For more information on Precision Measuring Instruments, see page 2210.







Digital Height Gauges

- Includes display
- 2D Digital Height Gauges include SCS Certificate of calibration
- SPC Output except where noted

1D digital height gauges are used measure height and scribe lines for layout applications.

2D digital height gauges have a scriber that moves along the X axis so the operator

Includes Fine

can perform measurements in 2 dimensions. They measure height and inspect round parts and bores, with the probe moving in a circular path. They are also used to scribe lines in layout applications.

				Includes Fine			Item					
Range	Res.	Accuracy	ccuracy Data Output Type		Beam Style	Brand	No.					
1D Digital Height Gauges with Manual Travel												
0 in to 12 in/0 to 300 mm	0.0005 in/0.01 mm	±0.0015 in			Single-Pole	Westward	2YND4					
0 in to 12 in/0 to 300 mm	0.0005 in/0.01 mm	±0.012 in	Cable, Wireless with Transmitter	_	Single-Pole	Insize	463D71					
0 in to 12 in/0 to 300 mm	0.0005 in/0.01 mm, 0.0002 in/0.005 mm	±0.001 in	_	Yes	Double-Pole	Mitutoyo	33RK45					
0 in to 18 in/0 to 450 mm	0.0005 in/0.01 mm	±0.002 in	_	No	Single-Pole	Westward	2YND5					
0 in to 18 in/0 to 450 mm	0.0005 in/0.01 mm, 0.0002 in/0.005 mm	±0.002 in	_	Yes	Double-Pole	Mitutoyo	33RK46					
0 in to 24 in/0 to 600 mm	0.0005 in/0.01 mm	±0.002 in	Cable, Wireless with Transmitter	_	Single-Pole	Insize	463D72					
0 in to 24 in/0 to 600 mm	0.0005 in/0.01 mm, 0.0002 in/0.005 mm	±0.002 in	<u> </u>	Yes	Double-Pole	Mitutoyo	54GF34					
0 in to 40 in/0 to 1,000 mm	0.0005 in/0.01 mm	±0.0031 in	Cable	_	Single-Pole	Insize	463J19					
0 in to 40 in/0 to 1,000 mm	0.0005 in/0.01 mm, 0.0002 in/0.005 mm	±0.025 in	_	Yes	Double-Pole	Mitutoyo	33RK47					
1D Digital Height Gauges with Mot	orized Travel											
0 in to 14 in/0 to 350 mm	0.00005 in/0.001 mm, 0.0001 in/0.01 mm	±(2.8+L/300) micron	_	Yes	Single-Pole	Mahr	446F34					
0 in to 24 in/0 to 600 mm	0.00005 in/0.001 mm, 0.0001 in/0.01 mm	±(2.8+L/300) micron	_	Yes	Single-Pole	Mahr	446F35					
2D Digital Height Gauges with Man	nual Travel											
0 to 350 mm/170 to 520 mm	0.00001 in/0.0001 mm, 0.0001 in/0.001 mm, 0.001 in/0.01 mm	±(2+2 x L/1000) micron	Cable, Wireless	Yes	Single-Pole	Tesa Brown & Sharpe	54VL05					
0 to 600 mm/170 to 770 mm	0.00001 in/0.0001 mm, 0.0001 in/0.001 mm, 0.001 in/0.01 mm	±(2+2 x L/1000) micron	Cable, Wireless	Yes	Single-Pole	Tesa Brown & Sharpe	54VL06					
0 to 900 mm/175 to 1075 mm	0.00001 in/0.0001 mm, 0.0001 in/0.001 mm, 0.001 in/0.01 mm	±(2+2 x L/1000) micron	Cable, Wireless	Yes	Single-Pole	Tesa Brown & Sharpe	54VL07					
0 to 900 mm/175 to 1075 mm	0.00001 in/0.0001 mm, 0.0001 in/0.001 mm, 0.001 in/0.01 mm	±(2+2 x L/1000) micron	Cable, Wireless	No	Single-Pole	Tesa Brown & Sharpe	462H45					



4///S/ZE Starrett **Mitutoyo**

Bore Gauges

Dial Bore Gauges are mounted to the gauge handle. The user rocks the gauge in the bore or hole to find the minimum reading on the dial. **Digital bore gauges** have a integrated LCD or removable and exchangeable digital indicator that provides quick, easy reading of inside-diameter measurements of holes and openings.

Range	Accuracy	Dial Graduation	Requires Indicator	Contact Point Material	Brand	Item No.
Dial Bore Gauges	Accuracy	diaddation	muicator	I OIIIt Material	Diana	140.
Anvil Contact Style						
0.4 in to 0.7 in	±0.00075 in	0.0005 in	Yes	Steel	Insize	463F37
0.7 in to 1.5 in	±0.00075 in	0.0005 in		Carbide	Starrett	5UAR3
0.7 in to 1.5 in	±0.00075 in	0.0005 in	Yes	Steel	Insize	463F39
1.4 in to 2.4 in	+0.0009 in	0.0005 in	Yes	Ceramic	Insize	463F41
1.4 in to 2.5 in	±0.0003 in	0.0003 in	Yes	Carbide	Mitutoyo	6ANT9
2 in to 6 in	±0.00025 in	0.0005 in		Carbide	Starrett	5UAR2
2 in to 6 in	±0.00025 in	0.0005 in	Yes	Ceramic	Insize	463F42
6 in to 10 in	±0.0009 in	0.0005 in	Yes	Ceramic	Insize	463F38
6.5 in to 10 in	±0.0003 in	0.0003 in	Yes	Carbide	Mitutoyo	6ANU1
10 in to 16 in	±0.0000 in	0.0001 in	Yes	Ceramic	Insize	463F40
Ball Contact Style	±0.0003 III	0.0003 111	169	OCIAIIIIC	IIISIZE	403140
0 in to 0.05 in	±0.0001 in	0.0001 in	Yes	Carbide Tipped	Mitutoyo	785TH3
Split Ball Contact S		0.0001111	163	Oarbide Tipped	wiitutoyo	7001110
0.56 in to 1.565 in	±0.0002 in	0.0001 in	Yes		Starrett	26Y763
Three-Point Contac		0.0001111	163		Otarrott	201700
1.5 in to 3 in	±0.0002 in	0.0001 in	Yes	Steel	Starrett	26Y775
3 in to 5.1875 in	±0.0002 in	0.0001 in	Yes	Steel	Starrett	26Y776
5 in to 8 in	±0.0002 in	0.0001 in	Yes	Steel	Starrett	26Y777
Digital Bore Gauge		0.0001 111	169	31861	Starrett	201111
Anvil Contact Style						
0.24 in to 0.4 in	+/-0.00075 in		No	Steel	Insize	463D81
			No			463D82
0.4 in to 0.7 in 0.7 in to 1.5 in	+/-0.00075 in +/-0.00075 in		No	Steel Steel	Insize	463D84
					Insize	
1.4 in to 2.4 in	+/-0.0009 in		No	Steel	Insize	463D86
2 in to 6 in	+/-0.0009 in		No	Steel	Insize	463D87
6 in to 10 in	+/-0.0009 in		No	Steel	Insize	463D83
10 in to 16 in	+/-0.0009 in	_	No	Steel	Insize	463D85

Telescoping Gauge Sets

Inserted into openings and controlled by a knurled knob or small handle that expands the telescoping arm until the spring-loaded plungers make contact with the sides of the bore. Polishedsteel gauge is locked into place and removed. It is then measured with an outside micrometer to determine a

bore's hole diameter.

Mitutoyo Starrett Westward *←INSIZE*

Maximum



Dial Bore

No. of Pieces Overall Replaceable Handle Item
 Range
 Overall Length

 0.315 in to 2.126 in
 4 2%₄ in to 5 2%₂ in

 ½ in to 6 in
 2 ½ in

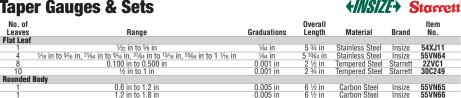
 ½ in to 5 5%₀ in
 2 ½ in

 ½ in to 5 %₀ in
 4 2%₄ in to 6 in

 ¾ in to 6 in
 4 2%₄ in to 6 in

 ¾ in to 6 in
 4 2%₄ in to 6 in
No. 5C718 Gauge Plunger Style Depth **Brand** Double-Arm Plunger Double-Arm Plunger Single-Arm Plunger Single-Arm Plunger Double-Arm Plunger Double-Arm Plunger Double-Arm Plunger Mitutoyo Starrett Starrett 2ZVC3 2ZVA9 1ARB2 2.375 in 2.625 in Yes Mitutoyo Starrett Mitutoyo 5UAV1 2.375 in 6 in Yes 4.528 in, 5.394 in (3) 4 % in, (3) 5 % in 5/16 in to 6 in Double-Arm Plunge Yes Insize 54XJ15 13/16 in to 5 in Westward 4KU95 6 Double-Arm Plunge Nο







◆INSIZE→