" D.

MODEL	CAPACITY/GRADUATION					PRICE
BGI	Digital Force Display – 110 / 220 VAC					\$865*
SJR025	0.25 lbf x 0.0001 lbf	100 gf x	0.05 gf	1 N x 0.0005 N		995
SJR05	0.5 lbf x 0.0002 lbf	250 gf x	0.1 gf	2.5 N x 0.001 N		995
SJR2	2 lbf x 0.001 lbf	1 kgf x	0.0005 kgf	10 N x 0.005 N		995
SJR5	5 lbf x 0.002 lbf	2.5 kgf x	0.001 kgf	25 N x 0.01 N		995
SJR10	10 lbf x .005 lbf	5 kgf x	0.002 kgf	50 N x 0.02 N		995
SJR20	20 lbf x 0.01 lbf	10 kgf x	0.005 kgf	100 N x 0.05 N		995
SJR50	50 lbf x 0.02 lbf	25 kgf x	0.01 kgf	250 N x 0.1 N		995
SJR100	100 lbf x 0.05 lbf	50 kgf x	0.02 kgf	500 N x 0.2 N		995

*For total system add BGI price to sensor price.



SSM – TENSION/COMPRESSION



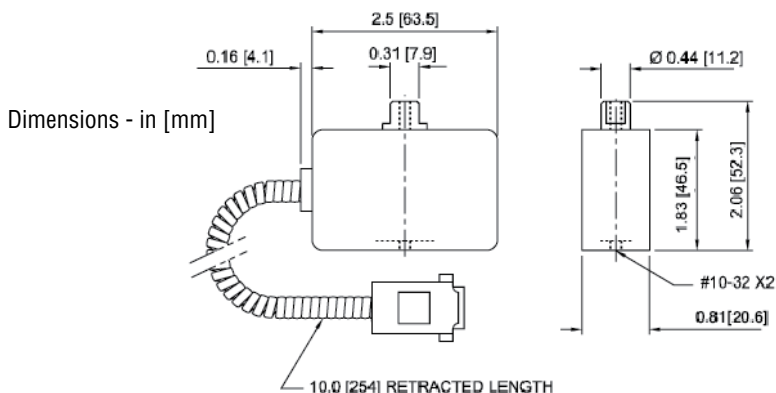
SSM – Inline

SPECIFICATIONS

Accuracy: ± 0.15% of full scale + BGI (± 0.1%).
Weight: 0.4 lb.
Dimensions: 0.396" H x 2.5" W x 2" D.

MODEL	CAPACITY/GRADUATION					PRICE
BGI	Digital Force Display – 110 / 220 VAC					\$865*
SSM025	0.25 lbf x 0.0001 lbf	100 gf x	0.05 gf	1 N x 0.0005 N		775
SSM05	0.5 lbf x 0.0002 lbf	250 gf x	0.1 gf	2.5 N x 0.001 N		775
SSM2	2 lbf x 0.001 lbf	1 kgf x	0.0005 kgf	10 N x 0.005 N		650
SSM5	5 lbf x 0.002 lbf	2.5 kgf x	0.001 kgf	25 N x 0.01 N		650
SSM10	10 lbf x .005 lbf	5 kgf x	0.002 kgf	50 N x 0.02 N		650
SSM20	20 lbf x 0.01 lbf	10 kgf x	0.005 kgf	100 N x 0.05 N		650
SSM50	50 lbf x 0.02 lbf	25 kgf x	0.01 kgf	250 N x 0.1 N		650
SSM100	100 lbf x 0.05 lbf	50 kgf x	0.02 kgf	500 N x 0.2 N		650

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STJ – TORQUE



STJ – Universal Torque

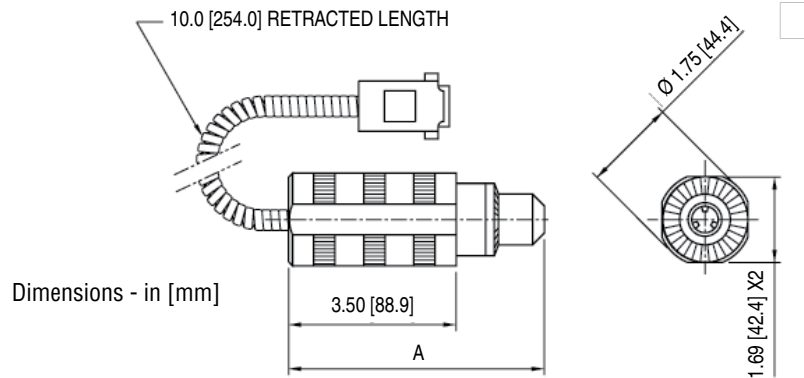
SPECIFICATIONS

Accuracy: $\pm 0.35\%$ of full scale + BGI ($\pm 0.1\%$).
 Safe Overload: STJ10Z - STJ50Z: 300% of full scale
 STJ12 - STJ50: 150% of full scale
 Weight: 1.4 lb. [0.6 kg]

MODEL	A
STJ10Z - STJ50Z	4.82 [122.4]
STJ12 - STJ100	5.19 [131.8]

MODEL	CAPACITY/GRADUATION			PRICE
BGI	Digital Force Display – 110 / 220 VAC			\$865*
STJ10Z	10 x 0.01 ozf-in	7 x 0.005 kgf-mm	7 x 0.005 N-cm	845
STJ20Z	20 x 0.02 ozf-in	14 x 0.01 kgf-mm	14 x 0.01 N-cm	845
STJ50Z	50 x 0.05 ozf-in	36 x 0.05 kgf-mm	35 x 0.05 N-cm	845
STJ12	12 x 0.01 lbf-in	140 x 0.1 kgf-mm	135 x 0.1 N-cm	795
STJ50	50 x 0.05 lbf-in	580 x 0.5 kgf-mm	570 x 0.5 N-cm	795
STJ100	100 x 0.1 lbf-in	1150 x 1 kgf-mm	1150 x 1 N-cm	795

*For total system add BGI price to sensor price.



STH – TORQUE

STH – Universal Interchangeable Torque

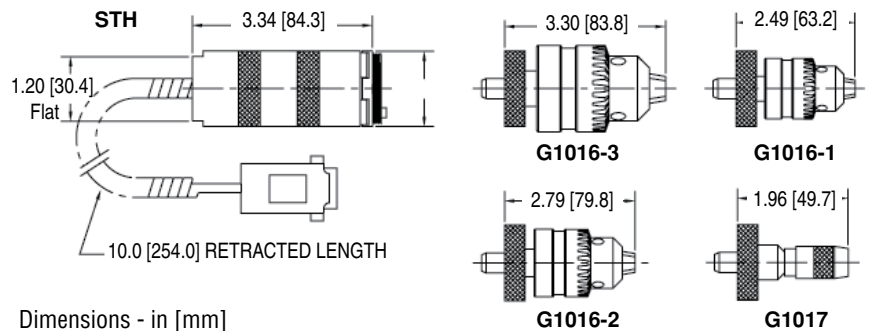


SPECIFICATIONS

Accuracy: $\pm 0.2\%$ of full scale + BGI ($\pm 0.1\%$).
 Safe Overload:
 STH10Z - STH50Z: 300% of full scale
 STH12 - STH50: 150% of full scale
 STH100 - 150% of full scale
 Weight: 1.4 lb.
 Chuck and bit capacities:
 G1016 - 1: 0.028 - 0.25 in [0.7 - 6.3 mm]
 G1016 - 2: 0.062 - 0.375 in [1.6 - 9.5 mm]
 G1016 - 3: 0.078 - 0.5 in [2.0 - 12.7 mm]
 G1017 - 0.25 in [6.3 mm] hex

MODEL	CAPACITY/GRADUATION			PRICE
BGI	Digital Force Display – 110 / 220 VAC			\$865*
STH10Z	10 x 0.01 ozf-in	7 x 0.005 kgf-mm	7 x 0.005 N-cm	795
STH20Z	20 x 0.02 ozf-in	14 x 0.01 kgf-mm	14 x 0.01 N-cm	795
STH50Z	50 x 0.05 ozf-in	36 x 0.05 kgf-mm	35 x 0.05 N-cm	795
STH12	12 x 0.01 lbf-in	140 x 0.1 kgf-mm	135 x 0.1 N-cm	745
STH50	50 x 0.05 lbf-in	580 x 0.5 kgf-mm	570 x 0.5 N-cm	745
STH100	100 x 0.1 lbf-in	1150 x 1 kgf-mm	1150 x 1 N-cm	745
G1016-1	Jacobs chuck for STH,	0.028" - 0.25"		135
G1016-2	Jacobs chuck for STH,	0.062" - 0.375"		140
G1016-3	Jacobs chuck for STH,	0.078" - 0.5"		145
G1017	Bit holder for STH	1/4" hex		145

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