

BEST**T**OOL®



Measuring Tools Catalog

www.chinabestools.com

Catalog No.901A

Welcome to BESTOOL !

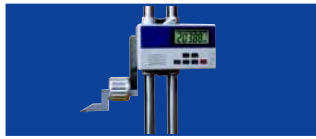
We will try to be best supplier from China in Measuring Tools, Cutting Tools, Machinery and Accessories evaluated by customers.

Why should you choose BESTOOL?

- | | |
|------------------|---|
| Quality: | Top quality, try to be error free |
| Delivery: | Speed up our delivery and ship in time |
| Cost: | Competitive prices with market |
| Service: | Quick response to any questions
and provide value added services |



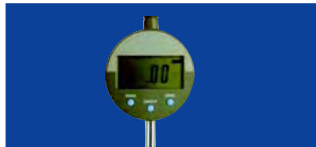
INDEX



- A1-A7 Vernier Caliper
 - A8-A9 Dial Caliper
 - A10-A14 Digital Caliper
 - A14-A18 Special Purpose Caliper
 - A19 Digital Scale Unit
 - A19-A20 Digital Readout and Accessory
 - A20-A23 Depth Gage
 - A23-A26 Height Gage
-



- A27-A29 Outside Micrometer
 - A29 Limit Micrometer, Indicator Micrometer
 - A29- A31 Digital Micrometer
 - A32 - A40 Special Purpose Micrometer
 - A41-A43 Micrometer Head
 - A43 Micrometer Stand
 - A44 Inside Micrometer
 - A45 Depth Micrometer
 - A46-A50 Three Point Micrometer
 - A50 Internal Micrometer
-



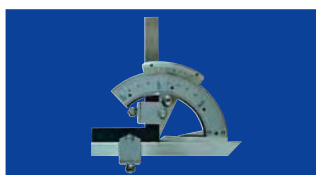
- A51 Dial Indicator
 - A52-A53 Digital Indicator
 - A53 Depth Gage
 - A54 Comparator Gage, Radial Gage
 - A54-A56 Test Indicator & Set
 - A56-A58 Indicator Accessory
 - A59-A60 Inside & Outside Dial Caliper
 - A61-A63 Thickness Gage
 - A64 Snap Gage
 - A65 Centering Indicator
 - A65 3D indicator & Z Axis Indicator
 - A66 Edge Finder
-



- A66-A70 Magnetic Base
 - A70 Magnetic Block, Universal Indicator Holder, Magnetizer
 - A71 Magnetic Lamp, Coolant Hose System, Goose Neck Magnifier
 - A71 Flexible Stem with Locking Plier Set
 - A72 Comparator Stand, Bench Block
-

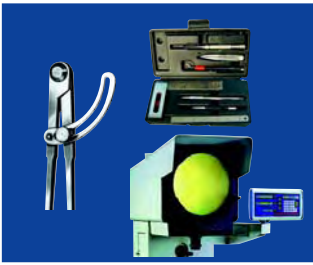


- A73-A77 Measuring Tool Set
-



- A78-A81 Steel Square
 - A81 Straight Edge, Centering Square
 - A81-A82 Protractor
 - A83 Digital Protractor, Bevel Box
 - A84 Plane & Square Type Digital Level, Cylindrical Square
 - A84 Angle Square, Combination Square
 - A85 Precision Level, Angle Finder, Center Finder
-

INDEX



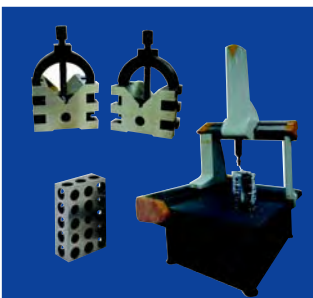
- A86 Inside & Outside Caliper
 - A87 Divider
 - A88-89 Scribers & Tool Set
 - A90 Bench Center
 - A90-A93 Hardness Tester
 - A94 Optical Projector, Dial Shore Durometer
-



- A95-A96 Pin Gage
 - A96-A98 Gage Block
 - A97 Space Block Set
 - A99 Gage Block Accessory, Pin Gage Handle
-



- A100-A101 Thread Plug and Ring Gage
 - A102 Feeler Gage, Taper Gage
 - A103 Thread Gage, Angle Gage
 - A103-A104 Screw Pitch Gage
 - A104 Welding Gage, Drill Gage
 - A104-A105 Radius Gage
 - A105 Wire Gage, Small Hole Gage
 - A106 Telescoping Gage, Bore Gage
-



- A107 1-2-3/2-4-6 Block, Sine Bar
 - A107-A108 Angle Block
 - A108-A110 Parallel
 - A111 V Block
 - A112 Granite Surface Plate & Stand
 - A113 Steel Surface Plate
 - A113 Granite V Block, Parallel
 - A114 CNC CMM, CNC Granite Component
-



- A115 Laser Level, Digital Level
 - A115-A116 Spirit Level
 - A116 Steel Rule
 - A116-A117 Steel Tape
 - A117 Fiberglass Tape, Digital Tape
 - A118 Digital Measuring Wheel
-



- A118-A121, A124 Microscope
 - A121 Refractometer
 - A122-A124 Magnifier
 - A124 Magni-Visor
 - A125-A126 Digital Multimeter
 - A126-A127 Digital Clamp Meter
 - A127-A130 Special Detector/Meter
 - A130-A131 Tyre Gage
 - A131 Digital Torque Wrench
-

Vernier Calipers

Basic Type

- 4 Way measurement.
- Under 125mm without step measurement.
- Made of carbon steel or stainless steel.



Range	Graduation	Carbon Steel Order No.	Stainless Steel Order No.
0-150mm/6"	.02mm/.001"	103-1501	403-1501
0-200mm/8"	.02mm/.001"	103-2001	403-2001
0-300mm/12"	.02mm/.001"	103-3001	403-3001
0-6"	.001"/1/128"	103-1503	403-1503
0-150mm/6"	.05mm/.001"	103-1509	403-1509
0-200mm/8"	.05mm/.001"	103-2009	403-2009
0-150mm/6"	.05mm/1/128"	103-1508	403-1508
0-200mm/8"	.05mm/1/128"	103-2008	403-2008
0-300mm/12"	.05mm/1/128"	103-3008	403-3008

Range	Grad.	Carbon Steel Order No.	Stainless Steel Order No.
0-100mm	.02mm	103-1002	403-1002
0-125mm	.02mm	103-1252	403-1252
0-150mm	.02mm	103-1502	403-1502
0-200mm	.02mm	103-2002	403-2002
0-300mm	.02mm	103-3002	403-3002
0-100mm	.05mm	103-1005	403-1005
0-125mm	.05mm	103-1255	403-1255
0-150mm	.05mm	103-1505	403-1505
0-200mm	.05mm	103-2005	403-2005
0-300mm	.05mm	103-3005	403-3005

Fine Adjustment Type

- 4 Way measurement.
- Upper 300mm/12" without depth measurement.
- Made of carbon steel or stainless steel.

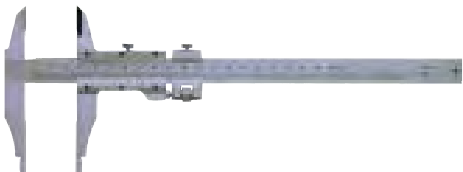


Range	Graduation	Carbon Steel Order No.	Stainless Steel Order No.
0-150mm/6"	.02mm/.001"	104-1501	404-1501
0-200mm/8"	.02mm/.001"	104-2001	404-2001
0-300mm/12"	.02mm/.001"	104-3001	404-3001
0-150mm/6"	.05mm/.001"	104-1503	404-1503
0-150mm/6"	.05mm/1/128"	104-1508	404-1508
0-200mm/8"	.05mm/1/128"	104-2008	404-2008
0-300mm/12"	.05mm/1/128"	104-3008	404-3008

Range	Grad.	Carbon Steel Order No.	Stainless Steel Order No.
150mm	.02mm	104-1502	404-1502
200mm	.02mm	104-2002	404-2002
300mm	.02mm	104-3002	404-3002
150mm	.05mm	104-1505	404-1505
200mm	.05mm	104-2005	404-2005
300mm	.05mm	104-3005	404-3005

Fine Adjustment & Upper Scriber Jaws

- With upper scriber jaws.
- With circular inside jaws.
- 2 way measurement.
- Made of carbon steel.



Range	Graduation	Jaw Length	Order No.
0-200mm/8"	.02mm/.001"	60mm	102-1202
0-200mm/8"	.02mm/.001"	90mm	102-1203
0-300mm/12"	.02mm/.001"	60mm	102-1302
0-300mm/12"	.02mm/.001"	90mm	102-1303
0-200mm/8"	.05mm/1/128"	60mm	102-1205
0-200mm/8"	.05mm/1/128"	90mm	102-1206
0-300mm/12"	.05mm/1/128"	60mm	102-1305
0-300mm/12"	.05mm/1/128"	90mm	102-1306

Range	Order No.
0-200mm .02mm 60mm	102-0202
0-200mm .02mm 90mm	102-0203
0-300mm .02mm 60mm	102-0302
0-300mm .02mm 90mm	102-0303
0-200mm .05mm 60mm	102-0205
0-200mm .05mm 90mm	102-0206
0-300mm .05mm 60mm	102-0305
0-300mm .05mm 90mm	102-0306

Auto Clamp Type

- 4 Way measurement.
- Made of carbon steel or stainless steel.



Range	Graduation	Carbon Steel Order No.	Stainless Steel Order No.
0-150mm/6"	.02mm/.001"	105-1501	405-1501
0-200mm/8"	.02mm/.001"	105-2001	405-2001
0-300mm/8"	.02mm/.001"	105-3001	405-3001
0-150mm/6"	.05mm/1/128"	105-1508	405-1508
0-200mm/8"	.05mm/1/128"	105-2008	405-2008
0-300mm/8"	.05mm/1/128"	105-3008	405-3008

Range	Grad.	Carbon Steel Order No.	Stainless Steel Order No.
0-150mm	.02mm	105-1502	405-1502
0-200mm	.02mm	105-2002	405-2002
0-300mm	.02mm	105-3002	405-3002
0-150mm	.05mm	105-1505	405-1505
0-200mm	.05mm	105-2005	405-2005
0-300mm	.05mm	105-3005	405-3005

Mono-Block Vernier Calipers

Mono-Block with Screw Lock, Rivet Half-Round Handle

- 4 way measurement.
- Made of stainless steel.



Range	Graduations	Order No.	Range	Graduations	Order No.
0-150mm/6"	.02mm/.001"	817-0801	0-150mm	.02mm	817-0802
0-200mm/8"	.02mm/.001"	817-0821	0-200mm	.02mm	817-0822
0-150mm/6"	.05mm/1/128"	817-0808	0-150mm	.05mm	817-0805
0-200mm/8"	.05mm/1/128"	817-0828	0-200mm	.05mm	817-0825

Mono-Block with Screw Lock, Square Mono Block Handle

- 4 way measurement.
- Made of stainless steel.



Range	Graduations	Order No.	Range	Graduations	Order No.
0-150mm/6"	.02mm/.001"	817-0901	0-150mm	.02mm	817-0902
0-200mm/8"	.02mm/.001"	817-0921	0-200mm	.02mm	817-0922
0-150mm/6"	.05mm/1/128"	817-0908	0-150mm	.05mm	817-0905
0-200mm/8"	.05mm/1/128"	817-0928	0-200mm	.05mm	817-0925

Mono-Block with Screw Lock, Half-Round Mono Block Handle

- 4 way measurement.
- Made of stainless steel.



Range	Graduations	Order No.	Range	Graduations	Order No.
0-150mm/6"	.02mm/.001"	817-4001	0-150mm	.02mm	817-4002
0-200mm/8"	.02mm/.001"	817-4021	0-200mm	.02mm	817-4022
0-150mm/6"	.05mm/1/128"	817-4008	0-150mm	.05mm	817-4005
0-200mm/8"	.05mm/1/128"	817-4028	0-200mm	.05mm	817-4025

Mono-Block, with Lower Screw Lock

- 4 way measurement.
- Made of stainless steel.



Range	Graduations	Order No.	Range	Graduations	Order No.
150mm/6"	0.02mm/1/1000"	817-5151	150mm	0.02mm	817-5152
150mm/6"	0.05mm/1/128"	817-5158	150mm	0.05mm	817-5155

Mono-Block, with Upper Screw Lock

- 2 way measurement.
- Made of carbon steel.



Range	Graduations	Order No.
0-200mm	.02mm	827-0202
0-200mm	.05mm	827-0205

Mono-Block, with Plane Looking

- 4 way measurement.
- Made of stainless steel.



Range	.02mm/.001"	.05mm/1/128"	Range	.02mm	.05mm
	Order No.	Order No.		Order No.	Order No.
0-150mm/6"	817-1501	817-1508	0-150mm	817-1502	817-1505
0-200mm/8"	817-2001	817-2008	0-200mm	817-2002	817-2005
0-300mm/12"	817-3001	817-3008	0-300mm	817-3002	817-3005

Mono-Block, with Roll-wheel

- 4 way measurement.
- Made of stainless steel.



Range	Graduations	Order No.	Range	Graduations	Order No.
150mm/6"	0.02mm/1/1000"	818-4151	150mm	0.02mm	818-4152
150mm/6"	0.05mm/1/128"	818-4158	150mm	0.05mm	818-4155

Mono-Block Vernier Calipers



Mono-Block with Auto Clamp, Small Size Handle

- 4 way measurement.
- Made of stainless steel.

Range	Graduations	Order No.
0-150mm/6"	.02mm/.001"	818-1151
0-200mm/8"	.02mm/.001"	818-1201
0-150mm/6"	.05mm/1/128"	818-1158
0-200mm/8"	.05mm/1/128"	818-1208

Range	Graduations	Order No.
0-150mm	.02mm	818-1152
0-200mm	.02mm	818-1202
0-150mm	.05mm	818-1155
0-200mm	.05mm	818-1205



Mono-Block with Auto Clamp, Large Size Handle

- 4 way measurement.
- Made of stainless steel.

Range	Graduations	Order No.
0-150mm/6"	.02mm/.001"	818-0151
0-200mm/8"	.02mm/.001"	818-0201
0-150mm/6"	.05mm/1/128"	818-0158
0-200mm/8"	.05mm/1/128"	818-0208

Range	Graduations	Order No.
0-150mm	.02mm	818-0152
0-200mm	.02mm	818-0202
0-150mm	.05mm	818-0155
0-200mm	.05mm	818-0205

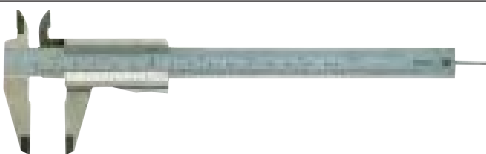


Mono-Block, Self-locking, Black Small Handle

- 4 way measurement.
- Made of stainless steel.

Range	Graduations	Order No.
150mm/6"	0.02mm/1/1000"	818-2151
150mm/6"	0.05mm/1/128"	818-2158

Range	Graduations	Order No.
150mm	0.02mm	818-2152
150mm	0.05mm	818-2155



Mono-Block, Self-locking with Small Lock Handle & Round Depth Bar

- 4 way measurement.
- Made of stainless steel.

Range	Graduations	Order No.
150mm/6"	0.02mm/1/1000"	818-3151
150mm/6"	0.05mm/1/128"	818-3158

Range	Graduations	Order No.
150mm	0.02mm	818-3152
150mm	0.05mm	818-3155



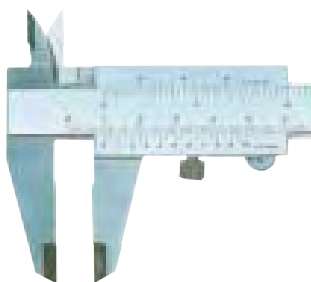
No Parallax Error

Mono-Block, No parallax Error

Range	Graduations	Order No.
0-150mm/6"	.02mm/.001"	815-1905
0-150mm/6"	.05mm/1/128"	815-1908

Range	Graduations	Order No.
0-150mm	.02mm	815-1901
0-150mm	.05mm	815-1902

Parallax Free Caliper



Basic Model

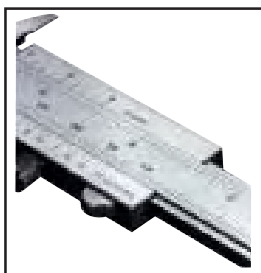
- 4 way measurement.
- Made of stainless steel.

Range	Graduations	Auto Clamp Order No.
0-150mm/6"	.02mm/.001"	815-1601
0-150mm/6"	.05mm/1/128"	815-1608

Range	Graduations	Auto Clamp Order No.
0-150mm	.02mm	815-1602
0-150mm	.05mm	815-1605

Range	Graduations	Screw Lock Order No.
0-150mm/6"	.02mm/.001"	815-1501
0-150mm/6"	.05mm/1/128"	815-1508

Range	Graduations	Screw Lock Order No.
0-150mm	.02mm	815-1502
0-150mm	.05mm	815-1505



Mono-Block Type

Range	Graduations	Screw Lock Order No.
0-150mm/6"	.02mm/.001"	815-1701
0-150mm/6"	.05mm/1/128"	815-1708

Range	Graduations	Screw Lock Order No.
0-150mm	.02mm	815-1702
0-150mm	.05mm	815-1705

Mono-Block & Double Prism Type

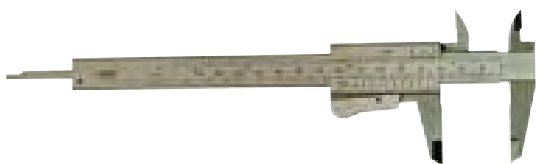
Range	Graduations	Screw Lock Order No.
0-150mm/6"	.02mm/.001"	815-1801
0-150mm/6"	.05mm/1/128"	815-1808

Range	Graduations	Screw Lock Order No.
0-150mm	.02mm	815-1802
0-150mm	.05mm	815-1805

Left Hand Vernier Calipers

Mono block vernier

- Mono block vernier
- Four way measurements
- Made of stainless steel
- With auto clamp, large size handle



Range	Graduations	Order No.	Range	Graduations	Order No.
0-150mm/6"	.02mm/.001"	817-0810	0-150mm	.02mm	817-0812
0-200mm/8"	.02mm/.001"	817-0811	0-200mm	.02mm	817-0813

Mono block vernier

- Mono block vernier
- Four way measurements
- Made of stainless steel
- With upper screw lock



Range	Graduations	Order No.	Range	Graduations	Order No.
0-150mm/6"	.02mm/.001"	817-0830	0-150mm	.02mm	817-0832
0-200mm/8"	.02mm/.001"	817-0831	0-200mm	.02mm	817-0833

Vernier Caliper with Carbide Tipped Jaws

Mono block vernier

- Four way measurements
- Made of stainless steel
- With upper screw lock
- Carbide tipped jaws



Range	Graduations	Order No.	Range	Graduations	Order No.
0-150mm/6"	.02mm/.001"	818-0141	0-150mm	.02mm	818-0144
0-200mm/8"	.02mm/.001"	818-0142	0-200mm	.02mm	818-0145
0-300mm/12"	.02mm/.001"	818-0143	0-300mm	.02mm	818-0146

Scriber Caliper with Carbide Tipped Jaws

- Flat depth rod
- With upper screw lock
- Carbide tipped jaws
- Made of stainless steel



Range	Graduations	Order No.	Range	Graduations	Order No.
0-150mm/6"	.02mm/.001"	818-0147	0-150mm	.05mm	818-0150
0-200mm/8"	.02mm/.001"	818-0148	0-200mm	.05mm	818-0160
0-300mm/12"	.02mm/.001"	818-0149	0-300mm	.05mm	818-0161

Stainless Steel Pocket Caliper



Specification	Order No.
3"x32nds & 16ths	403-4003
4"x32nds & 16ths	403-4004

5" Pocket Slide Caliper



100-300 mm Jaw

Specification	Graduation	Order No.
5"/125mm	0.1mm/1/16"	403-4005

Steel Marking Gages

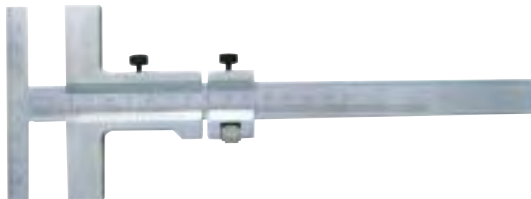
- Double needles
- Made of Carbon Steel.



Range	Graduation	Order No.
500mm	0.1mm	102-9020
1000mm	0.1mm	102-9040

T- Type Marking Vernier Calipers

- Made of Carbon Steel.



Range	Graduation	Order No.
0-150mm	.05mm	102-3150
0-250mm	.05mm	102-3250
0-300mm	.05mm	102-3300
0-400mm	.05mm	102-3400
0-500mm	.05mm	102-3500

Steel Marking Gages

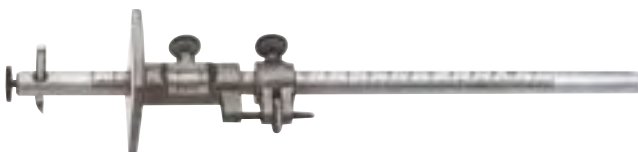
- Round rod.
- Made of Carbon Steel.
- Carbide Jaws



Range	Graduation	Order No.
200mm	0.1mm	102-7200
300mm	0.1mm	102-7300
400mm	0.1mm	102-7400
500mm	0.1mm	102-7500

Steel Marking Gages

- Round rod.
- Fine adjustment.
- Made of Carbon Steel.
- Carbide Jaws



Range	Graduation	Order No.
200mm	0.1mm	102-8200
300mm	0.1mm	102-8300
400mm	0.1mm	102-8400
500mm	0.1mm	102-8500

Marking Vernier Calipers

- Double Carbide Jaws
- Made of Stainless Steel.



Range	Graduation	Order No.
0-200mm	.05mm	102-4200
0-400mm	.1mm	102-4400

Steel Marking Gages

- Flat pattern.
- Hardened lay-out edge.
- Satin chrome finish.

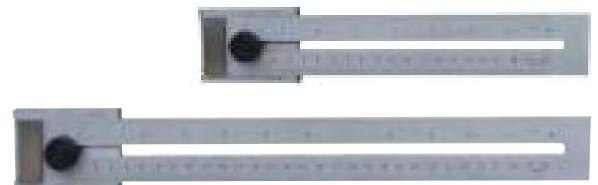


Metric

Range	Graduation	Order No.
200mm	0.1mm	102-5200
250mm	0.1mm	102-5250
300mm	0.1mm	102-5300

Inch

Range	Order No.
8"	102-5008
10"	102-5010
12"	102-5012



Range	Order No.
8"/200mm	102-5108
12"/300mm	102-5112

Steel Marking Compasses

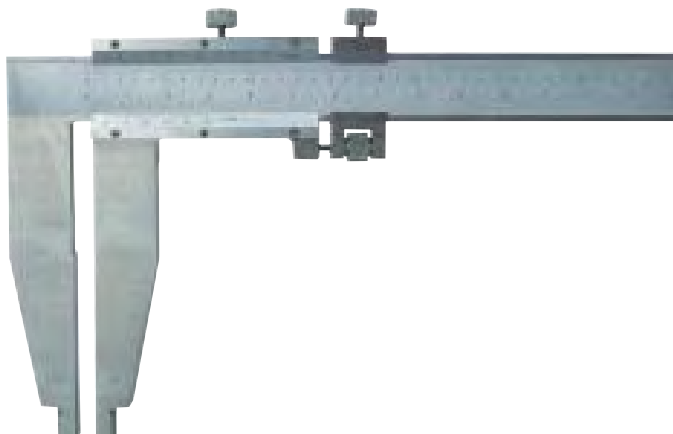


Range	Graduation	Order No.
150mm	0.1mm	102-6150
200mm	0.1mm	102-6200
250mm	0.1mm	102-6250
300mm	0.1mm	102-6300

Heavy Duty Vernier Calipers

Basic Model

- Long 50-division vernier scales (Not available on 611-5612) have wide spread easy to read, clear engraved crisp black graduations in 1/1000".
- Longer jaws permit greater accessibility and simpler measurement of larger work pieces.
- With fine adjustment.



Range	Jaw		Carbon Steel Order No.	Stainless Steel Order No.
	Length	Graduation		
0-12"	3"	.001"	611-5212	611-5112
0-18"	4"	.001"	611-5218	611-5118
0-20"	4"	.001"	611-5220	611-5120
0-24"	4"	.001"	611-5224	611-5124
0-40"	5"	.001"	611-5240	611-5140
0-60"	7"	.001"	611-5260	611-5160
0-80"	7"	.001"	611-5280	

Range	Jaw Length	Vernier Scale		Carbon Steel Order No.	Stainless Steel Order No.
		Lower	Upper		
0-12"	3"	.02mm	.001"	611-5812	611-5712
0-18"	4"	.02mm	.001"	611-5818	611-5718
0-20"	4"	.02mm	.001"	611-5820	611-5720
0-24"	4"	.02mm	.001"	611-5824	611-5724
0-40"	5"	.02mm	.001"	611-5840	611-5740
0-60"	8"	.02mm	.001"	611-5860	611-5760*
0-80"	8"	.02mm	.001"	611-5880	611-5780*

* 7" Jaw Length

Range	Jaw Length	Vernier Scale		Carbon Steel Order No.	Stainless Steel Order No.
		Lower	Upper		
0-12"	3"	.001"	.02mm	611-5612	611-5512
0-18"	4"	.001"	.02mm	611-5618	611-5518
0-20"	4"	.001"	.02mm	611-5620	611-5520
0-24"	4"	.001"	.02mm	611-5624	611-5524
0-40"	5"	.001"	.02mm	611-5640	611-5540
0-40"	6-1/2"	.001"	.02mm	611-5641	611-5541
0-60"	8"	.001"	.02mm	611-5660	611-5560
0-80"	8"	.001"	.02mm	611-5680	611-5580

Range	Jaw Length	Graduation	Carbon Steel Order No.	Stainless Steel Order No.
0-450mm	100mm	.02mm	611-5310	611-5410
0-500mm	100mm	.02mm	611-5315	611-5415
0-600mm	100mm	.02mm	611-5320	611-5420
0-1000mm	125mm	.02mm	611-5325	611-5425
0-1500mm	200mm	.02mm	611-5330	611-5430
0-2000mm	200mm	.02mm	611-5335	

Range	Jaw Length	Graduation	Carbon Steel Order No.	Stainless Steel Order No.
0-450mm	100mm	.05mm	611-5311	611-5411
0-500mm	100mm	.05mm	611-5316	611-5416
0-600mm	100mm	.05mm	611-5321	611-5421
0-1000mm	125mm	.05mm	611-5326	611-5426
0-1500mm	200mm	.05mm	611-5331	611-5431
0-2000mm	200mm	.05mm	611-5336	611-5436

Long Jaws

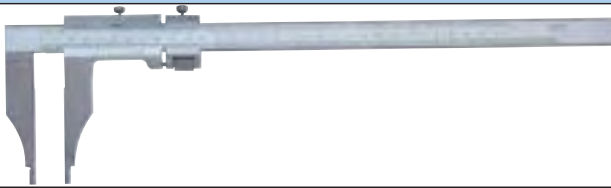
- Long 50-division vernier scales have wide spread easy to read, clear engraved crisp black graduations in 1/1000".
- Longer jaws permit greater accessibility and simpler measurement of larger work pieces.
- With fine adjustment.
- Made of stainless steel.



Range	Jaw Length	Graduation	Order No.
0-12"	3.5"	.001"	611-5012
0-20"	7.8"	.001"	611-5020
0-30"	7.8"	.001"	611-5030
0-40"	7.8"	.001"	611-5040

Range	Jaw Length	Graduation	Order No.
0-300mm/12"	3.5"	.001"	611-6012
0-500mm/20"	7.8"	.001"	611-6020
0-750mm/30"	7.8"	.001"	611-6030
0-1000mm/40"	7.8"	.001"	611-6040

Heavy Duty Vernier Calipers



Mono-Block , Long Jaw Type (Jaw Length: 150mm/6")

- Without upper jaws.
- With fine adjustment.
- Made of carbon steel or stainless steel

Range	Grad.	Carbon Steel	Stainless Steel
		Order No.	Order No.
0-450mm	.02mm	611-0204	611-1204
0-500mm	.02mm	611-0205	611-1205
0-600mm	.02mm	611-0206	611-1206
0-1000mm	.02mm	611-0210	611-1210

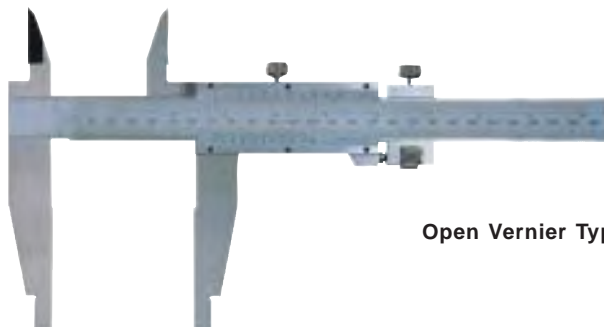
Range	Grad.	Carbon Steel	Stainless Steel
		Order No.	Order No.
0-450mm	.05mm	611-0504	611-1504
0-500mm	.05mm	611-0505	611-1505
0-600mm	.05mm	611-0506	611-1506
0-1000mm	.05mm	611-0510	611-1510

Range	Vernier Scale		Carbon Steel	Stainless Steel
	Lower	Upper	Order No.	Order No.
0-450mm/18"	.02mm	001"	611-0218	611-1218
0-500mm/20"	.02mm	001"	611-0220	611-1220
0-600mm/24"	.02mm	001"	611-0224	611-1224
0-800mm/32"	.02mm	001"	611-0232	611-1232
0-1000mm/40"	.02mm	001"	611-0240	611-1240

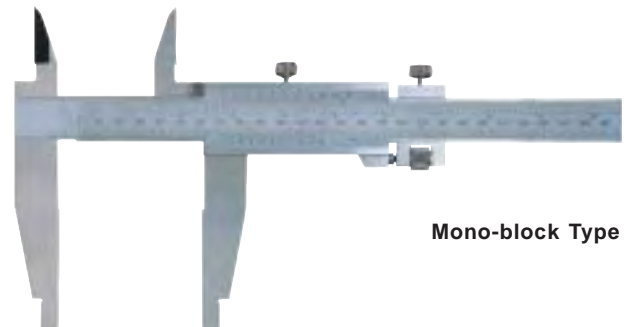
Range	Vernier Scale		Carbon Steel	Stainless Steel
	Lower	Upper	Order No.	Order No.
0-450mm/18"	.05mm	1/128"	611-0518	611-1518
0-500mm/20"	.05mm	1/128"	611-0520	611-1520
0-600mm/24"	.05mm	1/128"	611-0524	611-1524
0-800mm/32"	.05mm	1/128"	611-0532	611-1532
0-1000mm/40"	.05mm	1/128"	611-0540	611-1540

With External Upper Jaws

- Made of stainless steel
- With fine adjustment.
- Open vernier type and mono-block vernier type for choice.



Open Vernier Type



Mono-block Type

Range	Jaw Length	Grad.	Open Vernier	Mono-block
			Order No.	Order No.
0-400mm	100mm	.05mm	610-0165	610-2165
0-450mm	100mm	.05mm	610-0185	610-2185
0-500mm	100mm	.05mm	610-0205	610-2205
0-500mm	150mm	.05mm	610-0206	610-2206
0-600mm	100mm	.05mm	610-0245	610-2245
0-600mm	150mm	.05mm	610-0246	610-2246
0-750mm	150mm	.05mm	610-0305	610-2305
0-1000mm	150mm	.05mm	610-0405	610-2405
0-1500mm	200mm	.05mm	610-0605	610-2605
0-2000mm	200mm	.05mm	610-0805	610-2805

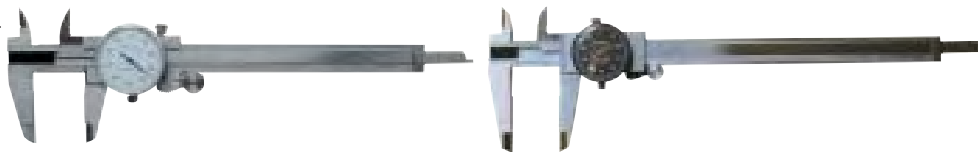
Range	Jaw Length	Grad.	Open Vernier	Mono-block
			Order No.	Order No.
0-400mm	100mm	.02mm	610-0162	610-2162
0-450mm	100mm	.02mm	610-0182	610-2182
0-500mm	100mm	.02mm	610-0202	610-2202
0-500mm	150mm	.02mm	610-0203	610-2203
0-600mm	100mm	.02mm	610-0242	610-2242
0-600mm	150mm	.02mm	610-0243	610-2243
0-750mm	150mm	.02mm	610-0302	610-2302
0-1000mm	150mm	.02mm	610-0402	610-2402
0-1500mm	200mm	.02mm	610-0602	610-2602
0-2000mm	200mm	.02mm	610-0802	610-2802

Range	Jaw Length	Vernier Scale		Open Vernier	Mono-block
		Lower	Upper	Order No.	Order No.
0-400mm/16"	100mm	.02mm	001"	610-1162	610-3162
0-450mm/18"	100mm	.02mm	001"	610-1182	610-3182
0-500mm/20"	100mm	.02mm	001"	610-1202	610-3202
0-500mm/20"	150mm	.02mm	001"	610-1203	610-3203
0-600mm/24"	100mm	.02mm	001"	610-1242	610-3242
0-600mm/24"	150mm	.02mm	001"	610-1243	610-3243
0-750mm/30"	150mm	.02mm	001"	610-1302	610-3302
0-1000mm/40"	150mm	.02mm	001"	610-1402	610-3402
0-1500mm/60"	200mm	.02mm	001"	610-1602	610-3602
0-2000mm/80"	200mm	.02mm	001"	610-1802	610-3802

Range	Jaw Length	Vernier Scale		Open Vernier	Mono-block
		Lower	Upper	Order No.	Order No.
0-400mm/16"	100mm	.05mm	1/128"	610-1165	610-3165
0-450mm/18"	100mm	.05mm	1/128"	610-1185	610-3185
0-500mm/20"	100mm	.05mm	1/128"	610-1205	610-3205
0-500mm/20"	150mm	.05mm	1/128"	610-1206	610-3206
0-600mm/24"	100mm	.05mm	1/128"	610-1245	610-3245
0-600mm/24"	150mm	.05mm	1/128"	610-1246	610-3246
0-750mm/30"	150mm	.05mm	1/128"	610-1305	610-3305
0-1000mm/40"	150mm	.05mm	1/128"	610-1405	610-3405
0-1500mm/60"	200mm	.05mm	1/128"	610-1605	610-3605
0-2000mm/80"	200mm	.05mm	1/128"	610-1805	610-3805

Precision Dial Calipers

- Stainless steel with satin chrome finish.
- Outside, inside and depth measurements.
- Supplied in plastic case.
- With thumb roll.
- 12"~40" without Upper Jaw



Inch ,Stainless Steel, Dial 0-100

Range	Grad.	Range Per/Rev.	Black Face Order No.	White Face Order No.
0-4"	.001"	0.1"	10B-S004	10W-S004
0-6	.001	0.1	10B-S006	10W-S006
0-8	.001	0.1	10B-S008	10W-S008
0-12	.001	0.1	10B-S012	10W-S012

Inch ,Stainless Steel, Dial 0-100-0

Range	Grad.	Range Per/Rev.	Black Face Order No.	White Face Order No.
0-4"	.001"	0.2"	20B-S004	20W-S004
0-6	.001	0.2	20B-S006	20W-S006
0-8	.001	0.2	20B-S008	20W-S008
0-12	.001	0.2	20B-S012	20W-S012

Inch ,Carbon Steel, Dial 0-100

Range	Grad.	Range Per/Rev.	Black Face Order No.	White Face Order No.
0-4"	.001"	0.1"	10B-C004	10W-C004
0-6	.001	0.1	10B-C006	10W-C006
0-8	.001	0.1	10B-C008	10W-C008
0-12	.001	0.1	10B-C012	10W-C012

Inch ,Carbon Steel, Dial 0-100-0

Range	Grad.	Range Per/Rev.	Black Face Order No.	White Face Order No.
0-4"	.001"	0.2"	20B-C004	20W-C004
0-6	.001	0.2	20B-C006	20W-C006
0-8	.001	0.2	20B-C008	20W-C008
0-12	.001	0.2	20B-C012	20W-C012

Metric ,Stainless Steel, Dial 0-100

Range	Grad.	Range Per/Rev.	White Face Order No.	Black Face Order No.	Range	Grad.	Range Per/Rev.	White Face Order No.	Black Face Order No.	Range	White Face Order No.	Black Face Order No.
0-100mm	.01mm	1mm	20W-S110	20B-S110	.02mm	2mm	20W-S210	20B-S210	.05mm	5mm	20W-S510	20B-S510
0-150mm	.01mm	1mm	20W-S115	20B-S115	.02mm	2mm	20W-S215	20B-S215	.05mm	5mm	20W-S515	20B-S515
0-200mm	.01mm	1mm	20W-S120	20B-S120	.02mm	2mm	20W-S220	20B-S220	.05mm	5mm	20W-S520	20B-S520
0-300mm	.01mm	1mm	20W-S130	20B-S130	.02mm	2mm	20W-S230	20B-S230	.05mm	5mm	20W-S530	20B-S530

Metric, Carbon Steel, Dial 0-100

Range	Grad.	Range Per/Rev.	White Face Order No.	Black Face Order No.	Range	Grad.	Range Per/Rev.	White Face Order No.	Black Face Order No.	Range	White Face Order No.	Black Face Order No.
0-100mm	.01mm	1mm	20W-C110	20B-C110	.02mm	2mm	20W-C210	20B-C210	.05mm	5mm	20W-C510	20B-C510
0-150mm	.01mm	1mm	20W-C115	20B-C115	.02mm	2mm	20W-C215	20B-C215	.05mm	5mm	20W-C515	20B-C515
0-200mm	.01mm	1mm	20W-C120	20B-C120	.02mm	2mm	20W-C220	20B-C220	.05mm	5mm	20W-C520	20B-C520
0-300mm	.01mm	1mm	20W-C130	20B-C130	.02mm	2mm	20W-C230	20B-C230	.05mm	5mm	20W-C530	20B-C530

Heavy Duty Dial Calipers

Long Jaws

- Stainless Steel, Large dial steel with fine adjustment, double scale
- without Upper Jaw



Inch ,Stainless Steel, Dial 0-100

Range	Grad.	Inside Range	Jaw Length	Black Face Order No.	White Face Order No.
0-450mm	0.02mm	20-450mm	100mm	102-0831	102-0845
0-500mm	0.02mm	20-450mm	100mm	102-0832	102-0850
0-600mm	0.02mm	20-450mm	100mm	102-0833	102-0860
0-1000mm	0.02mm	20-1000mm	120mm	102-0834	102-0890

Inch ,Stainless Steel, Dial 0-100

Range	Grad.	Inside Range	Jaw Length	Black Face Order No.	White Face Order No.
0-18"	0.001"	0.4-12"	4"	10B-S418	10W-S418
0-20"	0.001"	0.5-18"	4"	10B-S420	10W-S420
0-24"	0.001"	0.5-20"	4"	10B-S424	10W-S424
0-40"	0.001"	0.5-24"	4"	10B-S440	10W-S440

“Swiss style” Dial Calipers

- 4 way measurement.
- Made of stainless steel .
- One revolution reading, dial 0-100.



Range	Grad.	Range Per/Rev.	White Face Order No.	Black Face Order No.
0-6"	.001"	0.1"	102-0006	102-1006
0-8"	.001	0.1	102-0008	102-1008
0-12"	.001	0.1	102-0012	102-1012

Range	Grad.	Range Per/Rev.	Order No.	Range Grad.	Per/Rev.	Order No.
0-150mm	.01mm	1mm	102-0115	.02mm	2mm	102-0215
0-200mm	.01mm	1mm	102-0120	.02mm	2mm	102-0220
0-300mm	.01mm	1mm	102-0130	.02mm	2mm	102-0230

Inch & Metric Dial Calipers

- Outside/inside and depth measurements.
- Hardened stainless steel finish.
- Dial 0-100.



Range	Graduation	Range Per/Rev.	Order No.
0-6"/0-150mm	.001"/.02mm	0.1"/2mm	10W-1506
0-8"/0-200mm	.001"/.02mm	0.1"/2mm	10W-2008
0-12"/0-300mm	.001"/.02mm	0.1"/2mm	10W-3012

E-Z Reading Dial Calipers

White face, Dual Reading

- Made of stainless hardened throughout.
- Resolutions: 0.001".
- Direct reading from a dial.
- All measuring face is hardened and finished.
- Adjustable bezel, easy to zeroset.
- For measuring to ID, OD, Depth and Step.
- With case.



Range	Grad.	Accuracy	Order No.
0-6"	0.001"	0.001"	102-1406
0-8"	0.001"	0.002"	102-1408
0-12"	0.001"	0.002"	102-1412

TiN-Coated Dial Caliper

- Stainless steel
- White face
- Dial 0-100



Range	Graduation	Order No.
0-6"	0.001"	10W-S007

Two Direction Shock Proof Dial Calipers

- Two direction shock proof system ensure stable and easy reading.
- Hardened and polished measuring faces. Dial 0-100.
- Made of Stainless Steel.

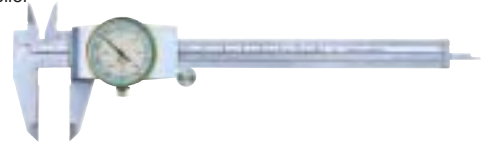


Range	Order No.
0-150 mm	102-0501
0-200 mm	102-0502
0-300 mm	102-0503

Range	Graduation	Order No.
0-150 mm	0.02mm	102-0511
0-200 mm	0.02mm	102-0512
0-300 mm	0.02mm	102-0513

Fraction dial Calipers

- Mono block with roller
- Stainless steel



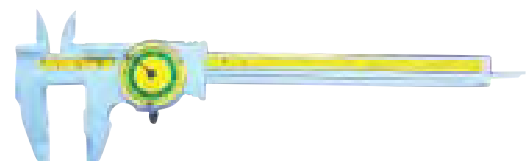
Range	Graduation	Order No.
6"	0.01" / 1/64"	10W-S206
8"	0.01" / 1/64"	10W-S208
12"	0.01" / 1/64"	10W-S212
6"	1/1024"	10W-S306
8"	1/1024"	10W-S308
12"	1/1024"	10W-S312

Carbon Fiber Composite Dial Calipers

- Four way measurement-outside, inside, depth, step
- Lightweight compared to steel caliper
- Large dial for easy reading
- High percentage fiber content to assure strength and product life
- Shockproof against electricity
- Scratch free upon measuring surface



Range	Graduation	Order No.
0-150 mm/6"	0.01mm/.0005"	108-0151
0-200 mm/8"	0.01mm/.0005"	108-0152
0-300 mm/12"	0.01mm/.0005"	108-0153



Range	Graduation	Order No.
0-150 mm/6"	0.01mm/.0005"	108-0154
0-200 mm/8"	0.01mm/.0005"	108-0155
0-300 mm/12"	0.01mm/.0005"	108-0156

3 Key Digital Calipers

- Large LCD
- Inch/mm conversion (.01mm/.0005").
- Zero setting at any position.
- Three-key type : on/off Key, Inch/mm Key, Zero Key.
- SPC out put.



Range	Jaw Length	Open vernier Order No.	Close Vernier Order No.
100mm/4"	30mm	101-3504	101-3604
150mm/6"	40mm	101-3506	101-3606
200mm/8"	50mm	101-3508	101-3608
300mm/12"	60mm	101-3512	101-3612

- Extra Large LCD
- Auto Lock Model



Range	Graduation	Roller Order No.	Auto Lock Order No.
150mm	.01mm/.0005"	101-3526	101-3546
200mm	.01mm/.0005"	101-3528	101-3548
300mm	.01mm/.0005"	101-3532	101-3552

- Manual power off, no auto off
- Super large LCD, function 1, CR2032 3V battery
- Zero setting at any position



Range	Graduation	Order No.
0-150mm/6"	0.01mm/0.0005"	101-0121

- Maximum measurement speed: 1.5mm/s 60in/s
- Operating temperature: 0~40°C.
- Power: 3V CR2025(silver oxide cell) 1 battery
- Battery life: 1 year continuous usage/3 years under normal operation



Normal Display

Range	Graduation	Order No.
0-150mm/6"	0.01mm/0.0005"	101-0104
0-200mm/8"	0.01mm/0.0005"	101-0105
0-300mm/12"	0.01mm/0.0005"	101-0106



Yellow Back Light Display

Range	Graduation	Order No.
0-150mm/6"	0.01mm/0.0005"	101-0107
0-200mm/8"	0.01mm/0.0005"	101-0108
0-300mm/12"	0.01mm/0.0005"	101-0109

Electronic Digital Calipers

Metal-housing, 3 Key Type

- With manual ON/OFF
- Metric/inch system conversion at any position
- Zero setting at any position



Range	Graduation	Order No.
0-150mm/6"	0.01mm/0.0005"	101-0155
0-200mm/8"	0.01mm/0.0005"	101-0255
0-300mm/12"	0.01mm/0.0005"	101-0355



Range	Graduation	Order No.
0-150mm/6"	0.01mm/0.0005"	101-0127



Range	Graduation	Order No.
0-150mm/6"	0.01mm/0.0005"	101-0117



Range	Graduation	Order No.
0-150mm/6"	0.01mm/0.0005"	101-0156
0-200mm/8"	0.01mm/0.0005"	101-0158
0-300mm/12"	0.01mm/0.0005"	101-0159



Range	Graduation	Order No.
0-150mm/6"	0.01mm/0.0005"	101-0111

TiN-Coated Digital caliper

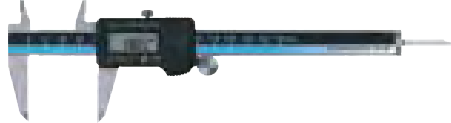
- Stainless steel
- 3 key



Range	Graduation	Order No.
0-6"/150mm	0.0005/0.01mm	102-0541

4 Key Digital Calipers

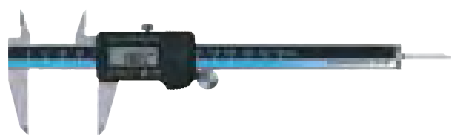
- Four-key type : TOL- key, on/off Key, Inch/mm Key, Zero Key.
- Enter high/low dimensional limits-out of limits \blacktriangle & \blacktriangledown will flash on display.
- Same features as Basic Model.



TOL-Key Type

Range	Jaw Length	Order No.
150mm/6"	40mm	101-4506
200mm/8"	50mm	101-4508
300mm/12"	60mm	101-4512

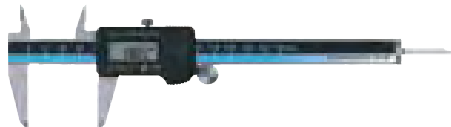
- Four-key type : ABS-key, on/off Key, Inch/mm Key, Zero Key.
- Absolute button allow return to the absolute.
- Same features as Basic Model.



ABS-Key Type

Range	Jaw Length	Order No.
150mm/6"	40mm	101-4706
200mm/8"	50mm	101-4708
300mm/12"	60mm	101-4712

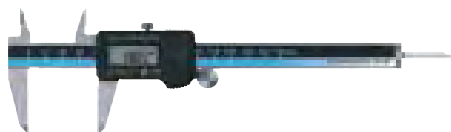
- Four-key type : HOLD-key, on/off Key, Inch/mm Key, Zero Key.
- Hold button, hold readout at any position.
- Same features as Basic Model.



HOLD-Key Type

Range	Jaw Length	Order No.
150mm/6"	40mm	101-4806
200mm/8"	50mm	101-4808
300mm/12"	60mm	101-4812

- Four-key type : MODE-key, on/off Key, Inch/mm Key, Zero Key.
- Mode button, hold "peak" maximum or minimum measurements and recall from memory.



MODE-Key Type

Range	Jaw Length	Order No.
150mm/6"	40mm	101-4606
200mm/8"	50mm	101-4608
300mm/12"	60mm	101-4612

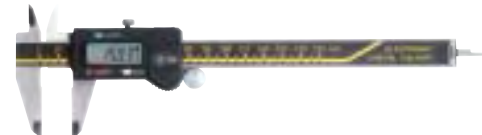
IP54 Digital Calipers

- It can work when cleaning the splashed water on it.
- With ON/OFF button and data out put interface.
- Zero setting at any position. Metric/Inch system conversion at any position.



2 Key Type

Range	Graduation	Order No.
0-150mm/6"	0.01mm/0.0005"	101-5801
0-200mm/8"	0.01mm/0.0005"	101-5802
0-300mm/12"	0.01mm/0.0005"	101-5803



3 Key Type

Range	Graduation	Order No.
0-150mm/6"	0.01mm/0.0005"	101-5804
0-200mm/8"	0.01mm/0.0005"	101-5805
0-300mm/12"	0.01mm/0.0005"	101-5806

Metal Housing



Range	Order No.
0-150mm/6"	101-5807
0-200mm/8"	101-5808
0-300mm/12"	101-5809

Metal Housing, 1/128"

- With durable and premium metal display housing
- Large LCD display for easy reading
- One CR2032 3V lithium battery
- Low voltage warning by flashing display
- Manual or auto power on/off
- Zero setting and metric/inch system conversion at any position
- Resolution: 0.01mm/0.0005"
- 1. Decimal
- 2. Fractional



Range	Graduation	Order No.
0-150mm/6"	0.01mm/0.0005", 1/128"	101-5813
0-200mm/8"	0.01mm/0.0005", 1/128"	101-5814
0-300mm/12"	0.01mm/0.0005", 1/128"	101-5815

Covers for Digital Caliper

Covers for 3 Key Digital Caliper



Type 1



Type 2



Type 3



Type 4

Covers for 4 Key Digital Caliper



Type 1



Type 2



Type 3



Type 4

IP65 Water Proof Digital Calipers

- The technology of capacitive sensor or electromanetic sensor adopted.
- It can work in the water.
- With ON/OFF button and data out put interface.



Range	Graduation	Order No.
0-150mm/6"	0.01mm/0.0005"	101-5810
0-200mm/8"	0.01mm/0.0005"	101-5811

IP67 Water Proof Digital Calipers

- Fully protected against the penetration of liquids and antimagnetic
- Ip67 Prevent dust, spraying water or oil from entering the caliper through effective encapsulation of the main parts
- Auto Power off
- Zero setting at any position
- Inch/mm conversion at any position
- Four-way measurement



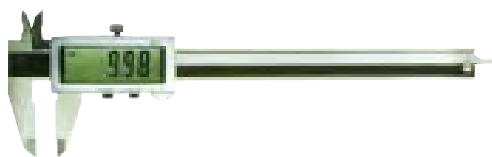
Range	Graduation	Order No.
0-150mm/6"	0.01mm/0.0005"	101-5904
0-200mm/8"	0.01mm/0.0005"	101-5905
0-300mm/12"	0.01mm/0.0005"	101-5906

- One of the toughest calipers available
- Use it anywhere in the shop without worry
- Large LCD display
- IP67 level: protection against coolants, dirt, chips and temporary water submersion



Range	Graduation	Order No.
0-150mm/6"	0.01mm/0.0005"	101-5910
0-200mm/8"	0.01mm/0.0005"	101-5911
0-300mm/12"	0.01mm/0.0005"	101-5912

- Maximum measurement speed: 1.5mm/s 60in/s
- Operating temperature: 0~40°C.
- Power: 3V CR2025(silver oxide cell) 1 battery
- Battery life: 1 year continuous usage/3 years under normal operation.



Range	Graduation	Order No.
0-150mm/6"	0.01mm/0.0005"	101-5901
0-200mm/8"	0.01mm/0.0005"	101-5902
0-300mm/12"	0.01mm/0.0005"	101-5903

Solar Digital Calipers

Solar Calipers eliminate the problem of battery replacement/disposal and the interent costs.

- Switchable inch/metric .0005"/0.01mm LCD display for easy reading
- Hardened stainless steel throughout for longer life and corrosion resistance
- The thumb roll provides a consistent "feel" for more accurate measurements
- OD, ID, step and depth measurements
- The epoxy embedded scale eliminates rack and pinion jams

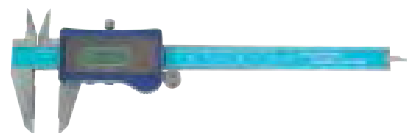
Stainless Steel



Carbon Fiber Composite



Range	Graduation	Order No.
0-150mm/6"	0.01mm/0.0005"	101-1233
0-150mm/6"	0.01mm/0.0005"	101-1235



Range	Graduation	Order No.
0-150mm/6"	0.01mm/0.0005"	101-1231

Fractional Digital Calipers

Functions:

- ON/OFF function
- ZERO setting at any position for differential measurement.
- inch/mm/in frac interchange
- Data can be input to special printer for processing and print via special cable.
- It can test low voltage. It flashes in low voltage.
- It functions "Auto OFF". "Auto OFF" means the power is off when the slider is not moved for 4 minutes at power-on mode.



3- key

Range	Graduation	Frac Grad.	Order No.
0-150mm/6"	0.001mm/0.00005"	1/128"	101-1021
0-150mm/6"	0.001mm/0.00005"	1/64"	101-1031
0-200mm/8"	0.001mm/0.00005"	1/128"	101-1022
0-200mm/8"	0.001mm/0.00005"	1/64"	101-1032

Fractional Left Hand Digital Calipers

- Extra large LCD



Range	Graduation	Order No.
0-150mm/6"	0.01mm/0.0005" / 1/128"	101-3536
0-200mm/8"	0.01mm/0.0005" / 1/128"	101-3537
0-300mm/12"	0.01mm/0.0005" / 1/128"	101-3538

Carbon Fiber Composites Digital Calipers

- Can be used in schools, laboratories, carpentry, farms and DIY at home
- Can be used to measure magnetic objects. Free of hurting when measuring
- Big LCD display for easy reading
- Functions: Zero setting at any position; metric/ inch system conversion at any position & ON; manual OFF or auto power off
- One 1.55V SR44 Battery can last about 12 months



Black Frame

Range	Graduation	Accuracy	Order No.
0-100mm/4"	0.1mm/0.1"	0.2mm/0.1"	101-0141



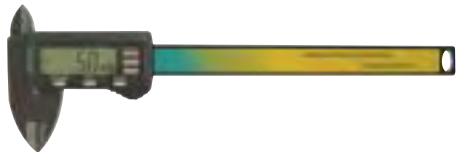
Black Frame

Range	Graduation	Accuracy	Order No.
0-150mm/6"	0.1mm/0.1"	0.2mm/0.1"	101-0147



Black Frame

Range	Graduation	Accuracy	Order No.
0-150mm/6"	0.1mm/0.1"	0.2mm/0.1"	101-0161



Black Frame

Range	Graduation	Accuracy	Order No.
0-150mm/6"	0.1mm/0.1"	0.2mm/0.1"	101-0167



Yellow Frame

Range	Graduation	Accuracy	Order No.
0-150mm/6"	0.1mm/0.1"	0.2mm/0.1"	101-0164



Range	Graduation	Order No.
0-150mm/6"	0.01mm/0.0005"/1/64"	101-1068



Range	Graduation	Order No.
100mm/4"	.1mm/.005"	101-7010
150mm/6"	.1mm/.005"	101-7015

Carbide Tipped Jaw Digital Calipers

- Carbide tipped measuring faces for lasting quality.



Range	Graduation	Jaw Length	Order No.
150mm/6"	.01mm/.0005"	40mm	101-3406
200mm/8"	.01mm/.0005"	50mm	101-3408
300mm/12"	.01mm/.0005"	60mm	101-3412

Round Depth Bar Digital Calipers

- With round depth bar.



Range	Graduation	Jaw Length	Open Vernier Order No.	Close Vernier Order No.
150mm/6"	.01mm/.0005"	40mm	101-2806	101-2906
200mm/8"	.01mm/.0005"	50mm	101-2808	101-2908
300mm/12"	.01mm/.0005"	60mm	101-2812	101-2912

Pointed Jaw Digital Calipers

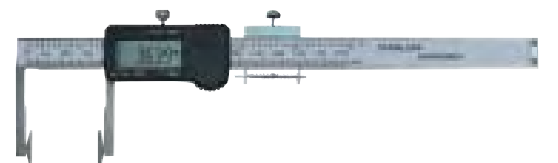
- The narrow tip jaws fit into very small grooves and tracks.



Range	Graduation	Jaw Length	Order No.
100mm/4"	.01mm/.0005"	30mm	101-4100
150mm/6"	.01mm/.0005"	40mm	101-4150
200mm/8"	.01mm/.0005"	50mm	101-4200
300mm/12"	.01mm/.0005"	60mm	101-4300

Plate Anvil Digital Calipers

- Featured with pushing power limited device.
- Used to measure the half-soft board.



Range	Graduation	Jaw Length	Plate Dia.	Order No.
50mm/2"	.01mm/.0005"	100mm	20mm	101-4406
80mm/3.	.01mm/.0005"	150mm	30mm	101-4408
100mm/4"	.01mm/.0005"	200mm	50mm	101-4412

Same Direction Upper Jaws Digital Calipers

- To measure the step distance on the same surface and in the same direction.
- To measure the step distance in the same direction, but on different surfaces.



Range	Graduation	Order No.
150mm/6"	.01mm/.0005"	101-3906
200mm/8"	.01mm/.0005"	101-3908
300mm/12"	.01mm/.0005"	101-3912

Jaw Offset Digital Calipers

- Main scale jaw can be slid up and down to facilitate measurement of stepped sections.



Range	Graduation		Order No.
150mm/6"	.01mm/.0005"	40x110mm	101-5150
200mm/8"	.01mm/.0005"	50x120mm	101-5200
300mm/12"	.01mm/.0005"	60x130mm	101-5300
500mm/20"	.01mm/.0005"	100x210mm	101-5500

Tube Digital Calipers

- To measure the tube thickness ($\pm 4\text{mm}$).



Range	Graduation	Order No.
150mm/6"	.01mm/.0005"	101-3150
200mm/8"	.01mm/.0005"	101-3200
300mm/12"	.01mm/.0005"	101-3300
500mm/20"	.01mm/.0005"	101-3500

Disc Brake Vernier Calipers

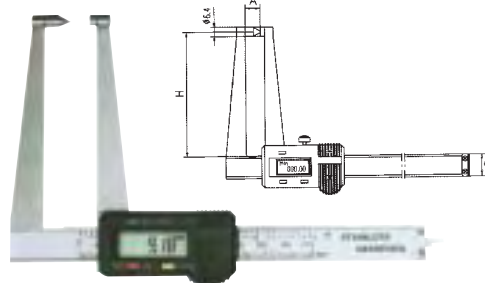
- Fine adjustment.
- Made of stainless steel.



Range	Graduations	Length of Jaws	Order No.
0-60mm	.1mm	55mm	610-5501
0-60mm	.1mm	80mm	610-5502
0-90mm	.1mm	120mm	610-5503

Disc Brake Digital Calipers

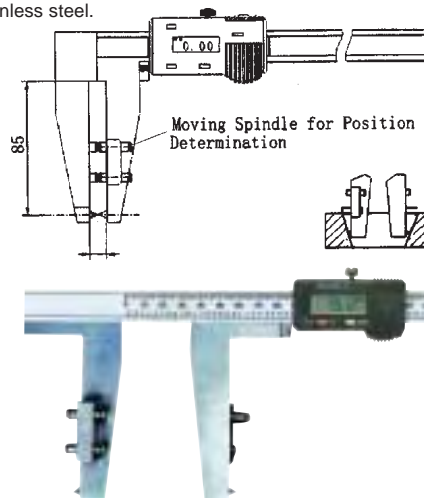
- To measure the depth of grooves on the disc brake.
- Manual power on/off.
- Zero setting at any position.
- Metric/Inch system conversion at any position.
- With data output interface.



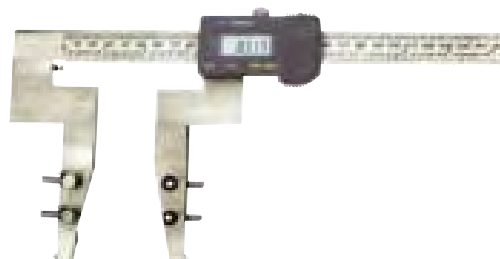
Range (Inch/mm)	Graduation (Inch/mm)	Accuracy (mm)	H (mm)	A (mm)	C (mm)	Order No.
0-3"/0-75	0.0005"/0.01	+/-0.03	50	8	13	101-5503
0-4"/0-100	0.0005"/0.01	+/-0.03	70	8	13	101-5504
0-6"/0-150	0.0005"/0.01	+/-0.04	90	10	16	101-5506

Digital Brake Drum Calipers

- Manual power on/off.
- Zero setting at any position.
- Metric/Inch system conversion at any position.
- With data output interface.
- To measure the wear dimension of the automobile brake drum.
- Made of stainless steel.



Range (Inch/mm)	Graduation (Inch/mm)	Accuracy (mm)	Order No.
0-12"/0-300	0.0005"/0.01	+/-0.06	101-1103



Range (Inch/mm)	Graduation (Inch/mm)	Accuracy (mm)	Order No.
0-20"/0-500	0.0005"/0.01	+/-0.06	101-1105

Inside Groove Vernier Calipers

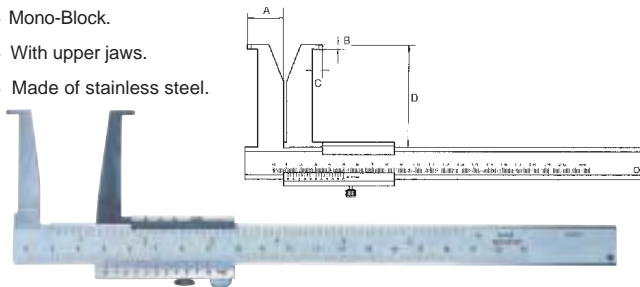
- Prolongation jaws.
- Fine adjustment.
- Made of stainless steel.



Range	Graduations	Size of Jaw	Order No.
40-340mm/0-300mm	0.02mm	95x40mm	610-6302
60-560mm/0-500mm	0.02mm	150x60mm	610-6502
40-340mm/0-300mm	0.05mm	95x40mm	610-6305
60-560mm/0-500mm	0.05mm	150x60mm	610-6505

Inside Groove Vernier Calipers

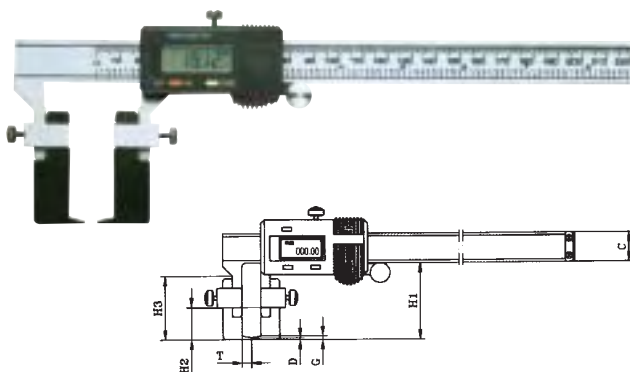
- Mono-Block.
- With upper jaws.
- Made of stainless steel.



Range	Graduations	A	B	C	D	Order No.
10-160mm	0.05mm	10mm	2mm	3mm	30mm	610-7160
26-200mm	0.05mm	25mm	3mm	7mm	70mm	610-7200

Inside & Outside Combined Digital Calipers

- With interchangeable anvils.
- Manual power on/off.
- Zero setting at any position.
- Metric/Inch system conversion.
- With data output interface.

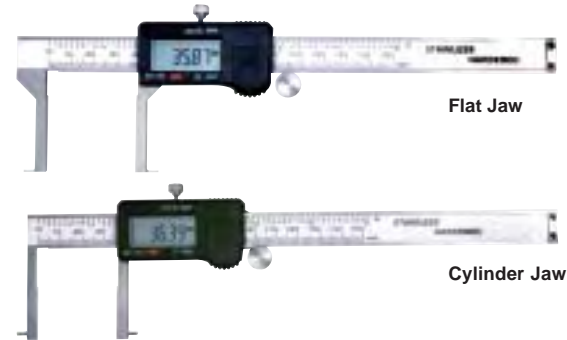


Range (Inch/mm)	Graduation (Inch/mm)	Order No.
0-6"/0-150	0.0005"/0.01	101-1106
0-8"/0-200	0.0005"/0.01	101-1108
0-12"/0-300	0.0005"/0.01	101-1112

Range mm	H1 (mm)	H2 (mm)	H3 (mm)	B (mm)	C (mm)	D (mm)	G (mm)	T (mm)
0-6"/0-150	40	17	33	30	16	1	2	5
0-8"/0-200	50	24	40	42	16	1.5	2.5	8
0-12"/0-300	60	32	48	50	17	1.5	3	10

Inside Groove Digital Calipers

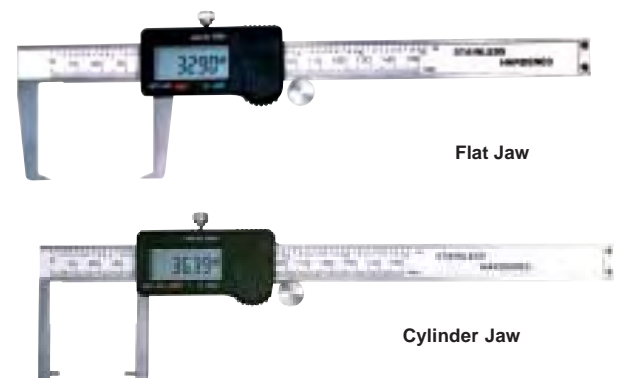
- Easy to measure the diameter of inside groove.



Range	Graduation	Jaw Length	Flat Jaw Order No.	Cylinder Jaw Order No.
150mm/6"	.01mm/.0005"	40mm	101-2150	101-2606
200mm/8"	.01mm/.0005"	50mm	101-2200	101-2608
300mm/12"	.01mm/.0005"	60mm	101-2300	101-2612
500mm/20"	.01mm/.0005"	100mm	101-2500	101-2620

Outside Groove Digital Calipers

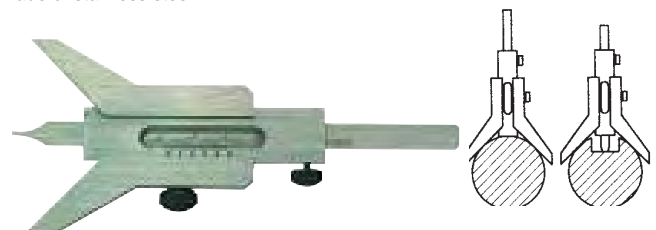
- Easy to measure the diameter of outside groove which is hard to reach by normal calipers.



Range	Graduation	Jaw Length	Flat Jaw Order No.	Cylinder Jaw Order No.
150mm/6"	.01mm/.0005"	40mm	101-1150	101-1606
200mm/8"	.01mm/.0005"	50mm	101-1200	101-1608
300mm/12"	.01mm/.0005"	60mm	101-1300	101-1612
500mm/20"	.01mm/.0005"	100mm	101-1500	101-1620

Spline Gages

- Made of stainless steel.

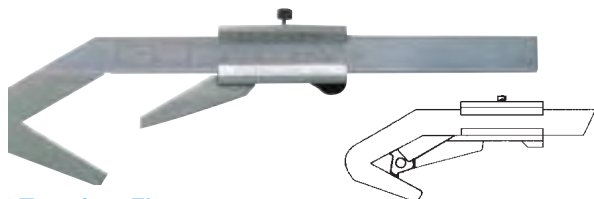


Range	Graduations	Order No.
5-80mm	0.05mm	102-9105
6-120mm	0.05mm	102-9106
7-160mm	0.05mm	102-9107
8-200mm	0.05mm	102-9108

Anvil Vernier Calipers

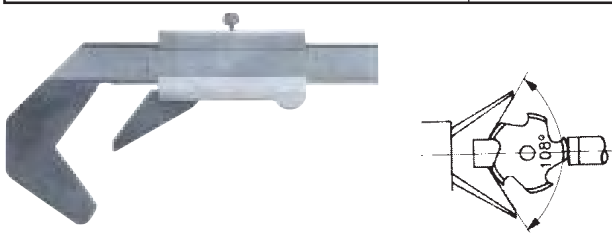
60° & 108° Type

Used for measurements of 3 or 5 flute cutting heads.



60° Type for 3Flute cutters

Range	Graduations	Order No.
4-40mm	.05mm/0.001"	102-2040
20-75mm	.05mm/0.001"	102-2075



108° Type for 5 Flute cutters

Range	Graduations	Order No.
1-40mm	.05mm/0.001"	102-2140
20-75mm	.05mm/0.001"	102-2142

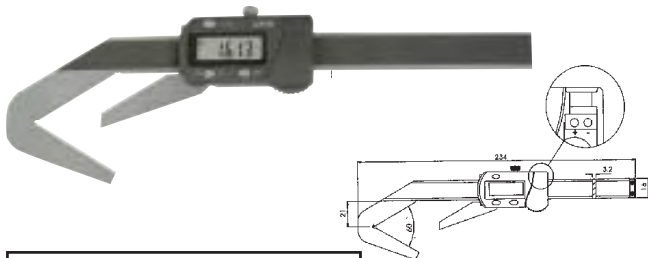
Digital Anvil Vernier Calipers

For 3 flutes cutting tools

Used to measure the outside diameter of cutting heads (such as taps, reamers, end mills) with an odd number of 3 flutes

Key functions: in/mm: inch and metric conversion, Off/On: power switch,

Set: Origin resetting, +:positive setting, -:negative setting



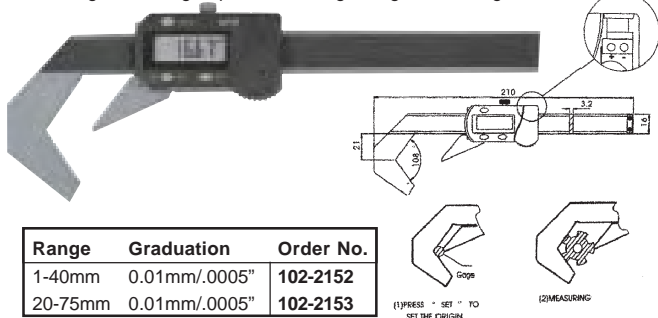
Range	Graduation	Order No.
4-40mm	0.01mm/.0005"	102-2150
20-75mm	0.01mm/.0005"	102-2151

For 5 flutes cutting tools

Used to measure the outside diameter of cutting heads (such as taps, reamers, end mills) with an odd number of 5 flutes

Key functions: in/mm: inch and metric conversion, Off/On: power switch,

Set: Origin resetting, +:positive setting, -:negative setting



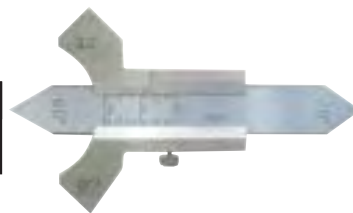
Range	Graduation	Order No.
1-40mm	0.01mm/.0005"	102-2152
20-75mm	0.01mm/.0005"	102-2153

Welding Gage

- Made of stainless steel.

Graduation.01mm

Specification	Order No.
60°, 70°, 80° and 90°	102-5500



Digital Welding Gage

Graduation.01mm/.0005"

Range	Order No.
12.5mm/0.5"	101-5600
60°, 70°, 80°, 90°	



Inside Groove Digital Calipers

- Easy to measure the diameter of inside groove.



Range	Graduation	Order No.
125mm/5"	.01mm/.0005"	101-2705
150mm/6"	.01mm/.0005"	101-2706
200mm/8"	.01mm/.0005"	101-2708

Arc Outside Digital Calipers

- Easy to measure the radius of a workpiece whose shape is smaller than semi-circle.



Radius Range	Graduation	Order No.
3-150mm	.01mm/.0005"	101-5700

Dual Purpose Digital Calipers

- Dual purpose: Analog vernier caliper & digital caliper.
- Three keys: mm/inch, off/on, zero.



Range	Graduation	Graduation On Body	Order No.
150mm/6"	.01mm/.0005"	0.05mm	101-2851
200mm/8"	.01mm/.0005"	0.05mm	101-2852
150mm/6"	.01mm/.0005"	1/128"	101-2861
200mm/8"	.01mm/.0005"	1/128"	101-2862

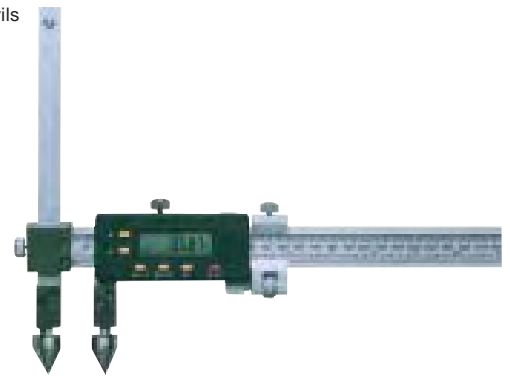
Center Distance Calipers



Range	Graduation	Order No.
20-150mm	0.02mm	102-1736
20-200mm	0.02mm	102-1738
20-300mm	0.02mm	102-1742
20-500mm	0.02mm	102-1750
20-1000mm	0.02mm	102-1770
30-2000mm	0.02mm	102-1780

Digital Center Distance Calipers

- With Cone Anvils



Range	Graduation	Order No.
20-150mm	0.01mm/0.0005"	101-1736
20-200mm	0.01mm/0.0005"	101-1738
20-300mm	0.01mm/0.0005"	101-1742
20-500mm	0.01mm/0.0005"	101-1750
20-1000mm	0.01mm/0.0005"	101-1770
30-2000mm	0.01mm/0.0005"	101-1780

Steel Marking Gages

- Double needles
- Made of Carbon Steel.



Range	Graduation	Order No.
500mm	0.1mm	102-9020
1000mm	0.1mm	102-9040

Digital Center Distance Calipers

- Easy measurement solution of hole center to hole center diameter of holes are between 1mm and 10mm.

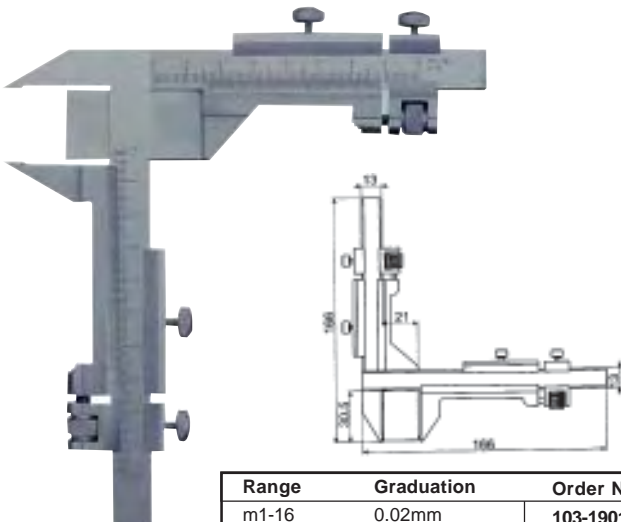


Range	Graduation	Order No.
5-150mm/0.2-6"	.01mm/.0005"	101-1706
5-200mm/0.2-8"	.01mm/.0005"	101-1708
5mm-300mm/0.2-12"	.01mm/.0005"	101-1712

Gear Tooth Calipers

Features:

- Facilitate measurement of gear thickness
- Made of stainless steel

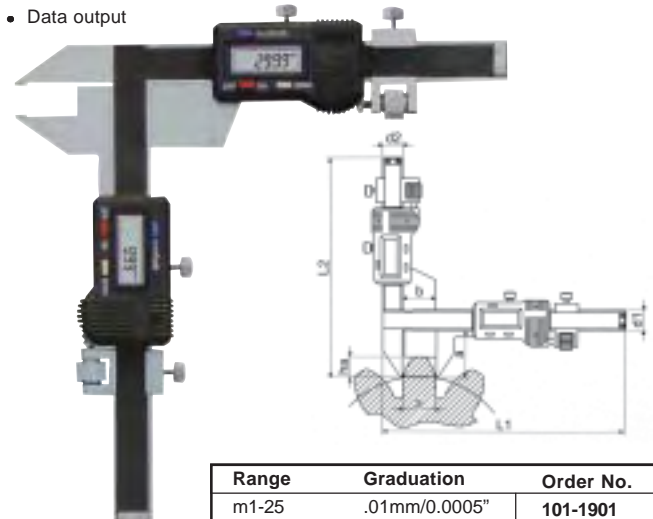


Range	Graduation	Order No.
m1-16	0.02mm	103-1901
m1-26	0.02mm	103-1903
m15-55	0.02mm	103-1905

Digital Gear Tooth Calipers

Features:

- Facilitate measurement of gear thickness
- Power on/off
- mm/inch conversion
- Zero-setting at any position
- Data output



Range	Graduation	Order No.
m1-25	.01mm/0.0005"	101-1901
m5-50	.01mm/0.0005"	101-1903

Heavy Duty Digital Calipers

No Upper Jaws, with Fine Adjustment

- Manual power on/off.
- Inch/mm conversion (.01mm/.0005"), Data hold function.
- Fast tracing of maximum or minimum value.
- SPC out put.



Range	100mm Jaw Length Order No.	150mm Jaw Length Order No.	200mm Jaw Length Order No.	250mm Jaw Length Order No.	300mm Jaw Length Order No.
500mm/20"	100-5050	100-5051	100-5052	100-5053	
600mm/24"	100-5060	100-5061	100-5062	100-5064	100-5063
1000mm/40"		100-5100	100-5101	100-5103	100-5102
1500mm/60"		100-5150	100-5151	100-5153	100-5152
2000mm/80"			100-5200	100-5201	100-5202

Carbide Tipped Measuring Faces

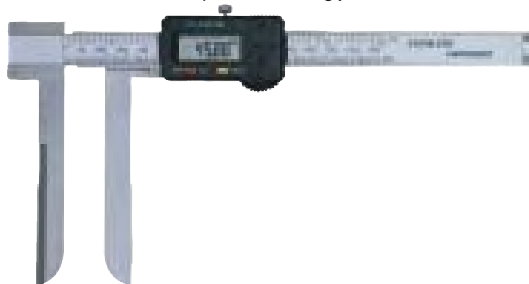


100-300 mm Jaw

Range	100mm Jaw Length OrderNo.	150mm Jaw Length Order No.	200mm Jaw Length Order No.	300mm Jaw Length Order No.
500mm/20"	100-3180	100-3182		
600mm/24"	100-3181	100-3183		
800mm/32"		100-3184	100-3188	
1000mm/40"		100-3185	100-3189	
1500mm/60"		100-3186	100-3190	
2000mm/80"		100-3187	100-3191	100-3192

Long Jaws Inside Digital Calipers

- Easy to obtain the diameter of deep hole with long jaws.



Range	Graduation	Size of Jaw	Order No.
150mm/6"	.01mm/.0005"	60x24mm	100-2115
150mm/6"	.01mm/.0005"	90x28mm	100-2116
200mm/8"	.01mm/.0005"	80x28mm	100-2120
200mm/8"	.01mm/.0005"	100x34mm	100-2121
300mm/12"	.01mm/.0005"	150x44mm	100-2132
300mm/12"	.01mm/.0005"	90x30mm	100-2130
300mm/12"	.01mm/.0005"	120x40mm	100-2131
500mm/20"	.01mm/.0005"	120x40mm	100-2150
500mm/20"	.01mm/.0005"	150x44mm	100-2151
500mm/20"	.01mm/.0005"	180x48mm	100-2152

Heavy Duty Digital Calipers

With Fine Adjustment & External Upper Jaws

- Inch/mm conversion (.01mm/.0005").
- Manual power on/off.
- Zero setting at any position.
- SPC output.



60-90 & 250mm Jaw

Range	Jaw Length	Order No.
300mm/12"	60mm	100-3030
300mm/12"	75mm	100-3031
300mm/12"	90mm	100-3032
500mm/20"	250mm	100-3053

100-300 mm Jaw

Range	100mm Jaw Length OrderNo.	150mm Jaw Length Order No.	200mm Jaw Length Order No.	300mm Jaw Length Order No.
450mm/18"	100-3045	100-3046		100-3063
500mm/20"	100-3050	100-3051	100-3052	100-3082
600mm/24"	100-3060	100-3061	100-3062	100-3102
800mm/32"		100-3080	100-3081	100-3152
1000mm/40"		100-3100	100-3101	100-3202
1500mm/60"		100-3150	100-3151	
2000mm/80"		100-3200	100-3201	

Heavy Duty Digital Calipers

With Fine Adjustment & External Upper Jaws

- Inch/mm conversion (.01mm/.0005").
- Manual power on/off.
- Zero setting at any position.
- SPC output.



100-300 mm Jaw

Range	100mm Jaw Length OrderNo.	150mm Jaw Length Order No.	200mm Jaw Length Order No.	300mm Jaw Length Order No.
500mm/20"	100-3160	100-3162		
600mm/24"	100-3161	100-3163		
800mm/32"		100-3164	100-3168	
1000mm/40"		100-3165	100-3169	
1500mm/60"		100-3166	100-3170	
2000mm/80"		100-3167	100-3171	100-3172

Digital Scale Units

- Made of stainless steel.
- Graduation: .01mm/.0005"
- Each specification of vertical scale has predetermination function. Horizontal scale units, over 500mm/20" range, have predetermination function.

Horizontal



Horizontal over 500mm/20"

Vertical



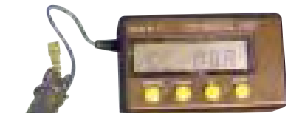
Range	Horizontal Reading Order No.	Vertical Reading Order No.	Range	Horizontal Reading Order No.	Vertical Reading Order No.
100mm/4"	100-1010	100-0010	500mm/20"	100-1050	100-0050
150mm/6"	100-1015	100-0015	600mm/24"	100-1060	100-0060
200mm/8"	100-1020	100-0020	750mm/30"	100-1075	100-0075
300mm/12"	100-1030	100-0030	800mm/32"	100-1080	100-0080
400mm/16"	100-1040	100-0040	1000mm/40"	100-1100	100-0100
450mm/18"	100-1045	100-0045	1500mm/60"	100-1150	100-0150
			2000mm/80"	100-1200	100-0200

Digital Readout System

For Digital Measuring Tools

The indicator can be used on drilling, lathing, grinding, cutting, and wood working machines along with Digital Scale Units for purpose of easy operation & increasing accuracy.

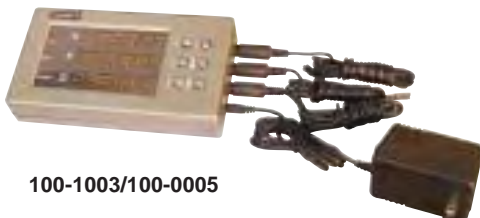
- mm/Inch conversion: .01mm/.001".
- Operating range: 999.99mm/39.37".
- Center-Separation.
- On/Off Switch.
- Zero Reset.
- Magnetic Back.



100-0001/100-0006
Liquid Crystal Display(LCD)



100-0004



100-1003/100-0005

Specification	LED Order No.	LCD Order No.
One Axis 220V		100-0001
One Axis 110V		100-0006
Two Axis 110V		100-0007
Two Axis 220V		100-0011
Three Axis(220V AC Power)	100-0003	100-0002
Three Axis(110V AC Power)	100-0005	100-0004

Digital Readout System

Features:

- Used to detect and display the displacement of working platform of machine.
- Used to connect with PC or other device.
- Extensively adopted in improvement of machine out of date.



One Axis
Order No. 100-0008



Two Axis
Order No. 100-0009

Mini-Interface Set

Mini-interface is an integration of interface and COM plugs, designed for portable and easy use

Specifications	Order No. 101-0041
Data input port	Port for capacitive digital measuring instruments
Data output port	COM port/RS232 port
Power supply	Via PC
Dimensions	80 x 50 x 32mm
Mass	80g



Specifications	Order No. 101-0042
Data input port	Port for capacitive digital measuring instruments
Data output port	USB port
Power supply	Via PC
Dimensions	80 x 50 x 32mm
Mass	80g



Specifications	Order No. 101-0043
Data input port	Port for capacitive digital measuring instruments
Data output port	USB port & foot Switch
Power supply	Via PC
Dimensions	80 x 50 x 32mm
Mass	80g



Interface protocol:

Band Tate: 48000 Data Bits: 8 Stop Bit:1
No correction or examination.

Data will be sent in ASCII Code(and TXT) continually. After each datum finishes sending, press <enter>.

There's no frame for data. Cord ASCII for data measurement consists of 10 bytes starting with sign <+> or sign <->, followed by 7 digits, one decimal point and <Enter>.

With stable bytes transmission.

Followed by a group of data is Code ASCII for <Enter>.

Transmission Rate: 3 times/s.

Micro Printer

- Power Supply: AC 110/220V
- Offers various statistical data:
 - Number of data (N)
 - Average (X)
 - Histogram
 - Maximum value (MAX)
 - Minimum value (MIN)
 - Standard Deviation (S)
- Fitted with a Foot Switch

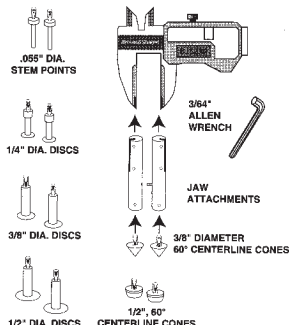
Order No. 101-0050



Centerline Plus Accessory Kit

Features:

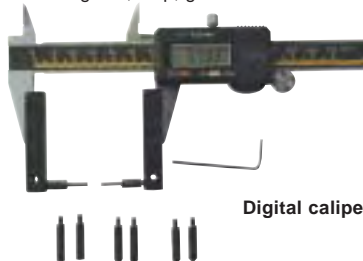
- Exclusive interchangeable centerline cones
- Measure places otherwise impossible to reach with a regular caliper – undercuts, grooves, webs, and shoulders
- 4-48 thread
- Permanent alignment



No. of Pieces	Specification	Individual Order No.	Set Order No.
6Pairs/Set	<ul style="list-style-type: none"> • 6Pairs/Set, includes: <ul style="list-style-type: none"> .055"Dia. Stem points 1/4"Dia. Discs 3/8"Dia. Discs 1/2"Dia. Discs 1/2"Dia. 60°Centerline Cones 3/8"Dia. 60°Centerline Cones • Wooden case(Case only) 	101-0100	101-0110
		9100-9186	

Caliper Accessory Kit

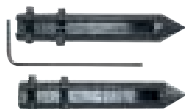
- Designed for vernier, dial, and electronic calipers.
- For different applications and configurations on hard-to-reach places, measuring slot, step, grooves etc.



Specification	Order No.
4 Pairs/set, includes: A pair of Ball Contact Points A pair of Point Contact Points A pair of Flat Contact Points A pair of Spline Contact Points	101-0020

Centerline Gage Sets

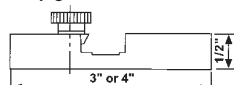
- Designed for dial, vernier and digital calipers, measure centerline distance.
- Sold in pairs, these gages quickly adapt to most calipers.
- Constructed of high quality alloy steel hardened to 50 RC, black oxide finish.



Description	Jaw			Order No.
	Dia.	Length	Thickness	
For 4", 6", 8" calipers	.375"	2.195"	.155"	101-0008
For 10", 12" calipers	.500"	2.750"	.188"	101-0012

T-Bar Base Depth Attachment

- For 4", 6", 8" & 12" Vernier and Dial calipers
- Choice of 3" or 4" base length for 6" & 8" models
- Finely ground base surface and secure locking clamp



Length	Specifications	Order No.
3"	For 4,6 8" Calipers	101-0003
4"	For 4,6 8" Calipers	101-0004
5"	For 12" Calipers only	101-0005



Size	Specifications	Order No.
3x1/4"	For 4,6 8" Calipers	610-5001

Caliper Clamp On Jaw

Turn your Caliper into a versatile and accurate depth measurement device. Small, light, and corrosion resistant. Clamp On attaches to any Caliper Jaw in seconds. Thin probes in differing lengths can be used singly or in pairs to measure depths of grooves, blind holes, and other places otherwise impossible to reach.

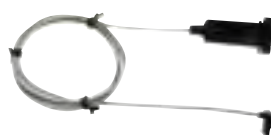
Material is Stainless Steel, 4-48 Threads.

Dimensions	Order No.
Jaw clamp On for 6" Calipers	101-0002
.133 Max.jaw Width (Sold singly)	



SPC Cable for Digital Measuring Tools

- SPC cable: The micrometer can be connected to computer, transfer data to computer.
- Transfer data to HyperTerminal(Microsoft).



Cable length: 1.5m
Order No.600-0031



Cable length: 2m
Order No.600-0032



Cable length: 2m
Order No.600-0033



Cable length: 2m
Order No.600-0035

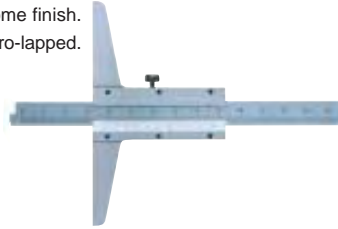
With foot switch
Cable length: 2m
Order No.600-0034



Vernier Depth Gages

Basic Model

- Designed for measuring depth of holes, slots and recesses.
- Clear graduations on satin chrome finish.
- All bases are hardened and micro-lapped.



Without Hook

Range	Grad.	Base	Carbon Steel Order No.	Stainless Steel Order No.
0-6"	.001"	3"	111-0060	112-0060
0-8"	.001"	4"	111-0084	112-0084
0-12"	.001"	4"	111-0124	112-0124
0-20"	.001"	4"	111-0140	112-0140
0-6"	1/128"	3"	111-0061	112-0061
0-8"	1/128"	4"	111-0086	112-0086
0-12"	1/128"	4"	111-0125	112-0125
0-20"	1/128"	4"	111-0141	112-0141
0-8"/200mm	.001"/.02mm	4"	111-0620	112-0620
0-12"/300mm	.001"/.02mm	4"	111-0621	112-0621

Range	Grad.	Base	Carbon Steel Order No.	Stainless Steel Order No.
0-150mm	.02mm	80mm	111-0152	112-0152
0-200mm	.02mm	100mm	111-0202	112-0202
0-300mm	.02mm	100mm	111-0302	112-0302
0-500mm	.02mm	100mm	111-0502	112-0502
0-150mm	.05mm	80mm	111-0155	112-0155
0-200mm	.05mm	100mm	111-0205	112-0205
0-300mm	.05mm	100mm	111-0305	112-0305
0-500mm	.05mm	100mm	111-0505	112-0505



With Hook

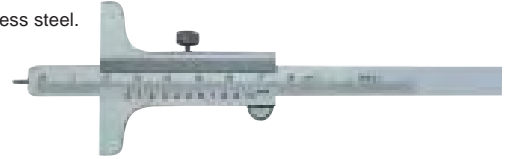
Range	Grad.	Base	Carbon Steel Order No.	Stainless Steel Order No.
0-8"	.001"	4"	111-1084	112-1084
0-12"	.001"	4"	111-1124	112-1124
0-20"	.001"	4"	111-1140	112-1140
0-8"	1/128"	4"	111-1086	112-1086
0-12"	1/128"	4"	111-1125	112-1125
0-20"	1/128"	4"	111-1141	112-1141
0-8"/200mm	.001"/.02mm	4"	111-1620	112-1620
0-12"/300mm	.001"/.02mm	4"	111-1621	112-1621

Range	Grad.	Base	Carbon Steel Order No.	Stainless Steel Order No.
0-200mm	.02mm	100mm	111-1202	112-1202
0-300mm	.02mm	100mm	111-1302	112-1302
0-500mm	.02mm	100mm	111-1502	112-1502
0-200mm	.05mm	100mm	111-1205	112-1205
0-300mm	.05mm	100mm	111-1305	112-1305
0-500mm	.05mm	100mm	111-1505	112-1505

Special Vernier Depth Gages

Small Measuring Point

- Mono-Block Vernier.
- Made of stainless steel.



Range	Graduation	Base	Order No.
0-80mm	.05mm	50mm	112-4085
0-200mm	.05mm	100mm	112-4205
0-300mm	.05mm	100mm	112-4305

Two End Using & Large Base

- Mono-Block Vernier.
- Made of stainless steel.
- With hook.



Range	Base	Grad:.02 mm Order No.	Grad:.05 mm Order No.
0-200mm	100mm	112-5202	112-5205
0-300mm	150mm	112-5302	112-5305
0-400mm	150mm	112-5402	112-5405
0-500mm	150mm	112-5502	112-5505

Exchangeable Needle



Range	Graduation	Order No.
0-80mm	0.05mm	112-5085
0-160mm	0.05mm	112-5160
0-300mm	0.05mm	112-5300

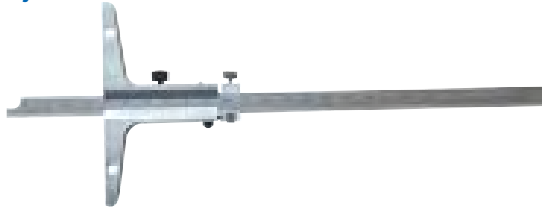
Mono-Block Type



Range	Grad.	Base	Carbon Steel Order No.	Stainless Steel Order No.
0-150mm	.02mm	80mm	111-2152	112-2152
0-200mm	.02mm	100mm	111-2202	112-2202
0-300mm	.02mm	100mm	111-2302	112-2302
0-300mm	.02mm	150mm		112-2303
0-400mm	.02mm	100mm	111-2402	112-2402
0-400mm	.02mm	150mm		112-2403
0-500mm	.02mm	100mm	111-2502	112-2502
0-500mm	.02mm	150mm		112-2503
0-150mm	.05mm	80mm	111-2155	112-2155
0-200mm	.05mm	100mm	111-2205	112-2205
0-300mm	.05mm	100mm	111-2305	112-2305
0-300mm	.05mm	150mm		112-2306
0-400mm	.05mm	100mm	111-2405	112-2405
0-400mm	.05mm	150mm		112-2406
0-500mm	.05mm	100mm	111-2505	112-2505
0-500mm	.05mm	150mm		112-2506

Vernier Depth Gages

With Fine Adjustment



Range	Grad.	Carbon Steel Order No.	Stainless Steel Order No.
0-150mm/6"	.02mm	111-2606	112-2606
0-200mm/8"	.02mm	111-2608	112-2608
0-300mm/12"	.02mm	111-2612	112-2612

Optional Extension Bases

- Stainless Steel
- Dial Depth Gages Type



Length	Order No.
7"	610-5007
10"	610-5010
12"	610-5012

Adjustable Angle Depth Gages

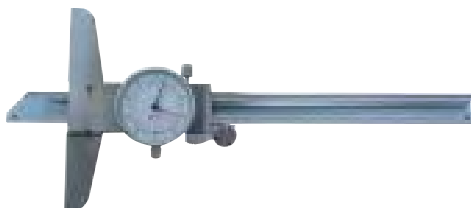
- Front side of head has a "V" groove to hold depth rod in upright position
- 6" stainless steel rule;
- Hardened and ground steel base.
- Not precisely a protractor, but the angle measurements in 15 degree increment are a use ful and welcomed feature.



Range	Graduation	Order No.
6"	0.5mm	615-6122

Double Dial Depth Caliper

- Dial is graduated in both inch and metric.
- Features separate hands for inch and metric measurements for easy recognition
- Range per revolution: .100"/2mm
- Graduations: .001"/.02mm
- Made of hardened stainless steel
- Include case



Range	Order No.
0-6"/150mm	102-0616
0-8"/200mm	102-0618

Digital Depth Gages

- Graduation .01mm/.0005"
- Three Key Type is popular than auto on/off type .

Without Hook



Range	Base	Three key Order No.	Auto on/off Order No.
0-150mm /6"	100mm	110-2150	110-0150
0-200mm /8"	100mm	110-2200	110-0200
0-300mm/12"	100mm	110-2300	110-0300
0-500mm/20"	120mm	110-2500	110-0500
0-150mm /6"	150mm	110-2151	110-0151
0-200mm/8"	150mm	110-2201	110-0201
0-300mm/12"	150mm	110-2301	110-0301
0-500mm/20"	150mm	110-2501	110-0501
0-500mm /20"	200mm	110-2502	110-0502

With Hook



Range	Base	Three key Order No.	Auto On/Off Order No.
0-150mm /6"	100mm	110-3150	110-1150
0-200mm /8"	100mm	110-3200	110-1200
0-300mm/12"	100mm	110-3300	110-1300
0-500mm/20"	120mm	110-3500	110-1500
0-150mm /6"	150mm	110-3151	110-1151
0-200mm/8"	150mm	110-3201	110-1201
0-300mm/12"	150mm	110-3301	110-1301
0-500mm/20"	150mm	110-3501	110-1501
0-500mm /20"	200mm	110-3502	110-1502

Digital Tread Depth Gauges

- Large LCD display.
- Zero setting at any position.
- Metric/Inch system interchange.
- Manual power on/off.
- Suitable for tread depth, brake shoe and pad wear.
- Operation Temperature: -5°C~40°C
- Weight: 40g



Range	Resolution	Order No.
0-25mm/1"	0.01mm/0.0005"	110-0100
0-25mm/1"	0.01mm/0.0005"/ 1/128"	110-0101

Digital depth gages

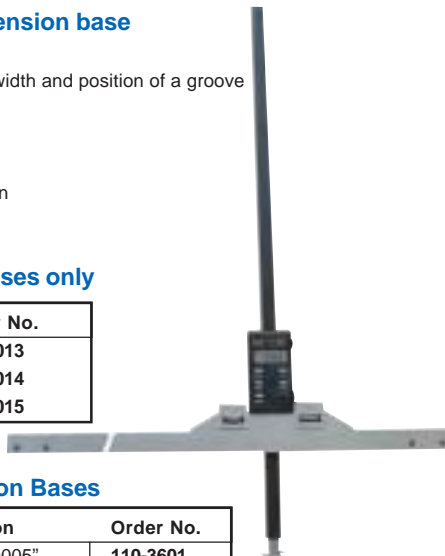
with adjustable extension base

Features:

- Used to measure groove width and position of a groove
- Wider extension bases
- Power on / off
- Mm/inch conversion
- Zero-setting at any position
- Data output

Wider Extension Bases only

Size	Order No.
300mm	610-5013
400mm	610-5014
500mm	610-5015



With Wider Extension Bases

Range	Graduation	Order No.
0-300mm	0.01mm/.0005"	110-3601
0-400mm	0.01mm/.0005"	110-3602
0-500mm	0.01mm/.0005"	110-3603
0-600mm	0.01mm/.0005"	110-3604

Plastic Tyre Profile Depth Gauge

- With metric and inch scales. The red scale can help judge quickly if the tread profile depth on the safe level
- The bevel edge with saw teeth can be used to scrape off the snow or ice on the windsreen and wing mirrors
- Made of ABS plastic, which is a good choice for promotion.



Range: 0-20mm/0-0.8"

Order No. 615-6400

Caliper and Height Gage Checkers

Features:

- Designed to check the accuracy of table movements of machine tools and calibrate CMMs. Permanently wrung, hardened and ground high grade blocks are stacked in the rigid housing.
- Selected sizes of measuring slips provides for calibration of main scale as well as vernier scales of the instrument.



Range	Step	Accuracy	Horizontal Order No.	Vertical Order No.
200mm	20mm	+/-3µm	622-0001	622-0011
300mm	20mm	+/-4µm	622-0002	622-0012
500mm	20mm	+/-6µm	622-0003	622-0013
600mm	20mm	+/-6µm	622-0004	622-0014
200mm	30mm	+/-3µm	622-0005	622-0015
300mm	30mm	+/-4µm	622-0006	622-0016
500mm	30mm	+/-6µm	622-0007	622-0017
600mm	30mm	+/-6µm	622-0008	622-0018

Precision Vernier Height Gages

- With fine adjustment and lock.
- Made of high quality tool steel.
- Including offset steel scriber.
- Supplied in fitted case.



Range	Gradu.	Order No.	Grad.	Order No.
0-200mm	.02mm	622-8222	.05mm	622-8225
0-300mm	.02mm	622-8232	.05mm	622-8235
0-350mm	.02mm	622-8237	.05mm	622-8239
0-400mm	.02mm	622-8242	.05mm	622-8245
0-500mm	.02mm	622-8252	.05mm	622-8255
0-550mm	.02mm	622-8257	.05mm	622-8259
0-600mm	.02mm	622-8262	.05mm	622-8265
0-1000mm	.02mm	622-8312	.05mm	622-8315

Precision Adjustable Height Gages

- With Cam-Lock scriber mounting.
- With fine adjustment and lock.
- Include: Straight steel scriber.
Offset steel scriber.
Square holding bar.
Magnifying glass.
- Supplied in fitted case.



Range	Grad.	Base Size	Carbon Steel Order No.	Stainless Steel Order No.
0-10"	.001"	4.8x3.2"	622-8511	621-8511
0-10"/250mm	.001"/.02mm	3.0x4.0"	622-8510	621-8510
0-12"/300mm	.001"/.02mm	3.3x4.9"	622-8512	621-8512
0-18"/450mm	.001"/.02mm	4.7x7"	622-8518	621-8518
0-20"/500mm	.001"/.02mm	4.7x7"	622-8520	621-8520
0-24"/600mm	.001"/.02mm	4.7x7"	622-8524	621-8524
0-40"/1000mm	.001"/.02mm	5.9x9.9"	622-8540	621-8540

Range	Grad.	Carbon Steel Order No.	Stainless Steel Order No.
0-300mm	.02mm	622-8442	621-8442
0-500mm	.02mm	622-8444	621-8444
0-600mm	.02mm	622-8446	621-8446
0-1000mm	.02mm	622-8448	621-8448
0-300mm	.05mm	622-8450	621-8450
0-500mm	.05mm	622-8452	621-8452

Side Wheel Vernier Height Gages

- Both main scale and vernier are made of stainless steel.
- Height measurement and scribing.
- No parallax reading. The reading lines of main scale and vernier are at the same horizontal line. That can effectually avoid section parallax.
- Large cross-section area of scale body and inflexible vertical shaft ensure the quality of scribing and repeated measurement.
- Vernier can make precision fine adjustable measurement through handwheel.



Range	Graduation	Accuracy	Order No.
0-300mm	.01mm	+/-0.05	621-8401
0-450mm	.01mm	+/-0.08	621-8402
0-500mm	.01mm	+/-0.08	621-8403
0-600mm	.01mm	+/-0.09	621-8404

Dial Height Gages

- With fine adjustment and lock.
- Has a carbide tipped scriber.
- Made of stainless steel.
- Black face or white face.
- Shock proof.
- Right hand type for easy use.
- Supplied in fitted case.



Range	Graduations	White Face	Black Face
		Order No.	Order No.
0-6"	.001"	621-7506	621-7606
0-8"	.001"	621-7508	621-7608
0-12"	.001"	621-7512	621-7612
0-150mm	.01mm	621-7115	621-7215
0-200mm	.01mm	621-7120	621-7220
0-300mm	.01mm	621-7130	621-7230
0-150mm	.02mm	621-7315	621-7415
0-200mm	.02mm	621-7320	621-7420
0-300mm	.02mm	621-7330	621-7430
150mm/6"	.02mm/.001"	621-7806	621-7906
200mm/8"	.02mm/.001"	621-7808	621-7908
300mm/12"	.02mm/.001"	621-7812	621-7912

Digital Counter Double Beam Height Gages

- .001" graduation, .1" dial reading digital counter.
- Double digital counter can be zero-set at an any height within range by pressing zero-reset button.
- Features a large feed wheel for coarse & fine vertical adjustments.
- Carbide tipped scriber.
- Bottom surface hardened & ground.
- Supplied in fitted case.



Range	Grad.	Order No.
0-300mm	.01mm	621-8530
0-450mm	.01mm	621-8545
0-500mm	.01mm	621-8550
0-600mm	.01mm	621-8560

Range	Grad.	Order No.
0-12"	.001"	621-8412
0-18"	.001"	621-8418
0-20"	.001"	621-8420
0-24"	.001"	621-8424

Digital Counter Three Beam Height Gages

- .001"/.01mm graduation, .1" dial reading digital counter.
- Three beam type provides high rigidity for large sizes.
- Three beam digital counter can be zero-set at an any height within range by pressing zero-reset button.
- Features a large feed wheel for coarse & fine vertical adjustments.
- Carbide tipped scriber.
- Bottom surface hardened & ground.
- Supplied in fitted case.



Range	Grad.	Order No.
0-32"	.001"	621-7032
0-40"	.001"	621-7040
0-800mm	.01mm	621-7080
0-1000mm	.01mm	621-7100

Electronic Digital Height Gage

- Made of stainless steel throughout.
- Bases is hardened throughout.
- The robust construction with a column provides highly repeatable measurements.
- Fine adjustment control for smooth movement.
- Carbide-tipped scriber.
- With RS232 output.
- Battery: 3V Cr2032 battery.
- With wooded case.

Function:

- mm/inch conversion
- ABS and INC mode
- Power on, off
- Zero setting



Range	Grad.	Accuracy	Order No.
0-200mm/8"	0.01mm/0.005"	0.03mm/0.0015"	621-7842
0-300mm/12"	0.01mm/0.005"	0.04mm/0.002"	621-7844
0-500mm/20"	0.01mm/0.005"	0.04mm/0.002"	621-7848
0-600mm/24"	0.01mm/0.005"	0.05mm/0.0025"	621-7850

Electronic Double Beam Height Gages

- Made of stainless steel.
- Supplied in fitted case.



Range	Graduation	Order No.
0-300mm/0-12"	.001mm/.0001"	621-8312
0-450mm/0-18"	.001mm/.0001"	621-8318
0-500mm/0-20"	.01mm/.001"	621-8320
0-600mm/0-24"	.01mm/.001"	621-8324

Electronic Digital Height Gages

- Stainless Steel.
- Large Screen.
- Inch/Metric conversion.
- Relative/Absolute conversion.
- Preset memory functions.
- SPC Output.
- Rotate tighten scriber clamp.
- Supplied in fitted case.



Range	Graduation	Order No.
0-300mm/0-12"	.01mm/.0005"	621-7813
0-450mm/0-18"	.01mm/.0005"	621-7814
0-500mm/0-20"	.01mm/.0005"	621-7815
0-600mm/0-24"	.01mm/.0005"	621-7816
0-1000mm/0-40"	.01mm/.0005"	621-7821
0-1500mm/0-60"	.01mm/.0005"	621-7822

Electronic Height Gages

- Power on/off.
- Zero-setting at any position.
- Units conversion.
- Data output.
- Presetting.
- Carbide-tipped scriber facilitates fine scribing on workpieces.
- Can easily measure height of small workpieces.
- The clear LCD screen.
- The robust construction with a thick column provides highly repeatable measurement.
- Fine-adjustment carriage to feed the slider finely.



Range	Graduation	Order No.
0-300mm/0-12"	.01mm/.0005"	621-8303
0-500mm/0-20"	.01mm/.0005"	621-8305
0-600mm/0-24"	.01mm/.0005"	621-8306
0-800mm/0-32"	.01mm/.0005"	621-8308
0-1000mm/0-40"	.01mm/.0005"	621-8310
0-1500mm/0-60"	.01mm/.0005"	621-8311
0-2000mm/0-80"	.01mm/.0005"	621-8313

Electronic Double Beam Height Gages

- The clear LCD screen
- Setting at any position.
- The movement of handwheel can make precision fine adjustable measurement.
- Set zero at discretion. INC/ABS. Transfer of measurement. Keeping of data. Power ON/OFF. Low battery Alarm Display. Metric/Inch transfer. Temperature: 0°C-40°C.
- Accuracy: +/-0.03
- Battery CR2032.



Range	Graduation	Order No.
0-300mm/12"	.01mm/.0005"	621-8300
0-450mm/0-18"	.01mm/.0005"	621-8301
0-600mm/0-24"	.01mm/.0005"	621-8302

Side Wheel Digital Height Gages

- Both main scale and vernier are made of stainless steel.
- Height measurement and scribing.
- Structure of double CMOS chips and stable characteristic.
- Vernier have two frames: handwheel movement and quick movement. The movement of handwheel can make precision fine adjustable measurement.
- Set zero at discretion. INC/ABC. Transfer of measurement. Keeping of data. Power ON/OFF. Metric/Inch transfer.
- Battery SR44.



Range	Graduation	Accuracy	Order No.
0-300mm/12"	.01mm/.0005"	+/-0.04	621-7831
0-450mm/18"	.01mm/.0005"	+/-0.05	621-7832
0-500mm/20"	.01mm/.0005"	+/-0.05	621-7833
0-600mm/24"	.01mm/.0005"	+/-0.05	621-7834

Side Wheel Digital Height Gages

Features:

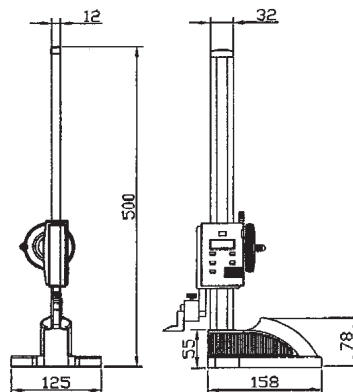
- Used to measure height of small workpieces
- The robust construction with a thick column provides highly repeatable measurement
- Fine adjustment carriage to feed the slider finely.
- Clear LCD screen
- Carbide tipped scriber facilitates fine scribing on workpieces
- Presetting
- Data output
- Mm/inch conversion
- Zero-setting at any position
- Power on/off



Range	Graduation	Accuracy	Order No.
0-300mm/12"	.01mm/0.0005"	+/-0.04	621-7853
0-500mm/20"	.01mm/0.0005"	+/-0.05	621-7855
0-600mm/24"	.01mm/0.0005"	+/-0.05	621-7856

Side Wheel Digital Height Gages

- Feed wheel.
- Can easily measure the height of small parts.
- Display: Easy to read, large LCD display, 6 digit and minus sign(-)
- Resolution: 0.0005"/ 0.01mm
- Direct Inch/Metric conversion
- Functions include: Zero/On/Off setting, Hold button, ABS, Inch/mm conversion, TOL, Data output.
- Position lock, carbide scriber
- Accuracy: 0-200mm, +/-0.03mm;
200-300mm, +/-0.004mm



Range	Grad.	Order No.
0-12"/0-300mm	0.0005"/0.01mm	621-7843
0-450mm/18"	0.0005"/0.01mm	621-7845
0-600mm/24"	0.0005"/0.01mm	621-7847

Outside Micrometers

- Deluxe heat insulated forged steel frame up to 6".
- Tubular steel frame (6" and up).
- Complete with standards (2" and up).
- Carbide tipped anvils.
- Ratchet stop and lock nut for exact and repetitive reading.



Range	Grad.	Painted Order No.	Chrome-Plated Order No.
0-1"	.001"	600-0001	601-0001
1-2"	.001"	600-0002	601-0002
2-3"	.001"	600-0003	601-0003
3-4"	.001"	600-0004	601-0004
4-5"	.001"	600-0015	601-0005
5-6"	.001"	600-0016	601-0006
6-7"	.001"	600-0017	601-0007
7-8"	.001"	600-0018	601-0008
8-9"	.001"	600-0009	
9-10"	.001"	600-0010	
10-11"	.001"	600-0011	
11-12"	.001"	600-0012	

Range	Grad.	Painted Order No.	Chrome-Plated Order No.
0-1"	.0001"	600-0111	601-0111
1-2"	.0001"	600-0112	601-0112
2-3"	.0001"	600-0113	601-0113
3-4"	.0001"	600-0114	601-0114
4-5"	.0001"	600-0125	601-0115
5-6"	.0001"	600-0126	601-0116
6-7"	.0001"	600-0127	601-0117
7-8"	.0001"	600-0128	601-0118
8-9"	.0001"	600-0119	
9-10"	.0001"	600-0210	
10-11"	.0001"	600-0211	
11-12"	.0001"	600-0212	

Range	Grad.	Painted Order No.	Chrome-Plated Order No.
0-25mm	.001mm	600-5025	601-5025
25-50mm	.001mm	600-5050	601-5050
50-75mm	.001mm	600-5075	601-5075
75-100mm	.001mm	600-5100	601-5100
0-13mm	.01mm		601-A013
0-25mm	.01mm	600-4025	601-4025
25-50mm	.01mm	600-4050	601-4050
50-75mm	.01mm	600-4075	601-4075
75-100mm	.01mm	600-4100	601-4100
100-125mm	.01mm	600-4125	601-4125
125-150mm	.01mm	600-4150	601-4150
150-175mm	.01mm	600-4175	601-4175
175-200mm	.01mm	600-4200	601-4200

Outside Micrometer Sets

Horizontal Packing

- Ratchet and lock nut.
- Complete with standards (2" and up).
- Carbide tipped anvils.
- Forged steel frame up to 6".
- Tubular steel frame (6" and up).



Piece	Range	Grad.	Painted Order No.	Chrome-Plated Order No.	Grad.	Painted Order No.	Chrome-Plated Order No.
3Pcs/set	0-3"	.001"	600-1003	601-1003	.0001"	600-1013	601-1013
4Pcs/set	0-4"	.001"	600-1004	601-1004	.0001"	600-1014	601-1014

Piece	Range	Grad.	Painted Order No.	Chrome-Plated Order No.
3Pcs/set	0-75mm	.01mm	600-1023	601-1023
4Pcs/set	0-100mm	.01mm	600-1024	601-1024

Vertical Packing

- Ratchet and lock nut.
- Complete with standards (2" and up).
- Carbide tipped anvils.
- Forged steel frame up to 6".
- Tubular steel frame (6" and up).



Piece	Range	Grad.	Painted Order No.	Chrome-Plated Order No.	Grad.	Painted Order No.	Chrome-Plated Order No.
3Pcs/set	0-3"	.001"	600-H003	601-1003	.0001"	600-H013	601-1013
4Pcs/set	0-4"	.001"	600-H004	601-1004	.0001"	600-H014	601-1014
6Pcs/set	0-6"	.001"	600-1006	601-1006	.0001"	600-1016	601-1016
6Pcs/set	6-12"	.001"	600-1009		.0001"	600-1019	
12Pcs/set	0-12"	.001"	600-1012		.0001"	600-1122	

Piece	Range	Grad.	Painted Order No.	Chrome-Plated Order No.
3Pcs/set	0-75mm	.001mm	600-H023	601-H023
4Pcs/set	0-100mm	.001mm	600-H024	601-H024
6Pcs/set	0-150mm	.01mm	600-1026	601-1026
12Pcs/set	0-300mm	.01mm	600-1212	
4Pcs/set	100-200mm	.01mm	600-1126	
6Pcs/set	150-300mm	.01mm	600-1029	
4Pcs/set	200-300mm	.01mm	600-1129	

Outside Micrometer

Chrome, Equivalent Chart

- Satin-chrome finish
- Carbide measuring faces
- Convertible "friction" to "feel" thimble sleeve
- Spindle locks are standard
- 1-2" and 3-3" models have insulated frames

Range	Grad.	Order No.
0-1"	0.0001"	601-0501
1-2"	0.0001"	601-0502
0-25mm	0.01mm	601-0525
25-50	0.01	601-0550



Parallax Free Outside Micrometers

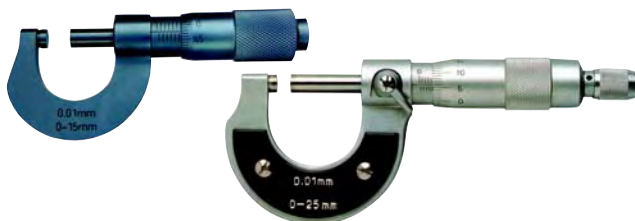
- No parallax error sleeve scale.
- Ratchet friction thimble.



Range	Painted .0001" Order No.	Chrome-Plated .0001" Order No.	Chrome-Plated .00005" Order No.
0-1"	600-9141	601-9141	601-9101
1-2"	600-9142	601-9142	601-9112
2-3"	600-9143	601-9143	601-9123
3-4"	600-9144	601-9144	
4-5"	600-9145	601-9145	
5-6"	600-9146	601-9146	
6-7"	600-9147	601-9147	
7-8"	600-9148	601-9148	

Range	Grad.	Painted Order No.	Chrome-Plated Order No.
0-15mm	.002mm		601-9140
0-25mm	.001mm	600-9130	601-9130
25-50mm	.001mm	600-9131	601-9131
50-75mm	.001mm	600-9132	601-9132
75-100mm	.001mm	600-9133	601-9133
100-125mm	.001mm	600-9134	601-9134
125-150mm	.001mm	600-9135	601-9135
150-175mm	.001mm	600-9136	601-9136
175-200mm	.001mm	600-9137	601-9137

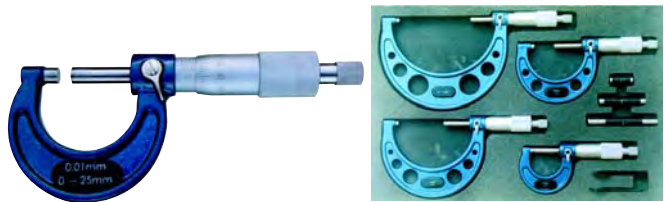
A-Type Outside Micrometers



Range	Grad.	Chrom-Plated Order No.
0-15mm	.01mm	601-A013
0-25mm	.01mm	601-A025
0-0.6"	.001"	601-1001
0-1"	.001"	601-A001
0-1"	.0001"	601-A011

C-Type Outside Micrometers & Sets

- Ratchet stop.
- Complete with standards (2" and up).



Inch Individuals

Range	.001" Order No.	.0001" Order No.
0-1"	600-C001	600-C011
1-2"	600-C002	600-C012
2-3"	600-C003	600-C013
3-4"	600-C004	600-C014
4-5"		600-C015
5-6"		600-C016

Metric Individuals

Range	Grad.	Order No.
0-25mm	.01mm	600-C025
25-50mm	.01mm	600-C050
50-75mm	.01mm	600-C075
75-100mm	.01mm	600-C100
100-125mm	.01mm	600-C125
125-150mm	.01mm	600-C150

Inch Sets

Pcs	Range	Grad.	Order No.
3	0-3"	.0001"	600-C403
4	0-4"	.0001"	600-C404
6	0-6"	.0001"	600-C406

Metric Sets

Pcs	Range	Grad.	Order No.
3	0-75mm	.01mm	600-C303
4	0-100mm	.01mm	600-C304
6	0-150mm	.01mm	600-C306

Outside Micrometers

- Precise frame and big styles for direct and easy reading.
- Inside force-limited device for precise repeated reading.
- Adiabatic frame and one-hand high precision measuring for verity measurement.
- Carbide measuring faces for enduring stability.



Range	Graduation	Accuracy	Order No.
0-25mm	0.001mm	0.004mm	600-0131
25-50mm	0.001mm	0.004mm	600-0132
50-75mm	0.001mm	0.005mm	600-0133
75-100mm	0.001mm	0.005mm	600-0144



Range	Graduation	Accuracy	Order No.
100-150mm	0.001mm	0.006mm	600-0145
150-200mm	0.001mm	0.007mm	600-0146
200-250mm	0.001mm	0.007mm	600-0147
250-300mm	0.001mm	0.008mm	600-0148

Digital Outside Micrometers

- Ratchet stop.
- Carbide tipped anvils.
- Positive locking nut.
- Clear graduations on satin chrome finished thimble.



Range	.001"	.0001"	Range	.01mm	.001mm
	Order No.	Order No.		Order No.	Order No.
0-1"	600-3001	600-3011	0-25mm	600-3025	601-9225
1-2"	600-3002	600-3012	25-50mm	600-3050	601-9250
2-3"	600-3003	600-3013	50-75mm	600-3075	601-9275
3-4"	600-3004	600-3014	75-100mm	600-3100	601-9300
4-5"	600-3005	600-3015	100-125mm	600-3125	
5-6"	600-3006	600-3016	125-150mm	600-3150	
6-7"	600-3007	600-3017	150-175mm	600-3175	
7-8"	600-3008	600-3018	175-200mm	600-3200	
8-9"	600-3009	600-3019	200-225mm	600-3225	
9-10"	600-3010	600-3020	225-250mm	600-3250	
10-11"	600-3111	600-3021	250-275mm	600-3270	
11-12"	600-3112	600-3022	275-300mm	600-3272	

Digital Outside Micrometer Sets

- 0-3"(0-75mm) & 0-4"(0-100mm):
Horizontal packing, 0-6"(0-150mm), 0-12"(0-300mm) & 6-12"(150-300mm):
Vertical packing.



Piece	Range	Wooden Case		Plastic Case
		.001"	.0001"	.0001"
		Order No.	Order No.	Order No.
3-pc set	0-3"	600-3203		600-3213
4-pc set	0-4"	600-3204		600-3214
6-pc set	0-6"	600-3206	600-3216	
6-pc set	6-12"	600-3207	600-3217	
12-pc set	0-12"	600-3208	600-3218	

Piece	Range	Wooden Case	Plastic Case
		.01mm	.01mm
		Order No.	Order No.
3-pc set	0-75mm		600-3275
4-pc set	0-100mm		600-3300
6-pc set	0-150mm	600-3350	
6-pc set	150-300mm	600-3355	
12-pc set	0-300mm	600-3360	

Limit Micrometers

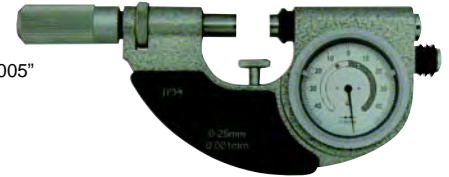
- Can be used GO/NC as gage by setting the upper and lower limits
- Carbide measuring faces.
- Painted frame
- Resolution: 0.002mm(metric),
0.0001"(inch)



Range	Grad.	Order No.
0-1"	.00005"	600-7331
1-2"	.00005"	600-7332
0-25mm	.001mm	600-7333
25-50mm	.001mm	600-7334

IP54 Indicator Snap Micrometers

- Protection level IP54
- Carbide measuring faces: dia.10
- Direct GO/NG justment for mass-produced part
- Painted frame
- Indicator Range:
+/-0.004mm(Metric),
+/-0.0015"(Inch)
- Resolution:0.001mm/0.0005"



Range	Graduation	Dial Scale	Order No.
0-1"	.00005"	-15~0~+15	600-0541
1-2"	.00005"	-15~0~+15	600-0542
0-25mm	.001mm	-40~0~+40	600-0543
25-50mm	.001mm	-40~0~+40	600-0544

Indicator Micrometers

- Carbide faces.
- Chrome-plated frame.
- Premium quality.
- Can be used as a Go/ No Go gage.



Range	Graduation	Dial Scale	Order No.
0-1"	.00005"	-15~0~+15	600-0501
1-2"	.00005"	-15~0~+15	600-0502
0-25mm	.001mm	-40~0~+40	600-0511
25-50mm	.001mm	-40~0~+40	600-0512



Range	Graduation	Dial Scale	Order No.
0-1"	.00005"	-15~0~+15	600-0521
1-2"	.00005"	-15~0~+15	600-0522
0-25mm	.001mm	-40~0~+40	600-0531
25-50mm	.001mm	-40~0~+40	600-0532

Digital Outside Micrometer

2 Key Model

- Large LCD display.
- Zero setting at any position.
- mm/ABS/INC conversion.
- Manual power on/off.

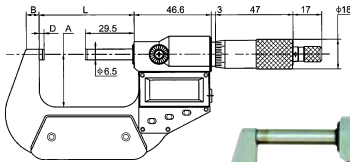


Range	Grad.	Order No.
0-1"/25mm	0.0005"/0.01mm	600-8081
1-2"/25-50mm	0.0005"/0.01mm	600-8082

Digital Outside Micrometers

IP54 & IP65, Water Proof

- Display data is origin data of absolute measurement after changing battery.
 - Carbide measuring faces. Painted frame.
- Criterion: DIN863/1, DIN40050/IEC529.
- Resolution of digit: 0.001mm(Metric); 0.00005"(Inch).
- Resolution of micrometer heads: 0.01mm(Metric); 0.0001"(Inch).



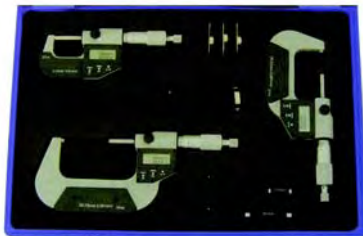
Dimensions

Range		A	L	B	D
Metric	Inch				
0-25mm	0-1"	24.0mm	32.5mm	6mm	3.0mm
25-50mm	1-2"	32.0mm	57.5mm	8mm	3.0mm
50-75mm	2-3"	45.5mm	82.5mm	8mm	3.0mm
75-100mm	3-4"	57.0mm	107.5mm	8mm	3.0mm
100-125mm	4-5"	70.0mm	133.0mm	10mm	3.0mm
125-150mm	5-6"	82.0mm	158.5mm	10mm	3.0mm

Range	Accuracy	IP54		IP65	
		Order No.	Accuracy	Order No.	Accuracy
0-25mm	0.002mm	600-8091	0.001mm	600-8121	
25-50mm	0.002mm	600-8092	0.001mm	600-8122	
50-75mm	0.003mm	600-8093	0.001mm	600-8123	
75-100mm	0.003mm	600-8094	0.002mm	600-8124	
100-125mm	0.003mm	600-8095	0.002mm	600-8125	
125-150mm	0.003mm	600-8096	0.002mm	600-8126	

Range	Accuracy	IP54		IP65	
		Order No.	Accuracy	Order No.	Accuracy
0-1"	0.004mm	600-8141	0.001mm	600-8161	
1-2"	0.004mm	600-8142	0.001mm	600-8162	
2-3"	0.005mm	600-8143	0.001mm	600-8163	
3-4"	0.005mm	600-8144	0.002mm	600-8164	
4-5"	0.006mm	600-8145	0.002mm	600-8165	
5-6"	0.006mm	600-8146	0.002mm	600-8166	

Micrometers Sets



IP54

Range	Order No.
0-75mm	600-1041
0-100mm	600-1042
0-150mm	600-1043

Range	Order No.
0-3"	600-1044
0-4"	600-1045
0-6"	600-1046

IP65

Range	Order No.
0-75mm	600-1051
0-100mm	600-1052
0-150mm	600-1053

Range	Order No.
0-3"	600-1054
0-4"	600-1055
0-6"	600-1056

Digital Outside Micrometers

5 Key Model

- 5 keys Positive-designed electronic micrometer head.
- Large LCD.
- Absolute and incremental conversion.
- Friction thimble (Ratchet friction thimble available).
- Data holding and Tolerance setting.
- SPC output.



Range	Graduation	Order No.
0-1"/0-25mm	.00005"/.001mm	600-8005
1-2"/25-50mm	.00005"/.001mm	600-8006
2-3"/50-75mm	.00005"/.001mm	600-8007
3-4"/75-100mm	.00005"/.001mm	600-8008
4-5"/100-125mm	.00005"/.001mm	600-8015
5-6"/125-150mm	.00005"/.001mm	600-8016
6-7"/150-175mm	.00005"/.001mm	600-8017
7-8"/175-200mm	.00005"/.001mm	600-8018

Micrometers Sets

Range	Order No.
0-3"/0-75mm	600-1037
0-4"/0-100mm	600-1038
0-6"/0-150mm	600-1039



Digital Outside Micrometers

Double Function Keys

- Easy to operation
- Display data is origin data of absolute measurement after changing battery.
- Painted frame .
- Carbide measuring faces
- Resolution:
0.001mm(Metric),
0.0005"(Inch)



Range	Order No.
0-1"	600-8171
1-2"	600-8172
2-3"	600-8173
3-4"	600-8174
4-5"	600-8175
5-6"	600-8176
6-7"	600-8177
7-8"	600-8178

Range	Order No.
0-25mm	600-8181
25-50mm	600-8182
50-75mm	600-8183
75-100mm	600-8184
100-125mm	600-8185
125-150mm	600-8186
150-175mm	600-8187
175-200mm	600-8188

Micrometers Sets



Range	Order No.
0-3"	600-1031
0-4"	600-1032
0-6"	600-1033

Range	Order No.
0-75mm	600-1034
0-100mm	600-1035
0-150mm	600-1036

Digital Outside Micrometers

2-Key Model

- LCD display.
- Carbide tipped anvils.
- Ratchet stop.
- Enamel finish for frame.
- Battery 1 year life time.



Range	Graduation	Order No.
0-1"/0-25mm	.00005"/.001mm,	600-8001
1-2"/25-50mm	.00005"/.001mm,	600-8002
2-3"/50-75mm	.00005"/.001mm,	600-8003
3-4"/75-100mm	.00005"/.001mm,	600-8004

3-Key Model

- on/off
- Metric/inch conversion
- Origin resetting
- Data Output



Range	Graduation	Order No.
0-1"/0-25mm	.00005"/.001mm	600-8025
1-2"/25-50mm	.00005"/.001mm	600-8026
2-3"/50-75mm	.00005"/.001mm	600-8027
3-4"/75-100mm	.00005"/.001mm	600-8028

7 Key Model

- Auto power on/off.
- Data hold function.
- Relative and absolute measurement.
- Ratchet stop.
- Tolerance setting functions.
- Zero setting at any position.



Range	Graduation	Order No.
0-1"/0-25mm	.00005"/.001mm	600-8031
1-2"/25-50mm	.00005"/.001mm	600-8032
2-3"/50-75mm	.00005"/.001mm	600-8033
3-4"/75-100mm	.00005"/.001mm	600-8034
4-5"/100-125mm	.00005"/.001mm	600-8035
5-6"/125-150mm	.00005"/.001mm	600-8036
6-7"/150-175mm	.00005"/.001mm	600-8037
7-8"/175-200mm	.00005"/.001mm	600-8039

IP54, Water Proof

- The water proof digital outside micrometer's degree of protection is IP 54.
- Zero setting at any position.
- Metric/inch system conversion at any position.
- Friction thimble.



2 Key

Range	Graduation	Order No.
0-1"/0-25mm	.000005"/.0001mm	600-8051
1-2"/25-50mm	.000005"/.0001mm	600-8052
2-3"/50-75mm	.000005"/.0001mm	600-8053
3-4"/75-100mm	.000005"/.0001mm	600-8054

3 Key

Range	Graduation	Order No.
0-1"/0-25mm	.00005"/.001mm	600-8071
1-2"/25-50mm	.00005"/.001mm	600-8072
2-3"/50-75mm	.00005"/.001mm	600-8073
3-4"/75-100mm	.00005"/.001mm	600-8071

Digital Outside Micrometers

2 Key Model

- Value presetting.
- The ratchet stop still works even with one hand operation, while regular micrometers don't.
- Absolute and incremental measurement mode switching.
- Less buttons and multi-function.



B-Type

Range	Graduation	Order No.
0-1"/25mm	.00005"/.001mm	600-8055
1-2"/25-50mm	.00005"/.001mm	600-8056
2-3"/50-75mm	.00005"/.001mm	600-8057
3-4"/75-100mm	.00005"/.001mm	600-8058



C-Type

Range	Graduation	Order No.
0-1"/25mm	.00005"/.001mm	600-8061
1-2"/25-50mm	.00005"/.001mm	600-8062
2-3"/50-75mm	.00005"/.001mm	600-8063
3-4"/75-100mm	.00005"/.001mm	600-8064
4-5"/100-125mm	.00005"/.001mm	600-8065
5-6"/125-150mm	.00005"/.001mm	600-8066

Micrometer Stands

Turns an outside micrometer into a handy bench gage. The micrometer frame is gripped firmly in a tilting head between two nylon pads tightened by a knurled thumb screw. Ball joint construction allows the tilting head to be positioned as much as 45 degrees off perpendicular in any direction, and a positive locking device secures it in position when a knurled thumb screw on the base is turned. Cast iron with black wrinkle finish.

- Clamping capacity 3/8"
- Base size 5-3/8x3" x 3/4"
- Overall height 3-3/8"
- The replaceable nylon pads in the tilting bracket are 15/32" diameter x 3/16" Thick.



Order No. 600-1010

Digital Micrometer and Base Sets



Pieces	Specifications	Individual Order No.	Set Order No.
2 Pcs/set	0-1"/0-25mm 2keys Ele. Micrometer Adj. Micrometer Stand	600-8001 600-0105	135-2012
2 Pcs/set	0-1"/0-25mm 5keys Ele. Micrometer Adj. Micrometer Stand	600-8005 600-0105	135-2015
2 Pcs/set	0-1"/0-25mm 7keys Ele. Micrometer Adj. Micrometer Stand	600-8031 600-0105	135-2017

Interchangeable Anvil Outside Micrometers

12"/300 Lower Range Model

- Packed standards in a fitted case.
- Ratchet stop and lock nut.
- High accuracy interchangeable measuring anvils.
- Carbide measuring anvils .
- Laser engraved graduations.
- Enamel frame.

Replacement Anvil

Range	Order No.
1"	600-0021
2"	600-0022
3"	600-0023
4"	600-0024
5"	600-0025

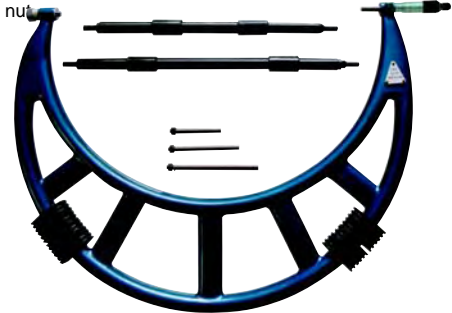


Range	Grad.	Order No.
0-2"	.0001"	600-9412
2-4"	.0001"	600-9417
2-6"	.0001"	600-9418
0-4"	.0001"	600-9414
4-8"	.0001"	600-9419
0-6"	.0001"	600-9416
6-12"	.0001"	600-9411
8-12"	.0001"	600-9410

Range	Grad.	Order No.
0-50mm	.01mm	600-9403
50-100mm	.01mm	600-9405
50-150mm	.01mm	600-9409
0-150mm	.01mm	600-9406
150-300mm	.01mm	600-9402
0-100mm	.01mm	600-9404
100-200mm	.01mm	600-9407
200-300mm	.01mm	600-9408
200-250mm	.01mm	600-9021
250-300mm	.01mm	600-9022

12"/300mm Upper Range Model

- Pipe combined steel frame provides lightness plus extreme rigidity for perfect balance.
- With standards in a fitted case.
- Carbide measuring faces.
- Ratchet stop and lock nut.



Range	Grad.	Order No.
12-16"	.001"	600-9301
16-20"	.001"	600-9302
20-24"	.001"	600-9303
24-28"	.001"	600-9304
28-32"	.001"	600-9305
32-36"	.001"	600-9306
36-40"	.001"	600-9307

Range	Grad.	Order No.
300-400mm	.01mm	600-9001
400-500mm	.01mm	600-9002
500-600mm	.01mm	600-9003
600-700mm	.01mm	600-9004
700-800mm	.01mm	600-9005
800-900mm	.01mm	600-9006
900-1000mm	.01mm	600-9007

Electronic Interchangeable Anvil Micrometers

12"/300 Lower Range Model

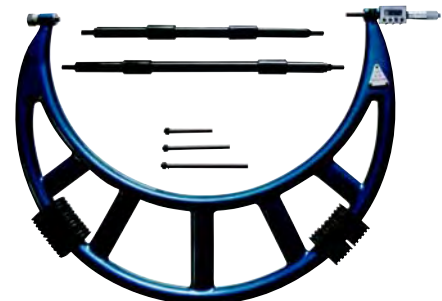
- Friction thimble (ratchet friction thimble available).
- With 5 keys Deluxe Model micrometer head.
- Painted frame.



Range	Graduation	Order No.
0-2"/0-50mm	0.00005"/0.001mm	600-9421
2-4"/50-100mm	0.00005"/0.001mm	600-9424
0-4"/0-100mm	0.00005"/0.001mm	600-9422
4-8"/100-200mm	0.00005"/0.001mm	600-9425
0-6"/0-150mm	0.00005"/0.001mm	600-9423
6-12"/150-300mm	0.00005"/0.001mm	600-9426
8-12"/200-300mm	0.00005"/0.001mm	600-9427

Electronic 12"/300mm Upper Range Model

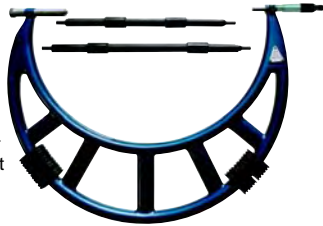
- 7keys Positive-designed electronic micrometer head.
- Large and clear LCD.



Range	Graduation	Order No.
12-16"/300-400mm	0.00005"/0.001mm	600-9321
16-20"/400-500mm	0.00005"/0.001mm	600-9322
20-24"/500-600mm	0.00005"/0.001mm	600-9323
24-28"/600-700mm	0.00005"/0.001mm	600-9324
28-32"/700-800mm	0.00005"/0.001mm	600-9325
32-36"/800-900mm	0.00005"/0.001mm	600-9326
36-40"/900-1000mm	0.00005"/0.001mm	600-9327

Adjustable Anvil Micrometers

- High accuracy standard collars enable that reading does not have to be reset when changing collars.
- Standard collars: 25mm/1", 50mm/2" (within 1000mm/40"); 50mm/2", 100mm/4", (over 1000mm/40").
- Carbide tipped anvils, painted frame.
- Pipe combined frame for light weight and high rigidity.



Range	Grad.	Order No.
12-16"	.001"	600-9901
16-20"	.001"	600-9902
20-24"	.001"	600-9903
24-28"	.001"	600-9904
28-32"	.001"	600-9905
32-36"	.001"	600-9906
36-40"	.001"	600-9907
40-48"	.001"	600-9308
18-56"	.001"	600-9309
56-64"	.001"	600-9310
64-72"	.001"	600-9311
72-80"	.001"	600-9312
80-88"	.001"	600-9313
88-96"	.001"	600-9314
96-104"	.001"	600-9315
104-112"	.001"	600-9316
112-120"	.001"	600-9317

Range	Grad.	Order No.
300-400mm	.01mm	600-9801
400-500mm	.01mm	600-9802
500-600mm	.01mm	600-9803
600-700mm	.01mm	600-9804
700-800mm	.01mm	600-9805
800-900mm	.01mm	600-9806
900-1000mm	.01mm	600-9807
1000-1200mm	.01mm	600-9008
1200-1400mm	.01mm	600-9009
1400-1600mm	.01mm	600-9010
1600-1800mm	.01mm	600-9011
1800-2000mm	.01mm	600-9012
2000-2200mm	.01mm	600-9013
2200-2400mm	.01mm	600-9014
2400-2600mm	.01mm	600-9015
2600-2800mm	.01mm	600-9016
2800-3000mm	.01mm	600-9017

Quick Feeding Outside Micrometers

- Quick feeding.
- Carbide measuring faces.
- Positive locking clamp.
- Ratchet friction thimble (ratchet stop available).



Range	Grad.	Painted		Chrome-Plated	
		Order No.	Order No.	Order No.	Order No.
0-1"	.0005"	600-8201	601-8201	601-8201	
1-2"	.0005"	600-8202	601-8202	601-8202	
2-3"	.0005"	600-8203	601-8203	601-8203	
3-4"	.0005"	600-8204	601-8204	601-8204	
4-5"	.0005"	600-8205	601-8205	601-8205	
5-6"	.0005"	600-8206	601-8206	601-8206	
6-7"	.0005"	600-8207	601-8207	601-8207	
7-8"	.0005"	600-8208	601-8208	601-8208	

Range	Grad.	Painted		Chrome-Plated	
		Order No.	Order No.	Order No.	Order No.
0-25mm	.01mm	600-8221	601-8221	601-8221	
25-50mm	.01mm	600-8222	601-8222	601-8222	
50-75mm	.01mm	600-8223	601-8223	601-8223	
75-100mm	.01mm	600-8224	601-8224	601-8224	
100-125mm	.01mm	600-8225	601-8225	601-8225	
125-150mm	.01mm	600-8226	601-8226	601-8226	
150-175mm	.01mm	600-8227	601-8227	601-8227	
175-200mm	.01mm	600-8228	601-8228	601-8228	

Multi-Anvil Micrometers

- Chrome-Plated frame.
- Carbide-tipped spindle.
- Friction thimble for exact repetitive readings.
- Interchangeable anvils permit quick accurate measurement of tubing, cylindrical walls, from a hole or slot to an edge, and many hard-to-reach locations.

Accessories

Name	Order No.
Flat Anvil	600-0801
Rod Anvil	600-0802



Range	.001"	.0001"
Order No.	Order No.	Order No.
0-1"	600-1501	600-1511
1-2"	600-1502	600-1512

Range	Graduation	Order No.
0-25mm	.01mm	600-1525
25-50mm	.01mm	600-1550

Electronic Multi-Anvil Micrometers

- Chrome-Plated frame.
- With 3 keys deluxe model micrometer head.



IP54

Range	Graduation	Order No.
0-1"/0-25mm	0.00005"/0.001mm	600-1521
1-2"/25-50mm	0.00005"/0.001mm	600-1522

Screw Thread Micrometers

- Either 60° or 55° V-Anvil and conical spindle are made of high-grade special steel.
- Ratchet friction thimble (ratchet stop or friction thimble available).
- Laser engraved graduations.
- Enamel frame.



Range	.001"	Order No.
0-1"	600-7801	
1-2"	600-7802	
2-3"	600-7803	
3-4"	600-7804	
4-5"	600-7805	
5-6"	600-7806	

Range	0.01mm	Order No.
0-25mm	600-8825	
25-50mm	600-8850	
50-75mm	600-8875	
75-100mm	600-8900	
100-125mm	600-8925	
125-150mm	600-8950	

Digital Screw Thread Micrometers

- Either 60° or 55° V-Anvil and conical spindle are made of high-grade special steel.
- Painted frame.



IP54

Range	.00005"	Order No.
0-1"	600-7811	
1-2"	600-7812	
2-3"	600-7813	
3-4"	600-7814	
4-5"	600-7815	
5-6"	600-7816	

Range	0.001mm	Order No.
0-25mm	600-8851	
25-50mm	600-8852	
50-75mm	600-8853	
75-100mm	600-8954	
100-125mm	600-8955	
125-150mm	600-8956	

Disc Brake Micrometers

- For measuring the depth of grooves on the Disc Brake.
- Carbide measuring face with 60 degree point.
- Ratchet stop (friction thimble or ratchet friction thimble available)



Range	Grad.	Order No.
1-2"	.0001"	600-7080
.3-1.3"	.0001"	600-7099

Range	Grad.	Order No.
7.6-33mm	.01mm	600-7082
25-50mm	.01mm	600-7084

Digital Disc Brake Micrometers

- To measure the depth of grooves on the disc brake.
- Carbide tipped measuring faces.
- Metric/Inch system conversion at any position.
- Zero setting at any position.
- With data output interface.
- Accuracy: +/- .004mm



Range	Grad.	Order No.
.3-1.3"	.00005"	600-7092
1-2"	.00005"	600-7094

Range	Grad.	Order No.
7.6-33mm	.0001mm	600-7096
25-50mm	.0001mm	600-7098

Universal Micrometers

- Enamel frame.
- Positive lever locking nut.
- Laser engraved graduations.
- Ratchet friction thimble.
- 7 pairs of interchangeable anvils (flat, spherical, spline, disk, blade, Point and knife-edge) for a wide range of applications.



Range	Grad.	Order No.
0-1"	.001"	600-1551
1-2"	.001"	600-1552
2-3"	.001"	600-1553
3-4"	.001"	600-1554
4-5"	.001"	600-1555
5-6"	.001"	600-1556
6-7"	.001"	600-1557
7-8"	.001"	600-1558

Range	Grad.	Order No.
0-25mm	.01mm	600-1531
25-50mm	.01mm	600-1532
50-75mm	.01mm	600-1533
75-100mm	.01mm	600-1534
100-125mm	.01mm	600-1535
125-150mm	.01mm	600-1536
150-175mm	.01mm	600-1537
175-200mm	.01mm	600-1538

Electronic Universal Micrometers

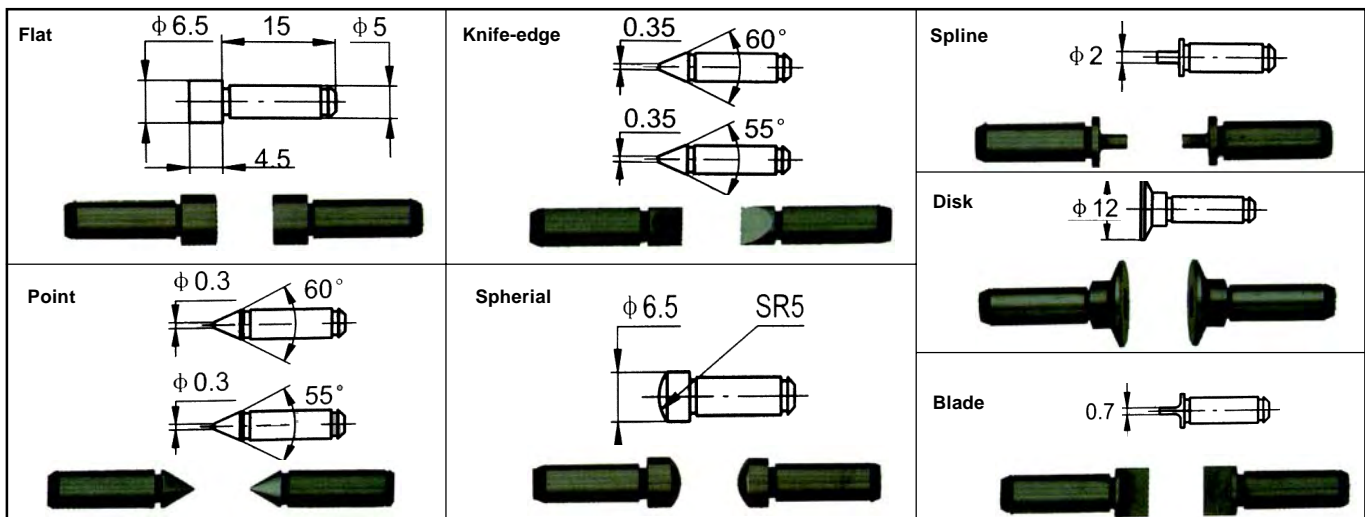
- Friction thimble (ratchet friction thimble available).
- Chrome-plated frame.
- With 5 keys Deluxe Model micrometer head.



Range	Grad.	Order No.
0-1"	0.00005"	600-1541
1-2"	0.00005"	600-1542
2-3"	0.00005"	600-1543
3-4"	0.00005"	600-1544
4-5"	0.00005"	600-1545
5-6"	0.00005"	600-1546
6-7"	0.00005"	600-1547
7-8"	0.00005"	600-1548

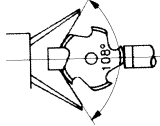
Range	Grad.	Order No.
0-25mm	.001mm	600-1561
25-50mm	.001mm	600-1562
50-75mm	.001mm	600-1563
75-100mm	.001mm	600-1564
100-125mm	.001mm	600-1565
125-150mm	.001mm	600-1566
150-175mm	.001mm	600-1567
175-200mm	.001mm	600-1568

Universal Interchangeable Anvils



V-Anvil Micrometers

- Measuring diameter of cylinder with an odd number flutes such as taps,reamers and end mills.
- Ratchet stop (friction thimble or ratchet friction thimble available).
- Laser engraved graduations.
- Enamel frame.



60° V-Anvil micrometer 3 flute

Range	.001" Order No.
.04 to .6"	600-9111
.2 to .8"	600-9112
.8 to 1.4"	600-9113
1.4 to 2 ₁ "	600-9114
2 to 2.6"	600-9115
2.6 to 3.2"	600-9116

Range	0.01mm Order No.
1-15mm	600-9101
5-20mm	600-9102
20-35mm	600-9103
35-50mm	600-9104
50-65mm	600-9105
65-80mm	600-9106

108° V-Anvil micrometer 5 flute

Range	.001" Order No.
.2 to 1"	600-9117
1 to 1.8"	600-9118
1.8 to 2.6"	600-9119
2.6 to 3.4"	600-9120

Range	0.01mm Order No.
5-25mm	600-9107
25-45mm	600-9108
45-65mm	600-9109
65-85mm	600-9110

108° V-Anvil micrometer 7flute

Range	.001" Order No.
.2 to 1"	600-9121
1 to 1.8"	600-9122
1.8 to 2.6"	600-9123
2.6 to 3.4"	600-9124

Range	0.01mm Order No.
5-25mm	600-9125
25-45mm	600-9126
45-65mm	600-9127
65-85mm	600-9128

Disc Micrometers

- Easy to measure tooth width of straight or bevel wheel, and small thickness.
- Inside force-limited device for precise repeated reading.
- Adiabatic frame and one-hand high precision measuring for verity measurement.
- Spindle made of special steel to ensure high precision and stability.

Range	Grad.	Order No.
0-25mm	0.001mm	600-7061
25-50mm	0.001mm	600-7062
50-75mm	0.001mm	600-7063
75-100mm	0.001mm	600-7064



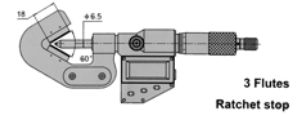
Point Micrometers

- Pointed spindle and anvil for measuring the web thickness of drills, small grooves, keyways, and other hard-to-reach dimintions.
- Spindle made of special steel to ensure high precision and stability.
- Inside force-limited device for precise repeated reading.

Range	Grad.	Order No.
0-25mm	0.001mm	600-6711
25-50mm	0.001mm	600-6712
50-75mm	0.001mm	600-6713
75-100mm	0.001mm	600-6714



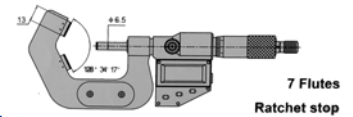
Digital V-Anvil Micrometers



60° V-Anvil micrometer 3 flute

Range	.00005" Order No.
.04 to .6"	600-9151
.2 to .8"	600-9152
.8 to 1.4"	600-9153
1.4 to 2"	600-9154
2 to 2.6"	600-9155
2.6 to 3.2"	600-9156
3.2 to 3.8"	600-9157
0.09 to 1"	600-9158
1 to 2"	600-9159

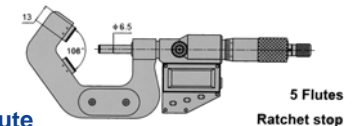
Range	Order No.
1-15mm	600-9161
5-20mm	600-9162
20-35mm	600-9163
35-50mm	600-9164
50-65mm	600-9165
65-80mm	600-9166
80-95mm	600-9167
2.3-25mm	600-9168
25-50mm	600-9169



108° V-Anvil micrometer 5 flute

Range	.00005" Order No.
.2 to 1"	600-9171
1 to 1.8"	600-9172
1.8 to 2.6"	600-9173
2.6 to 3.4"	600-9174
3.4 to 4.2"	600-9175

Range	Order No.
5-25mm	600-9176
25-45mm	600-9177
45-65mm	600-9178
65-85mm	600-9179
85-105mm	600-9180



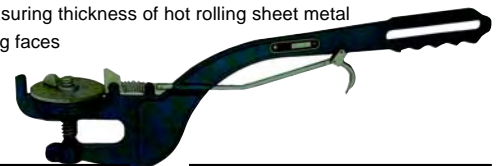
108° V-Anvil micrometer 7flute

Range	.00005" Order No.
.2 to 1"	600-9181
1 to 1.8"	600-9182
1.8 to 2.6"	600-9183
2.6 to 3.4"	600-9184

Range	Order No.
5-25mm	600-9185
25-45mm	600-9186
45-65mm	600-9187
65-85mm	600-9188

Hot Sheet Micrometers

- Designed for measuring thickness of hot rolling sheet metal
- Carbide measuring faces
- Painted frame



Range	.002" Order No.
0.06"	600-9381
0.6-1.2"	600-9382
1.2-1.8"	600-9383
1.8-2.4"	600-9384
2.4-3.0"	600-9385
3.0-3.6"	600-9386
3.6-4.2"	600-9387

Range	0.05mm Order No.
0-15mm	600-9388
15-30mm	600-9389
30-45mm	600-9390
45-60mm	600-9391
60-75mm	600-9392
75-90mm	600-9393
90-105mm	600-9394

Gear Micrometers

- Chrome-Painted frame
- Resolution: inch 0.001", metric 0.01mm



Range	.001" Order No.
0-1"	600-9331
1-2"	600-9332
2-3"	600-9333
3-4"	600-9334
4-5"	600-9335
5-6"	600-9336
6-7"	600-9337

Range	0.01mm Order No.
0-25mm	600-9341
25-50mm	600-9342
50-75mm	600-9343
75-100mm	600-9344
100-125mm	600-9345
125-150mm	600-9346
150-175mm	600-9347

Digital Gear Micrometers

- Chrome-Painted frame
- Resolution: 0.0005"
- IP54



Range	.00005" Order No.
0-1"	600-9351
1-2"	600-9352
2-3"	600-9353
3-4"	600-9354
4-5"	600-9355
5-6"	600-9356
6-7"	600-9357

Range	0.001mm Order No.
0-25mm	600-9361
25-50mm	600-9362
50-75mm	600-9363
75-100mm	600-9364
100-125mm	600-9365
125-150mm	600-9366
150-175mm	600-9367

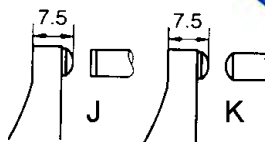


Interchangeable Tips (Optional)

Ball Dia.	Module	Diometral Pitch	Order No.
1mm	0.6-0.65	45	600-9370
1.5mm	0.9-1.0	28-26	600-9371
2.0mm	1.25	22	600-9372
2.5mm	1.5	17	600-9373
3.0mm	1.75	15	600-9374
3.5mm	2	13	600-9375
4.0mm	2.25	11	600-9376
4.5mm	2.5	10	600-9377
5.0mm	2.75	9	600-9378
6.0mm	3.5	7	600-9379
1-6mm Sets			600-8380

Tubing Micrometers

- Ratchet stop (friction thimble or ratchet friction thimble available).
- Enamel frame.
- Carbide-tipped spherical anvil.

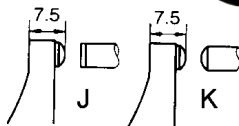


Range	Anvil Type J		Anvil Type K	
	.001" Order No.	.0001" Order No.	.001" Order No.	.0001" Order No.
0-1"	600-7644	600-7701	600-7660	600-7670
1-2"	600-7645	600-7702	600-7661	600-7671
2-3"	600-7646	600-7703	600-7662	600-7672
3-4"	600-7647	600-7704	600-7663	600-7673

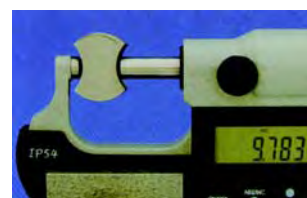
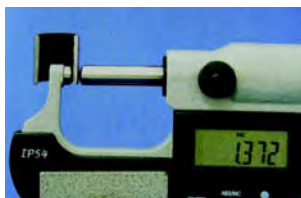
Range	Grad.	Anvil Type J Order No.	Anvil Type K Order No.
0-25mm	.01mm	600-7725	600-7685
25-50mm	.01mm	600-7750	600-7686
50-75mm	.01mm	600-7775	600-7687
75-100mm	.01mm	600-7800	600-7688

Digital Tubing Micrometers

- Chrome-plated frame.
- Friction thimble (ratchet friction thimble available).
- With 3 keys Deluxe Model micrometer head.
- IP54

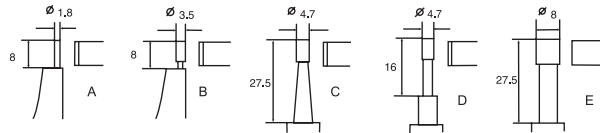


Range	Graduation	Anvil Type J Order No.	Anvil Type K Order No.
0-1"/0-25mm	.00005"/0.001mm	600-7611	600-7615
1-2"/25-50mm	.00005"/0.001mm	600-7612	600-7616
2-3"/50-75mm	.00005"/0.001mm	600-7613	600-7617
3-4"/75-100mm	.00005"/0.001mm	600-7614	600-7618



Tubing Micrometers

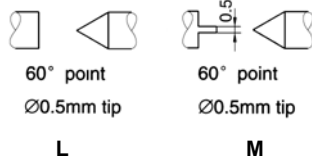
- For measuring thickness of various tubes.
- Ratchet stop.
- Carbide-tipped spindle.
- Different diameter on fixed anvils.
- Laser engraved graduations.
- Enamel frame.



Anvils						
Type	Range	Grad.	Order No.	Range	Grad.	Order No.
A	0-1"	.0001"	600-7626	0-25mm	.01mm	600-7620
A	1-2"	.0001"	600-7629	25-50mm	.01mm	600-7623
B	0-1"	.0001"	600-7627	0-25mm	.01mm	600-7621
B	1-2"	.0001"	600-7630	25-50mm	.01mm	600-7624
C	0-1"	.0001"	600-7628	0-25mm	.01mm	600-7622
C	1-2"	.0001"	600-7631	25-50mm	.01mm	600-7625
D	0-1"	.0001"	600-7650	0-25mm	.01mm	600-7664
D	1-2"	.0001"	600-7651	25-50mm	.01mm	600-7665
E	0-1"	.0001"	600-7652	0-25mm	.01mm	600-7666
E	1-2"	.0001"	600-7653	25-50mm	.01mm	600-7667

Single Point Micrometers

- Pointed Spindle and Flat or blade anvil for measuring drills, grooves and hard-to-reach dimensions.
- Enamel frame.
- Designed to measure the small recess of an electrical wire connector.
- 60° conical spindle.
- Laser engraved graduations.
- Positive lever locking clamp.



Anvil Type M

Range	Grad.	Order No.	Range	Grad.	Order No.
0-1"	.0001"	600-6680	0-25mm	.01mm	600-6671

Anvil Type L

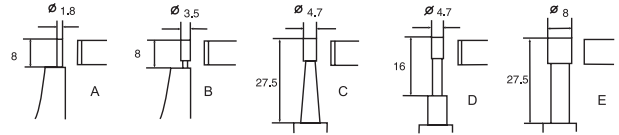
	.001"	.0001"
Range	Order No.	Order No.
0-1"	600-6651	600-6661
1-2"	600-6652	600-6662
2-3"	600-6653	600-6663
3-4"	600-6654	600-6664
4-5"	600-7305	600-7315
5-6"	600-7306	600-7316

Anvil Type L

Range	Grad.	Order No.
0-25mm	.01mm	600-6641
25-50mm	.01mm	600-6642
50-75mm	.01mm	600-6643
75-100mm	.01mm	600-6644
100-125mm	.01mm	600-7329
125-150mm	.01mm	600-7330

Digital Tubing Micrometers

- Chrome-plated frame.
- Friction thimble (ratchet frictionthimble available).
- With 5 keys Deluxe Model micrometer head.
- IP54

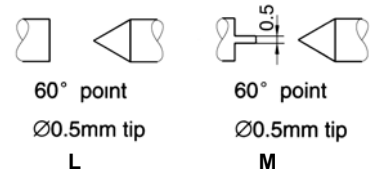


Range	Anvils Type	Graduations	Order No.
0-1"	A	0.00005"	600-7690
1-2"	A	0.00005"	600-7691
0-1"	B	0.00005"	600-7692
1-2"	B	0.00005"	600-7693
0-1"	C	0.00005"	600-7694
1-2"	C	0.00005"	600-7695
0-1"	D	0.00005"	600-7696
1-2"	D	0.00005"	600-7697
0-1"	E	0.00005"	600-7698
1-2"	E	0.00005"	600-7699

Range	Anvils Type	Graduations	Order No.
0-25mm	A	0.001mm	600-7632
25-50mm	A	0.001mm	600-7633
0-25mm	B	0.001mm	600-7634
25-50mm	B	0.001mm	600-7635
0-25mm	C	0.001mm	600-7636
25-50mm	C	0.001mm	600-7637
0-25mm	D	0.001mm	600-7640
25-50mm	D	0.001mm	600-7641
0-25mm	E	0.001mm	600-7642
25-50mm	E	0.001mm	600-7643

Digital Single Point Micrometers

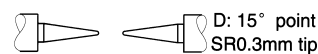
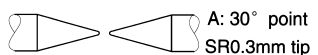
- Friction thimble (ratchet friction thimble available).
- Chrome-plated frame.
- With 5 keys micrometer head.
- Graduation .00005"/.001mm.
- IP54



Range	Anvil Type L Order No.	Anvil Type M Order No.
0-1"/0-25mm	600-6691	600-6690
1-2"/25-50mm	600-6692	
2-3"/50-75mm	600-6693	
3-4"/75-100mm	600-6694	

Point Micrometers

- Designed to measure small grooves keyways and other hard-to-reach diameters.
- Enamel frame.
- Positive lever locking clamp.



Range	Grad.	30° Point Order No.	15° Point Order No.
0-1"	.0001"	600-6611	600-6681
1-2"	.0001"	600-6612	600-6682
2-3"	.0001"	600-6613	600-6683
3-4"	.0001"	600-6614	600-6684

Range	Grad.	30° Point Order No.	15° Point Order No.
0-25mm	.01mm	600-6631	600-6676
25-50mm	.01mm	600-6632	600-6677
50-75mm	.01mm	600-6633	600-6678
75-100mm	.01mm	600-6634	600-6679

Digital Point Micrometers

- Friction Thimble (ratchet friction thimble available).
- With 3 keys Deluxe Model micrometer head.
- Chrome-plated frame.
- IP54



Range	Graduation	Order No.
0-1"/0-25mm	0.00005"/0.001mm	600-6621
1-2"/25-50mm	0.00005"/0.001mm	600-6622
2-3"/50-75mm	0.00005"/0.001mm	600-6623
3-4"/75-100mm	0.00005"/0.001mm	600-6624

Spline Micrometers

- Ideal for measuring splines, slots and keyways.
- Enamel frame.
- Carbide tipped anvils.
- Laser engraved graduations.
- Ratchet stop (friction thimble or ratchet friction thimble available).



Range	Grad.	Tip 2x5mm Order No.	Tip 3x10mm Order No.
0-1"	.0001"	600-1311	600-1351
1-2"	.0001"	600-1312	600-1352
2-3"	.0001"	600-1313	600-1353
3-4"	.0001"	600-1314	600-1354
4-5"	.0001"	600-1315	600-1355
5-6"	.0001"	600-1316	600-1356
6-7"	.0001"	600-1317	600-1357

Range	Grad.	Tip 2x5mm Order No.	Tip 3x10mm Order No.
0-25mm	.01mm	600-1321	600-1331
25-50mm	.01mm	600-1322	600-1332
50-75mm	.01mm	600-1323	600-1333
75-100mm	.01mm	600-1324	600-1334
100-125mm	.01mm	600-1325	600-1335
125-150mm	.01mm	600-1326	600-1336
150-175mm	.01mm	600-1327	600-1337

Digital Spline Micrometers

- Friction thimble (Ratchet friction thimble available).
- With 3 keys Deluxe Model micrometer head.
- Graduation: .00005"/.001mm
- Chrome-plated frame.



Range	Measuring tip ϕ 2x5mm Order No.	Measuring tip ϕ 3x5mm Order No.
0-1"/0-25mm	600-1361	600-1371
1-2"/25-50mm	600-1362	600-1372
2-3"/50-75mm	600-1363	600-1373
3-4"/75-100mm	600-1364	600-1374
4-5"/100-125mm	600-1365	600-1375
5-6"/125-150mm	600-1366	600-1376
6-7"/150-175mm	600-1367	600-1377

Sheet Metal Micrometers

- For measuring thickness of sheet metal, paper plastic and rubber taparts especially for a hot metal sheet.
- With a dial.
- Carbide tipped anvils.



Range	Grad.	Throat Depth	Order No.
0-0.6"	0.001"	50mm	600-1771
0-1"	0.001"	50mm	600-1772
0-1"	0.001"	100mm	600-1773
0-1"	0.001"	150mm	600-1774
1-2"	0.001"	50mm	600-1775

Range	Grad.	Throat Depth	Order No.
0-15mm	0.01mm	50mm	600-1745
0-25mm	0.01mm	50mm	600-1755
0-25mm	0.01mm	100mm	600-1756
0-25mm	0.01mm	150mm	600-1757
25-50mm	0.01mm	50mm	600-1766

Disc Micrometers

- Non-Rotating or Rotating Spindle.
- Disk for measuring gears and thickness of paper.
- Ratchet stop (friction thimble or ratchet friction thimble available).



Non-rotating Spindle Type

Range	.0001" Order No.
0-1"	600-7041
1-2"	600-7042
2-3"	600-7043
3-4"	600-7044
4-5"	600-7045
5-6"	600-7046
6-7"	600-7047
7-8"	600-7048

Rotating Spindle Type

Range	.0001" Order No.
0-1"	600-7011
1-2"	600-7012
2-3"	600-7013
3-4"	600-7014
4-5"	600-7015
5-6"	600-7016
6-7"	600-7017
7-8"	600-7018

Metric

Range	Non-Rotating Order No.	Rotating Order No.
0-25mm	.01mm 600-7051	600-7021
25-50mm	.01mm 600-7052	600-7022
50-75mm	.01mm 600-7053	600-7023
75-100mm	.01mm 600-7054	600-7024
100-125mm	.01mm 600-7055	600-7025
125-150mm	.01mm 600-7056	600-7026
150-175mm	.01mm 600-7057	600-7027
175-200mm	.01mm 600-7058	600-7028

Digital Disc Micrometers

- Friction thimble (ratchet friction thimble available)..
- With 3 keys deluxe model micrometer head.
- Chrome-plated frame



Non-rotating Spindle Type

Range	Grad.	Order No.
0-1"/0-25mm	0.00005"/.001mm	600-7211
1-2"/25-50mm	0.00005"/.001mm	600-7212
2-3"/50-75mm	0.00005"/.001mm	600-7213
3-4"/75-100mm	0.00005"/.001mm	600-7214
4-5"/100-125mm	0.00005"/.001mm	600-7215
5-6"/125-150mm	0.00005"/.001mm	600-7216
6-7"/150-175mm	0.00005"/.001mm	600-7217
7-8"/175-200mm	0.00005"/.001mm	600-7218

Rotating Spindle Type

Range	Grad.	Order No.
0-1"/0-25mm	0.00005"/.001mm	600-7201
1-2"/25-50mm	0.00005"/.001mm	600-7202
2-3"/50-75mm	0.00005"/.001mm	600-7203
3-4"/75-100mm	0.00005"/.001mm	600-7204
4-5"/100-125mm	0.00005"/.001mm	600-7205
5-6"/125-150mm	0.00005"/.001mm	600-7206
6-7"/150-175mm	0.00005"/.001mm	600-7207
7-8"/175-200mm	0.00005"/.001mm	600-7208

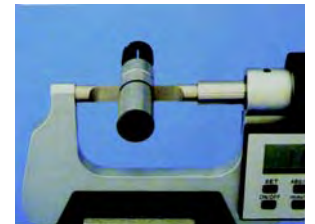
Blade Micrometers

- No-rotating spindle.
- Laser engraved graduations.
- Rathcet friction thimble (friction thimble or ratchet stop available).
- Enamel frame.



Range	.0001" Order No.
0-1"	600-1811
1-2"	600-1812
2-3"	600-1813
3-4"	600-1814
4-5"	600-1815
5-6"	600-1816
6-7"	600-1817

Range	.01mm Order No.
0-25mm	600-1831
25-50mm	600-1832
50-75mm	600-1833
75-100mm	600-1834
100-125mm	600-1835
125-150mm	600-1836
150-175mm	600-1837



Digital Blade Micrometers

- Friction thimble (Ratchetfriction thimble available).
- With 3 keys deluxe model micrometer head.
- Chrome-plated frame.



Range	Graduation	Order No.
0-1"/0-25mm	0.00005"/0.001mm	600-1821
1-2"/25-50mm	0.00005"/0.001mm	600-1822
2-3"/50-75mm	0.00005"/0.001mm	600-1823
3-4"/75-100mm	0.00005"/0.001mm	600-1824
4-5"/100-125mm	0.00005"/0.001mm	600-1825
5-6"/125-150mm	0.00005"/0.001mm	600-1826
6-7"/150-175mm	0.00005"/0.001mm	600-1827



Jaw Type Micrometers

- No-rotating spindle.
- Enamel frame.
- Jaw Type measuring face.
- Ratchet friction thimble (friction thimble or ratchet stop available).
- Laser engraved graduations.



Range	Grad.	Order No.
0-1"	.0001"	600-7411
1-2"	.0001"	600-7412
2-3"	.0001"	600-7413
3-4"	.0001"	600-7414
4-5"	.0001"	600-7415
5-6"	.0001"	600-7416
6-7"	.0001"	600-7417
7-8"	.0001"	600-7418

Range	Grad.	Order No.
0-25mm	.01mm	600-7441
25-50mm	.01mm	600-7442
50-75mm	.01mm	600-7443
75-100mm	.01mm	600-7444
100-125mm	.01mm	600-7445
125-150mm	.01mm	600-7446
150-175mm	.01mm	600-7447
175-200mm	.01mm	600-7448

Digital Jaw Type Micrometers

- Chrome-Plated frame.
- Friction thimble (ratchet friction thimble available).
- With 5 keys deluxe model micrometer head



Range	Grad.	Jaw Size	Order No.
0-1"/0-25mm	.00005"/.001mm	R 0.5"/12.5mm	600-7421
1-2"/25-50mm	.00005"/.001mm	R 0.5"/12.5mm	600-7422
2-3"/50-75mm	.00005"/.001mm	R 0.5"/12.5mm	600-7423
3-4"/75-100mm	.00005"/.001mm	R 0.5"/12.5mm	600-7424
4-5"/100-125mm	.00005"/.001mm	R 0.6"/15mm	600-7425
5-6"/125-150mm	.00005"/.001mm	R 0.6"/15mm	600-7426
6-7"/150-175mm	.00005"/.001mm	R 0.6"/15mm	600-7427
7-8"/175-200mm	.00005"/.001mm	R 0.6"/15mm	600-7428

Electronic Deep Throat Micrometer

Main Features:

- Fast sliding scale for quick measurements
- Easy to read large digital display
- Easy to hold - ergonomic finger grip
- Cast aluminum frame - rugged and lightweight
- Includes Heavy Duty Molded Plastic Case
- Inch/Metric conversion
- On/Off Buttons
- Zero setting

Specification:

Measuring range: 0-2.6"(66mm)
 Max measuring depth: 3-1/8"
 Resolution: 0.0005"/0.01mm
 Accuracy: 0.001"/0.02mm



Order No. 600-6701

Deep Throat Micrometers

- Deep throat frame for measuring thickness of sheet metal, paper, and sheet plastic.
- Ratchet stop (friction thimble or ratchet friction thimble available).



Range	Throat Depth	Grad.	Order No.
0-1"	2"	.0001"	600-1711
1-2"	2"	.0001"	600-1712
0-1"	4"	.0001"	600-1713
1-2"	4"	.0001"	600-1714
0-1"	6"	.0001"	600-1715
1-2"	6"	.0001"	600-1716
0-1"	8"	.0001"	600-1717
1-2"	8"	.0001"	600-1718

Range	Grad.	Throat Depth	Order No.
0-25mm	.01mm	50mm	600-1721
25-50mm	.01mm	50mm	600-1722
0-25mm	.01mm	100mm	600-1723
25-50mm	.01mm	100mm	600-1724
0-25mm	.01mm	150mm	600-1725
25-50mm	.01mm	150mm	600-1726
0-25mm	.01mm	300mm	600-1727
25-50mm	.01mm	300mm	600-1728

Digital Deep Throat Micrometers

- Painted frame.
- Friction thimble (ratchet friction thimble available).
- With 5 keys Deluxe Model micrometer head.
- Graduation .00005"/.001mm.



Range	Throat Depth Description	Graduation	Order No.
0-1"/0-25mm	2"/50mm	0.00005"/.001mm	600-1731
1-2"/25-50mm	2"/50mm	0.00005"/.001mm	600-1732
0-1"/0-25mm	4"/100mm	0.00005"/.001mm	600-1733
1-2"/25-50mm	4"/100mm	0.00005"/.001mm	600-1734
0-1"/0-25mm	6"/150mm	0.00005"/.001mm	600-1735
1-2"/25-50mm	6"/150mm	0.00005"/.001mm	600-1736
0-1"/0-25mm	8"/200mm	0.00005"/.001mm	600-1737
1-2"/25-50mm	8"/200mm	0.00005"/.001mm	600-1738

Ratchet Stop Micrometer Heads

- Direct digital reading.
- Carbide measuring faces.
- Laser engraved graduations.
- Flat or spherical measuring face.



Range	Grad.	Install Dimension	Total Length	Spindle Diameter	Order No.
0-1"	.001"	11x16mm	110mm	6.5mm	601-9501
0-1"	.0001"	11x16mm	110mm	6.5mm	601-9502
0-1"	.001"	12x17mm	113mm	6.5mm	601-9503
0-1"	.0001"	12x17mm	113mm	6.5mm	601-9504
0-1"	.001"	12x20mm	116mm	6.5mm	601-9505
0-1"	.0001"	12x20mm	116mm	6.5mm	601-9506

Range	Grad.	Install Dimension	Total Length	Spindle Diameter	Order No.
0-25mm	.01mm	11x16mm	110mm	6.5mm	601-9524
0-25mm	.002mm	11x16mm	110mm	6.5mm	601-9525
0-25mm	.01mm	12x17mm	113mm	6.5mm	601-9526
0-25mm	.002mm	12x17mm	113mm	6.5mm	601-9527
0-25mm	.01mm	12x20mm	116mm	6.5mm	601-9528
0-25mm	.002mm	12x20mm	116mm	6.5mm	601-9529

Ratchet Friction Thimble Micrometer Heads

- Carbide measuring faces
- Laser engraved graduations.
- Flat or spherical measuring faces.



Range	Grad.	Install Dimension	Total Length	Spindle Diameter	Order No.
0-1"	.001"	11x16mm	110mm	6.5mm	601-9507
0-1"	.0001"	11x16mm	110mm	6.5mm	601-9508

Range	Grad.	Install Dimension	Total Length	Spindle Diameter	Order No.
0-25mm	.01mm	11x16mm	110mm	6.5mm	601-9522
0-25mm	.002mm	11x16mm	110mm	6.5mm	601-9523

Micrometer Heads Ratchet Stop

- Mechanical digital counter for quick and error-free reading.
- Carbide measuring faces
- Flat or spherical measuring faces.



Range	Grad.	Install Dimension	Install Dimension	Order No.
0-1"	.0001"	12x17mm	12x17mm	601-9766

Range	Grad.	Install Dimension	Install Dimension	Order No.
0-25mm	.01mm	12x17mm	12x17mm	601-9765

Mini-Micrometer Heads

- Carbide measuring faces
- Laser engraved graduations.
- Flat or spherical measuring faces.

0-5mm(0-0.2")-Flat Spindle(FS)



0-6.5mm(0-0.25") -Flat Spindle(FS)



0-13mm(0-0.5")-Flat Spindle(FS)



0-13mm(0-0.5")-Spherical Spindle(SS)



Inch

Range	Grad.	Install Dimension	Total Length	Spindle Diameter	Face Shapes	Order No.
0-.2"	.001"	3.5x5mm	32mm	2mm	Flat	601-9105
0-.2"	.001"	3.5x5mm	32mm	2mm	SR1.5mm	601-9106
0-.25"	.001"	6x6mm	37mm	3.5mm	Flat	601-9165
0-.25"	.001"	6x6mm	37mm	3.5mm	SR3mm	601-9166
0-.5"	.001"	9.5x9.5mm	58.5mm	5mm	Flat	601-9113
0-.5"	.001"	9.5x9.5mm	58.5mm	5mm	SR4mm	601-9114
0-.6"	.001"	9.5x9.5mm	61mm	5mm	Flat	601-9115
0-.6"	.001"	9.5x9.5mm	61mm	5mm	SR4mm	601-9116

Metric

Range	Grad.	Install Dimension	Total Length	Spindle Diameter	Face Shapes	Order No.
0-5mm	.01mm	3.5x5mm	32mm	2mm	Flat	601-9120
0-5mm	.01mm	3.5x5mm	32mm	2mm	SR1.5mm	601-9121
0-6.5mm	.01mm	6x6mm	37mm	3.5mm	Flat	601-9125
0-6.5mm	.01mm	6x6mm	37mm	3.5mm	SR3mm	601-9126
0-13mm	.01mm	9.5x9.5mm	58.5mm	5mm	Flat	601-9150
0-13mm	.01mm	9.5x9.5mm	58.5mm	5mm	SR4mm	601-9151
0-15mm	.01mm	9.5x9.5mm	61mm	5mm	Flat	601-9160
0-15mm	.01mm	9.5x9.5mm	61mm	5mm	SR4mm	601-9161

Read Out Micrometer Heads



Range	Graduations	Order No.
0-1"	.00005"	600-7951
0-2"	.00005"	600-7952

Range	Graduations	Order No.
0-25mm	.001mm	600-7925
0-50mm	.001mm	600-7950

Digital Micrometer Heads

- Absolute and incremental conversion.
- Friction thimble(Ratchet friction thimble available).
- Data hold and Tolerance set.



Range	Grad.	Install Dimension	Total Length	Order No.
0-1"/0-25mm	.00005"/.001mm	12x17mm	154mm	601-9785
0-1"/0-25mm	.00005"/.001mm	12x17mm	157mm	601-9786

Quick Feeding Micrometer Heads

Ratchet Stop

- Carbide measuring faces
- Laser engraved graduations.
- Flat or spherical measuring faces.



Range	Grad.	Install Dimension	Total Length	Spindle Diameter	Order No.
0-1"	.0005"	12x17mm	115mm	8mm	601-9601
0-2"	.0005"	22x35mm	183mm	8mm	601-9602
0-25mm	.01mm	12x17mm	115mm	8mm	601-9605
0-50mm	.01mm	22x35mm	183mm	8mm	601-9606

Quick Feeding Micrometer Heads

Ratchet Friction Thimble

- Carbide measuring faces
- Laser engraved graduations.
- Flat or spherical measuring faces.



Range	Grad.	Install Dimension	Total Length	Spindle Diameter	Order No.
0-1"	.0005"	12x17mm	115mm	8mm	601-9611
0-2"	.0005"	22x35mm	183mm	8mm	601-9612
0-25mm	.01mm	12x17mm	115mm	8mm	601-9615
0-50mm	.01mm	22x35mm	183mm	8mm	601-9616

Parallax Free Micrometer Heads

Ratchet Friction Thimble

- Carbide measuring faces
- Laser engraved graduations.
- Flat or spherical measuring faces.



Range	Grad.	Install Dimension	Total Length	Order No.
0-1"	.0001"	12x17mm	110mm	601-9756
0-25mm	.001mm	12x17mm	110mm	601-9755

Parallax Free Micrometer Heads

Ratchet Stop

- Laser engraved graduations.
- Flat or spherical measuring faces.
- Carbide measuring faces.



Range	Grad.	Install Dimension	Total Length	Order No.
0-1"	.0001"	12x17mm	113mm	601-9746
0-25mm	.001mm	12x17mm	113mm	601-9745

Non-Rotating Spindle Micrometer Heads

Ratchet Stop

- Carbide measuring faces
- Laser engraved graduations.
- Flat or spherical measuring faces.



Range	Grad.	Install Dimension	Total Length	Spindle Diameter	Order No.
0-25mm	.01mm	12x10mm	113mm	8mm	601-9625
0-25mm	.002mm	12x10mm	113mm	8mm	601-9626
0-1"	.001"	12x10mm	113mm	8mm	601-9621
0-1"	.0001"	12x10mm	113mm	8mm	601-9622

Non-Rotating Spindle Micrometer Heads

Ratchet Friction Thimble

- Carbide measuring faces
- Laser engraved graduations.
- Flat or spherical measuring faces.



Range	Grad.	Install Dimension	Total Length	Spindle Diameter	Order No.
0-1	.001"	12x10mm	113mm	8mm	601-9631
0-1	.0001"	12x10mm	113mm	8mm	601-9632
0-25mm	.01mm	12x10mm	113mm	8mm	601-9635
0-25mm	.002mm	12x10mm	113mm	8mm	601-9636

7 Pc. Micrometer Anvil Attachment Kit

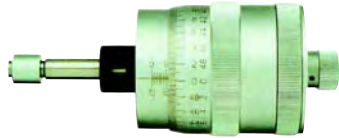
- Turns your micrometer into 7 different tools.
- Fits all brand micrometers from 1" to 12" or metric sizes.



Specification	Order No.
7 Pcs/set: spline, knife, super spline, blade, comparator, disc & ball attachment	600-0107

Fine Reading Micrometer Heads

- The large diameter thimble(49mm) provide high resolution measurement.
- Floating thimble(graduation) can be adjusted with the spindle clamped, allowing zero setting at any spindle position.
- Bidirectional graduation has different fonts for easy reading in both direction.
- Carbide Measuring faces(spherical measuring face available).
Spindle diameter:8mm.



Range	Grad.	Install Dimension	Total Length	Basic Order No.	Bidirectional Grad. Order No.
0-1"	.0001"	18x14mm	119mm	601-9701	601-9711
0-2"	.0001"	18x14mm	148mm	601-9702	601-9712
0-25mm	.002mm	18x14mm	119mm	601-9705	601-9715
0-50mm	.002mm	18x14mm	148mm	601-9706	601-9716

Range	Grad.	Install Dimension	Total Length	Non-Rotating Device Order No.	Combination of Two Type Order No.
0-1"	.0001"	18x14mm	119mm	601-9721	601-9731
0-2"	.0001"	18x14mm	148mm	601-9722	601-9732
0-25mm	.002mm	18x14mm	119mm	601-9725	601-9735
0-50mm	.002mm	18x14mm	148mm	601-9726	601-9736

Interchangeable Anvil Micrometer Standards



Range	Order No.	Range	Order No.
for 0-4x.001"	6MS-9414	for 0-100x.01mm	6MS-9404
for 0-6x.001"	6MS-9416	for 0-150x.01mm	6MS-9406
for 6-12x.001"	6MS-9300	for 150-300x.01mm	6MS-9000
for 12-16x.001"	6MS-9301	for 300-400x.01mm	6MS-9001
for 16-20x.001"	6MS-9302	for 400-500x.01mm	6MS-9002
for 20-24"x.001"	6MS-9303	for 500-600x.01mm	6MS-9003
for 24-28"x.001"	6MS-9304	for 600-700x.01mm	6MS-9004
for 28-32"x.001"	6MS-9305	for 700-800x.01mm	6MS-9005
for 32-36"x.001"	6MS-9306	for 700-900x.01mm	6MS-9006
for 36-40"x.001"	6MS-9307	for 900-1000x.01mm	6MS-9007
for 40-48"x.001"	6MS-9308	for 1000-1200x.01mm	6MS-9008
for 48-56"x.001"	6MS-9309	for 1200-1400x.01mm	6MS-9009
for 56-64"x.001"	6MS-9310	for 1400-1600x.01mm	6MS-9010
for 64-72"x.001"	6MS-9311	for 1600-1800x.01mm	6MS-9011
for 72-80"x.001"	6MS-9312	for 1800-2000x.01mm	6MS-9012
for 80-88"x.001"	6MS-9313	for 2000-2200x.01mm	6MS-9013
for 88-96"x.001"	6MS-9314	for 2200-2400x.01mm	6MS-9014
for 96-104"x.001"	6MS-9315	for 2400-2600x.01mm	6MS-9015
for 104-112"x.001"	6MS-9316	for 2600-2800x.01mm	6MS-9016
for 112-120"x.001"	6MS-9317	for 2800-3000x.01mm	6MS-9017

Micrometer Standards

Standard



Inch

Range	Accuracy	Dia.	Order No.
1"	+/-0.00008"	7mm	6MS-0001
2"	+/-0.00008"	7mm	6MS-0002
3"	+/-0.00008"	7mm	6MS-0003
4"	+/-0.00012"	8mm	6MS-0004
5"	+/-0.00016"	8mm	6MS-0005
6"	+/-0.00016"	8mm	6MS-0006
7"	+/-0.0002"	8mm	6MS-0007
8"	+/-0.0002"	8mm	6MS-0008
9"	+/-0.00024"	8mm	6MS-0009
10"	+/-0.00024"	8mm	6MS-0010
11"	+/-0.00028"	8mm	6MS-0011
12"	+/-0.00016"	16mm	6MS-0012

Metric

Range	Accuracy	Dia.	Order No.
25mm	+/-0.0020mm	7mm	6MS-1025
50mm	+/-0.0020mm	7mm	6MS-1050
75mm	+/-0.0020mm	7mm	6MS-1075
100mm	+/-0.0025mm	8mm	6MS-1100
125mm	+/-0.0025mm	8mm	6MS-1125
150mm	+/-0.0030mm	8mm	6MS-1150
175mm	+/-0.0030mm	8mm	6MS-1175
200mm	+/-0.0035mm	8mm	6MS-1200
225mm	+/-0.0035mm	8mm	6MS-1225
250mm	+/-0.0035mm	8mm	6MS-1250
275mm	+/-0.0035mm	8mm	6MS-1275

Micrometer Stands

The micrometer frame is gripped firmly in a tilting head between two nylon pads tightened by a knurled thumb screw. Ball joint construction allows the tilting head to be positioned as much as 45 degrees off perpendicular in any direction, and a positive locking device secures it in position when a knurled thumb screw on the base is turned. Cast iron with black wrinkle finish.

- Clamping capacity 3/8"
- Base size 5-3/8x3" x 3/4"
- Overall height 3-3/8"
- The replaceable nylon pads in the tilting bracket are 15/32" diameter x 3/16" Thick.

Order No. 600-1010

- Designed to allow bench-top using with micrometers or other gages which have frame area sufficient to be hold.
- Used for 0-4"/0-100mm micrometers.

Type "A"

Specification	Order No.
Aluminum Body	600-0000
Cast Iron Body	600-1000

Type "B"

Specification	Order No.
Steel Body & Cast Iron Base	600-1001

Steel Body

Specification	Order No.
3-1/8x4-3/4x1-3/4"	600-0105



Type "A"



Type "B"



Steel Body

Inside Micrometers

Basic Model

- Caliper type jaws.
- Chrome-plated.
- Carbide measuring faces.
- Ratchet stop for exact repetitive readings.
- Complete with fitted case.

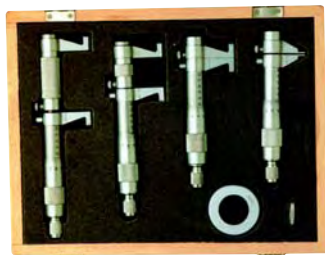


Range	Grad.	Setting Ring	Order No.
0.2-1.2"	.001"	0.2"	600-5005
1-2"	.001"	1"	600-5010
2-3"	.001"		600-5015
3-4"	.001"		600-5020
4-5"	.001"		600-5026
5-6"	.001"		600-5030
6-7"	.001"		600-5035
7-8"	.001"		600-5040
8-9"	.001"		600-5045
9-10"	.001"		600-5046
10-11"	.001"		600-5047
11-12"	.001"		600-5048

Range	Grad.	Setting Ring	Order No.
5-30mm	.01mm	5mm	600-4005
25-50mm	.01mm	25mm	600-4010
50-75mm	.01mm		600-4015
75-100mm	.01mm		600-4020
100-125mm	.01mm		600-4026
125-150mm	.01mm		600-4030
150-175mm	.01mm		600-4035
175-200mm	.01mm		600-4042
200-225mm	.01mm		600-4045
225-250mm	.01mm		600-4046
250-275mm	.01mm		600-4047
275-300mm	.01mm		600-4048

Inside Micrometer Sets

- Caliper type jaws.
- Chrome-plated.
- Carbide measuring faces.
- Ratchet stop for exact repetitive readings.
- Complete with fitted case.



Piece	Range	Grad.	Order No.
3Pcs/set	.2 to 3"	.001"	600-5021
4Pcs/set	.2 to 4"	.001"	600-5022

Piece	Range	Grad.	Order No.
3Pcs/set	5 to 75mm	.01mm	600-4021
4Pcs/set	5 to 100mm	.01mm	600-4022

Digital Inside Micrometers

- Mechanical digital counter for quick and error-free reading.
- Caliper type jaws.
- Chrome-plated.
- Carbide measuring faces.
- Laser engraved graduations.



Range	Grad.	Setting Ring	Order No.
.2-1.2"	.001"	0.2"	600-5605
1-2"	.001"	1"	600-5610
2-3"	.001"		600-5615
3-4"	.001"		600-5620
4-5"	.001"		600-5626
5-6"	.001"		600-5630
6-7"	.001"		600-5635
7-8"	.001"		600-5640
8-9"	.001"		600-5645
9-10"	.001"		600-5646
10-11"	.001"		600-5647
11-12"	.001"		600-5648

Range	Grad.	Setting Ring	Order No.
5-30mm	.01mm	5mm	600-4605
25-50mm	.01mm	25mm	600-4610
50-75mm	.01mm		600-4615
75-100mm	.01mm		600-4620
100-125mm	.01mm		600-4626
125-150mm	.01mm		600-4630
150-175mm	.01mm		600-4635
175-200mm	.01mm		600-4640
200-225mm	.01mm		600-4645
225-250mm	.01mm		600-4646
250-275mm	.01mm		600-4647
275-300mm	.01mm		600-4648

Electronic Inside Micrometers

- With 3 keys Deluxe Model micrometer head.
- Graduation .00005"/.001mm
- 0.2-1.2"/5-30mm, 1-2"/25-50mm micrometers furnished with setting ring



Range	Order No.
0.2-1.2"/5-30mm	600-5101
1-2"/25-50mm	600-5102
2-3"/50-75mm	600-5103
3-4"/75-100mm	600-5104
4-5"/100-125mm	600-5106
5-6"/125-150mm	600-5107

Range	Order No.
6-7"/150-175mm	600-5108
7-8"/175-200mm	600-5109
8-9"/200-225mm	600-5111
9-10"/225-250mm	600-5112
10-11"/250-275mm	600-5113
11-12"/275-300mm	600-5114

Interchangeable Rods type Depth Micrometers

Normal Type

- Spherical end (flat end available).
- High accuracy interchangeable rods changed from hole of base end.



Range	Grad.	No. of Rods	Base size	Order No.	Base size	Order No.
0-1"	.001"	1	2-1/2"	602-3005	4"	602-3006
0-2"	.001"	2	2-1/2"	602-3008	4"	602-3009
0-4"	.001"	4	2-1/2"	602-3015	4"	602-3030
0-6"	.001"	6	2-1/2"	602-3025	4"	602-3020
0-8"	.001"	8	2-1/2"	602-3026	4"	602-3027
0-12"	.001"	12	2-1/2"	602-3028	4"	602-3029

Range	Grad.	No. of Rods	Base size	Order No.	Base size	Order No.
0-25mm	.01mm	1	63mm	602-3105	101.5mm	602-3106
0-50mm	.01mm	2	63mm	602-3108	101.5mm	602-3109
0-100mm	.01mm	4	63mm	602-3110	101.5mm	602-3111
0-150mm	.01mm	6	63mm	602-3115	101.5mm	602-3116
0-200mm	.01mm	8	63mm	602-3120	101.5mm	602-3121
0-300mm	.01mm	12	63mm	602-3125	101.5mm	602-3126

Run through rod Type

- Ratchet stop.
- Run through interchangeable rods, provide a wide measuring range.
- Spherical end (flat end available).
- High accuracy interchangeable rods.



Range	Grad.	No. of Rods	Base size	Order No.	Base size	Order No.
0-1"	.001"	1	2-1/2"	602-4005	4"	602-4006
0-2"	.001"	2	2-1/2"	602-4008	4"	602-4009
0-4"	.001"	4	2-1/2"	602-4015	4"	602-4030
0-6"	.001"	6	2-1/2"	602-4025	4"	602-4020
0-8"	.001"	8	2-1/2"	602-4026	4"	602-4027
0-12"	.001"	12	2-1/2"	602-4028	4"	602-4029

Range	Grad.	No. of Rods	Base size	Order No.	Base size	Order No.
0-25mm	.01mm	1	63mm	602-4105	101.5mm	602-4106
0-50mm	.01mm	2	63mm	602-4108	101.5mm	602-4109
0-100mm	.01mm	4	63mm	602-4110	101.5mm	602-4111
0-150mm	.01mm	6	63mm	602-4115	101.5mm	602-4116
0-200mm	.01mm	8	63mm	602-4120	101.5mm	602-4121
0-300mm	.01mm	12	63mm	602-4125	101.5mm	602-4126

Digital Depth Micrometers

- Digit counter for quick and error-free reading.
- Spherical end (flat end available).
- High accuracy interchangeable rods.
- Zero-set button.



Range	Grad.	No. of Rods	Base size	Order No.	Base size	Order No.
0-1"	.001"	1	2-1/2"	602-3401	4"	602-3411
0-2"	.001"	2	2-1/2"	602-3402	4"	602-3412
0-4"	.001"	4	2-1/2"	602-3404	4"	602-3414
0-6"	.001"	6	2-1/2"	602-3406	4"	602-3416
0-8"	.001"	8	2-1/2"	602-3408	4"	602-3418
0-12"	.001"	12	2-1/2"	602-3409	4"	602-3419

Range	Grad.	No. of Rods	Base size	Order No.	Base size	Order No.
0-25mm	.01mm	1	63mm	602-3421	101.5mm	602-3431
0-50mm	.01mm	2	63mm	602-3422	101.5mm	602-3432
0-100mm	.01mm	4	63mm	602-3424	101.5mm	602-3434
0-150mm	.01mm	6	63mm	602-3426	101.5mm	602-3436
0-200mm	.01mm	8	63mm	602-3428	101.5mm	602-3438
0-300mm	.01mm	12	63mm	602-3429	101.5mm	602-3439

Electronic Depth Micrometers

- With 3 keys deluxe model micrometer head.
- Spherical end (flat end available).
- High accuracy interchangeable rods.
- Friction thimble (Ratchet friction thimble available).
- .00005"/.001mm.



Range	No. of Rods	Base size	Order No.	Base size	Order No.
0-1"/0-25mm	1	4"	602-3311	2-1/2"	602-3301
0-2"/0-50mm	2	4"	602-3312	2-1/2"	602-3302
0-4"/0-100mm	4	4"	602-3314	2-1/2"	602-3304
0-6"/0-150mm	6	4"	602-3316	2-1/2"	602-3306
0-8"/0-200mm	8	4"	602-3318	2-1/2"	602-3308
0-12"/0-300mm	12	4"	602-3319	2-1/2"	602-3309

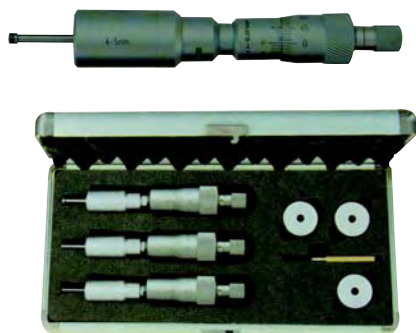
Three-point Internal Micrometers



- Self-centering 3-point for accurate measurement of internal diameters.
- Highly durable because of carbide-tipped contact points.
- Measurement can be taken closer to the bottom of the blind bore, and can be taken into a deep hole with an extension rods.
- Supplied with setting rings.

Within 12mm/0.5".
Resolution: 0.001mm(Metric); 0.0001"(Inch).
Over 12mm/0.5".
Resolution: 0.005mm(Metric); 0.0002"(Inch).

Range: 2-6mm/0.08-0.28"



Individuals

Range	Grad.	Order No.
2-2.5mm	.001mm	600-9201
2.5-3mm	.001mm	600-9202
3-4mm	.001mm	600-9203
4-5mm	.001mm	600-9204
5-6mm	.001mm	600-9205

Range	Grad.	Order No.
0.08-0.1"	.0001"	600-9206
0.1-0.12"	.0001"	600-9207
0.12-0.16"	.0001"	600-9208
0.16-0.2"	.0001"	600-9209
0.2-0.24"	.0001"	600-9210
0.24-0.28"	.0001"	600-9211

Sets

Range	Grad.	Desc.	Order No.
2-3mm	.001mm	2 heads	600-9650
3-6mm	.001mm	3 heads	600-9651

Range	Grad.	Desc.	Order No.
.18-.12"	.0001"	2 heads	600-9652
.12-.28"	.0001"	4 heads	600-9653

Range: 6-12mm/0.08-0.28"



Individuals

Range	Grad.	Order No.
6-8mm	.001mm	600-9212
8-12mm	.001mm	600-9213
12-15mm	.001mm	600-9214

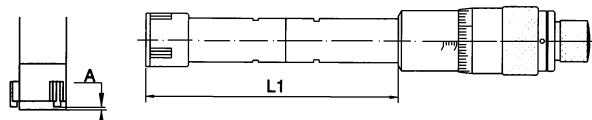
Range	Grad.	Order No.
0.275-0.35"	.0001"	600-9215
0.35-0.425"	.0001"	600-9216
0.425-0.5"	.0001"	600-9217

Sets

Range	Grad.	Desc.	Order No.
6-12mm	.001mm	3 heads	600-9654

Range	Grad.	Desc.	Order No.
0.275-0.5"	.0001"	3 heads	600-9655

Range: 6-100mm/0.275-4"

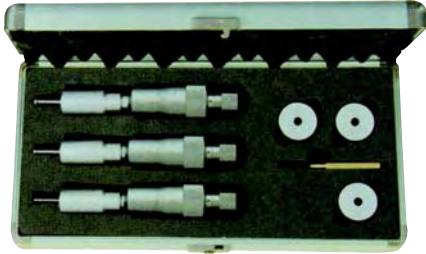


Metric

Range	Graduation	Accuracy	Setting Rings	A	Order No.
6-8mm	.001mm	0.004mm	φ8mm 53.5mm	0.5mm	600-9660
8-10mm	.001mm	0.004mm	φ8mm 53.5mm	0.5mm	600-9661
10-12mm	.001mm	0.004mm	φ10mm 53.5mm	0.5mm	600-9662
12-16mm	.005mm	0.004mm	φ16mm 80mm	0.5mm	600-9663
16-20mm	.005mm	0.004mm	φ16mm 80mm	0.5mm	600-9664
20-25mm	.005mm	0.004mm	φ25mm 90mm	0.5mm	600-9665
25-30mm	.005mm	0.004mm	φ25mm 90mm	0.5mm	600-9666
30-40mm	.005mm	0.004mm	φ40mm 97mm	0.5mm	600-9667
40-50mm	.005mm	0.005mm	φ40mm 97mm	0.5mm	600-9668
50-63mm	.005mm	0.005mm	φ62mm 114mm	0.5mm	600-9669
62-75mm	.005mm	0.005mm	φ62mm 114mm	0.5mm	600-9670
75-88mm	.005mm	0.005mm	φ87mm 114mm	0.5mm	600-9671
87-100mm	.005mm	0.005mm	φ87mm 114mm	0.5mm	600-9672

Three Point Inside Micrometers & Sets

Range: 6-100mm/0.275-4"



Metric Sets

Range	Graduation	Extension Rods	Desc.	Order No.
6-12mm(A=0.5mm)	.001mm	100mm	3 Heads	600-9675
12-20mm(A=0.5mm)	.005mm	150mm	2 Heads	600-9676
20-50mm(A=0.5mm)	.005mm	150mm	3 Heads	600-9677
50-100mm(A=0.5mm)	.005mm	150mm	5 Heads	600-9678

Inch Sets

Range	Graduation	Extension Rods	Desc.	Order No.
0.275-0.5"(A=0.5mm)	.0001"	3.9"	3 Heads	600-9875
0.5-0.8"(A=0.5mm)	.0002"	5.9"	2 Heads	600-9876
0.8-2"(A=0.5mm)	.0002"	5.9"	4 Heads	600-9877
2-4"(A=0.5mm)	.0002"	5.9"	4 Heads	600-9878

Range: 50-300mm/2-12"



- Painted Surface.
 - Over 100m/4": Setting ring optional.
 - Over 100m/4": Measuring head are interchangeable
 - Ratchet stop
- Aluminium body



Individuals

Range	Grad.	Order No.
50-63mm	.005mm	600-9501
62-75mm	.005mm	600-9502
75-88mm	.005mm	600-9503
87-100mm	.005mm	600-9504
100-125mm	.005mm	600-9505
125-150mm	.005mm	600-9506
150-175mm	.005mm	600-9507
175-200mm	.005mm	600-9508
200-225mm	.005mm	600-9509
225-250mm	.005mm	600-9510
250-275mm	.005mm	600-9511
275-300mm	.005mm	600-9512

Range	Grad.	Order No.
2-2.5"	.0002"	600-9513
2.5-3"	.0002"	600-9514
3-3.5"	.0002"	600-9515
3.5-4"	.0002"	600-9516
4-5"	.0002"	600-9517
5-6"	.0002"	600-9518
6-7"	.0002"	600-9519
7-8"	.0002"	600-9520
8-9"	.0002"	600-9521
9-10"	.0002"	600-9522
10-11"	.0002"	600-9523
11-12"	.0002"	600-9524



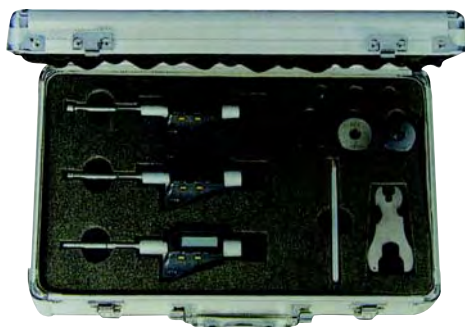
Sets

Range	Grad.	Desc.	Order No.
50-100mm	.005mm	4 heads	600-9656

Range	Grad.	Desc.	Order No.
2-4"	.0002"	4 heads	600-9657

Electronic Three Point Inside Micrometers & Sets

Range: 2-6mm/0.08-0.28"



- Self-centering 3-point for accurate measurement of internal diameters.
- Measurement can be taken closer to the bottom of the blind bore, and can be taken into a deep hole with an extension rod.
- Carbide-tipped contact points.
- Protection level IP54. Criterion: DIN40050/IEC529.
- RS232 data output. Connect cable: P1102 (Optional).
- Within 100mm/ 4": Supplied with setting rings. Over 100mm/ 4": Setting rings optional.
- Over 100mm/ 4": Measuring head is interchangeable.

Individuals

Range	Grad.	Order No.
2-2.5mm	.001mm	600-9731
2.5-3mm	.001mm	600-9732
3-4mm	.001mm	600-9733
4-5mm	.001mm	600-9734
5-6mm	.001mm	600-9735

Range	Grad.	Order No.
0.08-0.1"	.0001"	600-9736
0.1-0.12"	.0001"	600-9737
0.12-0.16"	.0001"	600-9738
0.16-0.2"	.0001"	600-9739
0.2-0.24"	.0001"	600-9740
0.24-0.28"	.0001"	600-9741

Sets

Range	Grad.	Desc.	Order No.
2-3mm	.001mm	2 heads	600-9780
3-6mm	.001mm	3 heads	600-9781

Range	Grad.	Desc.	Order No.
.18-.12"	.0001"	2 heads	600-9782
.12-.28"	.0001"	4 heads	600-9783

Range: 6-12mm/0.08-0.28"



Individuals

Range	Grad.	Order No.
6-8mm	.001mm	600-9742
8-12mm	.001mm	600-9743
12-15mm	.001mm	600-9744

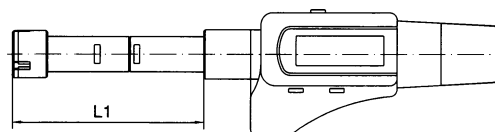
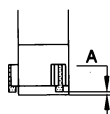
Range	Grad.	Order No.
0.275-0.35"	.0001"	600-9745
0.35-0.425"	.0001"	600-9746
0.425-0.5"	.0001"	600-9747

Sets

Range	Grad.	Desc.	Order No.
6-12mm	.001mm	3 heads	600-9784

Range	Grad.	Desc.	Order No.
0.275-0.5"	.0001"	3 heads	600-9785

Range: 6-100mm/0.275-4"



Range	Graduation	Accuracy	Setting Rings	L1	A	Order No.
6-8mm/0.275-0.35"	.005mm/.0002"	0.004mm	φ8mm/0.275"	63.5mm	1.5mm	600-9760
8-10mm/0.35-0.425"	.005mm/.0002"	0.004mm	φ8mm/0.35"	63.5mm	1.5mm	600-9761
10-12mm/0.425-0.5"	.005mm/.0002"	0.004mm	φ10mm/0.5"	63.5mm	0.5mm	600-9762
12-16mm/0.5-0.65"	.005mm/.0002"	0.004mm	φ16mm/0.65"	79.5mm	0.5mm	600-9763
16-20mm/0.65-0.8"	.005mm/.0002"	0.004mm	φ16mm/0.65"	79.5mm	0.5mm	600-9764
20-25mm/0.8-1"	.005mm/.0002"	0.004mm	φ25mm/1"	104.5mm	0.5mm	600-9765
25-30mm/1-1.2"	.005mm/.0002"	0.004mm	φ25mm/1"	104.5mm	0.5mm	600-9766
30-40mm/1.2-1.6"	.005mm/.0002"	0.004mm	φ40mm/1.6"	110mm	0.5mm	600-9767
40-50mm/1.6-2"	.005mm/.0002"	0.005mm	φ40mm/1.6"	110mm	0.5mm	600-9768
50-63mm/2-2.5"	.005mm/.0002"	0.005mm	φ62mm/2.5"	127mm	0.5mm	600-9769
62-75mm/2.5-3"	.005mm/.0002"	0.005mm	φ62mm/2.5"	127mm	0.5mm	600-9770
75-88mm/3-3.5"	.005mm/.0002"	0.005mm	φ87mm/3.5"	127mm	0.5mm	600-9771
87-100mm/3.5-4"	.005mm/.0002"	0.005mm	φ87mm/3.5"	127mm	0.5mm	600-9772

Electronic Three-point Internal Micrometers Sets

Range: 6-100mm/0.275-4"



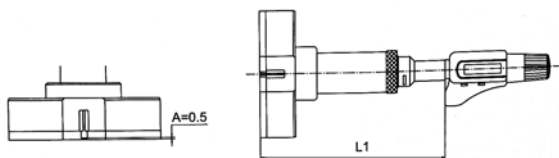
Sets

Range	Extension Rods	Desc.	Order No.
6-12mm/0.275-0.5"(A=0.5mm)	100mm	3 Heads	600-9775
12-20mm/0.5-0.8"(A=0.5mm)	150mm	2 Heads	600-9776
20-50mm/0.8-2"(A=0.5mm)	150mm	4 Heads	600-9777
50-100mm/2-4"(A=0.5mm)	150mm	4 Heads	600-9778

Range: 50-300mm/2-12"



- Painted Surface
 - Over 100m/4": Setting ring optional.
 - Over 100m/4": Measuring head are interchangeable
 - Ratchet stop
- Aluminium body



Individuals

Range	Grad.	Order No.
50-63mm	.005mm	600-9748
62-75mm	.005mm	600-9749
75-88mm	.005mm	600-9750
87-100mm	.005mm	600-9751
100-125mm	.005mm	600-9752
125-150mm	.005mm	600-9753
150-175mm	.005mm	600-9754
175-200mm	.005mm	600-9755
200-225mm	.005mm	600-9756
225-250mm	.005mm	600-9757
250-275mm	.005mm	600-9758
275-300mm	.005mm	600-9759

Range	Grad.	Order No.
2-2.5"	.0002"	600-9718
2.5-3"	.0002"	600-9719
3-3.5"	.0002"	600-9720
3.5-4"	.0002"	600-9721
4-5"	.0002"	600-9722
5-6"	.0002"	600-9723
6-7"	.0002"	600-9724
7-8"	.0002"	600-9725
8-9"	.0002"	600-9726
9-10"	.0002"	600-9727
10-11"	.0002"	600-9728
11-12"	.0002"	600-9729



Sets

Range	Grad.	Desc.	Order No.
50-100mm	.005mm	4 heads	600-9786

Range	Grad.	Desc.	Order No.
2-4"	.0002"	4 heads	600-9787

Accessories For Three Point Inside Micrometers

Internal Gage For Three Point Micrometers



	Specifications	Order No.	Specifications	Order No.
for 6-12mm x .005mm	Dia. 32x10x8	600-9532	Dia. 32x10x10	600-9537
for 11-20mm x .005mm	Dia. 35x13x11	600-9534	Dia. 45x15x17	600-9535
for 20-40mm x .005mm	Dia. 53x20x25	600-9544	Dia. 68x20x35	600-9545
for 40-100mm x .005mm	Dia.100x30.2x50	600-9564	Dia.112x32.2x70	600-9565
for 40-100mm x .005mm	Dia. 140x35.2x90	600-9566		

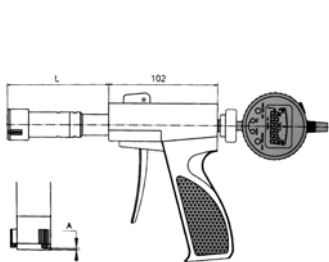
Arbor, Arbor Socket & Wrench for Basic Model Three Point Micrometers

Range	Arbor & Socket Order No.	Wrench Order No.
For .24-.48"	600-9530	600-9536
For .44-.80"	600-9531	600-9533
For .80-1.6"	600-9541	600-9543
For 1.6-4.0"	600-9561	600-9563

Range	Arbor & Socket Order No.	Wrench Order No.
for 6-12mm	600-9221	600-9223
for 11-20mm	600-9231	600-9233
for 20-40mm	600-9241	600-9243
for 40-100mm	600-9261	600-9263

Pistol Grip Three Point Bore Gages

- Carbide Tipped contact points
- Furnished with setting rings
- Self-centering 3 point contact for accurate measurement
- Furnished without dial indicator



Inch

Range	Accuracy	Gage Depth	Order No.
0.275-0.35"	0.00016"	2"	600-9430
0.35-0.425"	0.00016"	2"	600-9431
0.425-0.5"	0.00016"	2"	600-9432
0.5-0.65"	0.00016"	2.6"	600-9433
0.65-0.8	0.00016"	2.6"	600-9434
0.8-1"	0.00016"	3.64"	600-9435
1-1.2"	0.00016"	3.64"	600-9436
1.2-1.6"	0.00016"	3.88"	600-9437
1.6-2"	0.0002"	3.88"	600-9438
2-2.5"	0.0002"	4.48"	600-9439
2.5-3"	0.0002"	4.48"	600-9440
3-3.5"	0.0002"	4.48"	600-9441
3.5-4"	0.0002"	4.48"	600-9442

Metric

Range	Accuracy	Gage Depth	Order No.
6-8mm	0.004mm	50mm	600-9450
8-10mm	0.004mm	50mm	600-9451
10-12mm	0.004mm	50mm	600-9452
12-16mm	0.004mm	65mm	600-9453
16-20mm	0.004mm	65mm	600-9454
20-25mm	0.004mm	91mm	600-9455
25-30mm	0.004mm	91mm	600-9456
30-40mm	0.004mm	97mm	600-9457
40-50mm	0.005mm	97mm	600-9458
50-63mm	0.005mm	112mm	600-9459
62-75mm	0.005mm	112mm	600-9460
75-88mm	0.005mm	112mm	600-9461
87-100mm	0.005mm	112mm	600-9462

Sets

Range	Accuracy	Gage Depth	Order No.
0.275-0.5"	0.00016"	2"	600-9463
0.5-0.8"	0.00016"	2"	600-9464
0.8-2.0"	0.00016"	3.64"	600-9465
2.0-4.0"	0.0002"	4.48"	600-9466
6-12mm	0.004mm	50mm	600-9467
12-20mm	0.004mm	50mm	600-9468
20-50mm	0.004mm	90mm	600-9469
50-100mm	0.005mm	112mm	600-9470

Internal Micrometers

Tubular Type

- Chrome-plated.
- Each rod marked with length.
- Thermal insulator on each rod.
- Carbide measuring faces.
- Laser engraved graduations.



Range	Grad.	Order No.
2-3"	0.001"	600-6561
2-4"	0.001"	600-6562
2-7"	0.001"	600-6563
2-10"	0.001"	600-6564
2-24"	0.001"	600-6565

Range	Grad.	Order No.
50-75mm	.01mm	600-6507
50-100mm	.01mm	600-6508
50-175mm	.01mm	600-6509
50-250mm	.01mm	600-6510
50-600mm	.01mm	600-6511

Range	Grad.	Order No.
4-36"	.001"	600-6520
6-55"	.001"	600-6521
6-80"	.001"	600-6522
6-84"	.001"	600-6523
40-120"	.001"	600-6524

Range	Grad.	Order No.
150-1400mm	.01mm	600-6501
150-2000mm	.01mm	600-6502
150-2100mm	.01mm	600-6503
1000-3000mm	.01mm	600-6504

Tubular & Single Body Type



Range	Grad.	Order No.
2-3"	.001"	600-6551
3-4"	.001"	600-6552
4-5"	.001"	600-6553
5-6"	.001"	600-6554
6-7"	.001"	600-6555
7-8"	.001"	600-6556
8-9"	.001"	600-6557
9-10"	.001"	600-6558
10-11"	.001"	600-6559
11-12"	.001"	600-6560

Range	Grad.	Order No.
50-75mm	.01mm	600-6541
75-100mm	.01mm	600-6542
100-125mm	.01mm	600-6543
125-150mm	.01mm	600-6544
150-175mm	.01mm	600-6545
175-200mm	.01mm	600-6546
200-225mm	.01mm	600-6547
225-250mm	.01mm	600-6548
250-275mm	.01mm	600-6549
275-300mm	.01mm	600-6550

Dial Indicators



Inch Size

Range	Grad.	Dial Reading	Dial Size	Back Lug	Order No.
0.05"	.0001"	0-100	2.28"	With	605-4000
0.125	.0005	0-25-0	1-37/64	With	605-4002
0.125	.00025	0-100	1-37/64	With	605-4003
0.25	0.001	0-100	2.28	With	605-4030
0.25	0.001	0-100	2.28	With	605-4031*
0.25	0.001	0-50-0	2.28	With	605-4035
0.25	0.001	0-100	1-37/64	Without	605-4041
0.25	0.001	0-100	1-37/64	With	605-4040
0.25	0.0005	0-100	2.28	With	605-4005**
0.25	0.0005	0-100	1-37/64	With	605-4004
0.25	0.0005	0-50	2.28	With	605-4058
0.25	0.0001	0-100	2.28	With	605-4006
0.40	0.001	0-100	2.28	With	605-4045
0.5	0.001	0-100	2.28	With	605-4050
0.5	0.001	0-100	2.28	With	605-4051*
0.5	0.001	0-100	2.28	Without	605-4605
0.5	0.001	0-50-0	2.28	With	605-4055
0.5	0.0005	0-100	2.28	With	605-4052
0.5	0.0005	0-50	2.28	With	605-4060
0.5	0.0005	0-25-0	2.28	With	605-4065
0.5	0.0001	0-100	2.28	With	605-4012
1	0.001	0-100	2.28	With	605-4070
1	0.001	0-100	2.28	With	605-4080***
1	0.001	0-50-0	2.28	With	605-4075
1	0.0005	0-100	2.28	With	605-4071
1	0.0005	0-50	2.28	With	605-4063
1	0.0001	0-100	2.28	With	605-4025
2	0.001	0-100	2.28	With	605-4205
2	0.001	0-100	2.28	With	605-4206***

* Economy Dial Indicators.

** without Rev.Counter.

*** Black Face

Metric Size

Range (mm)	Grad. (mm)	Dia. (mm)	Back Lug	Style	Order No.
0.5	0.001	40	With		605-4305
0.8	0.001	40	With		605-4308
1	0.001	40	Without	6 Jeweled	605-4100
1	0.001	40	With	6 Jeweled	605-4301
1	0.001	58	Without	6 Jeweled	605-4101
3	0.01	40	with		605-4110
3	0.01	40	With	6 Jeweled	605-4311
3	0.01	40	Without		605-4120
3	0.01	40	Without	6 Jeweled	605-4310
3	0.01	58	With		605-4236
3	0.01	58	With	Shock Proof	605-4235
3	0.01	58	Without		605-4232
3	0.01	58	Without	Shock Proof	605-4230
3	0.001	50	Without		605-4103
5	0.01	58	With		605-4130
5	0.01	58	Without		605-4115
5	0.01	58	Without	6 Jeweled	605-4330
5	0.01	58	With	6 Jeweled	605-4331
5	0.01	40	Without		605-4140
5	0.001	58	Without	6 Jeweled	605-4345
8	0.01	40	with		605-4108
8	0.01	40	Without		605-4145
10	0.01	58	With		605-4151
10	0.01	58	Without		605-4125
10	0.01	58	Without	6 Jeweled	605-4136
10	0.01	58	With		605-4360
10	0.01	60	With	6 Jeweled	605-4350
10	0.01	60	Without	6 Jeweled	605-4351
15	0.01	58	With		605-4150
20	0.01	58	With		605-4190
25	0.01	58	Without	6 Jeweled	605-4160
30	0.01	58	With		605-4165
30	0.01	58	Without		605-4166
50	0.01	76	With		605-4170
50	0.01	76	Without		605-4180

Dual System Dial Indicators



Inch/Metric:

Inch Outside, Metric Inside

Inch/Metric Dial Indicators

Range	Dial Dia.	Graduation	Order No.
0-1/2"/0-15mm	2-3/8"	0.001"/0.1mm	605-4815
0-1"/0-25mm	2-3/8"	0.001"/0.1mm	605-4816

Inch/Metric Dial Indicators

Range	Dial Dia.	Graduation	Order No.
0-1"/0-25mm	3"	0.001"/0.1mm	605-4819
0-1.5"/0-40mm	3"	0.001"/0.1mm	605-4820
0-2"/0-50mm	3"	0.001"/0.1mm	605-4821



Metric/Inch:

Metric Outside, Inch Inside

Metric/Inch Dial Indicators

Range	Dial Dia.	Graduation	Order No.
0-15mm/0-.5"	2-3/8"	0.1mm/0.001"	605-4817
0-25mm/0-1"	2-3/8"	0.1mm/0.001"	605-4818

Metric/Inch Dial Indicators

Range	Dial Dia.	Graduation	Order No.
0-25mm/0-1"	3"	0.1mm/0.001"	605-4822
0-40mm/0-1.5"	3"	0.1mm/0.001"	605-4823
0-50mm/0-2"	3"	0.1mm/0.001"	605-4824

Crankshaft Meter

- Measuring rang: 45-500mm
- Rotatable dial.
- Delivery complete with extensions in case.

Range	Graduation	Order No.
45-500mm	0.01mm	605-3830



Electronic Digital Indicators

3 Keys, Large Screen

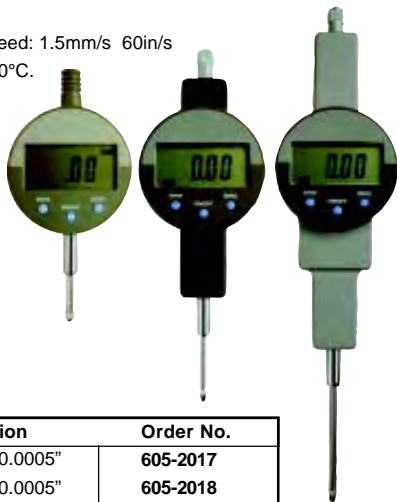
- Super large LCD for easy reading .digit height 12.5mm.
 - Novel desig, large silvering display window.
- Customer's Logo can be printed on it.
- With data output.
 - One 1.55V SR44 battery can last about 12 months.
- Functions:manual ON/OFF or auto power off;
zero setting at any position;Metric/Inch system
conversion at any position.
- Low voltage warning by flashing display.



Range	Graduation	Order No.
0-.5"/12.7mm	0.01/0.0005"	605-2255
0-1"/25.4mm	0.01/0.0005"	605-2256
0-.5"/12.7mm	0.001/0.00005"	605-2257
0-1"/25.4mm	0.001/0.00005"	605-2258

3 Keys

- Face rotates 360°
- Maximum measurement speed: 1.5mm/s 60in/s
- Operating temperature: 0~40°C.
- Power: 1.5V SR44(silver oxide cell) 1 battery



Range	Graduation	Order No.
12.5mm/0.5"	0.01mm/0.0005"	605-2017
25mm/1"	0.01mm/0.0005"	605-2018
50mm/2"	0.01mm/0.0005"	605-2019

3 Keys, Large Screen

Range	Graduation	Order No.
0-10mm/3/8"	0.01mm/.0005"	605-2023
0-25mm/1.0"	0.01mm/.0005"	605-2026

3 Keys, Large LCD Screen

- Super large LCD display for easy reading
- Big easy to press buttons
- With data output



Range	Graduation	3/8" Shank Order No.	8mm shank Order No.
0-12.7mm/0.5"	0.01mm/0.0005"	605-2051	605-2061
0-25.4mm/1.0"	0.01mm/0.0005"	605-2052	605-2062
0-12.7mm/0.5"	0.001mm/.00005"	605-2053	605-2063
0-25.4mm/1.0"	0.001mm/.00005"	605-2054	605-2064

3 Keys, Large LCD Screen, Metal -Housing, IP54

- Measuring speed is faster.no minus sign when "0.00" display
- Super large LCD display for easy reading.
- With durable and premium metal display housing, IP54 Water-resistant
- Big easy to operate electronic buttons
- With data output
- One 1.55V SR44 battery can last about 12 months
- Functions:manual ON/OFF(auto power off available); zero setting at any position;Metric/Inch system conversion at any position
- Low voltage warning by flashing display



Range	Graduation	Order No.
0-12.7mm/0.5"	0.01mm/0.0005"	605-2251
0-25.4mm/1.0"	0.01mm/0.0005"	605-2252
0-12.7mm/0.5"	0.001mm/.00005"	605-2253
0-25.4mm/1.0"	0.001mm/.00005"	605-2254

3 Keys, Standard Screen

Range	Graduation	Order No.
0-10mm/0.4"	0.01mm/.0005"	605-2010
0-13mm/0.5"	0.01mm/.0005"	605-2013
0-25mm/1.0"	0.01mm/.0005"	605-2025
0-30mm/1.2"	0.01mm/.0005"	605-2030
0-50mm/2"	0.01mm/.0005"	605-2050



5 Keys

- Manual power on /off.
- Inch/Metric conversion.
- Absolute or increase model measurement set.
- 5 Pins SPC Output.
- Chrome plated steel shell body.

Range	Graduation	Order No.
0-13mm/0.5"	0.01mm/0.0005"	605-2601
0-13mm/0.5"	0.001mm/0.00005"	605-2701



with Analog Display

- Absolutely and comparative measurement.
- Preset tolerance and value.
- Extra large LCD.
- Auto power On/Off.
- 360° Screen rotation.

Range	Grad.	Order No.
6.35mm/1/4"	0.01mm/0.0005"	605-2511
12.5mm/0.5"	0.01mm/0.0005"	605-2512
25.4mm/1"	0.002mm/0.0001"	605-2514
6.35mm/1/4"	0.001mm/0.00005"	605-2510
12.5mm/0.5"	0.001mm/0.00005"	605-2513
25.4mm/1"	0.001mm/0.00005"	605-2515



Electronic Digital Indicators

5 Keys, Fraction

- Criterion A for ESD
- Metric-inch-fraction conversion;
- Data output
- Creducible power on reset
- Auto power-off(option)
- 3v Lithium battery CR2032.

Range	Graduation	Order No.
0-12.7mm/0.5"	0.01mm/0.0005"/ 1/128"	605-2101
0-25.4mm/1"	0.01mm/0.0005"/ 1/128"	605-2102

5 Keys, Large Screen

- Zero setting at any position
- Metric/Inch system conversion at any position
- TOL setting switch
- Maximum and minimum tracking switch
- With data output interface
- Auto shutdown

Range	Graduation	Order No.
0-.5"/12.7mm	0.001mm/0.0005"	605-2071
0-1"/25.4mm	0.001mm/0.0005"	605-2072
0-2"/50.8mm	0.001mm/0.0005"	605-2073

5 Keys, Large Screen

- Maximum measurement speed:1.5m/s (0.001mm/0.0005")
- ON/OFF, ZERO, in/mm, ABS/INC, TOL
- Operating temperature: 0-40°C
- Power: 1.5V SR44(silver xide cell) 1 battery
- With data output interface

Yellow Screen			
Range	Graduation	Order No.	Order No.
0-.5"/12.7mm	0.01mm/0.005"	605-2631	605-2691
0-1"/25.4mm	0.01mm/0.005"	605-2632	605-2692
0-2"/50.8mm	0.01mm/0.005"	605-2633	605-2693

7 Keys Multi-Function Large LCD Screen

- Large LCD Screen.
- Featured extra function of Measuring Range and Measuring Direction setting.

Range	Graduation	Shell Size	Stem Dia.	Order No.
0-13mm/1/2"	0.01mm/0.0005"	2-1/2"	9.5mm	605-2000
0-13mm/1/2"	0.01mm/0.0005"	60mm	8mm	605-2001
0-6.5mm/1/4"	0.001mm/0.00005"	2-1/2"	9.5mm	605-2020
0-6.5mm/1/4"	0.001mm/0.00005"	60mm	8mm	605-2021
0-13mm/1/2"	0.001mm/0.00005"	2-1/2"	9.5mm	605-2035
0-13mm/1/2"	0.001mm/0.00005"	60mm	8mm	605-2036

Range	Graduation	Shell Size	Stem Dia.	Order No.
0-25mm/1"	0.01mm/0.0005"	2-1/2"	9.5mm	605-2002
0-25mm/1"	0.01mm/0.0005"	60mm	8mm	605-2003
0-25mm/1"	0.005mm/0.0001"	2-1/2"x4"	9.5mm	605-2033
0-25mm/1"	0.005mm/0.0001"	64x100mm	8mm	605-2034

Dial Depth Gages

- Provides rapid, direct reading measurements of hole depths.
- 0-1" Travel indicator with 0.001" Graduation.
- Supplied with fitted case.

Range	Base Size	No. of Rods	Order No.
0-4"	2-1/2"	4	615-6130
0-4"	4"	4	615-6131
0-6"	2-1/2"	6	615-6132
0-6"	4"	6	615-6133
0-8"	2-1/2"	8	615-6134
0-8"	4"	8	615-6135
0-12"	2-1/2"	12	615-6136
0-12"	4"	12	615-6137

- Provides rapid, direct reading measurements of hole depth
- 2 extra points: one 0.078" dia x 1" long, one needle point x 1" long (Order No. 605-0068)
- Furnished in fitted case

Range	Rod Size	Base Size	Grad.	No. of Rods	Order No.
0-8"	1,2,4"	2-1/2"	0.001"	3	615-6144
0-8"	1,2,4"	4"	0.001"	3	615-6145
0-22"	1-6"	2-1/2"	0.001"	6	615-6139
0-22"	1-6"	4"	0.001"	6	615-6138

Electronic Digital Indicator Depth Gages

3 keys, large LCD Screen

- Provides rapid, direct reading measurements of hole depth
- Furnished in fitted case

Range	Graduation	Base Size	No. of Rods	Rod Size	Order No.
0-200mm/8"	0.01mm/0.0005"	2-1/2"	3	1,2,4"	605-6813
0-200mm/8"	0.01mm/0.0005"	4"	3	1,2,4"	605-6814
0-550mm/22"	0.01mm/0.0005"	2-1/2"	6	1-6"	605-6815
0-550mm/22"	0.01mm/0.0005"	4"	6	1-6"	605-6816

- 2 extra points: one 0.078" dia x 1" long, one needle point x 1" long (Order No. 605-0068)

Range	Graduation	Base Size	No. of Rods	Rod Size	Order No.
0-550mm/22"	0.001mm/0.00005"	2-1/2"	6	1-6"	605-6809
0-550mm/22"	0.001mm/0.00005"	4"	6	1-6"	605-6810

Comparator Gages

Metric Dial Comparator Gage

Range: +/- 0.05mm
 Grad: 0.001mm
 Stem Dia.: 8mmH6

Order No.605-5001



Inch Dial Comparator Gage

Range: +/- 0.002"
 Grad: 0.00005"
 Stem Dia.: 3/8"H6

Order No.605-5002



Large Radial Dial Gage

- Easy to measure the radius of cylinders with radius from 100 to 1000mm
- $R=200/h+h/2-3$

Range	Graduation	Order No.
100-1000mm	0.001mm	615-6101



Spherical Radial Dial Gages

- Easy to measure the radius of cylinders item
- Equipped with a shock-proof dial indicator
- $R=200/h+h/2-3$

Range	Graduation	Order No.
15-100mm	0.01mm	615-6111
325-1250mm	0.001mm	615-6112



Digital Large Radial Gage

- Easy to measure the radius of cylinders with radius from 100 to 1000mm
- $R=200/h+h/2-3$

Range	Graduation	Order No.
100-1000mm	0.001mm	615-6105



Digital Spherical Radial Gages

- Easy to measure the radius of cylinders item
- Equipped with a shock-proof dial indicator
- $R=200/h+h/2-3$

Range	Graduation	Order No.
15-100mm	0.01mm	615-6115
325-1250mm	0.001	615-6116



Back Plunger Dial Indicators

Metric Back Plunger Dial Indicators

Range	Grad.	Dial Diameter	Order No.
0-1mm	0.01mm	40mm	605-3801
0-3mm	0.01mm	40mm	605-3803
0-5mm	0.01mm	40mm	605-3805



Inch Back Plunger Dial Indicators

Range	Grad.	Dial Diameter	Order No.
0-0.04"	0.001"	1-3/5"	605-3814
0-0.1	0.001	1-3/5	605-3811
0-0.2	0.001	1-3/5	605-3812
0-0.25	0.001	1-3/5	605-3813



Universal Test Dial Indicator

Features:

- Screws directly into base-no supporting arms needed
- Directly engaged to indicator shaft
- Reaches into deeper holes
- Sensitive plunger

Range	Grad.	Dial Diameter	Order No.
0-0.1"	0.001"	1.65"	605-3822
0-2.5mm	0.02mm	42mm	605-3823



Range	Grad.	Dial Diameter	Holding Rod Dia.	Order No.
0-0.1"/0-0.2"	0.001"	1-3/5"	1/4"	605-3821



Horizontal Test Indicators

- Dial reading: 0-15-0
- Jeweled movement
- Revolution counter
- Easy-to-read tilted dial
- Automatic reversal
- 210° Swivel arc
- Tungsten carbide .080" point

Individual

Range	Grad.	Dial Dia.	Order No.
.060"	.0005"	1.5"	605-5866
1.6mm	0.01mmG	3.8mm	605-5868



Set

Set Includes:

- Large size dial test indicator
- Axial support
- Height gage bar with clamp
- Universal holder
- Adaptor sleeve
- Contact point case
- Contact point wrench
- Finished in fitted

0.06"
 Order No. 605-4870
 1.6mm
 Order No.605-4871



Dial Test Indicators

Horizontal

- Dial Face is 1.26" (32mm), Large Dial Face is 1.57" (39mm)

Range	Grad.	Horizontal Order No.	Horizontal Large Dial Order No.
0.008"	0.0001"	605-4705	605-4905
0.03"	0.001"	605-4701	605-4901
0.03"	0.0005"	605-4709*	
0.03"	0.0005"	605-4710	605-4910
0.12mm	0.001mm	605-4712	605-4912
0.2mm	0.002mm	605-4711	605-4911
0.8mm	0.01mm	605-4713	605-4913



Horizontal with Ruby Contact Point

- Higher resistance to wear.
- Higher hemical and thermal stability.

Range	Graduation	Horizontal Order No.
0.008"	0.0001"	605-5705
0.03"	0.001"	605-5701
0.03"	0.0005"	605-5710
0.03mm	0.0005mm	605-5709*
0.2mm	0.002mm	605-5711
0.12mm	0.001mm	605-5712
0.8mm	0.01mm	605-5713



- Accessory Included: Two stems, 5/32 & 3/8" (inch) or 6 & 8mm (metric).
- Items with "*" supplied in black face.

Vertical

Range	Grad.	Vertical Order No.
0.008"	0.0001"	605-4805
0.03"	0.001"	605-4801
0.03"	0.0005"	605-4810
0.12mm	0.001mm	605-4812
0.2mm	0.002mm	605-4811
0.8mm	0.01mm	605-4813



Horizontal & Vertical with Carbide Contact Point

Range	Grad.	Horizontal Order No.	Vertical Order No.
0.008"	0.0001"	605-4505	605-4405
0.03"	0.001"	605-4501	605-4401
0.03"	0.0005"	605-4510	605-4410
0.03"	0.0005"	605-4509*	
0.12mm	0.001mm	605-5012	605-4412
0.8mm	0.01mm	605-4513	605-4413
0.2mm	0.002mm	605-4511	605-4411



Large Range

Range	Graduation	Accuracy	Order No.
0-.06"	.0005"	.0004"	605-4606
0-1.6mm	.01mm	.008mm	605-4616

Digital Test Indicators

- Function Keys Include: Power on/off key, Zero setting key, Metric/Inch key, Tolerance key.
- Measuring probe: 2.5mm.



Range	Graduation	Face Color	Order No.
+/- 0.5mm/0.02"	0.01mm/0.0005"	Yellow	605-0001
+/- 0.5mm/0.02"	0.01mm/0.0005"	Black	605-0002
+/- 0.5mm/0.02"	0.001mm/0.0001"	Yellow	605-0005
+/- 0.5mm/0.02"	0.001mm/0.0001"	Black	605-0006

Dial Test Indicator Sets

Horizontal Type

Set Includes:

- Test indicator:
- Dial reasing: 0-15-0
- Two contact point
- 3/8" & 1/4" dovetail stems
- contact point wrench
- Height gage bar
- Universal Dovetail clamp
- Finished in fitted plastic case



Total Range	Grad.	Face	Order No.
0.030"	0.0005"	White	605-4707
0.030"	0.0005"	Black	605-4708

Horizontal Test Indicator with Magnetic Base

Magnetic base: Locking screw and two universal ball sockets for setting at any angle position. Microfine adjustment screw. Removable extension arm. Dovetail form holder with lock-

ing control to hold dovetail test indicators. Accepts .250 diameter test indicator stems. The base is finished in wrinkled enamel.

Test Indicator:

- .060" Range
- Graduation: .0005"
- Dial reading: 0-15-0
- Jewelled movement
- Revolution counter
- Automatic reversal
- Swivel arc: 210°
- 3 points: 0.04, 0.08 and 0.12"
- Includes 2 dovetail stems
- Furnished in fitted case

Order No. 605-4874



Test Indicator & Holder Combo Set

Test Indicator:

- .060" Range
- Graduation: .0005"
- Dial reading: 0-15-0
- Jewelled movement
- Revolution counter
- Easy-to-read tilted dial
- Automatic reversal
- Swivel arc: 210°
- 3 points: 0.04, 0.08 and 0.12"
- Includes 2 dovetail stems
- Furnished in fitted case

Quill Type Holder

- 1-7/8" capacity
- Reach from 0-12" dia.
- Adapts immediately for fast and positive indication



Set Order No. 605-4872

Indicator & Magnetic Base Set

Indicator:

- .030" Range
- Graduation: .0005"
- Dial reading: 0-15-0
- Includes carbide tip points: (0.08" dia. by 1/2" long)

Magnetic Holder

- Two universal ball sockets
- Fine adjustment
- Dovetail clamp
- Base 1-3/16" dia., 1" high
- Extension rod 1/4" dia. by 3-1/2"



White Face

Set Order No. 605-4876

Black Face

Set Order No. 605-4877

Accurate Monorail Indicator Holder

- Use in milling machines or holders
- 5/32" Hole in shaft accepts dovetail holder with 5/32" stem
- Excellent device for set ups and measurements
- Aluminum body, 5-1/2" reach
- Locking shaft for secure mounting



Order No. 605-0102

Zero-Set for Test Indicators

Indicator is 0.030" range, 0.0005" grad., 0-15-0 dial reading, Horizontal type. Zero-Set is specially designed for test indicators with dovetails and functions as a quick and practical work positioning device. Setting up a workpiece before machining, or aligning the center of a round workpiece in relation to the cutting head, takes virtually no time with Zero-Set. Attach Zero-Set directly to the collet, then zero-in the work position by reading the test indicator. The hardened clamping post consists of three OD's, from top 1/4", 3/8" and 1/2" and has hardness of approx 58-60 HRC. The illustration indicates the alignment of a workpiece in relation to the cutting head. It reaches anywhere within a 8" diameter and fine adjusts about 3/8" with a large knurled knob. Zero-Set can also be adapted to transfer stands for closer control of the test indicator. Zero-Set attachment allows for the placement of any test indicator equipped with dovetail or 1/4" posts in a multitude of positions and angles up to 90degree on either side, bending both forward and backwards.



Zero Set Only

Order No. 605-0100

Zero Set with Test Indicator

Order No. 605-0130

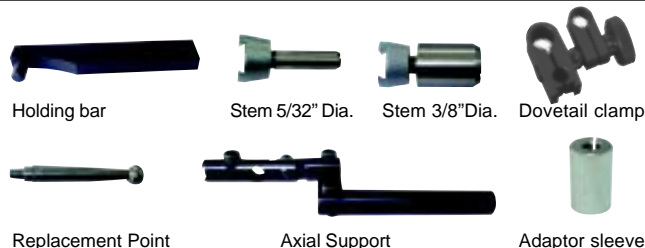
Zero Set Universal Attachment

- For standard ZeroSet indicator accessory.
- Allows the placement of any test indicator with dovertails in a multitude of positions.
- Angles up to 90° on either side
- Allows for an infinite range of measure ments over an extensive area



Order No. 605-0030

Indicator Accessories



Specifications	Order No.
1/4"x1/2" Holding bar with 1/4" pin	605-0031
Stem 5/32" diameter with dovetail washer	605-0032
Stem 3/8" diameter with dovetail washer	605-0033
Dovetail clamp, bore diameter 1/4" and 3/8"	605-0034
Replacement Point 0.04"	605-0035
Replacement Point 0.08"	605-0036
Replacement Point 0.12"	605-0037
Axial Support	605-0038
Adaptor sleeve	605-0039

Indicator Accessories

Special function Dial Indicator Points

- Cold rolled steel, heat treated and plated.
AGD #4-48 standard threads.



Description	Order No.
Radius	605-0007
Offset Chisel Point	605-0008
5/16" Diameter Cone	605-0009
1/16" Needle Stud	605-0010
Roller Anvil	605-0011

Dial Indicator Contact Points

- Standard AGD #4-48 thread fits all standard English dial indicators.
- Cold rolled steel, heat treated and plated.



Dia.	Length	Type	Order No.
1/4"		Flat	605-0027
1/2		Bottom	605-0028
3/16	1"	Tapered	605-0029

Individual Indicator Point

Fits all AGD Group 1,2,3,4 indicator with 4-48 threads.



Code	Type	Length	Order No.
A	Flat	0.175"	605-0101

Gem Indicator Accessory Body Clamp Assembly



Order No. 605-0110

Indicator Holder

- Universal Dovetail Indicator Holder
- 1/4"Dial.x3"OAL



Order No. 605-0040

Rectangular Holder

- 1/4"x1/2" Shank for dovetail and 5/32" Stem Indicators.



Order No. 605-0041

Arm For Indicator



Order No. 605-0109

Half Round Combination Holder

- With two point adjustment 1/4" diameter shank
- Suitable for dovetail and 5/32" stem indicator



Order No.605-0043

22 Piece Indicator Point Sets

- Turns your indicator into 22 different tools
- Fits all brand dial indicator.



Specifications	Order No.
Thread: 0.112"-48	605-0022
Thread: M3-0.5	605-0023

Replacement Tip for Test Indicator

High Quality



Steel Tips	Order No.
.040x1/2"	605-0025

CMM Styli

M2 Threads, Stainless Steel Body, With Grade 10 Ruby Ball



Ball Size	Length	Order No.
1mm Ruby	10mm	605-0024

Square Holder



Range	Order No.
Holding Bar, Inch dovetail fit and 7/32" & 3/8" holes	621-H006
Holding Bar, Metric dovetail fit and 4 & 8mm holes	621-H016
Square Holding Bar 9x9mmx100mm	605-0017

AGD Dial Indicator Contact Points for Indicator with #4-48 Thread

Tungsten Carbide Ball Tip

- Perfect for use in any repetitive measuring application.
- Extremely smooth and hard.
- Will last much longer than standard steel tips.



Ruby Ball Tip

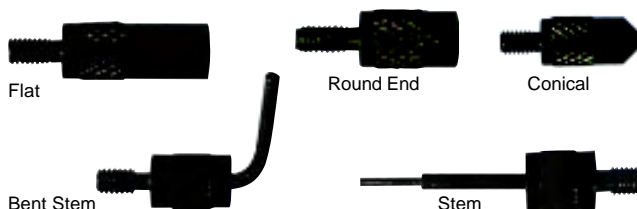
- Use for all measuring applications.
- Hardness offers resistance to wear and chemical and thermal stability.
- Extremely low friction coefficient, negligible thermal expansion.



Tip Length	Ball Size	Thread	Ball Type	Order No.
1/4"	3mm	#4-48	Carbide	605-0020
1/2	3mm	#4-48	Ruby	605-0021

Individual Dial Indicator Points

- Fit standard AGD indicators, #4-48 threads.
- Made of highest quality cold rolled steel, carefully knurled for ease of placement and finished with a high quality protective finish.



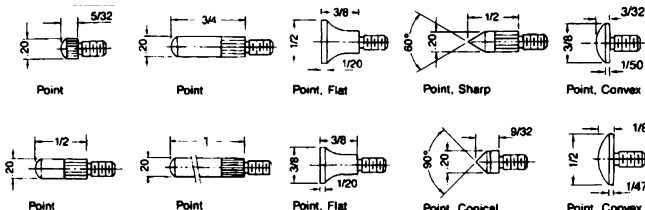
Description	Length	Order No.
Flat	0.625"	605-0012
Round End	0.359	605-0013
Conical	0.500	605-0014
Stem(Bent)	0.312	605-0015
Stem*	1.025	605-0016

*Measuring tip = .250"

Indicator Accessories

Dial Indicator Contact points

605-0063



Description	Length	Dia.	Order No.
Point, Length	5/32"	.20"	605-0056
Point, Length	1/2"	.20"	605-0057
Point, Length	3/4"	.20"	605-0058
Point, Length	1"	.20"	605-0059
Point, Flat	3/8"	1/2"	605-0060
Point, Flat	3/8"	3/8"	605-0061
Point, Sharp	1/2"	.20"	605-0062
Point, Conical	9/32"	.20"	605-0063
Point, Convex	3/32"	3/8"	605-0064
Point, Convex	1/8"	1/2"	605-0065
10Pcs			605-0066

2 extra points

one 0.078" dia x 1" long,
one needle point x 1" long



Order No. 605-0068

Extra Length Contact Points

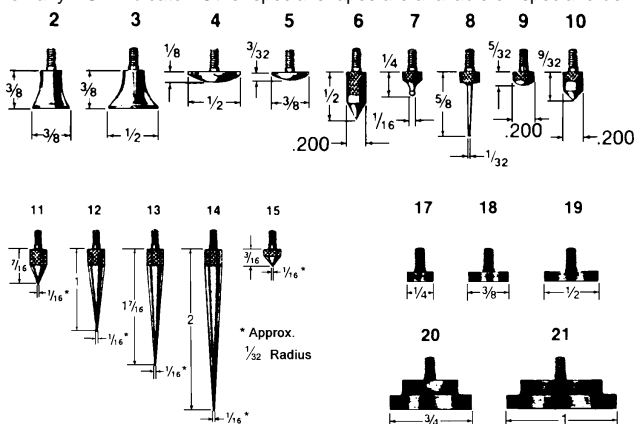
- Used in place of the 1/4" long contact point furnished on dial indicators.
- Standard lengths from 1/2" to 3" in 1/4" increments.
- Diameter 13/64"; #4-48 screw thread.
- Made from high grade steel, hardened, ground and chrome plated.



Length	Rounded End Order No.	Flat End Order No.
1/4"	605-0069	605-0169
1/2"	605-0070	605-0170
3/4"	605-0071	605-0171
1"	605-0072	605-0172
1-1/4"	605-0073	605-0173
1-1/2"	605-0074	605-0174
1-3/4"	605-0075	605-0175
2"	605-0076	605-0176
2-1/4"	605-0077	605-0177
2-1/2"	605-0078	605-0178
2-3/4"	605-0079	605-0179
3"	605-0080	605-0180

Special form Contact Points

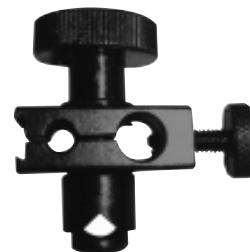
Special Contact Points are furnished in fourteen shapes. Knurled diameter is approximately 13/64" (5 mm). All have #4-48 screw thread and can be used on any AGD indicator. Other special shapes are available on special order.



Special Form No.	Dia.	Length	Order No.
2	3/8"	3/8"	605-0081
3	1/2"	3/8"	605-0082
4	1/2"	1/8"	605-0083
5	3/8"	3/32"	605-0084
6	.2	1/2"	605-0085
7	1/16"	1/4"	605-0086
8	1/32"	5/8"	605-0087
9	.2	5/32"	605-0088
10	.2	9/32"	605-0089
11	1/16"	7/16"	605-0090
12	1/16"	1	605-0091
13	1/16"	1-7/16"	605-0092
14	1/16"	2	605-0093
15	1/16"	3/16"	605-0094
17	1/4"		605-0095
18	3/8"		605-0096
19	1/2"		605-0097
20	3/4"		605-0098
21	1		605-0099

Swivel Joint Clamp for Test Indicators

Adapting indicators to holding bars, height gage attachments, long and short arm attachment, and jointed attachment, etc.



Hole Dia.	OAL	Order No.
5/16", 1/4"	1-3/4"	605-0042
1/4, 1/4	1-3/4	605-0044
5/16, 5/32	1-3/4	605-0045
3/8, 1/4	1-3/4	605-0046
5/16, 5/16	1-3/4	605-0047
3/8, 5/16	1-3/4	605-0048
3/8, 3/8	1-3/4	605-0049
1/2, 3/8	2-1/16"	605-0050

Inside Dial Calipers



Travel 10mm

Range	Order No.	Range	Order No.
5-15mm	612-5001	0.2-0.6"	612-5011
10-20mm	612-5002	0.4-0.8"	612-5012
20-30mm	612-5003	0.8-1.2"	612-5013
30-40mm	612-5004	1.2-1.6"	612-5014
40-50mm	612-5005	1.6-2.0"	612-5015

Travel 20mm

Range	Order No.	Range	Order No.
5-25mm	612-5006	0.2-1.0"	612-5016
10-30mm	612-5007	0.4-1.2"	612-5017
20-40mm	612-5008	0.8-1.6"	612-5018
30-50mm	612-5009	1.2-2.0"	612-5019
40-60mm	612-5010	1.6-2.4"	612-5020



Travel 10mm

Range	Order No.	Range	Order No.
5-15mm	612-5021	0.2-0.6"	612-5031
10-20mm	612-5022	0.4-0.8"	612-5032
20-30mm	612-5023	0.8-1.2"	612-5033
30-40mm	612-5024	1.2-1.6"	612-5034
40-50mm	612-5025	1.6-2.0"	612-5035

Travel 20mm

Range	Order No.	Range	Order No.
5-25mm	612-5026	0.2-1.0"	612-5036
10-30mm	612-5027	0.4-1.2"	612-5037
20-40mm	612-5028	0.8-1.6"	612-5038
30-50mm	612-5029	1.2-2.0"	612-5039
40-60mm	612-5030	1.6-2.4"	612-5040

Internal Dial Caliper Gages

- Bezel rotates for zero setting.
- Button for opening arms.

Inch Size Graduation:0.001"
Metric Size Graduation:0.025mm

Size	Order No.	Size	Order No.
0.375-1.375"	612-0005	10-35mm	612-0305
0.750-1.750"	612-0010	20-45mm	612-0310
1.125-2.125"	612-0015	30-55mm	612-0315
1.500-2.500"	612-0020	40-65mm	612-0320
1.875-2.875"	612-0025	50-75mm	612-0325
2.250-3.250"	612-0030	60-85mm	612-0330
2.875-3.875"	612-0035	75-100mm	612-0335
3.250-4.250"	612-0040	85-110mm	612-0340
3.625-4.625"	612-0045	95-120mm	612-0345
4.000-5.000"	612-0050	100-125mm	612-0350



Outside Dial Calipers



Travel 10mm

Range	Order No.	Range	Order No.
0-10mm	612-5041	0-0.4"	612-5051
10-20mm	612-5042	0.4-0.8"	612-5052
20-30mm	612-5043	0.8-1.2"	612-5053
30-40mm	612-5044	1.2-1.6"	612-5054
40-50mm	612-5045	1.6-2.0"	612-5055

Travel 20mm

Range	Order No.	Range	Order No.
0-20mm	612-5046	0-0.8"	612-5056
10-30mm	612-5047	0.4-1.2"	612-5057
20-40mm	612-5048	0.8-1.6"	612-5058
30-50mm	612-5049	1.2-2.0"	612-5059
40-60mm	612-5050	1.6-2.4"	612-5060



Travel 10mm

Range	Order No.	Range	Order No.
0-10mm	612-5061	0-0.4"	612-5071
10-20mm	612-5062	0.4-0.8"	612-5072
20-30mm	612-5063	0.8-1.2"	612-5073
30-40mm	612-5064	1.2-1.6"	612-5074
40-50mm	612-5065	1.6-2.0"	612-5075

Travel 20mm

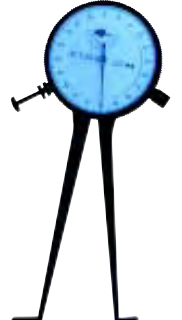
Range	Order No.	Range	Order No.
0-20mm	612-5066	0-0.8"	612-5076
10-30mm	612-5067	0.4-1.2"	612-5077
20-40mm	612-5068	0.8-1.6"	612-5078
30-50mm	612-5069	1.2-2.0"	612-5079
40-60mm	612-5070	1.6-2.4"	612-5080

External Dial Caliper Gages

- Bezel rotates for zero setting.
- Button for opening arms.

Inch Size Graduation:0.001"
Metric Size Graduation:0.025mm

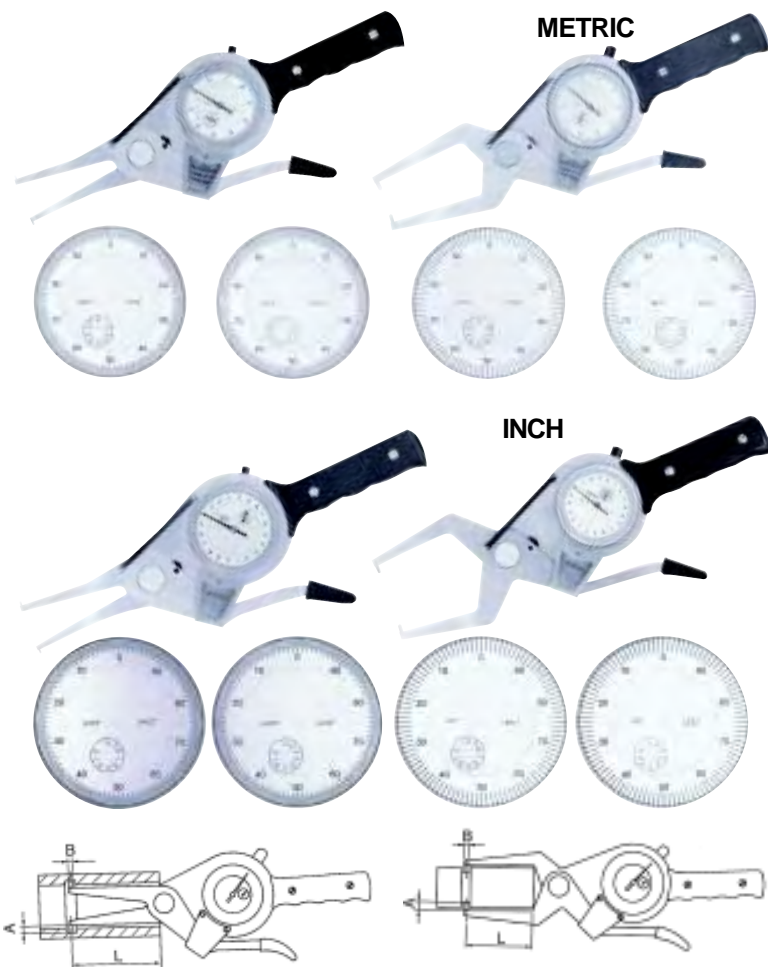
Size	Order No.	Size	Order No.
0-1"	612-0105	0-25mm	612-0205
0.375-1.375"	612-0110	10-35mm	612-0210
0.750-1.750"	612-0115	20-45mm	612-0215
1.125-2.125"	612-0120	30-55mm	612-0220
1.500-2.500"	612-0125	40-65mm	612-0225
1.875-2.875"	612-0130	50-75mm	612-0230
2.250-3.250"	612-0135	60-85mm	612-0235
2.875-3.875"	612-0140	75-100mm	612-0240
3.250-4.250"	612-0145	85-110mm	612-0245
3.625-4.625"	612-0150	95-120mm	612-0250



Inside & Outside Dial Calipers

Scale Model 0-50-100
Graduation: .01mm

The dial caliper gauges are attachment to the 6-jewel shockproof dial indicator.



Metric Inside

Range	A	B	L	Order No.
15-35mm	3	3	50	612-8005
35-55mm	6	3	80	612-8010
55-75mm	8	3	100	612-8015
75-95mm	8	3	100	612-8020
95-115mm	10	3.2	150	612-8025
115-135mm	10	3.2	150	612-8030

Metric Outside

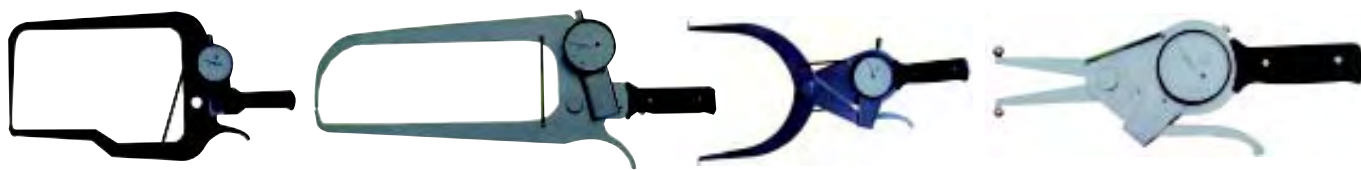
Range	A	B	L	Order No.
0-20mm	6	3	60	612-8035
20-40mm	6	3	60	612-8040
40-60mm	6	3	55	612-8045
60-80mm	6	3	55	612-8050
80-100mm	6	3	55	612-8055

Inch Inside

Range	Grad.	A	B	L	Order No.
0.6-1.4"	.0005"	0.118"	0.118"	1.9"	612-8105
1.4-2.2"	.0005"	0.236	0.118	3.1	612-8110
2.2-3.0"	.0005"	0.315	0.118	3.1	612-8115
3.0-3.8"	.0005"	0.315	0.118	3.9	612-8120
0.6-1.4"	.001"	0.118	0.118	1.9	612-8106
1.4-2.2"	.001"	0.236	0.118	3.1	612-8111
2.2-3.0"	.001"	0.315	0.118	3.1	612-8116
3.0-3.8"	.001"	0.315	0.118	3.9	612-8121

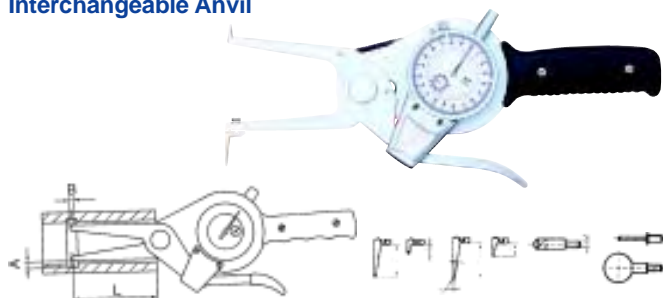
Inch Outside

Range	Grad.	A	B	L	Order No.
0-0.8"	.0005"	0.236	0.118	2.3	612-8135
0.8-1.6"	.0005"	0.236	0.118	2.3	612-8140
1.6-2.4"	.0005"	0.236	0.118	2.1	612-8145
2.4-3.2"	.0005"	0.236	0.118	2.1	612-8150
3.2-4.0"	.0005"	0.236	0.118	2.1	612-8155
0-0.8"	.001"	0.236	0.118	2.3	612-8136
0.8-1.6"	.001"	0.236	0.118	2.3	612-8141
1.6-2.4"	.001"	0.236	0.118	2.1	612-8146
2.4-3.2"	.001"	0.236	0.118	2.1	612-8151
3.2-4.0"	.001"	0.236	0.118	2.1	612-8156



Internal Dial Caliper Gages

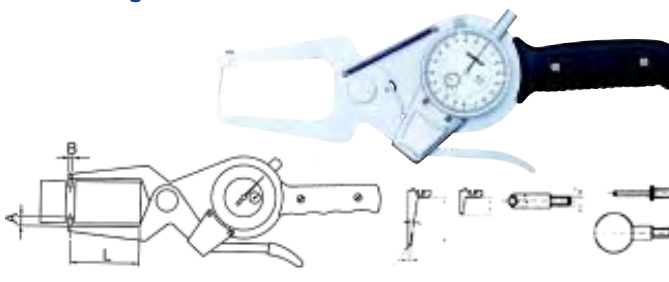
Interchangeable Anvil



Range	Graduation	A	B	L	Order No.
35-55-75mm	0.01mm	10mm	3mm	80mm	612-8302
75-95-115mm	0.01mm	10mm	3mm	100mm	612-8304
115-135-155mm	0.01mm	10mm	3mm	150mm	612-8306

External Dial Caliper Gages

Interchangeable Anvil



Range	Graduation	A	B	L	Order No.
0-20-40mm	0.01mm	10mm	3mm	70mm	612-8312
40-60-80mm	0.01mm	10mm	3mm	70mm	612-8314
80-100-120mm	0.01mm	10mm	3mm	98mm	612-8316

Dial Thickness Gages

- Integrative main body machined from aluminum
- Somatological lifting handle
- Upward shockproof



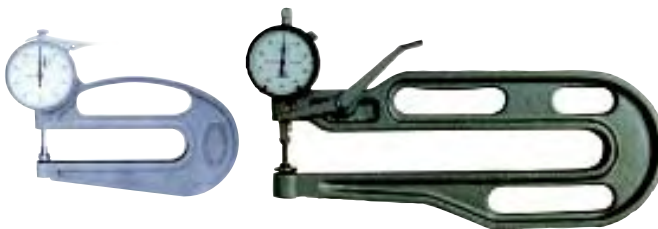
Steel Contact Point and Anvil

Range	Grad.	Throat Length	Throat Depth	Anvil Dia.	Order No.
0-0.5"	0.001"	1.02"	.84"	.394"	615-6235
0-0.5"	0.0005"	1.02"	.84"	.394"	615-6237
0-10mm	0.01mm	21.3mm	26mm	10mm	615-6239



Ceramic Contact Point and Anvil

Range	Grad.	Throat Length	Throat Depth	Order No.
0-0.5"	0.001"	1.02"	.84"	615-6236
0-0.5"	0.0005"	1.02"	.84"	615-6238
0-10mm	0.01mm	21.3mm	26mm	615-6240



Range	Grad.	Throat Depth	Order No.
0-0.5	0.001"	4.72"	615-6391
0-10mm	0.01mm	120mm	615-6390
0-10mm	0.01mm	200mm	615-6375
0-10mm	0.01mm	260mm	615-6376

Range	Grad.	Throat Depth	Order No.
0-0.05"	0.0001"	1.18"	615-6225
0-0.5"	0.001"	1.18"	615-6215
0-1.0"	0.001"	1.18"	615-6214
0-10mm	0.01mm	21.3mm 26mm 10mm	615-6216
0-10mm	0.01mm	20mm 30mm 6.0mm	615-6210



Digital Thickness Gages

- Convenient "Snap Action" instruments with LCD readout.
- By pressing down and releasing the thumb lever these gages allow quick and efficient checking of workpiece thickness up to .5"(12.7mm).
- 7 Keys, Includes: TOL, SET, ABS, RANGE, in/mm, DIR, ZERO/ON/OFF.

Range: 0-.5"/0-12.7mm

Display: 7-Digit LCD with [-] sign .000"/0.01mm with SPC output

Battery life: Approx. 1 year under ordinary operating conditions



Order No. 615-6405

Dial Thickness Gages

Roller Type

Range: 0-10mm
Graduation: 0.01mm



Range	Grad.	Order No.
0-10mm	0.01mm	615-6380

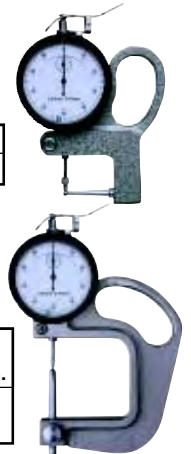
for Pipe

Inside Dia. of Pipe: >4.0mm

Range	Grad.	Order No.
0-10mm	0.01mm	615-6395

Used for lens center

Range	Grad.	Max. Dia.	Distance	Order No.
0-10mm	0.01mm	58mm	25mm	615-6365
0-10mm	0.01mm	120mm	55mm	615-6360



"A"

"B"

"Knob"

Range	Grad.	Type A Order No.	Type B Order No.
0-0.5"	0.001"	615-6374	615-6274
0-0.5"	0.005"	615-6372	615-6272
0-1"	0.005"	615-6373	615-6273
0-10 mm	0.1 mm	615-6370	615-6270
0-20 mm	0.1 mm	615-6371	615-6271

	Grad.	knob Type Order No.
0.4"	0.01"	615-6284
0.4"	0.001"	615-6282
0.4"	0.0005"	615-6283
0-10 mm	0.02 mm	615-6280
0-10 mm	0.01 mm	615-6281

Mini Digital Thickness Gages

Features:

- Large LCD for easy reading
- Lightweight and portable
- Used for measuring the thickness of paper, leather, jewelry and sheet metal etc.
- Manual or Auto power on/off
- Zero setting at any position,
- Metric/inch system conversion at any position
- Accuracy: 0.03mm/0.001"



Range	Grad.	Order No.
0-12.7mm/0.5"	0.01mm/0.0005"	615-6407

Dial Thickness Gage

with Base



Range	Graduation	Throat Length	Throat Depth	Order No.
0-10mm	0.01mm	32mm	40mm	615-6230

Digital Thickness Gages

- Zero setting at any position.
- Metric/Inch system interchange at any position.
- With data output interface.
- Data holding function.
- Fast tracing of minimum value or maximum value during measurements.
- Auto power on/off.
- Easy to measure the thickness of paper, cable, metal foil etc.



Range	Grad.	Throat depth	Order No.
10mm/0.4"	.01mm/.0005"	30mm	615-6356
10mm/0.4"	.01mm/.0005"	120mm	615-6357

Digital Thickness Gage

- Zero setting at any position.
- Metric/Inch system interchange at any position.
- With data output interface.
- Auto power on/off.



Range	Grad.	Throat depth	Order No.
0-10mm/0.4"	.01mm/.0005"	15mm	615-6408

Foil-Thickness Gage



Range	Grad.	Depth	Dia.	Order No.
0-10mm	0.001mm	25mm	6mm	615-6385

Pocket Thickness Gages

Easy zero point adjustment bezel.



Range	Grad.	Order No.
0-0.5"	0.0005"	615-5205
0-0.5"	0.001"	615-5210
0-10mm	0.01mm	615-5215
0-20mm	0.01mm	615-5220

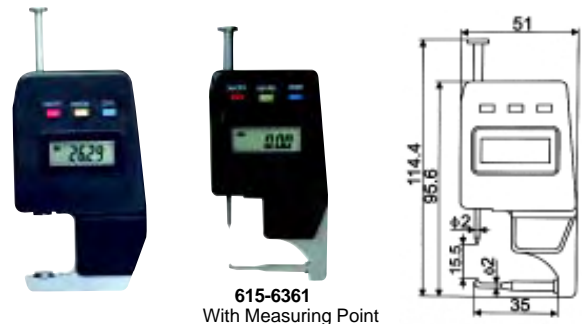
Electronic Pocket Thickness Gage

- Manual power On/Off.
- Zero setting and Metric/Inch conversion.
- Measuring faces are lapped and polished.
- Measuring anvil and spindle are made of stainless steel.



Range	Grad.	Order No.
0-10mm/0.4"	0.01mm/0.0005"	615-6358

Electronic Digital Thickness Gages



615-6361
With Measuring Point

Range	Grad.	Order No.
0-10mm/0.4"	0.01mm/0.0005"	615-6345
0-15mm/0.6"	0.01mm/0.0005"	615-6350
0-25mm/1"	0.01mm/0.0005"	615-6355
0-15mm/0.6"	0.01mm/0.0005"	615-6361

Mini Dial Thickness Gage

Features:

- Dial reads 0.001" and includes revolution counter reading each 0.100".
- Easily zeroed for comparator measurements by rotating the dial bezel.
- 11/16" throat depth and 13/32" capacity.
- Nonmetallic insulating plates and serrated thumb-wheel for lifting the anvil.



Range	Graduation	Order No.
0-10mm	0.01mm	615-5230
0-0.4"	0.001"	615-5231

Quick Mini Thickness Gages

Horizontal Type

- Manual power on/off.
- Zero setting at any position.
- Metric/Inch system conversion ant any pasition.
- With data output interface



615-6508



615-6506

Range	Graduation	Order No.
0-12mm	0.01mm/0.0005"	615-6506
0-25mm	0.01mm/0.0005"	615-6508
0-5mm	0.001mm/0.00005"	615-6510

Carbon Fiber Digital Thickness Gages

Features:

- Large LCD for easy reading
- Lightweight and portable
- Used for measuring the thickness of paper, leather, jewelry, sheet metal and magnetic objects etc.
- Manual or Auto power on/off
- Zero setting at any position,
- Metric/inch system conversion at any position
- Range: 0-12.7mm/0.5"
- Resolution: 0.01mm/0.0005"
- Accuracy: 0.03mm/0.001"



Range	Graduation	Order No.
0-12.7mm	0.01mm/0.0005"	615-6511

Electronic Digital Thickness Gages

Features:

- Power on/off
- Mm/inch conversion at any position
- Zero-setting at any position
- Data output
- Usually to measure dimensions of small workpieces



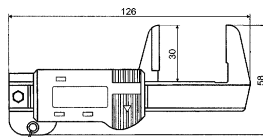
Range	Grad.	Order No.
0-15mm	0.01mm/0.0005"	101-5608
0-25mm	0.01mm/0.0005"	101-5610

Digital Snap Caliper

With Single Wide Measuring Face

Features:

- Light weight
- High efficiency
- Used to measure dimensions of small workpieces
- Power on/off
- Mm/inch conversion at any position
- Zero-setting at any position
- Data output
- Accuracy 0.03mm



Range	Graduation	Order No.
0-12"/30mm	.0005"/.001mm	101-5602

Dial Jewel Gage

Easy to measure the dimension of a precious stone inserted in a ring or the inside diameter of a ring



Range	Graduation	Order No.
0-20mm	0.01mm	615-6290

Electronic Digital Thickness Gages

Features:

- Power on/off
- Mm/inch conversion at any position
- Zero-setting at any position
- Data output
- Usually to measure dimensions of small workpieces



Range	Graduation	Order No.
0-20mm	0.01mm/0.0005"	615-6501
0-25mm	0.01mm/0.0005"	615-6502
0-15mm	0.005mm/0.0002"	615-6503
0-20mm	0.005mm/0.0002"	615-6504

Digital Thickness Gages

Features:

- High efficiency
- Mm/inch conversion at any position
- Zero setting
- Power on/off



Range	Graduation	Order No.
0-35mm	0.01mm/0.0005"	101-6512

Digital Thickness Gages for on line

Features:

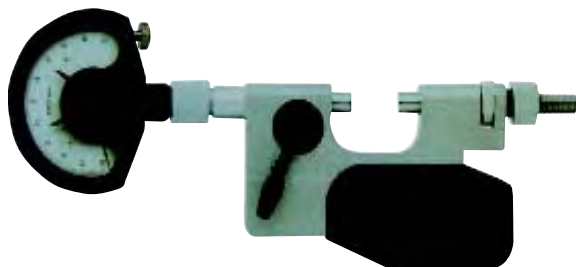
- Continuous measurement in the assembly line
- High efficiency
- Mm/inch conversion at any position
- Zero setting
- Power on/off



Range	Graduation	Order No.
0-30mm	0.01mm/0.0005"	101-6519

Dial Lever snap Gages

- Lightweight, handy frame
- Highly versatile, large range and can be quickly and easily set to any size within its range
- Hardened and ground measuring spindles
- Lever controlled retraction ensures easy job insertion
- Adjustable center-stop for alignment
- Carbide tipped measuring faces ensures better wear resistance.



Range	Graduation	Order No.
0-25mm	0.001mm	615-6674
25-50mm	0.001mm	615-6675
50-100mm	0.001mm	615-6676
0-1"	0.00005"	615-6677
1-2"	0.00005"	615-6678
2-4"	0.00005"	615-6679

Gear Tooth Span Comparator

Features

Combines precision rack and gear with round capacitive sensor

Easy to measure the gear wheel's teeth span which module is bigger than 1mm



Range	Graduation	Order No.
20-40mm	.001mm/0.00005"	615-6301
40-60mm	.001mm/0.00005"	615-6302
60-80mm	.001mm/0.00005"	615-6303

Crackle Meter

Used for measuring the concave mark and crackle of pipe.



Range	Graduation	Order No.
0-3mm	0.01mm	615-6680

Digital Snap Gages

The adjustable snap gages allow for quick and accurate measurement of all kinds of outer diameter up to 300mm.

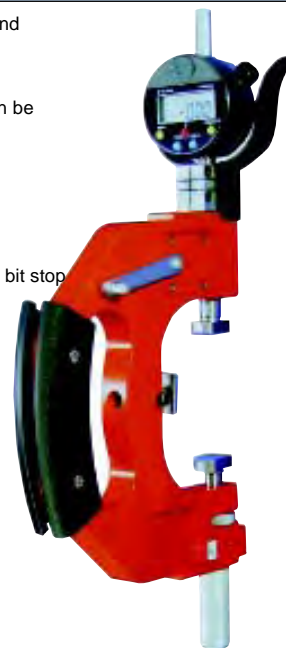
Any diameter deviation is displayed and can be read directly from the dial indicator.

Features:

- Cast bow in sturdy construction
- Micro lapped carbide surfaces
- Large measuring surfaces and adjustable bit stop
- Receiver for dial indicator
- Including hand guard

Option parts:

Micrometer stand



Range	Grad.	Parallelism of Measuring Faces (μm)	Order No.
0-25mm	0.001mm	2	615-6661
25-50	0.001mm	2	615-6662
50-75	0.001mm	3	615-6663
75-100	0.001mm	3	615-6664
100-125	0.001mm	4	615-6665
125-150	0.001mm	4	615-6666
150-175	0.001mm	5	615-6667
175-200	0.001mm	5	615-6668
200-225	0.001mm	5	615-6669
225-250	0.001mm	6	615-6670
250-275	0.001mm	6	615-6671
275-300	0.001mm	6	615-6672

Dial snap Gages



Order No. 612-0261



Order No. 612-0262



Order No. 612-0263



Order No. 612-0264



Range	Grad.	Order No.
0-10mm	0.05mm	612-0261
0-10mm	0.05mm	612-0262
0-10mm	0.05mm	612-0263
0-0.5"	0.0025"	612-0264

Centering Indicators

- All points and feelers included free precision measuring indicator.
- Designed for centering a work piece or fixture.
- Operates at any angle.
- Uses vertically or horizontally.
- Used for internal or external diameter.
- While spindle rotates, the centering indicator always faces the operator.
- Fitted plastic case.



Sets

Description	Order No.
Inch Size Set	607-4904
Metric Size Set	607-4905

Metric Set Specification

Range	0-3mm
Length of Straight Feeler	45,100,154mm
Length of Curved Feeler	45,100,154mm
Length of Centre Point Feeler	52.5mm

Inch Set Specification

Length	6-7/8"
Shank	3/8" dia. X 7/8" long
Weight	9-1/2" oz net 1 lbs. 14 oz
Feeler ball	1/8" diameter
Measuring range	.250" axis offset
Capacity	Internal: 5/32 to 4-1/4" diameter External: 0 to 4-1/4" diameter
Speed	It is recommended that operation speed not exceed 800 RPM approximately
Locating accuracy	To within 0.0002" or true center
Graduation	0.0005"

Z-Axis Setters

Zero setting for CNC Machine

- Establishing of "0" reference point with built in indicator.
- Positioning accuracy and repeatability 0.0004"/0.01mm.
- 1.45"/37mm Square, 2"/50mm Height.



Height	Grad.		Order No.
2"	0.0005"	without Magnetic Base	805-4002
2"	0.0005"	with Magnetic Base	805-4004
50mm	0.01mm	without Magnetic Base	805-4001
50mm	0.01mm	with Magnetic Base	805-4003

Electronic Z- Axial Preset Gages

- With magnetic base(Dia.13.5mm).
Probe face(Dia.56mm)
- The red lamp will light up when touched.
- Combined vertical and horizontal in a unit.
- Weight:0.5kgs



Height	Accuracy	Order No.
2"	0.0002"	805-4015
50mm	0.005mm	805-4010

3D Alignment Indicators

Efficiently finds edge, center or depth with jig bore, milling machines, lathes, CNC and EDM

- Convenient, rapid, accurate measurement on three axis-X,Y and Z.
- Physical characters of ruby sensing tip features: resistance against wear and negligible thermal expansion.
- Clamping shank diameter: 3/4"/20mm.
- Accuracy: .0004"/0.01mm.
- The stylus mechanism has a full 360°.



Radial Range	Radial Grad.	Axial Range	Axial Grad.	Sensing Tip Types	Order No.
0.4"	0.0005"	0.25"	0.00016"	Ruby	605-3000
0.4"	0.0005"	0.25"	0.00016"	Steel	605-3001
10mm	0.01mm	6mm	0.0032	Ruby	605-3005
10mm	0.01mm	6mm	0.0032	Steel	605-3006

Zero Setter

- Precision mechanical zero-setting instruments for CNC machine centers
- Direct establishing of "0" points eliminates the need of several spindle approaches
- Positive alignment of zero position with easy reading precision indicator
- 0.0005" Graduation
- Spring loaded setting face to safeguard against damage from overrun
- Positioning accuracy and repeatability 0.0004"
- 1.45" Diameter x 1" high
- Includes fitted case



Order No. 805-4017

Z-Axis Setters

- Low spring force to avoid breaking of small size end mills and drills.
- Easy to be calibrated by a parallel or gage block.
- Made of stainless steel.



Build in Dial Style

Setting Height	ing Range	Grad.	Accuracy	Order No.
2"	0-0.1"	0.001"	0.0004"	805-4006
50mm	0-2mm	0.01mm	0.008mm	805-4005

Plug in Dial Style

Setting Height	Measuring Range	Grad.	Accuracy	Order No.
2"	0-0.1"	0.001"	0.0004"	805-4008
50mm	0-2mm	0.01mm	0.008mm	805-4007



Edge & Center Finders

- Helps ensure accuracy by releasing an audible click when the tip jumps.
- Available in three sizes: 1/2", 3/8" and 10mm.
- Hardened and ground on all working surface.

Center Finders



Shank Dia.	Order No.
3/8"	805-3131
1/2"	805-3133

Combo Edge/Center Finders



Shank Dia.	Tip Dia.	Order No.
3/8"	.200"	805-3141
1/2"	.200"	805-3143

Micro Edge Finders



Shank Dia.	Tip Dia.	Order No.
3/8"	.200"	805-3121
3/8"	10mm	805-3127
1/2"	.200"	805-3123
1/2"	.500"	805-3125
10mm	10mm	805-3129

Edge Finders



Shank Dia.	Tip Dia.	Order No.
3/8"	10mm	805-3161
1/2"	.500"	805-3165
10mm	10mm	805-3163

Rotary Edge Finders



Shank Dia.	Tip Dia.		Order No.
3/8"	4mm	Large Shoulder Joint	805-3111
3/8"	6mm		805-3115
3/8"	10mm	Large Shoulder Joint	805-3113
10 mm	4mm	Large Shoulder Joint	805-3101
10 mm	6mm	Large Shoulder Joint	805-3105
10 mm	10mm		805-3103

Shank Dia.	Tip Dia.		Order No.
3/8"	.20"	single end	805-3112
1/2"	.20"	single end	805-3116
1/2"	.20"/.50"	Double end	805-3118



Electronic Edge Finders

- Repeatability within .0002"/0.005mm.
- Made of stainless steel.
- Feature LED light.
- Two 1.5V cell batteries included.
- With 10mm diameter probe.



Beep Alert

Repeatability	Shank Dia	Overall Length	Order No.
.0002"/0.005mm	3/4"/20mm	7-1/2"/190mm	805-3017
.0002"/0.005mm	1-1/4"/32mm	7-1/2"/190mm	805-3018



Short Shank

Repeatability	Shank Dia	Overall Length	Order No.
.0002"/0.005mm	3/4"/20mm	3-7/8"/97mm	805-3011
.0002"/0.005mm	1-1/4"/32mm	3-7/8"/97mm	805-3012

Long Shank

Repeatability	Shank Dia	Overall Length	Order No.
.0002"/0.005mm	3/4"/20mm	6-7/10"/170mm	805-3015
.0002"/0.005mm	1-1/4"/32mm	6-7/10"/170mm	805-3016

Center Finder Set

For accurately locating working points on drill presses, milling and other machines

Individual

Description	Order No.
.236" Indicator Holder	805-3311
.250" Ball Contact	805-3312
Chuck Body	805-3313
.100" Disc Contact	805-3314
Needle Point	805-3315



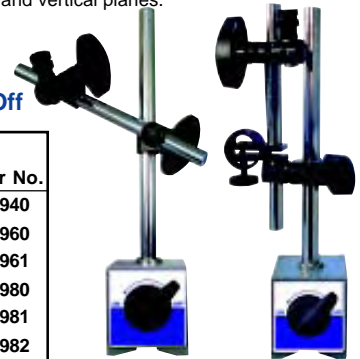
Set Order No. 805-3305

Magnetic Stands

- Accepts all A.G.D dial indicators with lug backs.
- Accepts dial test indicator stems .375"/9.52mm dia. and .156"/3.96mm dia.
- On and off lever releases magnet, base doesn't have to be pulled off, no risk of marring polished surfaces.
- Universal adjustment in horizontal and vertical planes.
- Quick adjustment clamp.

Base Only with Switch On/Off

Magnetic Power	Dimensions	Order No.
40kgs	63x50x55mm M8	625-0940
60kgs	63x50x55mm M8	625-0960
70kgs	70x45x65mm M10	625-0961
80kgs	70x50x55mm M8	625-0980
80kgs	70x50x55mm M10	625-0981
100kgs	88x50x55mm M10	625-0982



Standard Fine Adjustment

Magnetic Power	Working Stem	Base Size	Standard Order No.	With Fine Adjustment Order No.
40kgs	176mm/12mm	63x50x55mm	625-0300	625-0340
60kgs	176mm/12mm	63x50x55mm	625-0301	625-0341
80kgs	176mm/12mm	70x50x55mm	625-0302	625-0342
60kgs	225mm/16mm	63x50x55mm	625-3301	625-3341
80kgs	225mm/16mm	70x50x55mm	625-3302	625-3342
100kgs	360mm/20mm	88x50x55mm		625-0360

Universal Magnetic Base Holders

- Multi-nimble joint for instant fixation in any position.
- Fits dovetail & 3/8" or 8 mm stem indicator.
- Fine adjustment knob.
- On-off switch on base.



Steel Arm Alloy Arm

Magnetic Power	Base Size	Steel Arm Order No.	Alloy Arm Order No.
40kgs	2x2x2-1/8"	625-1140	625-1141
60kgs	2-1/2x2x2-1/8"	625-1160	625-1161
80kgs	2-3/4x2x2-1/8"	625-1180	625-1181

Hydraulic Universal Magnetic Stands

- Unique hydraulic clamping system.
- Can hold all style dial indicators and dial test indicators.
- On-off switch base.



Magnetic Working Power	Stem	Base Dimension	Steel Arm Order No.	Alloy Arm Order No.
40kgs	380	63x50x55mm	625-1340	625-1342
60kgs	380mm	63x50x55mm	625-1360	625-1362
80kgs	380mm	70x50x55mm	625-1380	625-1382

Flexible Stem Magnetic Base Holders

- Stem flexes almost 360 degree.
- Locks into exact position with a cam lever-operated cable and tension adjustment.
- Accept all AGD type indicator

Power	Base Size	Order No.
40kgs	2-1/2x2x2-1/8"	625-1040
60kgs	2-3/4x2x2-1/8"	625-1060
80kgs	2-3/4x2x2-1/8"	625-1080



Easy Lock Universal Magnetic Bases

- Multi-nimble joint for instant fixation in any position.
- Fits dovetail & 3/8" or 8 mm stem indicator.
- Fine adjustment knob.
- On-off switch on base.
- Indicator not included

Power	Base Size	Order No.
40kgs	2-1/2x2x2-1/8"	625-1084
60kgs	2-3/4x2x2-1/8"	625-1085
80kgs	2-3/4x2x2-1/8"	625-1086



Flexible Stem Magnetic Base Holders

- Accept dial test indicators, digital indicators and normal indicators
- Locks into exact position with a cam lever-operated cable and tension adjustment.
- Dovetail groove for clamping a dial test indicator, end hole with bushing for holding 3/8" stem or 8mm stem.
- Stem Length 360mm

Power	Base Size	Order No.
40kgs	2-1/2x2x2-1/8"	625-1081
60kgs	2-3/4x2x2-1/8"	625-1082
80kgs	2-3/4x2x2-1/8"	625-1083



Extra Stem Magnetic Bases

- Fine adjustment.
- On-off switch on base.
- Extra Stem, one main stem, two branch stems

Power	Base Size	Main Stem	Order No.
60kgs	60x50x55mm	φ20x170mm	625-0350
80kgs	73x50x55mm	φ20x400mm	625-0351



Flexible Indicator Holder

- Ideal for very tight work areas.
- Mounted pot magnetic base - 1-3/8" diameter x 1-1/8" high, 25 lbs. pull with 5" post and fine adjustment.

Order No. 625-0575

- Ideal for very tight work areas
- Mounted pot magnetic base- square, 25 lbs. pull with 5" post and fine adjustment
- Indicator not included

Order No. 625-1025



DIN Magnetic Stands

- 70 kg pull, switch On/Off base 70x45x65mm. M10
- Working stem φ16x230mm/φ12x200mm. M10
- With fine adjustment.

Description	Order No.
Base & Holder Set	625-0343
Dial Gage Holder Only	625-0201
Base Only	625-0961



Flexible Arm Magnetic Base Holder

This product is made under the advanced technology .It is an ideal tool used for trusting random angle and internal hole.

Magnetic Power: 60kgs
Stem Length: 360mm
Stem Diameter: 16mm
Base Size: 60x50x55mm

OrderNo.625-0950



Plastic Casing Magnetic Stand

Magnetic Power: 60lbs/30kgs
Overall Height: 6"
Branch Column Length: 4-1/2"
Base Size: 1-1/2x1-1/2x1-3/4"
Weight: 2.1lbs

Order No. 625-0015



SL Series Magnetic Stand

with fine guide screw adjustment

- Feature fine guide screw adjustment
- With different magnetic base
- Accept dial test indicator
- Stems: $\phi 8.0$ or $\phi 3/8$ "
- Main stem: $\phi 12 \times 190$ mm
- Height gage bar
- Branch stem: $\phi 10 \times 190$ mm



Order No. 625-0017

Vacuum Base Holder

With Suction Base

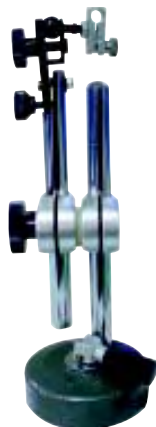
- Standard holder mounted on a powerful Vacuum Base
- Most useful on granite plates or other non-magnetic smooth surface
- features an 80mm diameter powerful suction pad
- ON/OFF lever for easy attaching of removing
- 3-1/2" Dia, M8x1.25 Mounting



Order No. 625-0041



Order No. 625-0042



Order No. 625-0040

Surface Gages

- Base and scriber are hardened.
- Bottom grooved for cylindrical work.
- Front recessed for depressing spindle below base level.
- Features fine adjustment.
- Base has 2 retractable gage pins to set against edge of a surface plate.
- Test indicator order No. 605-4710.



Surface gages

Description	Order No.
4 & 7" Spindles	625-8550
9 & 12" Spindles	625-8560
12 & 18" Spindles	625-8570

Surface gage and Test Indicator Sets

Description	Order No.
4&7" Spindles & Test indicator 0.03x.0005"	625-8555
9&12" Spindles & Test indicator 0.03x.0005"	625-8565
12&18" Spindles & Test indicator 0.03x.0005"	625-8575

Hydraulic Universal Magnetic Stands

Base with hydraulic clamping system



Magnetic Power	Working Stem	Base Dimension	Order No.
30kgs	320mm	Dia.40x H30mm	625-1320

Anyform Magnetic Base Indicator holder

- Attaches firmly to any shape or contour
- Dovetail attachment(include)-the unit accommdates AGD and test indicator
- Cam-lock mechanism for fine adjustment
- Powerful permanent magnet.



Range	Order No.
Base Only	625-0481
Base with standard arm and clamps	625-0482
Base with fine adjustment arm and clamps	625-0483
Base with Flexible arm	625-0484
Base with hydraulic clamping system	625-0485

Universal Measuring Stands

Main Column Length: 150mm
 Branch Column Length: 225mm
 Base Size: 225x58x35mm
 Weight: 3.2kg

Description	Order No.
with Fine Adjustment	625-0012
Without Fine Adjustment	625-0010



Magnetic Base Indicator Holder & Sets

- Six mounting locations for indicators and accessories.
- Three 1/4"-20 tapped holes, one 10-32 tapped hole, one 3/8" mounting hole, one V-shaped Mounting Hole.
- Size: 4"x1"x1".



Versatile, Powerful, Compact & Rugged

Descriptions	Order No.
Tiny-Titan Base	625-0450
Base & 1" dial indicator (605-4070)	625-0455
Base & 2" dial indicator (605-4205)	625-0460

Economy Magnetic Bases

- Single Universal Rod, has 3 diameters to permit mounting popular indicators without changing rods.
- Non magnetic ball seat is riveted directly to the pole piece for permanent anchorage and lifetime rigidity.
- Non-breakable plastic base.
- Strong Magnetic Pull.
- Full 360° swivel.



Description	Order No.
Style A	625-0920
Style B	625-0922

Fine Quality Magnetic Base Holder

A permanent alnico magnetic base that easily attaches to any steel or iron surface in any desirable or convenient position, eliminating the use of

clamps. The adjustable post assembly swivels into a 40° desired position and has a fine adjusting screw for final setting. Although intended primarily for test indicators, it is just as handy for inspection magnifiers, mirrors, safety shields, oil sprays, air lines, etc. Base diameter 1-1/4", with approximate 5-1/4" fine pivot adjustment post.



	Order No.
magnetic Base	625-0400

Mini Magnetic Bases

- Articulated arm style magnetic base positions and lock easily.
- Size of Magnetic Base: 30x30x30mm/1-1/5x1-1/5x1-1/5".
- One knob mechanically tightens both arms.
- Overall Stem Length: 12".



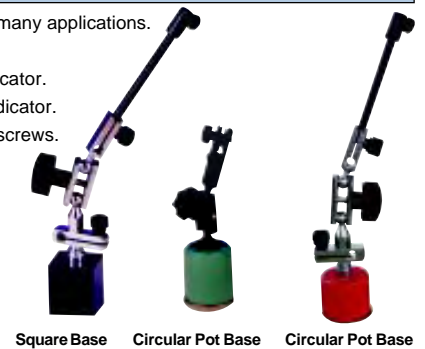
Switch On/Off
Order No. 625-2627



Push Button On/Off
Order No. 625-2617

Universal Magnetic Indicator Holders

- Excellent workmanship on many applications.
- Fine adjustment clamp.
- Dovetail clamp for test indicator.
- 1/4" holes for 1/4" stem indicator.
- All knurled knobs and lock screws.



Description	Order No.
Circular Pot Base	625-0515
Circular Pot Base	625-0520
Square Base	625-0510

Push Button Magnetic Bases

Type A

- Provided with ON/OFF push button.
- Especially designed for use with dial gages, to work on surface plate and machine table.
- Complete with 18kgf powerful magnet.

Order No. 625-0900

Type B

- Provided with ON/OFF push button.
- Especially designed for use with dial gages, to work on surface plate and machine table.
- Complete with 50kgf powerful magnet.

Description	Order No.
with Fine Adjustment	625-0910
Without Fine Adjustment	625-0905

Mini Magnetic Stands

Standard Model

- Height of base: 1"
- Diameter of base: 1"

Description	Order No.
with Fine Adjustment	625-0562
Without Fine Adjustment	625-0560

With Rod

- Height of base: 1"
- Diameter of base: 1"
- Height of rod: 3-1/2"
- Diameter of rod: 1/4"

Description	Order No.
with Fine Adjustment	625-0572
Without Fine Adjustment	625-0570

Magnetic Base Indicator Holders

Full magnetic base. Non-magnetic stainless steel holding rod, set in hardened universal ball socket. Fine precision adjustment controlled by thumb screw allowing minute adjustments. Hammered blue base finish...other parts are chrome plated or stainless steel. Magnetic release.

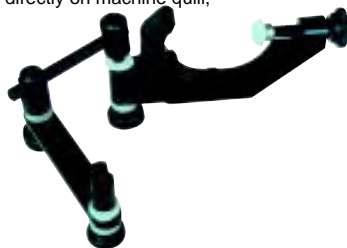


without Arm with Centre Arm with Side Arm

Descriptions	High Rod	Order No.
3-1/2x1-1/8x1" without Arm		625-0470
3-1/2x1-1/8x1" with Centre Arm		625-0472
3-1/2x1-1/8x1" with Side Arm	6"x1/4"	625-0480

Universal Indicator Holder

- Clamping dia. 1-7/8".
- Length from clamping bracket to indicator 4-1/2".
- Suitable for all popular indicators with 5/32" shank or dovetail.
- Mounts with single pressure screw directly on machine quill, by passing the working tool.
- Guaranteed accurate readings.
- For milling machines & jig bores.
- A quicker way of indicating.
- Does not disturb the working tool.



Order No. 625-8522

Adjustable Magnetic Connector

Two permanent magnets for joining of parts in drilling ,scraping, welding , etc. Adjustable to any angle & secured by wing nuts.



2 bars 2x1x1"
Order No. 625-0115

Pot Magnets

- For use as magnetic fasteners.
- Comes with plated keeper.

Diameter	Height	Hole	Order No.
21/32"	5/8"	5/16"-18	625-0382
7/8"	3/4"	5/16"-18	625-0384
1-1/16"	1"	5/16"-18	625-0386
1-3/8"	1-3/16"	5/16"-18	625-0388



"UNI-MAG" Direct Mount Magnetic Base

- Permanent magnet.
- Fits all A.G.D. indicators

Size	Order No.
φ2-1/4 x 9/16"	625-0451
φ1-3/4 x 5/16"	625-0452



Square Type Magnetic Block

- Used as a holder for precision work in measuring, marking and other similar operation.
- Measuring available on the upper, side faces, V faces for irregular shape parts.
- The V face max measuring range: dia 20mm Bar.



V Face Magnetic Power	Flat face Magnetic Power	Square Size	Steel & Copper Order No.	Steel & Aluminum Order No.
25kgs	30kgs	100	625-2031	625-2034
35kgs	100kgs	150	625-2032	625-2035
70kgs	250kgs	200	625-2033	625-2036

Magnetizer & Demagnetizer

- Used for Screw Driver/Small Parts

Size	Order No.
2x2x1"	625-0000



Portable Magnetizer/Demagnetizer

- Quickly magnetizes or demagnetizes drills,punches,dies, screwdrivers, simply by passing them through or near the loop.
- No physical contact needed.
- Portable and easy to used.
- Electrically & thermally protected.
- Operates on 110V AC 60 cycle with push button control.



Order No. 285-2700

Demagnetizers

- Demagnetize dies, punches, cutters, or any tools that have become magnetized.
- Operates on 115/220V AC with on /off switch.



Volt	Table Size	Order No.
110V	6-3/4" x 4-1/4"	285-2505
220V	170mm x 108mm	285-2605



Volt	Table Size	Order No.
110V	190x120mm	285-2805
110V	210x152mm	285-2808
220V	190x120mm	285-2815
220V	210x152mm	285-2818

Magnetic Snap-Lock Flexible Lamp

- Power magnetic base, magnetic force: 40kg
- Flexible arm is plastic
- Illuminant source selects incandescent lamp, 60W screw socket bulb.
- Arm length: 280mm, base size: $\phi 40 \times 25$



Power Supply	Order No.
220V/50HZ	625-1241
110V/60HZ	625-1242

Magnetic Lamps

- Powerful magnet base with On/Off switch.
- Guaranteed magnetic power.
- Flexible arm for any position adjustment.
- Power supply: 115V/60Hz.
- Bulb not included.
- Body size: 2 x 2 x 2 - 1/2".



Magnetic Power	Order No.
40kgs	625-1240
60kgs	625-1260
80kgs	625-1280

Magnetic Lamps

- Powerful magnet base with On/Off switch.
- Flexible arm for any position adjustment.
- Bulb included.
- Arm Length: 400mm.



Magnetic Power	Power supply	Order No.
50kgs	220V/50Hz	625-1243
50kgs	110V/50Hz	625-1244

Quick Lock Coolant Hose Systems

- Powerful magnet base with On/Off switch.
- Featured 1,2 or 3 1/4" dia. flexible coolant hoses.



Magnetic Power	Hose No. & Length	Base Size	Order No.
50kgs	1 x 14"	2-1/2 x 2 x 2-7/8"	625-0402
80kgs	1 x 14"	2-3/4 x 2 x 2-7/8"	625-0404
50kgs	2 x 14"	2-1/2 x 2 x 2-7/8"	625-0406
80kgs	2 x 14"	2-3/4 x 2 x 2-7/8"	625-0408
50kgs	3 x 15"	2-1/2 x 2 x 2-7/8"	625-0410
80kgs	3 x 15"	2-3/4 x 2 x 2-7/8"	625-0412

Magnetic Base-Goose Neck Magnifier

- Power 2X
- Flexible arm length: 300mm
- Flexible arm for any position adjust
- Powerful magnetic base with ON/OFF Switch



Order No. 625-1290

Flexible Stem with Locking Plier Set

Set Includes:

- Indicator: 0-1"
- Flexible stem holder almost 360 degrees, Length: 350mm
- 7" Locking plier for holding and clamping objects regardless of shape or size.
- Fixing block
- Finished in fitted plastic case

Flexible stem holder
with Locking plier only

Order No. 625-1090



Flexible stem holder
with Locking plier & indicator

Order No. 135-0090



Comparator Stands

- The flatness of the measuring surface is conforming with DIN 876/00
- Column diameter: 35mm
- Cast iron base: 205x140mm
- Anvil: Square(100mm), Round Dia.(100mm)
- Height(Base to Anvil top): 80mm
- Throat column to centerline of holding hole:95mm



Desc.	Order No.
Round anvil , Serrated	625-8545
Square anvil, Serrated	625-8546
Round anvil , Serrated, adjustable	625-8547
Square anvil, Serrated, adjustable	625-8548

Dial Gage Comparator Stands

- Fine adjustment 180° slide travel with lock
- Quick positioning adjustment
- Used with 3/8" and 8mm shank indicators, also lug back
- Cast iron base:3-7/8x6x2"
- Column 1" Dia.x 8" high
- Top of anvil to bottom of indicator holer: 6-3/4"
- Height(Base to Anvil top): 2-1/8"
- Throat column to centerline of 3/8" stem: 2-1/8"



Descriptions	Size	Order No.
Round anvil, Flat	Dia. 2-5/16"	625-8541
Round anvil, Serrated	Dia. 2-5/16"	625-8542
Square anvil, Flat	Square 60.5mm	625-8543

Dial Gage Comparator Stand

- Fine adjustment 180° slide travel with lock.
- Quick position adjustment.
- Used for holding 3/8"/8mm stem indicators and lug back.
- Cast iron base size: 3-7/8"x6", height:8".
- The Indicator travel distance (from anvil to toper position):6-3/4"
- Base and anvil height: 2-1/8",anvil dia.:1".



Order No. 625-8530

Granite Comparator Stands

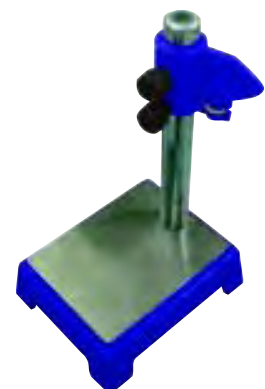
- Micro screw fingertip control.
- 0.0005" flatness.
- Extreme stability.
- 6 x 6 x 2" base.
- 10" height.
- Accepts all A.G.D. indicators

Descriptions	Order No.
6x6x2" granite base only	625-8504
frame only	625-8508
6x6x2" base and frame	625-8510
6x6x2" base, frame & 1" indicator	625-8511



Steel Dial Comparator Stand

- 5-1/2X4-1/4" working surface.



Order No. 625-8520

Bench Block

- Very handy for holding work when driving pins, drilling, etc.
- V-groove across the face accommodates round and odd shaped stock.
- Hardened and ground.
- Smooth finish on the face preserves the work being held.
- Block is approximately 3" dia and 1-1/2" high.
- Holes vary in sizes from 1/8" to 5/8".

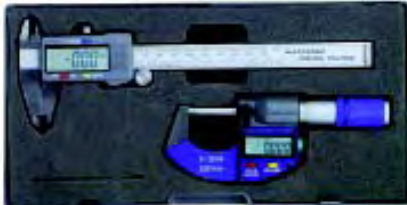


Order No.420-5300

Measuring Tool Kits



No. of Pieces	Specification	Individual Order No.	Set Order No.
2Pcs/set	• One 0-6"/150mm Electronic Caliper Graduation:0.0005"/0.001mm	101-0131	135-0050
	• One 0-1"/25mm Ele. Outside Micrometer, Graduation: 0.0005"/0.001mm	600-8081	
	• Plastic Case	135-CP15	



No. of Pieces	Specification	Individual Order No.	Set Order No.
2Pcs/set	• One 0-6"/150mm Electronic Caliper Graduation:0.0005"/0.01mm	600-8061	135-0051
	• One 0-1"/25mm Ele. Outside Micrometer, Graduation: 0.0005"/0.001mm		
	• Plastic Case		



No. of Pieces	Specification	Individual Order No.	Set Order No.
2Pcs/set	• 100mm/4" Disc Brake Digital Caliper	101-5504	135-0038
	• 100mm/4" Digital Caliper	101-3504	



No. of Pieces	Specification	Individual Order No.	Set Order No.
2Pcs/set	• One 6" Vernier Caliper Graduation:1/128"	403-1503	135-2003
	• One 0-1" Outside Micrometer ,Grad. 0.0001" Chrome-Plated	601-0001	
	• Wooden case	13W-2034	
2Pcs/set	• One 0-150mm Caliper Mono-Block, Thumb lock, .05mm	817-0905	135-2004
	• One 0-25mm Outside Micrometer Grad.:0.01mm, Chrome-Plated	601-5025	
	• Wooden case	13W-2034	



No. of Pieces	Specification	Individual Order No.	Set Order No.
2Pcs/set	• 0-4" Black face Dial caliper	10B-S004	135-0001
	• 0-1" Black face Dial indicator	605-4080	
	• Plastic case	135-CP01	
2Pcs/set	• 0-4" White face Dial caliper	10W-S004	135-0004
	• 0-1" White face Dial indicator	605-4070	
	• Plastic case	135-CP01	
2Pcs/set	• 0-6" Black face Dial caliper	10B-S006	135-0016
	• 0-1" Black face Dial indicator	605-4080	
	• Plastic case	135-CP16	
2Pcs/set	• 0-6" White face Dial caliper	10W-S006	135-0017
	• 0-1" White face Dial caliper	605-4070	
	• Plastic case	135-CP16	



No. of Pieces	Specification	Individual Order No.	Set Order No.
2Pcs/set	• 0-1" White face Dial indicator	605-4070	135-0002
	• 60kg Magnetic base W/fine adj.	625-0341	
	• Plastic case	135-CP02	
2Pcs/set	• 0-1" Black face Dial indicator	605-4080	135-0005
	• 60kg Magnetic base W/fine adj.	625-0341	
	• Plastic case	135-CP02	

Measuring Tool Kits



No. of Pieces	Specification	Individual Order No.	Set Order No.
2Pcs/set	<ul style="list-style-type: none"> One 0-150mm Vernier Caliper Mono-Block, Thumb lock, .05mm One 90° Knife Edge Square DIN 875/1, 100x70mm Wooden case 	817-0905	135-2001
		638-1215	
		13W-2012	
2Pcs/set	<ul style="list-style-type: none"> One 6" Vernier Caliper Graduation: 1/128" One 90° Knife Edge Square DIN 875/1, 100x70mm Wooden case 	403-1503	135-2002
		638-1215	
		13W-2012	



No. of Pieces	Specification	Individual Order No.	Set Order No.
2Pcs/set	<ul style="list-style-type: none"> 0-2" White face Dial indicator 60kg Magnetic base W/fine adj. Plastic case 	605-4025	135-2005
		625-0341	
		135-CP13	



No. of Pieces	Specification	Individual Order No.	Set Order No.
2Pcs/set	<ul style="list-style-type: none"> .03x.0005" White face test indicator 1-7/8" Test indicator holder Plastic case 	605-4710	135-0014
		625-8522	
		135-CP14	
2Pcs/set	<ul style="list-style-type: none"> .03x.0005" Black face test indicator 1-7/8" Test indicator holder Plastic case 	605-4709	135-0015
		625-8522	
		135-CP14	



No. of Pieces	Specification	Set Order No.
2Pcs/set	<ul style="list-style-type: none"> Indicator: 0-1" Flexible stem holder almost 360 degrees, Length: 350mm 7" Locking plier for holding and clamping objects regardless of shape or size. Fixing block Finished in fitted plastic case Flexible stem holder with Locking plier 	625-1090



No. of Pieces	Specification	Individual Order No.	Set Order No.
3Pcs/set	<ul style="list-style-type: none"> One 0-150mm Vernier Caliper Mono-Block, Thumb lock, .05mm One 0-25mm Outside Micrometer Chrome-Plated One 5-30mm Inside Micrometer, Grad.: 0.01mm Wooden case 	817-0905	135-3001
		601-5025	
		600-4005 13W-3012	
3Pcs/set	<ul style="list-style-type: none"> One 0-6" Vernier Caliper Graduation: 1/128" One 0-1" Outside Micrometer One .2"-1.2" Inside Micrometer Wooden case 	817-0905	135-3002
		601-0111	
		600-5005 13W-3012	

Measuring Tool Kits



	Specification	Individual Order No.	Set Order No.
3Pcs/set	<ul style="list-style-type: none"> • White face 1" dial indicator • 22-pc Indicator point set • Mighty Magnetic base • Plastic case 	605-4070 605-0022 625-0450 135-CP10	135-0010
3Pcs/set	<ul style="list-style-type: none"> • Black face 1" Dial indicator • 22-pc Indicator point set • Mighty Magnetic base • Plastic case 	605-4080 605-0022 625-0450 135-CP10	135-0011



No. of Pieces	Specification	Individual Order No.	Set Order No.
3Pcs/set	<ul style="list-style-type: none"> • 0-1" White face dial indicator • 60kg Magnetic base W/fine adj. • 22-pc Indicator point set • Plastic case 	605-4070 625-0341 605-0022 135-CP02	135-0006
3Pcs/set	<ul style="list-style-type: none"> • 0-1" Black face Dial indicator • 60kg Magnetic base W/fine adj. • 22-pc Indicator point set • Plastic case 	605-4080 625-0341 605-0022 135-CP02	135-0007



No. of Pieces	Specification	Individual Order No.	Set Order No.
3Pcs/set	<ul style="list-style-type: none"> • 0-6" Black face Dial caliper • .03x.0005" Black face test indicator • 0-1x.0001" Outside micrometer • Plastic case 	10B-S006 605-4709 601-0111 135-CP08	135-0008
3Pcs/set	<ul style="list-style-type: none"> • 0-6" White face Dial caliper • .03x.0005" White face test indicator • 0-1x.0001" Outside micrometer • Plastic case 	10W-S006 605-4710 601-0111 135-CP08	135-0009



No. of Pieces	Specification	Individual Order No.	Set Order No.
4Pcs/set	<ul style="list-style-type: none"> • One 0-150mm Vernier Caliper Mono-Block, Thumb lock, .05mm • One 0-25mm Outside Micrometer • One 90° Knife Edge Square DIN 875/1, 100x70mm • One 150mm/6" Stainless Steel Ruler • Plastic case 	817-0905 601-5025 638-1215 638-8205 13P-4012	135-4001
4Pcs/set	<ul style="list-style-type: none"> • One 6" Vernier Caliper Graduation 1/128" • One 0-1" Outside Micrometer • One 90° Knife Edge Square DIN875/1,100x70mm • One 150mm/6" Stainless Steel Ruler • Plastic case 	817-0905 601-0111 638-1215 638-8205 13P-4012	135-4002
	<ul style="list-style-type: none"> • One 0-150mm Electronic Digital caliper • One 0-25mm Electronic Outside Micrometer • One 90° Knife Edge Square DIN 875/1, 100x70mm • One 150mm/6" Stainless Steel Ruler • Plastic case 	600-8001 638-1215 638-8205	135-4005

Measuring Tool Kits



No. of Pieces	Specification	Individual Order No.	Set Order No.
4Pcs/set	<ul style="list-style-type: none"> One 0-150mm Dial Caliper, Graduation .02mm One 0-25mm Outside Micrometer, Grad.: 0.01mm, Chrome-Plated. One 90° Knife Edge Square DIN 875/1, 100x70mm One 150mm/6" Stainless Steel Ruler Plastic case 	20W-S210 600-5025 638-1215 638-8205 13P-4034	135-4003
4Pcs/set	<ul style="list-style-type: none"> One 6" Dial Caliper, Graduation: 0.001" One 0-1" Outside Micrometer, Grad.:0.0001", Chrome-Plated. One 90° Knife Edge Square DIN 875/1, 100x70mm One 150mm/6" Stainless Steel Ruler Plastic case 	10W-S006 601-0111 638-1215 638-8205 13P-4034	135-4004



No. of Pieces	Specification	Set Order No.
4Pcs/set	<ul style="list-style-type: none"> 530mm/20.65" Whole Range Digital Drum Gage 150mm/6" Disc Brake Digital Caliper 150mm/6" Digital Caliper 25mm/1" Tread Depth Gage 	135-4007

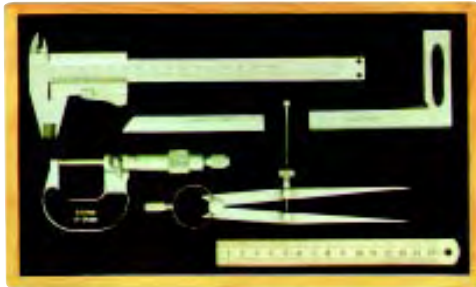


No. of Pieces	Specification	Individual Order No.	Set Order No.
5Pcs/set	<ul style="list-style-type: none"> One 0-150mm Vernier Caliper Mono-Block, Thumb lock, .05mm One 0-25mm Outside Micrometer One 90° Knife Edge Square DIN 875/1, 100x70mm One 150mm/6" Stainless Steel Ruler One Steel Scriber Wooden case 	817-0905 601-5025 638-1215 638-8205 13W-5034	135-5003
5Pcs/set	<ul style="list-style-type: none"> One 0-6" Vernier Caliper 1/128" One 0-1" Outside Micrometer One 90° Knife Edge Square DIN 875/1, 100x70mm One 150mm/6" Stainless Steel Ruler One Steel Scriber Wooden case 	403-1503 601-0111 638-1215 638-8205 13W-5034	135-5004
5Pcs/set	<ul style="list-style-type: none"> One 0-150mm Electronic Digital caliper One 0-25mm Electronic Outside Micrometer One 90° Knife Edge Square DIN 875/1, 100x70mm One 150mm/6" Stainless Steel Ruler One Steel Scriber case 	600-8001 638-1215 638-8205 13W-5034	135-5005



No. of Pieces	Specification	Set Order No.
5Pcs/set	<ul style="list-style-type: none"> One 0-150mm Vernier Caliper, Mono-Block, Thumb lock, .05mm One 0-25mm Digital Readout Outside Micrometer One 0-200mm Depth Gauge, Graduation .05mm One 90° Knife Edge Square, DIN 875/1, 100x70mm One Straight Edge Ruler, DIN 874/0, 100mm 	135-5001
5Pcs/set	<ul style="list-style-type: none"> One 0-6" Vernier Caliper, Graduation 1/128" One 0-1" Digital Readout Outside Micrometer One 0-8" Depth Gauge, Graduation 1/128" One 90° Knife Edge Square, DIN 875/1, 100x70mm One Straight Edge Ruler, DIN 874/0, 100mm 	135-5002

Measuring Tool Kits



No. of Pieces	Specification	Individual Order No.	Set Order No.
6Pcs/set	• One 0-150mm Vernier Caliper Mono-Block, Thumb lock, .05mm	817-0905	135-6001
	• One 0-25mm Outside Micrometer	601-5025	
	• One 90° Knife Edge Square DIN 875/1, 100x70mm	638-1215	
	• One 150mm/6" Stainless Steel Ruler	638-8205	
	• One Steel Scriber		
	• One Steel Divider	109-0904	
6Pcs/set	• One 150mm/6" Stainless Steel Ruler	13W-6012	135-6002
	• One Steel Scriber		
	• One Steel Divider	109-0904	
	• Wooden case	13W-5034	
	• One 0-6" Vernier Caliper Graduation: 1/128"	403-1503	
	• One 0-1" Outside Micrometer	601-0111	
6Pcs/set	• One 90° Knife Edge Square DIN 875/1, 100x70mm	638-1215	135-6003
	• One 150mm/6" Stainless Steel Ruler(638-8205)	638-8205	
	• One Steel Scriber		
	• One Steel Divider(109-0904)	109-0904	
	• One 0-25mm Electronic Outside Micrometer	600-8001	
	• One 0-150mm Electronic Digital caliper .05mm	135-5006	
6Pcs/set	• One 90° Knife Edge Square (638-1215) DIN 875/1, 100x70mm	638-1215	135-6003
	• One 150mm/6" Stainless Steel Ruler(638-8205)	638-8205	
	• One Steel Scriber		
	• One Steel Divider(109-0904)	109-0904	
	• One 0-25mm Electronic Outside Micrometer	600-8001	
	• One 0-150mm Electronic Digital caliper .05mm	135-5006	



No. of Pieces	Specification	Individual Order No.	Set Order No.
6Pcs/set	• 0-6" White face Dial caliper	10W-S006	135-0012
	• 0-1" White face Dial indicator	605-4070	
	• .03x.0005" White face test indicator	605-4710	
	• 0-1x.0001" Outside micrometer	601-0111	
	• 60kg Magnetic base W/fine adj.	625-0341	
	• 22-pc Indicator point set	605-0022	
	• Plastic case	135-CP12	
6Pcs/set	• 0-6" Black face Dial caliper	10B-S006	135-0013
	• 0-1" Black face Dial indicator	605-4080	
	• .03x.0005" Black face test indicator	605-4709	
	• 0-1x.0001" Outside micrometer	601-0111	
	• 60kg Magnetic base W/fine adj.	625-0341	
	• 22-pc Indicator point set	605-0022	
	• Plastic case	135-CP12	



No. of Pieces	Specification	Individual Order No.	Set Order No.
6Pcs/set	• 0-6" White face Dial caliper	10W-S006	135-0018
	• 0-1x.0001" Outside micrometer	601-0111	
	• Square head	638-7759	
	• Protractor head	638-7757	
	• Center head	638-7758	
	• 12" Blade 4R	638-7752	
6Pcs/set	• Plastic case	135-CP18	135-0019
	• 0-6" Black face Dial caliper	10B-S006	
	• 0-1x.0001" Outside micrometer	601-0111	
	• Square head	638-7759	
	• Protractor head	638-7757	
	• Center head	638-7758	
• 12" Blade 4R	638-7752		
• Plastic case	135-CP18		

Quality Hardened Steel Squares

Blades with Straight Edges, Accuracy Class 2

- Accuracy: .0008" + L/10,000
- Beam is grooved at inner corner.
- Beams and blades are accurately ground and lapped.
- Hardness: HRC55.



Blade	Beam	Order No.
1-3/8"	1"	650-7505
2-3/8"	1-3/8"	650-7510
3-1/8"	2"	650-7537
5"	3"	650-7552
6-3/4"	4"	650-7560
8-1/2"	5-1/8"	650-7586
10-1/2"	6-3/8"	650-7602
14"	6"	650-7610
18"	8"	650-7615

Blades with Two Straight Bevelled Edges, Accuracy Class N

- Accuracy: .0002" + L/50,000
- Class N Squares have accurate right angles both inside and outside.
- Beam is grooved at inner corner for clearance of burr and dirt.
- Beams and blades are accurately ground and lapped for straightness and parallelism.
- All squares are fully hardened (HRC55).



Blade	Beam	Order No.
1-3/8"	1"	650-6205
2-3/8"	1-3/8"	650-6210
2-1/2"	1-1/2"	650-6224
3-1/8"	2"	650-6232
5"	3"	650-6257
6-1/4"	4"	650-6265
6-3/4"	4"	650-6270
7-7/8"	5"	650-6281
8-1/2"	5-1/8"	650-6285
10-1/2"	6-3/8"	650-6290

Blades with Two Straight Bevelled Edges, Accuracy Class H

- Accuracy: .0008" + L/10,000
- Squares have accurate right angles both inside and outside.
- Made from a single piece of fully seasoned tool steel.
- Class H Blades are beveled on both edges of each side.
- Beam is grooved at inner corner for clearance of burr and dirt.
- Beams and blades are ground and accurately lapped for straightness and parallelism.
- All squares are fully hardened (HRC55).



Blade	Beam	Order No.
1-3/8"	1"	650-7205
2-3/8"	1"	650-7210
2-3/8"	1-3/8"	650-7211
2-1/2"	1-1/2"	650-7222
3-1/8"	2"	650-7230
5"	3"	650-7255
6-1/4"	4"	650-7263
7-7/8"	5"	650-7289
8-1/2"	5-1/8"	650-7293
10-1/2"	6-3/8"	650-7296

Machinist's Steel Squares & Sets

Plain Type

- Accuracy: Workshop Grade/Plain Type
- Made from the finest steel.
- Beams and blades are ground and accurately lapped for straightness and parallelism.
- Hardened blade only.



Individuals

Blade	Beam	Order No.
2"	1-1/2"	650-8022
3"	2-1/2"	650-8030
4"	3"	650-8048
6"	4"	650-8063
9"	5-1/2"	650-8097
12"	7"	650-8121
18"	10"	650-8147
24"	12"	650-8162

Sets

4Pcs/set	2-6"	650-8014
4Pcs/set	4-12"	650-8006

Die Maker's Square Sets

"Die Maker's Square set" is ideal for the toolmaker working on precise miniature layouts. Sets consist of 3 hardened beveled edge squares 3/4", 1-1/4" and 2-3/8" plus a 1-1/2" triangular straight edge with handle. Sides of triangular straight edge are grooved in middle for clearance of burr and dirt.

- All tools are hardened and ground, very finely finished and extremely accurate.
- 1-1/2" triangular straight edge with a removable handle (length 2-1/2").
- Beam is grooved at inner corner for clearance of burr and dirt.



Description	Order No.
Beveled Edge Squares : 3/4", 1-1/4", 2-3/8" Triangular straight edge: 1-1/2" OAL:4"	650-7200
Beveled Edge Squares : 3/4", 1-1/8", 1-15/16" Triangular straight edge: 1-1/2" OAL:4"	650-7202

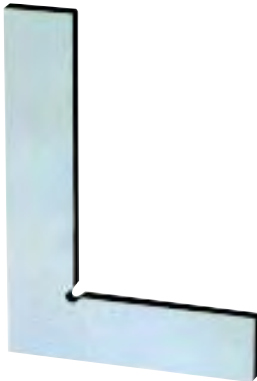
DIN Adjustable Precision Squares

- Ideal for precision layout work
- Can be used as a parallel or as a double
- Blade are hardened and tempered



Blade Size	Grade 1	Grade 2
	Order No.	Order No.
100x70mm	639-7901	639-7911
150x100mm	639-7902	639-7912
200x150mm	639-7903	639-7913

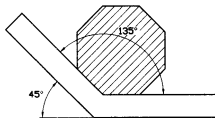
DIN875 Squares



90° Flat Squares

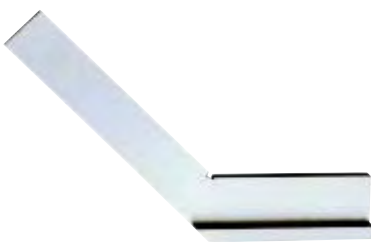
Blade (mm)	Beam (mm)	Carbon Steel			Stainless Steel		
		Grade 0	Grade 1	Grade 2	Grade 0	Grade 1	Grade 2
		Order No.	Order No.	Order No.	Order No.	Order No.	Order No.
50	40	639-4105	639-4205	639-4305	638-4105	638-4205	638-4305
75	50	639-4110	639-4210	639-4310	638-4110	638-4210	638-4310
100	70	639-4115	639-4215	639-4315	638-4115	638-4215	638-4315
150	100	639-4120	639-4220	639-4320	638-4120	638-4220	638-4320
200	130	639-4130	639-4230	639-4330	638-4130	638-4230	638-4330
250	160	639-4132	639-4232	639-4332	638-4132	638-4232	638-4332
300	175	639-4136	639-4236	639-4336	638-4136	638-4236	638-4336
300	200	639-4135	639-4235	639-4335	638-4135	638-4235	638-4335

135° & 120° Flat Squares



Blade (mm)	Beam (mm)	135°				120°			
		Carbon Steel		Stainless Steel		Carbon Steel		Stainless Steel	
		Grade 1	Grade 2	Grade 1	Grade 2	Grade 1	Grade 2	Grade 1	Grade 2
		Order No.	Order No.	Order No.	Order No.	Order No.	Order No.	Order No.	Order No.
100	70	639-5005	639-5105	638-5005	638-5105	639-5055	639-5155	638-5055	638-5155
120	80	639-5010	639-5110	638-5010	638-5110	639-5060	639-5160	638-5060	638-5160
150	100	639-5015	639-5115	638-5015	638-5115	639-5065	639-5165	638-5065	638-5165
200	130	639-5020	639-5120	638-5020	638-5120	639-5070	639-5170	638-5070	638-5170
50	50	639-3005	639-3105	638-3005	638-3105	639-3205	639-3305	638-3205	638-3305
75	75	639-3010	639-3110	638-3010	638-3110	639-3210	639-3310	638-3210	638-3310
100	100	639-3015	639-3115	638-3015	638-3115	639-3215	639-3315	638-3215	638-3315
150	150	639-3020	639-3120	638-3020	638-3120	639-3220	639-3320	638-3220	638-3320
200	200	639-3025	639-3125	638-3025	638-3125	639-3225	639-3325	638-3225	638-3325

135° & 120° Wide Base Squares



Blade (mm)	Beam (mm)	135°				120°			
		Carbon Steel		Stainless Steel		Carbon Steel		Stainless Steel	
		Grade 1	Grade 2	Grade 1	Grade 2	Grade 1	Grade 2	Grade 1	Grade 2
		Order No.	Order No.	Order No.	Order No.	Order No.	Order No.	Order No.	Order No.
100	70	639-6005	639-6105	638-6005	638-6105	639-6055	639-6155	638-6055	638-6155
120	80	639-6007	639-6107	638-6007	638-6107	639-6060	639-6160	638-6060	638-6160
150	100	639-6010	639-6110	638-6010	638-6110	639-6065	639-6165	638-6065	638-6165
200	130	639-6015	639-6115	638-6015	638-6115	639-6070	639-6170	638-6070	638-6170
250	160	639-6020	639-6120	638-6020	638-6120	639-6075	639-6175	638-6075	638-6175
300	175	639-6025	639-6125	638-6025	638-6125	639-6080	639-6180	638-6080	638-6180

90° Wide Base Knife Edge Squares



Blade (mm)	Beam (mm)	Carbon Steel			Stainless Steel			Carbon Steel Black Chrome Blades		
		Grade 00	Grade 0	Grade 1	Grade 00	Grade 0	Grade 1	Grade 00	Grade 0	Grade 1
		Order No.	Order No.	Order No.	Order No.	Order No.	Order No.	Order No.	Order No.	Order No.
50	40	639-4055	639-4155	639-4255	638-4055	638-4155	638-4255	639-4655	639-4755	639-4855
75	50	639-4060	639-4160	639-4260	638-4060	638-4160	638-4260	639-4660	639-4760	639-4860
100	70	639-4065	639-4165	639-4265	638-4065	638-4165	638-4265	639-4665	639-4765	639-4865
125	80	639-4067	639-4167	639-4267	638-4067	638-4167	638-4267	639-4667	639-4767	639-4867
150	100	639-4070	639-4170	639-4270	638-4070	638-4170	638-4270	639-4670	639-4770	639-4870
200	130	639-4074	639-4175	639-4275	638-4074	638-4175	638-4275	639-4675	639-4775	639-4875

DIN875 Squares

90° Knife Edge Squares



Blade (mm)	Beam (mm)	Carbon Steel		Stainless Steel		Carbon Steel Black Chrome Blades	
		Grade 0 Order No.	Grade 00 Order No.	Grade 0 Order No.	Grade 00 Order No.	Grade 0 Order No.	Grade 00 Order No.
25	20	639-1102	639-1002	638-1102	638-1002	639-1152	639-1052
40	28	639-1103	639-1003	638-1103	638-1003	639-1153	639-1053
50	32	639-1104	639-1004	638-1104	638-1004	639-1154	639-1054
50	40	639-1105	639-1005	638-1105	638-1005	639-1155	639-1055
63	40	639-1106	639-1006	638-1106	638-1006	639-1156	639-1056
75	50	639-1110	639-1010	638-1110	638-1010	639-1160	639-1060
80	50	639-1111	639-1011	638-1111	638-1011	639-1161	639-1061
100	63	639-1112	639-1012	638-1112	638-1012	639-1162	639-1062
100	70	639-1115	639-1015	638-1115	638-1015	639-1165	639-1065
125	80	639-1116	639-1016	638-1116	638-1016	639-1166	639-1066
150	100	639-1120	639-1020	638-1120	638-1020	639-1170	639-1070
160	100	639-1121	639-1021	638-1121	638-1021	639-1171	639-1071
200	125	639-1122	639-1022	638-1122	638-1022	639-1172	639-1072
200	130	639-1125	639-1025	638-1125	638-1025	639-1175	639-1075
300	200	639-1135	639-1035	638-1135	638-1035	639-1180	639-1080

90° Wide Base Squares



Blade (mm)	Beam (mm)	Carbon Steel			Stainless Steel		
		Grade 0 Order No.	Grade 1 Order No.	Grade 2 Order No.	Grade 0 Order No.	Grade 1 Order No.	Grade 2 Order No.
50	40	639-2105	639-2205	639-2305	638-2105	638-2205	638-2305
75	50	639-2110	639-2210	639-2310	638-2110	638-2210	638-2310
100	70	639-2115	639-2215	639-2315	638-2115	638-2215	638-2315
125	80	639-2116	639-2216	639-2316	638-2116	638-2216	638-2316
150	100	639-2120	639-2220	639-2320	638-2120	638-2220	638-2320
200	130	639-2130	639-2230	639-2330	638-2130	638-2230	638-2330
250	160	639-2132	639-2232	639-2332	638-2132	638-2232	638-2332
300	175	639-2136	639-2236	639-2336	638-2136	638-2236	638-2336
300	200	639-2135	639-2235	639-2335	638-2135	638-2235	638-2335

90° Heavy Base Squares



Blade (mm)	Beam (mm)	Carbon Steel			Stainless Steel		
		Grade 0 Order No.	Grade 1 Order No.	Grade 2 Order No.	Grade 0 Order No.	Grade 1 Order No.	Grade 2 Order No.
50	40	639-2155	639-2255	639-2355	638-2155	638-2255	638-2355
75	50	639-2160	639-2260	639-2360	638-2160	638-2260	638-2360
100	70	639-2165	639-2265	639-2365	638-2165	638-2265	638-2365
125	80	639-2166	639-2266	639-2366	638-2166	638-2266	638-2366
150	100	639-2170	639-2270	639-2370	638-2170	638-2270	638-2370
200	130	639-2175	639-2275	639-2375	638-2175	638-2275	638-2375
300	200	639-2180	639-2280	639-2380	638-2180	638-2280	638-2380

45° & 60° Flat Squares



Blade (mm)	Beam (mm)	45°				60°			
		Carbon Steel		Stainless Steel		Carbon Steel		Stainless Steel	
		Grade 1 Order No.	Grade 2 Order No.	Grade 1 Order No.	Grade 2 Order No.	Grade 1 Order No.	Grade 2 Order No.	Grade 1 Order No.	Grade 2 Order No.
100	70	639-2710	639-2810	638-2710	638-2810	639-6310	639-6410	638-6310	638-6410
125	80	639-2712	639-2812	638-2712	638-2812	639-6312	639-6412	638-6312	638-6412
150	100	639-2715	639-2815	638-2715	638-2815	639-6315	639-6415	638-6315	638-6415
200	130	639-2720	639-2820	638-2720	638-2820	639-6320	639-6420	638-6320	638-6420
250	160	639-2725	639-2825	638-2725	638-2825	639-6325	639-6425	638-6325	638-6425
300	200	639-2730	639-2830	638-2730	638-2830	639-6330	639-6430	638-6330	638-6430

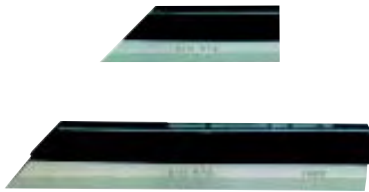
DIN875 Squares



45° & 60° Squares with Wide Base

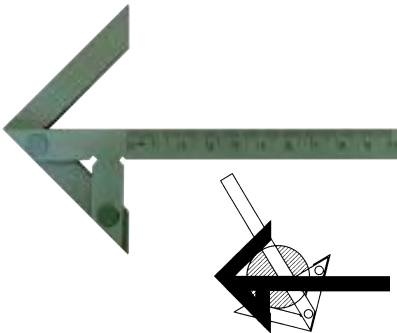
Blade (mm)	Beam (mm)	45°				60°			
		Carbon Steel		Stainless Steel		Carbon Steel		Stainless Steel	
		Grade 1	Grade 2	Grade 1	Grade 2	Grade 1	Grade 2	Grade 1	Grade 2
100	70	639-1710	639-1810	638-1710	638-1810	639-6610	639-6710	638-6610	638-6710
125	80	639-1712	639-1812	638-1712	638-1812	639-6612	639-6712	638-6612	638-6712
150	100	639-1715	639-1815	638-1715	638-1815	639-6615	639-6715	638-6615	638-6715
200	130	639-1720	639-1820	638-1720	638-1820	639-6620	639-6720	638-6620	638-6720
250	160	639-1725	639-1825	638-1725	638-1825	639-6625	639-6725	638-6625	638-6725
300	200	639-1730	639-1830	638-1730	638-1830	639-6630	639-6730	638-6630	638-6730

DIN874 Straight Edges



Length	Carbon Steel		Stainless Steel		Carbon Steel Black Chrome Blades	
	Grade 00	Grade 0	Grade 00	Grade 0	Grade 00	Grade 0
	Order No.	Order No.	Order No.	Order No.	Order No.	Order No.
50mm	639-7003	639-7103	638-7003	638-7103	639-7053	639-7153
75mm	639-7005	639-7105	638-7005	638-7105	639-7055	639-7155
100mm	639-7010	639-7110	638-7010	638-7110	639-7060	639-7160
125mm	639-7015	639-7115	638-7015	638-7115	639-7065	639-7165
150mm	639-7020	639-7120	638-7020	638-7120	639-7070	639-7170
200mm	639-7025	639-7125	638-7025	638-7125	639-7075	639-7175
250mm	639-7030	639-7130	638-7030	638-7130	639-7080	639-7180
300mm	639-7035	639-7135	638-7035	638-7135	639-7085	639-7185
400mm	639-7040	639-7140	638-7040	638-7140	639-7090	639-7190

DIN875/1 Centering Squares



- Satin chromed finish.
- Special steel.
- Determine the center of shaft and discs rapidly.
- Graduation:0.1mm

Blade	Angle length	Carbon Steel Order No.	Stainless Steel Order No.
100mm	70mm	639-2410	638-2410
150mm	130mm	639-2415	638-2415
200mm	150mm	639-2420	638-2420
250mm	160mm	639-2425	638-2425
300mm	180mm	639-2430	638-2430

Locking Type Protractors

- Graduated from 0°-180° in opposite directions.
- Features a knurled thumb locking nut.
- Graduation 1°.



Dia. of Protractor	Length of Blade	Chrome-Plated Tool Steel Order No.	Stainless Steel Order No.	Dia. of Protractor	Length of Blade	Chrome-Plated Tool Steel Order No.	Stainless Steel Order No.
80mm	120mm	635-7781	635-7881	300mm	600mm	635-7786	635-7886
120mm	150mm	635-7782	635-7882	300mm	800mm	635-7787	635-7887
150mm	200mm	635-7783	635-7883	400mm	600mm	635-7788	635-7888
200mm	300mm	635-7784	635-7884	400mm	800mm	635-7789	635-7889
300mm	500mm	635-7785	635-7885	400mm	1000mm	635-7790	635-7890

Riveting Type Protractors

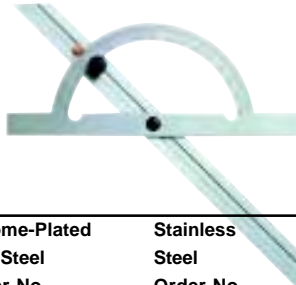
- Graduated from 0°-180° in opposite directions.
- Features a rivet in jointing of head and arm.



Dia. of Protractor	Length of Blade	Chrome-Plated Tool Steel	
		Order No.	Stainless Steel Order No.
80mm	120mm	635-8010	635-8110
120mm	150mm	635-8015	635-8115
150mm	200mm	635-8020	635-8120
200mm	300mm	635-8025	635-8125

Adjustable Protractors

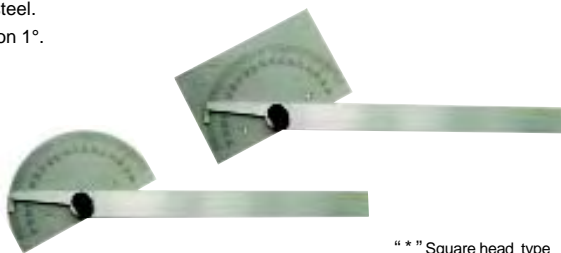
- Measuring Range: 10-170°



Range	Grad.	Chrome-Plated Tool Steel	
		Order No.	Stainless Steel Order No.
100-150mm	1°	635-9010	635-9110
150-300mm	1°	635-9015	635-9115
200-400mm	1°	635-9020	635-9120
250-500mm	1°	635-9025	635-9125
300-600mm	1°	635-9030	635-9130

Locking Type Protractors

- Graduated from 0°-180° in opposite directions.
- Used for mechinists,draftsmen,layoutmen and other mechanics.
- Carbon steel.
- Graduation 1°.



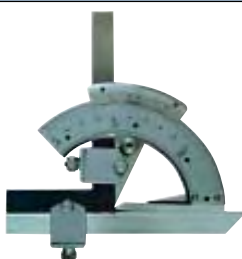
“ ** ” Square head type

“ *** ” Round head type

Dia. of Protractors	Length of Blade	Carbon Steel Order No.	Stainless Steel Order No.
85mm	150mm	635-7700*	635-7860*
85mm	150mm	635-7710**	635-7870**

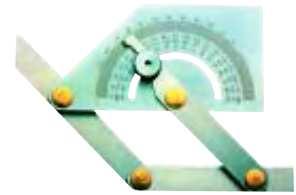
Universal Bevel Protractors

Range	Reading Value	Order No.
0° to 320°	2"	635-7780



Bevel Protractors

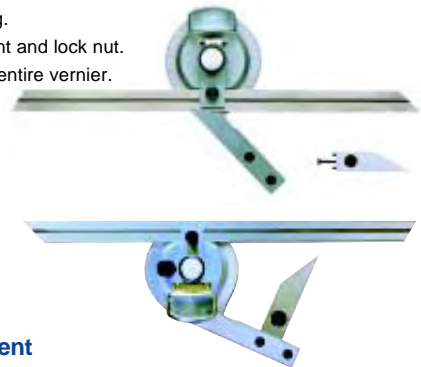
Stainless Steel



Range	Grad.	Order No.
0-180	1°	635-7800

Parallax Free Universal Bevel Protractors

- 360° scale in 1° increments.
- 5 minutes minimum reading.
- With/without fine adjustment and lock nut.
- Mangnifier moveable over entire vernier.
- stainless steel.



Without Fine Adjustment

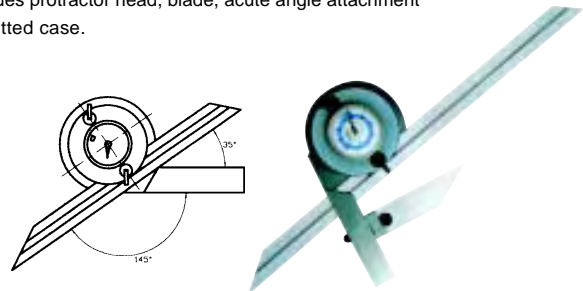
Specifications	Order No.
150mm/6" Blade, Protractor Head, acute angle attachment	635-6545
200mm/8" Blade, Protractor Head, acute angle attachment	635-6547
300mm/12" Blade, Protractor Head, acute angle attachment	635-6549
5 Pcs/set: 1 Protractor Head,1 acute angle attachment, 3 Blades: 150mm/6", 200mm/8" & 300mm/12"	635-6509

With Fine Adjustment

Specifications	Order No.
150mm/6" Blade, Protractor Head, acute angle attachment	635-6552
200mm/8" Blade, Protractor Head, acute angle attachment	635-6554
300mm/12" Blade, Protractor Head, acute angle attachment	635-6557
5 Pcs/set: 1 Protractor Head,1 acute angle attachment, 3 Blades: 150mm/6", 200mm/8" & 300mm/12"	635-6508

Universal Dial Bevel Protractors

- Dial reads each 10° and indicator pointer shows each degree and 5 minutes of angle.
- Includes protractor head, blade, acute angle attachment and fitted case.



Specifications	Order No.
150mm/6" Blade, Protractor Head, acute angle attachment	635-6601
200mm/8" Blade, Protractor Head, acute angle attachment	635-6602
300mm/12" Blade, Protractor Head, acute angle attachment	635-6603
5 Pcs/set: 1 Protractor Head,1 acute angle attachment, 3 Blades: 150mm/6", 200mm/8" & 300mm/12"	635-6604

Digital Universal Protractors

- USB data output
- Setting preset value
- Removable blade
- Changeable direction
- Zero setting at any position
- (for -quadrant) 3 measurement patterns (1 x 360°, 2 x 180°, 4 x 90°)
- Battery: Button Cell (lithium) 3V x 1pc.



Range	Resolution	Blade L.	Order No.
-360°~+360°	30" (0.008°)	150mm	638-8015
-360°~+360°	30" (0.008°)	200mm	638-8020
-360°~+360°	30" (0.008°)	300mm	638-8030

Universal Set

two blades: 150& 300mm,
one Square: 50x60mm,
range: -360Deg.+360Deg

Order No. 638-8040



Digital Protractors

- Extra large LCD, backlight easy for reading in darkness place.
- Beeper will sound at 0 to 90 by step 10degree.
- Measuring data holding
- Display always read upright, no matter which the level is turned.
- Degree and slope conversion
- No special tools and instruments are needed for recalibration, easy for operation.
- 3 in 1 for protractor, dopmeter and level.
- 3V lithium battery

Type A

Dimension:6"x2"x1.3"



Order No. 638-8815



with Wide Base

Order No. 638-8816



with V-Slot

Order No. 638-8817

Type B

- 360 degree measure range
- Display always read upright, no matter which way the level is turned
- Simple calibration requiring no special fixtures
- Versatile measuring too, angle finder.protractor. lever three in one.



Order No. 638-8801

Functions	Ranges
Range	4x90°(0°-360°)
temperature	-5~50°C
humidity	<=85%RH
Resolution	0.1°
Accuracy	0° and 90° <=0.1° the rest <=0.2°

2 Key Bevel Box

Bevel Box is an innovative tool that provides digital reading between +/-150°. Extra LCD is convenient to read. Small and light, it is read easy to be carried and used. Measuring plane containing disk magnet can stick to the surface to be measured. It is especially easy to measure bevel angle of miter saw, automobile test and repair and so on.

- Resolution 0.1°
- Repeatability +/-0.1°
- Measuring range +/-150.0° (0-180°)
- Water Proof: IP154
- Power: 3V CR2032 Lithium battery
- Working current: <100µA
- Dimension: 2 x 2 x 1.3"
- Measuring plane containing disk magnet can stick to the surface to be measured.



Order No. 638-8802



Metal Structure

Order No. 638-8804

with magnetic stand

Order No. 638-8805

3 Key Bevel Box

Holding Type

Technical Data:

- Measuring range : (0-180°)
- Resolution: 0.1°
- Accuracy of Levelial: 2'
- Repeatability: 0.1°
- Working Temperature: +5°C~+50°C
- Working current: <100µA
- Power: 3V Lithium battery (RS2302)
- Dimension: 2 x 2.5 x 1.3"



Order No. 638-8803

4 Key Bevel Box

IP54

- Small,light and portable
- Large LCD display for reading
- Measure data holding
- Magnet in measuring faces can be easy attracted to the object to be measured.
- Display always reads upright, no matter which way the mini protractor is turned.
- Degree and slope conversion
- Auto power on/off, low battery warning
- Measuring range: 4x90°C
- Resolution: 0.1°
- Battery Type: 3V CR2032x 3
- Working Temp: 0-40°C
- Relative Humidity: 40%-80%
- Dimension: 2x2x1"



Order No. 638-8809

High Accuracy Type

- Made of Stainless steel
- Measuring range: 4x90°C
- Accuracy: +/-0.05°
- Resolution: 0.01°
- Battery Type: 3V CR2032x 3
- Working Temp: 0-40°C
- Relative Humidity: 40%-80%
- Dimension: 2x2x1"



Order No. 638-8800

Plane & Square Type Digital Levels

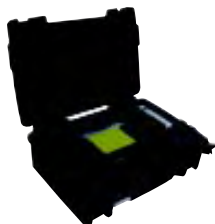
Especially intended for precision measurement of small inclinations and surface plane flatness as well as measurement of geometrical features on machines. With a digital display, this level can be readout quickly and directly. Available as angled and horizontal type.

Features:

- LED display
- 3.6V Li rechargeable battery
- RS232 output interface
- Delivery in a fitted case

Specifications:

- Measuring Range: +/-20mm/m and +/-2mm/m
- Length: 150mm
- Resolution: 0.01mm/m and 0.001mm/m
- Reading Error: $\leq \pm(1+A/50)$ (A is reading absolute value)



Plane type

V style Base



Order No. 638-8831

Plane type

V style Base Dual Screen



Order No. 638-8832

Square type

L style Base



Order No. 638-8833

Cylindrical Squares

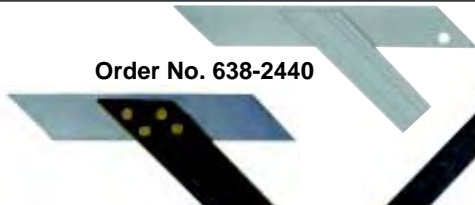
- Use in surface plate as 90° reference angle.
- Used for checking squares, height gages and many instruments.
- The squares are hardened and the ends are lapped to 90° angular accuracy with the cylinders as follow: 6" square to +/- .00010", 12" square to +/- .00015".



Diameter	Height	Order No.
3"	6"	605-5003
4"	12"	605-5004

45 Degree Angle Squares

Order No. 638-2440



Order No. 638-2441

Order No. 638-2442

Flexible Angle Square

- Hardwood handle with handygrip
- Locking device

9" Wooden handle

order No. 638-2445

12" Aluminum Handle

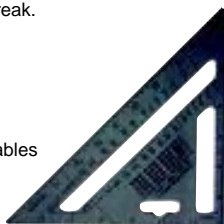
Order No. 638-2446



Heavy-Duty Rafter Square

- Solid aluminum extruded square will not bend or break.
- Stamped conversion tables on square.
- Mark or cut boards up to 12" wide.
- Thicker frame ensures safe use as a saw guide.
- Graduation notches for "pulling" layout lines.
- Includes instruction manual with complete rafter tables
- Chromed finish.

7" Blade Order No. 638-2447



Combination Squares

Stainless Steel Blade

2Pcs/set

Measuring Range 0-180°

Type 1



Type 2



Graduation

4R: 8th, 16th, 32nd, 64th
 16R: 32nd, 64th, 50th, 100th
 Inch/Metric: 64th, 1mm, 32nd, .5mm
 Metric: Single Size .5mm/1.0mm
 Metric/Inch: 0.5mm/1/32"

3Pcs/set



Blade Length	Graduation	2 Piece Set		3 Piece Set
		Type 1 Order No.	Type 2 Order No.	Order No.
6"	4R			635-7779
12"	4R	635-7765	635-7769	635-7773
12"	16R	635-7761	635-7738	635-7748
12"/300mm	Inch/Metric	635-7762	635-7739	635-7749
500mm/20"	Metric/Inch	635-7766	635-7770	635-7774
300mm	Metric	635-7767	635-7771	635-7775
500mm	Metric	635-7768	635-7772	635-7776

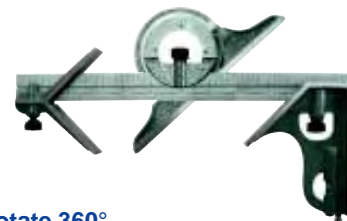
Combination Square Sets

Measuring Range 0-180°, Stainless Steel Blade



Normal Type - Blades cannot rotate 360°

Length of Blade	Graduation	Order No.
12"	4R	638-7756
12"	16R	638-7755
12"/300mm	Inch/Metric	638-7754
300mm/12"	Metric/Inch	638-7761
500mm/20"	Metric/Inch	638-7762
20"/500mm	Inch/Metric	638-7764
300mm	Metric	638-7763
500mm	Metric	638-7760



Open Type- Blades can rotate 360°

Length of Blade	Graduation	Order No.
12"	4R	638-8756
12"	16R	638-8755
12"/300mm	Inch/Metric	638-8754
300mm/12"	Metric/Inch	638-8761
300mm	Metric	638-8762

Master Precision Levels

- Use for accurately checking the work of machinists and toolmakers, the setting up of machinery, and other work that requires extreme level accuracy.
- The body of level is made of cast iron.
- Base is lapped for extreme accuracy as table.



Sizes	0.0002" per 10" Order No.	0.0005" per 10" Order No.
6"	639-3606	639-3616
8"	639-3608	639-3618
10"	639-3610	639-3620
12"	639-3612	639-3622

Sizes	0.02mm per 1m Order No.	0.05mm per 1m Order No.
150mm	639-3406	639-3506
200mm	639-3408	639-3508
250mm	639-3410	639-3510
300mm	639-3412	639-3512

Digital Level

The digital level that combined with laser technology is the most advanced and easy use instrument today. It can display both degree and slope. The digital level can measure all angles in either a 360 degree range or 90 degree quadrants. The digital level also includes a backlight so the unit can used day or night. Not only can this instrument measure with a surface at level or at right angles, it can measure the angles of all slopes rise and fall.

- Power: AAA3V (1.5v x2)



Order No. 638-8807

Functions	Ranges
Range	4x90°(0°-360°)
Temperature	-5~50°C
Humidity	<=85%RH
Resolution	0.1°
Accuracy	0° and 90° <=0.1° the rest <=0.2°

Angle Finder

Four holes for locking when measuring specifically angle; screw off the locking knob, the measuring range could reach 360°. Lock the moving blade at any angle, make precise drawing and cutting directly. Both inside and outside angle measuring

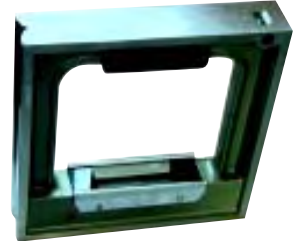
- Metal moving blade on the front
- Aluminium fixing blade
- LCD display
- Locking knob
- High resolution 0.05°
- Power: 3VCr2032 Lithium battery



Order No. 638-8000

Precision Frame Spirit Levels

- Used for adjusting and checking horizontal and vertical surfaces and shafts.
- High accuracy: 0.0002" per 10", 0.0005" per 10", 0.02mm per 1000mm, 0.05mm per 1000mm.
- 2 sides with flat bearing surfaces and 2 sides with flat plus Vee bearing surfaces.
- Heat insulating top handle.



Sizes	.0002" per 10" Order No.	.0005" per 10" Order No.
6x6"	639-3906	639-3916
8x8"	639-3908	639-3918
10x10"	639-3910	639-3920
12x12"	639-3912	639-3922

Sizes	.02mm per 1m Order No.	0.05mm per 1m Order No.
150x150mm	639-3706	639-3806
200x200mm	639-3708	639-3808
250x250mm	639-3710	639-3810
300x300mm	639-3712	639-3812

Plastic Angle Finder

- Sturdy high-impact plastic construction.
- Large scale for fast accurate reading from 0-90° in any quadrant.
- Measures any angle for pitch or slope.
- Movable marker for repeating and transferring angle.



Order No. 638-8001

Round Bar Center Finder

- Accurately and quickly locates center on round workpieces.
- Satin chrome finish.
- Place tool in drill chuck or collet and line up.
- Pointer with line scribed on shaft.
- 3/8" shank, 4-1/8" OAL.



Order No. 805-3320

Inside Calipers

Rivet Joint Type

Size	Carbon Steel Order No.	Stainless Steel Order No.
100mm/4"	108-0304	109-0304
125mm/5"	108-0305	109-0305
150mm/6"	108-0306	109-0306
175mm/7"	108-0307	109-0307
200mm/8"	108-0308	109-0308
250mm/10"	108-0310	109-0310
300mm/12"	108-0312	109-0312
400mm/16"	108-0316	109-0316
500mm/20"	108-0320	109-0320
600mm/24"	108-0324	109-0324
800mm/32"	108-0332	109-0332
900mm/36"	108-0336	109-0336
1000mm/40"	108-0340	109-0340



SpringType

Size	Carbon Steel Order No.	Stainless Steel Order No.
75mm/3"	108-1003	109-1003
100mm/4"	108-1004	109-1004
125mm/5"	108-1005	109-1005
150mm/6"	108-1006	109-1006
175mm/7"	108-1007	109-1007
200mm/8"	108-1008	109-1008
250mm/10"	108-1010	109-1010
300mm/12"	108-1012	109-1012
400mm/16"	108-1016	109-1016
500mm/20"	108-1020	109-1020
600mm/24"	108-1024	109-1024



Adjustable Screw Type

Size	Carbon Steel Order No.	Stainless Steel Order No.
100mm/4"	108-0704	109-0704
125mm/5"	108-0705	109-0705
150mm/6"	108-0706	109-0706
175mm/7"	108-0707	109-0707
200mm/8"	108-0708	109-0708
250mm/10"	108-0710	109-0710
300mm/12"	108-0712	109-0712
400mm/16"	108-0716	109-0716
500mm/20"	108-0720	109-0720
600mm/24"	108-0724	109-0724
800mm/32"	108-0732	109-0732
900mm/36"	108-0736	109-0736
1000mm/40"	108-0740	109-0740



Outside Calipers

Rivet Joint Type

Size	Carbon Steel Order No.	Stainless Steel Order No.
100mm/4"	108-0404	109-0404
125mm/5"	108-0405	109-0405
150mm/6"	108-0406	109-0406
175mm/7"	108-0407	109-0407
200mm/8"	108-0408	109-0408
250mm/10"	108-0410	109-0410
300mm/12"	108-0412	109-0412
400mm/16"	108-0416	109-0416
500mm/20"	108-0420	109-0420
600mm/24"	108-0424	109-0424
800mm/32"	108-0432	109-0432
900mm/36"	108-0436	109-0436
1000mm/40"	108-0440	109-0440



SpringType

Size	Carbon Steel Order No.	Stainless Steel Order No.
75mm/3"	108-1103	109-1103
100mm/4"	108-1104	109-1104
125mm/5"	108-1105	109-1105
150mm/6"	108-1106	109-1106
175mm/7"	108-1107	109-1107
200mm/8"	108-1108	109-1108
250mm/10"	108-1110	109-1110
300mm/12"	108-1112	109-1112
400mm/16"	108-1116	109-1116
500mm/20"	108-1120	109-1120
600mm/24"	108-1124	109-1124



Adjustable Screw Type

Size	Carbon Steel Order No.	Stainless Steel Order No.
100mm/4"	108-0804	109-0804
125mm/5"	108-0805	109-0805
150mm/6"	108-0806	109-0806
175mm/7"	108-0807	109-0807
200mm/8"	108-0808	109-0808
250mm/10"	108-0810	109-0810
300mm/12"	108-0812	109-0812
400mm/16"	108-0816	109-0816
500mm/20"	108-0820	109-0820
600mm/24"	108-0824	109-0824
800mm/32"	108-0832	109-0832
900mm/36"	108-0836	109-0836
1000mm/40"	108-0840	109-0840



Inside & Outside Calipers

Size	Carbon Steel Order No.	Stainless Steel Order No.
150mm/6"	108-2006	109-2006
175mm/7"	108-2007	109-2007
200mm/8"	108-2008	109-2008
250mm/10"	108-2010	109-2010
300mm/12"	108-2012	109-2012



Hermaphrodite Calipers

Size	Carbon Steel Order No.
100mm/4"	108-1204
150mm/6"	108-1206



Dividers

Rivet Joint Type

Size	Carbon Steel Order No.	Stainless Steel Order No.
100mm/4"	108-0004	109-0004
125mm/5"	108-0005	109-0005
150mm/6"	108-0006	109-0006
175mm/7"	108-0007	109-0007
200mm/8"	108-0008	109-0008
250mm/10"	108-0010	109-0010
300mm/12"	108-0012	109-0012
400mm/16"	108-0016	109-0016
500mm/20"	108-0020	109-0020
600mm/24"	108-0024	109-0024
800mm/32"	108-0032	109-0032
1000mm/40"	108-0040	109-0040



Adjustable Screw Type

Size	Carbon Steel Order No.	Stainless Steel Order No.
100mm/4"	108-0504	109-0504
125mm/5"	108-0505	109-0505
150mm/6"	108-0506	109-0506
175mm/7"	108-0507	109-0507
200mm/8"	108-0508	109-0508
250mm/10"	108-0510	109-0510
300mm/12"	108-0512	109-0512
400mm/16"	108-0516	109-0516
500mm/20"	108-0520	109-0520
600mm/24"	108-0524	109-0524
800mm/32"	108-0532	109-0532
900mm/36"	108-0536	109-0536
1000mm/40"	108-0540	109-0540



Rivet Joint Type with Wing

Size	Carbon Steel Order No.	Stainless Steel Order No.
100mm/4"	108-0104	109-0104
125mm/5"	108-0105	109-0105
150mm/6"	108-0106	109-0106
175mm/7"	108-0107	109-0107
200mm/8"	108-0108	109-0108
250mm/10"	108-0110	109-0110
300mm/12"	108-0112	109-0112
400mm/16"	108-0116	109-0116
500mm/20"	108-0120	109-0120
600mm/24"	108-0124	109-0124
800mm/32"	108-0132	109-0132
900mm/36"	108-0136	109-0136
1000mm/40"	108-0140	109-0140



Adjustable Screw Type with Wing

Size	Carbon Steel Order No.	Stainless Steel Order No.
100mm/4"	108-0604	109-0604
125mm/5"	108-0605	109-0605
150mm/6"	108-0606	109-0606
175mm/7"	108-0607	109-0607
200mm/8"	108-0608	109-0608
250mm/10"	108-0610	109-0610
300mm/12"	108-0612	109-0612
400mm/16"	108-0616	109-0616
500mm/20"	108-0620	109-0620
600mm/24"	108-0624	109-0624
800mm/32"	108-0632	109-0632
900mm/36"	108-0636	109-0636
1000mm/40"	108-0640	109-0640



Rivet Joint Type with Wing and Pencil Holder

Size	Carbon Steel Order No.	Stainless Steel Order No.
100mm/4"	108-0204	109-0204
125mm/5"	108-0205	109-0205
150mm/6"	108-0206	109-0206
175mm/7"	108-0207	109-0207
200mm/8"	108-0208	109-0208
250mm/10"	108-0210	109-0210
300mm/12"	108-0212	109-0212
400mm/16"	108-0216	109-0216
500mm/20"	108-0220	109-0220
600mm/24"	108-0224	109-0224
800mm/32"	108-0232	109-0232
1000mm/40"	108-0240	109-0240



Spring Type

Size	Carbon Steel Order No.	Stainless Steel Order No.
75mm/3"	108-0903	109-0903
100mm/4"	108-0904	109-0904
125mm/5"	108-0905	109-0905
150mm/6"	108-0906	109-0906
175mm/7"	108-0907	109-0907
200mm/8"	108-0908	109-0908
250mm/10"	108-0910	109-0910
300mm/12"	108-0912	109-0912
400mm/16"	108-0916	109-0916
500mm/20"	108-0920	109-0920
600mm/24"	108-0924	109-0924



4 Digit Hand Counters

- Mainly used for checking number of persons, tallying of goods and cargo.
- 2" Height x 1-3/4" Width.

Specification	Order No.
ABS Case	840-1614
Reset with push button	840-1617
Steel Case with Plastic base	840-1618
Steel Case with ABS base	840-1619
Plastic Case with Plastic base	840-1620



- Chrome plated, Metal Case
- Finger ring for convenience.
- 2" Height x 1-3/4" Width.

Specification	Order No.
4 Digital without base	840-1615
4 Digital with steel base	840-1616



5, 6&7 Digit Ratchet Counters

With Reset Knob

- Base: 2-1/8"x1-3/4" Counter Height: 1-1/4".

Specification	Order No.
5 Digital	840-1610
6 Digital	840-1611
7 Digital	840-1613



Steel Scribers

One-End Scriber

Straight point with knurled handle. Total Length: 175mm

Order No. 830-2001



Plastic Handle Scriber

One straight and one bent point Total Length: 250mm
Black finish.

Order No. 830-0378



Replaceable Needle Point scriber

- Needle point are long lasting, simply replace with a new point
- Extra point stored under cap
- Use for scribing on stainless steel and other hard metals and for deep hole work OAL: 5-5/16"

Order No. 830-2005



Pocket Scribers

Replaceable hardened and centerless ground point.

Point can be reversed into knurled body for safety.

Size: 1/4" x 2-3/8" x 4-3/4" (Body dia. x Point length x OAL)

Order No. 830-2003



Size: 3/8" x 2-7/8" x 5-7/8" (Body dia. x Point length x OAL)

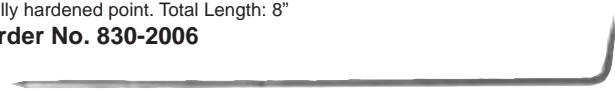
Order No. 830-2004



Right Angle Scriber

Fully hardened point. Total Length: 8"

Order No. 830-2006



Double-End Scriber

One straight and one bend point. Total Length: 9"

Order No. 830-2002



Steel Scribers

Three Point Scriber

Aluminum knurled body with three interchangeable threaded points:

One short straight, one short bent, one long bent point.

Total Length of two short point combination: 9"

Total Length of one short and one long point Combination: 12"

Order No. 830-2007



Fixed Two Point Scriber

Total Length: 192mm

Order No. 830-0377



Double-End Scriber

One straight and one bent point with knurled handle.

Replaceable Points: Straight Point (830-0391)

Bend Point (830-0392)

Total Length: 250mm

Order No. 830-0386



Chisel type

6-1/2" overall length

Order No. 830-2012



Pothook type

Total Length: 110mm

Order No. 830-2023



Carbide Tipped Scribers

Pocket Type

Total length: 145mm ρ Chrome Plated

Order No. 830-2008



Heavy Duty Type

Heavy body, Diameter 8.0mm Total Length: 180mm

Order No. 830-2009



Metal body, chrome plated. 20mm long carbide tipped point.

Total Length: 160mm

Order No. 830-2010



Round spring Collet Pen Scriber

- Pen length: 150mm.

- Include one 40mm carbide point, one 70mm lead point.

Order No. 830-2021



Replaceable Point Scribers

Type A

Hold scriber 1.0-3.0mm, Plastic Shank

Order No. 830-2050



Hold scriber 1.0-3.0mm, Aluminum Shank

Order No. 830-2051



Type B

with Auto Feeding

Order No. 830-2055



Type C

Scriber & Center Punch.

Order No. 830-2060



Type D

Aluminum body.

Point can be reversed into body for safety when not in use.

Replacement point(830-0393). Total Length: 150mm

Order No. 830-0389



Type F

Scriber length is adjustable.

Order No. 830-2065



Type I, Aluminum Shank

with double end Scriber

Order No. 830-2070



Type II, Aluminum Shank

with Magnetic. Pick up,

Order No. 830-2076

without Magnetic. Pick up,

Order No. 830-2075



magnetic pick up

Aluminum body.

Total Length: 5-1/2"

Order No. 830-0382



Heavy Duty

Plastic Handle, Carbide Point.

Order No. 830-2066



8pcs Machinist Scriber Tool Sets

Type A

- Vernier Caliper 4"/100mm
- Steel Ruler 6"/150mm
- Machinist Square 4x6"(100x150mm)
- Carbide Tip Scriber (Auto Feeding)
- Double End Steel Scriber 8"/200mm
- Plastic Edge Off Deburring Tool (E100 Blade, magnetic end)
- Steel Divider 4"/100mm
- Automatic Center Punch
- Come with Plastic Case



Order No. 830-0081

Type B

- Steel Ruler 6"/150mm
- Machinist Square 4x6"(100x150mm)
- Carbide Tip Scriber (Auto Feeding)
- One End Steel Scriber 7"/175mm
- Pocket Steel Scriber 6"/150mm
- Plastic Edge Off Deburring Tool (E100 Blade, magnetic end)
- Steel Divider 4"/100mm
- Center Punch
- Come with Plastic Case



Order No. 830-0082

Type C

- Steel Ruler 6"/150mm
- Machinist Square 4x6"(100x150mm)
- Carbide Tip Scriber
- Double End Steel Scriber 8"/200mm
- Chisel Type Steel Scriber 7"/175mm
- Plastic Edge Off Deburring Tool (E100 Blade, magnetic end)
- Steel Divider 4"/100mm
- Center Punch
- Come with Plastic Case



Order No. 830-0083

3R-Type Hardness Tester

with Automatic Dial Weight Selection



Order No. 639-2030
Mfr's # HR-150A

- Designed for measuring hardness of metals and alloys of all kinds, hard or soft whether flat, round or irregular in shape.
- Simple in design and easy to operate, yet sensitive and accurate testing results can be obtained with these testers.
- They are ideally suitable for schools, laboratories, tool rooms, inspection and heat treatment departments and factories.
- Conforms to ISO 33804-1966 and BS: 891-1962 Part I and Part II for Rockwell test.

Loads and Indicators

Description	
Maximum Load (kgf)	150
Load Range (kgf)	60, 100, 150
Initial Range Load (kgf)	10
Maximum Test Height	4-1/4"
Depth of Throat	5-1/4"
Max. Depth of Spindle Below Base	2"
Size of Base	7x18"
Machine Height	24-1/2"
Approximate Net Weight (lbs)	150

Standard Accessories Included:

Description	Order No.
5-3/4" Testing Table	HARD-100
2-3/16" Testing Table	HARD-101
2-3/16" Testing Table with "V" groove	HARD-102
120° Diamond Penetrator	HARD-103
1/16" Steel Ball Penetrator	HARD-104
Rockwell Test Block HRA80-88	HARD-106
Rockwell Standard Block HRB 85-95	HARD-107
Rockwell Test Block HRC60-70	HARD-108
Rockwell Standard Block HRC35-55	HARD-109
Rockwell Standard Block HRC20-30	HARD-110
Large Screw Driver	HARD-111
Small Screw Driver	HARD-112
Accessory case	HARD-113

Different Rockwell Hardness Scales

Scale	Penetrator	Loading (kgf)	Applications	Brinell vale	Working Range
A	Diamond 120°	60	Carbide, Thin steel, Shallow Case-Hardened steel, Case-Carbonized surfaces	Over HB400	40-91 for hardness greater than C65
B	1/16" Ball	100	Aluminum alloys, Copper alloys, Unhardened steel etc. In rolled, Draw, Extruded or Cast metal	HRB 100-240	30-100 for hardness lower than C20
C	Diamond 120°	150	Hard cast irons, Pearlitic malleable iron, Steel, Deep case hardened steel, Titanium	Over HRB230	20-70 for hardness lower than HRB100
D	Diamond 120°	100	Pearlitic malleable iron, Thin steel & Medium case-hardened steel	Over HRB400	40-77 for intermediate load between A & C scale
E	1/8" Ball	100	Cast iron, Aluminum and magnesium alloys, Bearing metal	Below HRB125	50-100 for hardness lower than HRB0
F	1/16" Ball	60	Thin soft sheet metals, Annealed copper alloys	HRB 50-120	30-100 for hardness lower than HRB0
G	1/16" Ball	150	Copper-Nickel-Zinc and Cupro-Nickel alloys, Malleable irons	HRB 120-280	30-90 for hardness slightly > than HRB 100 upper limit G92
H	1/8" Ball	60	Lead, Zinc, Aluminum, Magesium alloys	HRB 30-50	70-100
K	1/8" Ball	150	Bearing metals, very soft or thin material	HRB 100-200	40-100

Bench Centers



- Used for accurate concentricity inspection.
- Accaracy: less than 0.00015" runout.
- MT2 Centers are hardened and ground.
- Indicator holder included, Indicator not included.
- Hand scraped ways, adjustable gibs.
- Head stock can be adjusted lengthwise and locked securely in any position by special lever type handle.

Distance Between Center	Swing	Overall Length	Order No.
16"	12	30	640-2001
32"	19	48	640-2002

3R type Hardness Tester

Features:

Optimized mechanical frame. Manual testing process, no need for electric controlling.
 It is steady and reliable for testing of curved surface.
 Precision conforms to ISO 6508-2 and ASTM E18.
 Suitable to determine the Rockwell hardness of ferrous, non ferrous metals and non-metal materials. It can be widely applied in the Rockwell hardness testing for heat treatment materials, such as quenching, hardening and tempering, etc.

Specifications:

Measuring Range.....20-88HRA, 20-100HRB, 20-70 HRC
 Test Force.....588.4, 980.7, 1472N(60,100, 150kgf)
 Max Height of Test Piece..... 210mm
 Depth of throat.....165mm
 Min Scale Value;-0.5HR
 Dimensions.....522x293x729mm
 Weight.....98kgs

Standard Accessories:

Large Flat Anvil: 1pc
 Small flat anvil: 1pc
 V-notch Anvil: 1pc
 Diamond penetrator: 1pc
 1/16± steell ball penetrator: 1pc
 Rockwell standard blocks: 5pcs

Order No.639-2035

Mfr# 200HR-150



Digital Rockwell Hardness Tester

Automatic Load

- Automatic load and release control
- An advanced frictionless loading shaft mechanism is adopted. It can ensure the accurate and reliable test.
- LED digital reading..

Standard

Measuring Range.....20-88HRA, 20-100HRB, 20-70HRC
 Test Force.....588.4, 980.7, 1471N (60, 100, 150kgf)
 Max. Specimen Height.....170mm
 Depth of Throat.....130mm
 Grad. of Hardness Display..... 0.1HR
 Power Supply..... 220V AC or 110V AC, 50/60Hz
 Dimensions..... 500 x 250 x 700mm
 Weight..... 75kg

Accessories(included):

Large Flat Anvil: 1 pc.
 Small Flat Anvil: 1 pc.
 Large V-Notch Anvil: 1 pc.
 Diamond Cone Penetrator: 1 pc.
 1/16" Steel Ball Penetrator: 1 pc.
 Rockwell Standardized Block: 5 pcs.
 Printer: 1 pc.

Order No.639-2061

Mfr's # HRS-150



Superficial

Measuring Range.....70-94HR/15N,42-86HR/30N,20-77HR/45N,
 67-93HR/15T,29-82HR/30T,10-72HR/45T
 Test Force.....147.1, 294.2, 441.3N (15, 30, 45kgf)
 Max. Specimen Height.....150mm
 Depth of Throat.....120mm
 Grad. of Hardness Display..... 0.1HRN(T)
 Power Supply.....220V AC or 110V AC, 50/60Hz
 Dimensions.....500 x 240 x 700mm
 Weight..... 68kg

Accessories(included):

Large Flat Anvil: 1 pc.
 Small Flat Anvil: 1 pc.
 Large V-Notch Anvil: 1 pc.
 Diamond Cone Penetrator: 1 pc.
 1/16" Steel Ball Penetrator: 1 pc.
 Superficial Rockwell Standardized Block:
 4 pcs.
 Printer: 1 pc.

Order No.639-2062

Mfr's # HSRS-45



Electronic Brinell Hardness Tester

Features:

Automatic test process, no manual operating error
 Large LCD screen, menu displaying, easy operation
 Precision conforms to ISO6506-2 and ASTM E10.
 It is suitable to measure the Brinell hardness of unquenched steel, cast iron, non-ferrous metals and soft bearing alloys, etc.

Specifications:

Measuring Range.....4-650HBW
 Test Force.....612.9, 980.7, 1225.9, 1838.8, 2451.8, 4903.5, 7355.3, 9807,
 14710.5 and 29421N(62.5, 100, 125, 187.5, 250, 500, 750, 1000, 1500 and
 3000kgf)
 Max Height of Test Piece..... 240mm
 Depth of throat.....150mm
 Power supply....220V AC or 110V AC, 50 or 60 Hz
 Dimensions.....630x250x1000mm
 Weight.....250kgs

Standard Accessories:

Large Flat Anvil: 1pc
 Small flat anvil: 1pc
 V-notch Anvil: 1pc
 Tungsten Carbide Ball Penetrator: Dia 2.5, 5,
 10mm, 1pc each
 Brinell standard blocks: 2pcs
 20X readout microscope: 1pc

Order No.639-2050

Mfr# HB-3000C



Digital Vickers Hardness Tester

- Computer and angular displacement sensor are adopted so that the test procedure, hardness value display and data-printing are performed automatically.
- An advanced frictionless loading shaft mechanism is adopted. It can ensure the accurate and reliable test.
- The operating system can be changed between Chinese and English.
- LCD Screen .

Microhardness

Features:

Automatic turret switching between penetrator and objective lens, RS232 data interface, built-in printer.

Hardness conversion between different hardness scales

Precision conforms to ISO6507-2 and ASTM E384.

Used for determining the microhardness of steel, non-ferrous metals, ceramics, treated layers of metal surface, and the hardness grads of carburized, nitrided and hardened layers of metals, and also suitable to determine the microhardness of micro and super thin parts.

Specification:

Measuring Range.....5-3000HV
 Test Force.....0.09807, 0.2452, 0.4904, 0.9807, 1.961, 2.942, 4.904, 9.807N (10, 25, 50, 100, 200, 300, 500, 1000kgf)
 Hardness scale.....HV0.01, HV0.025, HV0.05, HV0.1, HV0.2, HV0.3, HV0.5, HV1
 Magnifications of measuring system.....400x(measuring), 100x (observing)
 Min Scale value of micrometer.....0.01um
 Max measuring length of micrometer.....200um
 Max Height of test piece.....75mm
 Depth of throat.....110mm
 Power supply..... 220V or 110V AC, 50 or 60 Hz
 Dimensions.....470x 320x500mm
 Weight.....40kgs

Accessories(included):

Coordinate Anvil, 1pc
 Thin shaft Anvil: 1pc
 Thin plate anvil: 1pc
 Flat nose pliers: 1pc
 Large V notch anvil: 1pc
 Small V notch anvil: 1pc
 Diamond Penetrator: 1pc
 Micro-Vickers standardized blocks: 2pcs

Order No.639-2066
 Mfr's # HVS-1000A



Low Load

Measuring Range.....5-3000HV
 Test Force.....1.961, 2.942, 4.903, 9.807, 19.61, 24.52, 29.42, 49.03N (0.2, 0.3, 0.5, 1, 2, 2.5, 3, 5kgf)
 Magnifications.....500x, 125x
 Grad. of Microscope.....0.00025m
 Max. Specimen Height.....130mm
 Depth of Throat.....100mm
 Power Supply..... 220V AC or 110V AC, 50/60Hz
 Dimensions.....410 x 200 x 620mm
 Weight.....Approx. 50kg

Accessories(included):

Coordinate Anvil: 1 pc.
 Thin Shaft Anvil: 1 pc.
 Thin Plate Anvil: 1 pc.
 Flat Nose Pliers: 1 pc.
 Large V-Notch Anvil: 1 pc.
 Small V-Notch Anvil: 1 pc.
 Diamond Pyramid Penetrator: 1 pc.
 Vickers Standardized Block: 2 pcs.
 Micro-Vickers Standardized Block: 1 pc.
 Printer: 1 pc.

Order No.639-2064
 Mfr's # HVS-5



Standard

- The test result can be converted into various hardness values automatically.

Measuring Range.....5-2900HV
 Test Force.....9.807, 49.03, 98.07, 196.1, 294.2, 490.3N (1, 5, 10, 20, 30, 50kgf)
 Max. Specimen Height.....180mm
 Depth of Throat.....125mm
 Magnifications.....125x, 50x
 Grad. of Microscope.....0.001mm
 Power Supply.....220V AC or 110V AC, 50/60Hz
 Dimensions..... 580 x 260 x 730mm
 Weight.....90kg

Accessories(included):

Large Flat Anvil: 1 pc.
 Small Flat Anvil: 1 pc.
 V-Notch Anvil: 1 pc.
 Diamond Pyramid Penetrator: 1 pc.
 Vickers Standardized Block: 3 pcs.
 Printer: 1 pc.

Order No.639-2065
 Mfr's # HVS-50



Portable Brinell Hardness Tester

Features:

Small size and lightweight
Precision conforms to ISO6506-2 and ASTM E10.

Specifications:

Measuring Range: 100-400HBS
Impact capacity: 4.9J
Diameter of steel Ball: dia 10mm
Dimensions: Dia 55x370mm
Weight: 3.3kgs

Standard Accessories:

Portable Brinell standard block: 1pc
20X readout microscope: 1pc

Order No.639-2022

Mfr#HBX-0.5



Brinell Portable Hardness Tester

Designed to determine the Brinell Hardness value of different metals by measuring the diameter of the indentations left on the piece being tested. This tester is especially suited for the technician to use wherever portability and simplicity are a requirement.

Designed for use on non austenitic steels only. Furnished complete with standardized block, 20x microscope, instructions in a fitted case.

Measuring range: 450 H.B.S.

Diameter of steel ball: 3/8"
Dimensions: 1" dia x 5" high
Weight: 1-1/4" lbs

Order No.639-2021

Mfr#HBC



Digital Multifunctional Portable Hardness Tester

This multifunctional portable hardness tester is capable of measuring the surface hardness and tensile properties of a board variety of metals on flat and round surfaces. This instrument comes with an integrated hardness impact probe and digital display meter. Users can quickly print test data using the integrated, removable dot matrix printer.

Reliable hardness property measures of steel and cast steel, alloy steel, gray cast iron, cast aluminum alloy, brass, bronze, and copper, and tensile property measurements of carbon alloys, steel alloys, super strength alloys and stainless steel alloys are easily attained with this compact instrument.

Display test results in all various hardness scales: HRB, HRC, HB, HV, HSD, HL, HRD
Test at any angle, even upside down

Conversion to ultimate tensile strength

Immediate conversion between hardness scales, and print-out if desired.

Input and print out of test number and date

Input and print out of material type and test direction

Print out of test results via integral printer

Low battery indication

Comes complete with protective carrying case, test block and battery charger.



Model D

Suitable for most of hardness testing.

Specifications:

Hardness Measuring Range.....330-890HL
Impact Capacity.....11Nmm
Weight.....75g
(Total 670g including impact device and printer)
Operating Temp.....1-40Degree C
Dia of tungsten carbide ball......3mm
Mass of impact body......5.5g
Dimensions......270x86x47mm
Operating Voltage......6V DC

Standard Accessories:

Small positioner: 1pc
Binder: 1 bottle
Lee Standardized block: 1pc
Battery Charger: 1pc

Order No.639-2076

Model DC

Suitable for hardness measuring of inner holes and small place.

Specifications:

Hardness Measuring Range.....330-890HL
Impact Capacity......11Nmm
Weight......50g
(Total 670g including impact device and printer)
Operating Temp......1-40Degree C
Dia of tungsten carbide ball......0.3mm
Mass of impact body......5.5g
Dimensions......270x86x47mm
Operating Voltage: -6V DC

Standard Accessories:

Small positioner: 1pc
Binder: 1 bottle
Lee Standardized block: 1pc
Battery Charger: 1pc

Order No.639-2077

Model D+15

Suitable for hardness measuring of gear face, column inner surface and concave surface.

Specifications:

Hardness Measuring Range.....346-890HL
Impact Capacity......11Nmm
Weight......80g
(Total 670g including impact device and printer)
Operating Temp......1-40Degree C
Dia of tungsten carbide ball......0.3mm
Mass of impact body......5.5g
Dimensions......270x86x47mm
Operating Voltage......6V DC

Standard Accessories:

Small positioner: 1pc
Binder: 1 bottle
Lee Standardized block: 1pc
Battery Charger: 1pc

Order No.639-2078

Model G

Suitable for hardness measuring of steel, cast steel, gray cast iron, nodular cast iron and non-ferrous metals.

Specifications:

Hardness Measuring Range.....330-650HLG
Impact Capacity......11Nmm
Weight......80g
(Total 670g including impact device and printer)
Operating Temp......1-40Degree C
Dia of tungsten carbide ball......0.3mm
Mass of impact body......20g
Dimensions......270x86x47mm
Operating Voltage......6V DC

Standard Accessories:

Small positioner: 1pc
Binder: 1 bottle
Lee Standardized block: 1pc
Battery Charger: 1pc

Order No.639-2079

High Precision Optical Profile Projectors

Features:

Provides accurate 2D measurement for all common geometric features such as circle, lines, angles and etc.

All measured results can be printed or transferred to computer for further processing.

The optical profile projector is designed for all circular dimensions measurement in mould and die making, form tools making, screw manufacturing, gear manufacturing and etc.

Constructed with top class components and under high standard of workmanship, the Projector achieves very high measurement accuracy, the axial measurement accuracy is $(3+L/100)\mu\text{m}$, where L is the measured length in mm : the total contour distortion is less than 0.08%.

High quality lighting and optical system provides brilliant images of exceptional quality,

The projector is equipped with 1um resolution high accuracy measuring system which provides comprehensive & easy to use geometric measurement functions.



Measuring System Specifications

Axis: X,Y axes linear transducer
A axis rotary encoder

Resolution: 0.001mm(X,Y axes) / 0.01deg.(A axis)

Coordinates: X,Y and Polar Coordinates Systems

Memory: 99 features memory ;10 coordinates memory

Error Comp: Linear and non-linear error compensation

I/O Interface: RS-232C I/O interface

Geometric Measurement Functions

- 3 points circle measurement
- Points measurement
- 2 points distance measurement
- 2 points form a line measurement
- 2 lines intersection measurement
- 4 points line intersection measurement
- Point line perpendicular projection

Specifications	Order No. 640-1510	Order No. 640-2010	Order No. 640-2515
Table	Table	Table	Table
Table dimensions	300x170mm	350x170mm	420x250mm
Glass dimensions	175x127mm	230x120mm	290x190mm
X measurement travel	150mm	200mm	250mm
Y measurement travel	100mm	100mm	150mm
Z focusing travel	90mm	90mm	90mm
XY readout resolution	0.001mm	0.001mm	0.001mm
Axial measuring accuracy	$(3+L/100)\mu\text{m}$	$(3+L/100)\mu\text{m}$	$(3+L/100)\mu\text{m}$
Screen			
Screen diameter	315mm	315mm	415mm
A readout range	0-360 degree	0-360 degree	0-360 degree
A readout resolution	0.01 degree	0.01 degree	0.01 degree
Max. Contour distortion	0.08%	0.08%	0.08%
Lens			
Magnifications	10X 20X 50X	110X 20X 50X	10X 20X 50X
Visual field (dial.)	30mm 15mm 6mm	30mm 15mm 6mm	40mm 20mm 8mm
Object focal distance	73mm 35mm 15mm	73mm 35mm 15mm	81mm 71mm 65mm

Dial Shore Durometers

For testing soft and natural rubber products, neoprene, soft P.V.C., nitril rubbers, wax and more

Shore A

35° Blunt Taper

Hardness: 20-90HA

Test Force: 0.55-8.06N(56-821g)

Shore D (for hard rubber and plastic) Shore C (for Medium Rubber

Sharp 30° Point

Hardness: 0-90HD

Test Force: 0-44.5N(0-4450g)

elastomers and Plastic)

Sharp 30° Point

Hardness: 0-90HD

Test Force: 0-44.5N(0-4450g)

Order No.639-2071

Order No.639-2072

Order No.639-2073



Pin Gage Sets

Inch Sets

- Laser marking size, size is quite clear.
- Each set has a certificate, to state the accuracy of each size.
- Smooth finish 10 micro or better
- Uniform 2" length.
- A must for checking hole diameter & distance between holes and hole location.
- Sizes marked on storage case.
- All gages within 0.0002".



Set with Handle



Set without Handle

No. of Piece	Type	Size	Set w/o Handle	Set with Handle
			Order No.	Order No.
50	M0 Plus	0.011 to 0.060	616-8100	616-8600
50	M0 Minus	0.011 to 0.060	616-8101	616-8601
190	M1 Plus	0.061 to 0.250	616-8110	616-8610
190	M1 Minus	0.061 to 0.250	616-8111	616-8611
250	M2 Plus	0.251 to 0.500	616-8120	616-8620
250	M2 Minus	0.251 to 0.500	616-8121	616-8621
125	M3 Plus	0.501 to 0.625	616-8130	616-8630
125	M3 Minus	0.501 to 0.625	616-8131	616-8631
125	M4 Plus	0.626 to 0.750	616-8140	616-8640
125	M4 Minus	0.626 to 0.750	616-8141	616-8641
82	M5 Plus	0.751 to 0.832	616-8150	616-8650
82	M5 Minus	0.751 to 0.832	616-8151	616-8651
84	M6 Plus	0.833 to 0.916	616-8160	616-8660
84	M6 Minus	0.833 to 0.916	616-8161	616-8661
84	M7 Plus	0.917 to 1.000	616-8170	616-8670
84	M7 Minus	0.917 to 1.000	616-8171	616-8671

Metric Sets

- Heat treated to a hardness of 60/62 HRC.
- 50mm overall length with sharp corners broken.
- Sets include fitted wooden case.



No. of Piece	Range(mm)	Step (mm)	Tolerance					
			+0.002mm Order No.	-0.002mm Order No.	+/-0.001mm Order No.	+/-0.002mm Order No.	+0.005mm Order No.	-0.005mm Order No.
71	0.3-1.00	0.01	616-3071	616-4071	616-5071	616-6071	616-7071	616-9071
100	1.01-2.00	0.01	616-3102	616-4102	616-5102	616-6102	616-7102	616-9102
100	2.01-3.00	0.01	616-3103	616-4103	616-5103	616-6103	616-7103	616-9103
100	3.01-4.00	0.01	616-3104	616-4104	616-5104	616-6104	616-7104	616-9104
100	4.01-5.00	0.01	616-3105	616-4105	616-5105	616-6105	616-7105	616-9105
100	5.01-6.00	0.01	616-3106	616-4106	616-5106	616-6106	616-7106	616-9106
100	6.01-7.00	0.01	616-3107	616-4107	616-5107	616-6107	616-7107	616-9107
100	7.01-8.00	0.01	616-3108	616-4108	616-5108	616-6108	616-7108	616-9108
100	8.01-9.00	0.01	616-3109	616-4109	616-5109	616-6109	616-7109	616-9109
100	9.01-10.00	0.01	616-3111	616-4111	616-5111	616-6111	616-7111	616-9111
900	1.01-10.00	0.01	616-3900	616-4900	616-5900	616-6900	616-7900	616-9900
86	.030-2.00	0.02	616-3086	616-4086	616-5086	616-6086	616-7086	616-9086
100	2.02-4.00	0.02	616-3114	616-4114	616-5114	616-6114	616-7114	616-9114
100	4.02-6.00	0.02	616-3116	616-4116	616-5116	616-6116	616-7116	616-9116
100	6.02-8.00	0.02	616-3118	616-4118	616-5118	616-6118	616-7118	616-9118
100	8.02-10.00	0.02	616-3119	616-4119	616-5119	616-6119	616-7119	616-9119
95	0.30-5.00	0.05	616-3095	616-4095	616-5095	616-6095	616-7095	616-9095
100	5.05-10.00	0.05	616-3022	616-4022	616-5022	616-6022	616-7022	616-9022
48	0.30-5.00	0.10	616-3048	616-4048	616-5048	616-6048	616-7048	616-9048
98	0.30-10.00	0.10	616-3098	616-4098	616-5098	616-6098	616-7098	616-9098
41	1.00-5.00	0.10	616-3041	616-4041	616-5041	616-6041	616-7041	616-9041
91	1.00-10.00	0.10	616-3091	616-4091	616-5091	616-6091	616-7091	616-9091
101	10.00-20.00	0.10	616-3101	616-4101	616-5101	616-6101	616-7101	616-9101
40	0.50-20.00	0.50	616-3040	616-4040	616-5040	616-6040	616-7040	616-9040
20	1.00-20.00	1.00	616-3020	616-4020	616-5020	616-6020	616-7020	616-9020
5	0.300-1.525	0.025	616-3050	616-4050	616-5050	616-6050	616-7050	616-9050
190	1.550-6.275	0.025	616-3190	616-4190	616-5190	616-6190	616-7190	616-9190
140	6.300-9.775	0.025	616-3140	616-4140	616-5140	616-6140	616-7140	616-9140
110	9.800-12.525	0.025	616-3110	616-4110	616-5110	616-6110	616-7110	616-9110
61	13.000-19.000	0.100	616-3061	616-4061	616-5061	616-6061	616-7061	616-9061

Steel Pin Gage Sets

Class "ZZ", +/- .0002" Tol.

- Go/No-Go gage handle furnished with each set
- Consists of 3,4 Drawer Cabinets



Size Range	Gage Set No.	Plus Order No.	Minus Order No.
.011-.750	M0 to M4	616-8184	616-8185
.061-.750	M1to M4	616-8190	616-8191
.061-.5005	M1to M3	616-8186	616-8187
.011-.5005	M0 to M3	616-8188	616-8189
.061-1.000	M1 to M7	616-8194	616-8195
.011-1.000	M0 to M7	616-8196	616-8197
.751-1.000	M5 to M7	616-8198	616-8199

Ceramic Pin Gage Sets

- Superior abrasion resistance prolongs service life.
- Because ceramic pin gage are free from corrosion, they can be handled with bare hands do not require special maintenance or rust prevention treatment.
- Similar coefficient of thermal expansion to steel, it can be used for measuring steel parts.



Size(mm)	Steps	Length	Tol: +/-1µm	Tol: +/-2µm
			Round: 0.8µm	Round: 1.0µm
			Order No.	Order No.
1.01-2.00	0.01mm	32mm	616-1001	616-1011
2.01-3.00	0.01mm	32mm	616-1002	616-1012
3.01-4.00	0.01mm	40mm	616-1003	616-1013
4.01-5.00	0.01mm	40mm	616-1004	616-1014
5.01-6.00	0.01mm	40mm	616-1005	616-1015
6.01-7.00	0.01mm	50mm	616-1006	616-1016
7.01-8.00	0.01mm	50mm	616-1007	616-1017
8.01-9.00	0.01mm	50mm	616-1008	616-1018
9.01-10.00	0.01mm	50mm	616-1009	616-1019

Inch Gage Block Sets

Gage Block Accuracy Table

- Higher degree of accuracy when used at temperature of 68° F(20°C).
- Individual serial numbers on each block, regardless of grade.
- A complete certificate of calibration traceable to the N.I.S.T. showing the deviation of each block.
- All sets are supplied in deluxe fitted wood case.
- All sets meet or exceed Fed.Spec. ASME B89.1.9-2002
- Mirror polished surfaces provide superior wringing characteristics.

Nominal Size	Tolerances(in millionths of an inch)			
	Grade 0	Grade AS-1	Grade AS-2	Grade Economy
Thru .050	+/-6	+/-12	+/-24	
Thru .400	+/-5	+/-8	+/-18	
Thru 1"	+/-6	+/-12	+/-24	+/-50
Thru .2"	+/-8	+/-16	+/-32	
Thru .3"	+/-10	+/-20	+/-40	
Thru .4"	+/-12	+/-24	+/-48	

36 Piece Rectangular Gage Block Sets

Sets Included:

- 1 Blocks: 0.050"
- 9 Blocks: 0.1001"-0.1009" by 0.0001" steps
- 9 Blocks: 0.101"-0.109" by 0.001" steps
- 9 Blocks: 0.110"-0.190" by 0.010" steps
- 5 Blocks: 0.100"-0.500" by 0.100" steps
- 3 Blocks: 1, 2, 4"

Grade	Steel	Solid Carbide
	Order No.	Order No.
0	630-4100	125-0362
AS-1	630-4103	125-0363
AS-2	630-4104	125-0364
Economy	630-4105	125-0365



81 Piece Steel Square Gage Block Sets

Sets Included:

- 1 Blocks: 0.050"
- 10 Blocks: 0.1000"-0.1009" by 0.0001 steps
- 49 Blocks: 0.101"-0.149" by 0.001" steps
- 17 Blocks: 0.150"-0.950" by 0.050" steps
- 4 Blocks: 1.000"-4.000" by 1.000" steps

Grade	Order No.
0	630-4120
AS-1	630-4123
AS-2	630-4124
Economy	630-4125



81 Piece Rectangular Gage Block Sets

Sets Included:

- 1 Blocks: 0.050"
- 10 Blocks: 0.1000"-0.1009" by 0.0001 steps
- 49 Blocks: 0.101"-0.149" by 0.001" steps
- 17 Blocks: 0.150"-0.950" by 0.050" steps
- 4 Blocks: 1.000"-4.000" by 1.000" steps

Grade	Steel	Solid Carbide
	Order No.	Order No.
0	630-4110	125-0812
AS-1	630-4113	125-0813
AS-2	630-4114	125-0814
Economy	630-4115	125-0815



Inch Ceramic Gage Block Sets

Grade	36 Piece	81 Piece
	Order No.	Order No.
0	631-0362	631-0812
AS-1	631-0363	631-0813
AS-2	631-0364	631-0814
Economy	631-0365	631-0815



Special Gage Block Sets

Metric Micrometer Checking Sets ISO3650



Set	Specifications	Grade	Order No.
11Pcs	10 Gage Blocks,: 2.5, 5.1, 7.7, 10.3,	0	630-0100
	12.9, 15.0, 17.6, 20.2, 22.8, 25.0mm	1	630-0101
	1 Optical Flat: 30mmDia. x 12mm	2	630-0102
11Pcs	10 Gage Blocks,: 1, 1.25, 1.5, 2,	0	630-0120
	3, 5, 10, 15, 20, 25.0mm	1	630-0121
	1 Optical Flat: 30mmDia. x 12mm	2	630-0122

Caliper Inspection Set ISO3650

- Sets Included:**
- 1 Block: 30mm
 - 1 Block: 41.3mm
 - 1 Block: 131.4mm
 - 2 Steel Setting Rings: ϕ 4mm, ϕ 25mm
 - 1 Pair of gloves.
 - Gage Block Grade: Class 1



Order No. 630-0000

Inch Micrometer Checking Sets

- A certificate shows individual deviation of each block.
- Gage blocks traceable to the NIST.
- 12-Piece feature 2 optical flats with .0125" step for checking spindle at half revolution.
- Optical flats are .0005" thickness accuracy, .000004", Flatness, .00002" Parallel.
- 10-Piece sets & 12-Piece sets feature different blocks combination for precision checking of different ranges.
- Each blocks is serialized.
- with Fitted wooden case.

Set	Specifications	Order No.
10Pcs	9 Gage Blocks, Grade 0: .0625, .100, .125, .200, .250, .300, .500, 1.000 & 2.000" 1 Optical Flat: 1"Dia. x.5125" Thickness.	9100-9156
10Pcs	9 Gage Blocks, Grade AS-1: .0625, .100, .125, .200, .250, .300, .500, 1.000 & 2.000" 1 Optical Flat: 1"Dia. x.5125" Thickness.	9100-9157
12Pcs	10 Gage Blocks Grade 0: .105, .210, .315, .420, .500, .605, .710, .815, .920, 1.000" 2 Optical Flat: 1"Dia. x.5000" &.5125" Thickness.	9100-9159
12Pcs	10 Gage Blocks Grade AS-1: .105, .210, .315, .420, .500, .605, .710, .815, .920, 1.000" 2 Optical Flat: 1"Dia. x.5000" &.5125" Thickness.	9100-9160



Large Size Gage Block Sets Inch

Piece/Set	Size	Grade 0 Order No.	AS-1 Order No.	AS-2 Order No.	Economy Order No.
8	5", 6", 7", 8", 10", 12", 16", 20"	630-8100	630-8101	630-8103	630-8102

Metric

Piece/Set	Size	Grade 0 Order No.	Grade 1 Order No.	Grade 2 Order No.
8	125mm, 150mm, 175mm, 200mm, 250mm, 300mm, 400mm, 500mm	630-8000	630-8001	630-8002
8	25mm, 50mm, 75mm, 100mm 125mm, 150mm, 175mm 200mm	630-8200	630-8201	630-8202



Space Block Sets

- Each block clearly marked for size
- Hardened and lapped, HRC58-60
- 4 connecting screws included, make any length desired.
- Complete in fitted case.

Set	Specifications	Order No.
36Pcs	9 Pieces: .101-.109" by .001", 15 Pieces: .050-.190" by .010", 9 Pieces: .200-1.000" by .100", 1 Piece: .0625", .125", 1.000", Accuracy +/- .0001", 3/4"Dia., 1/4-28 I.D.Thread	630-4050
36Pcs	9 Pieces: .101-.109" by .001", 15 Pieces: .050-.190" by .010", 9 Pieces: .200-1.000" by .100", 1 Piece: .0625", .125", 1.000", Accuracy +/- .0001", 3/4"Dia., M6 Thread	630-4051
36Pcs	9 Pieces: .101-.109" by .001", 15 Pieces: .050-.190" by .010", 9 Pieces: .200-1.000" by .100", 1 Piece: .0625", .125", 1.000", Accuracy +/- .00005", 3/4" Dia. ID 1/4"-28 thread	630-4055



Metric Gage Block Sets

Metric Gage Blocks meet GGG-G-15, DIN, & JIS Specifications are supplied as indicated in the table.



Piece/Set	Nominal Sizes (mm)	Steps(mm)	No. Of Blocks	Grade	Steel Order No.	Solid Carbide	Ceramic Order No.
122	1.0005	----	1	0	630-1220	125-1220	631-1220
	1.001-1.009	0.001	9	1	630-1221	125-1221	631-1221
	1.01-1.49, 0.5-1.5	0.01, 0.5	49, 3	2	630-1222	125-1222	631-1222
	1.6-1.9	0.1	4				
	2-25	0.5	47				
	30-100	10	8				
112	1.0005	----	1	0	630-1120	125-5120	631-1120
	1.001-1.009	0.001	9	1	630-1121	125-5121	631-1121
	1.01-1.49	0.01	49	2	630-1122	125-5122	631-1122
	0.5-24.5	0.5	49				
	25-100	25	4				
103	1.005	---	1	0	630-1030	125-5030	631-1030
	1.01-1.49	0.01	49	1	630-1031	125-5031	631-1031
	0.5-24.5	0.5	49	2	630-1032	125-5032	631-1032
	25-100	25	4				
88	1.0005	---	1	0	630-0880	125-4880	631-0880
	1.001-1.009	0.001	9	1	630-0881	125-4881	631-0881
	1.01-1.49	0.01	49	2	630-0882	125-4882	631-0882
	0.5-9.5	0.5	19				
	10-100	10	10				
87	1.001-1.009	0.001	9	0	630-0870	125-4870	631-0870
	1.01-1.49	0.01	49	1	630-0871	125-4871	631-0871
	0.5-9.5	0.5	19	2	630-0872	125-4872	631-0872
	10-100	10	10				
83	1.005	---	1	0	630-0830	125-4830	631-0830
	1.01-1.49	0.01	49	1	630-0831	125-4831	631-0831
	1.6-1.9	0.1	4	2	630-0832	125-4832	631-0832
	0.5-9.5	0.5	19				
	10-100	10	10				
76	1.005	---	1	0	630-0760	125-4760	631-0760
	1.01-1.49	0.01	49	1	630-0761	125-4761	631-0761
	0.5-9.5	0.1	19	2	630-0762	125-4762	631-0762
	10-50	10	5				
	75-100	25	2				
47	1.005	---	1	0	630-0474	125-4474	631-0470
	1.01-1.09	0.01	9	1	630-0475	125-4475	631-0471
	1.1-1.9	0.1	9	2	630-0476	125-4476	631-0472
	1-24	1	24				
	25-100	25	4				
47	1.005	---	1	0	630-0470	125-4470	631-0474
	1.01-1.20	0.01	20	1	630-0471	125-4471	631-0475
	1.3-1.9	0.1	7	2	630-0472	125-4472	631-0476
	1-9	1	9				
	10-100	10	10				
46	1.001-1.009	0.001	9	0	630-0460	125-4460	631-0460
	1.01-1.09	0.01	9	1	630-0461	125-4461	631-0461
	1.1-1.9	0.1	9	2	630-0462	125-4462	631-0462
	1-9	1	9				
	10-100	10	10				
38	1.005	---	1	0	630-0380	125-4380	631-0380
	1.01-1.09	0.01	9	1	630-0381	125-4381	631-0381
	1.1-1.9	0.1	9	2	630-0382	125-4382	631-0382
	1-9	1	9				
	10-100	10	10				
32	1.005	---	1	0	630-0320	125-4320	631-0320
	1.01-1.09	0.01	9	1	630-0321	125-4321	631-0321
	1.1-1.9	0.1	9	2	630-0322	125-4322	631-0322
	1-9	1	9				
	10-30	10	3				
18	0.991-0.999	0.001	9	0	630-0180		
	1.001-1.009	0.001	9	1	630-0181		
13				2	630-0182		
	2.5-12.9,	2.6	5	0	630-0130		631-0130
	15-22.8,	2.6	4	1	630-0131		631-0131
11	25.0-100.0	25	4				
	10, 20, 41.2, 51.2, 81.2, 101.2,	---	11	0	630-0110		
	121.5, 121.8, 125, 175, 250	2.6		1	630-0111		
10	2.5-12.9	2.6	5	0	630-0100		
	15-22.8	----	4	1	630-0101		631-0101
	25		1	2	630-0102		631-0102
9	1.001-1.009	0.001	9	0	630-0090		
				1	630-0091		
				2	630-0092		
8	10, 20, 41.2, 51.2, 81.2, 101.2,	---		0	630-0080		631-0080
	121.5, 121.8			1	630-0081		631-0081

Gage Block Accessories

Gage Block Accessory Sets



No of set	Specifications	Order No.
10Pcs/set	Clamps: 50,100&200mm; Radius Cylindrical Jaws: 2&5mm; Scriber; Center Point;Base Block	631-2910
15Pcs/set	Clamps: 50,100&200mm; Radius Cylindrical Jaws: 2,5&10mm; Beveled Ends jaws:100mm;Scriber; Center Point;Knife Edge Jaws	631-2915
17Pcs/set	Clamps: 50,100&200mm; Radius Cylindrical Jaws: 2,5&10mm; Beveled Ends jaws:100mm;Scriber; Center Point;Knife Edge Jaws;Base Block	631-2918

Gage Block Accessory Individual

Mounting surfaces of each accessories are lapped flat and parallel with gage blocks and base.

Base Blocks



Order No.631-2800

100mm Beveled Ends Jaw



Order No.631-2400

Clamps



Capacity	Order No.
50mm	631-2050
100mm	631-2100
200mm	631-2200
300mm	631-2230
400mm	631-2240
500mm	631-2250
600mm	631-2260

100mm Straight Edge



Order No.638-7110

Scriber Point



Order No.631-2500

Center Point



Order No.631-2600

Knife Edge Jaws



Order No.631-2700

Radius Cylindrical Jaws

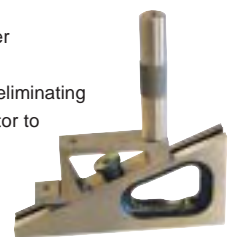
Radius	Order No.
2mm	631-2302
5mm	631-2305
10mm	631-2310



Planer & Shaper Gage

- Max. Range 1/4 - 6 - 1/4" with extension rod.
- Makes setting of planer and shaper tools easy.
- Set gage with micrometer, surface gage or caliper and bring cutting tool in contact with it.
- Gives the operator a reliable starting point, thus eliminating trial cuts. Also use in conjunction with dial indicator to level large plates for planing, etc.

Order No.600-0049



Pin Gage Handles

One set uses one handle, 8 handles cover all sizes

- 8 Size Collets are spring adjusting and self-centering design, which are used for whole range of sizes of pin gage sets.
- Handles & Collets are made from aluminum to protect pin gages.
- Color coded Handle for GO/NO GO checking.
- Power coated handle body.
- One handle with two free collets.



One handles cover sizes 1/32 thru 1/2"

- Handles all pin gages sizes from: 1/32 thru 1/2"
- Go and no go clearly marked
- Casting Aluminium



Order No. 616-8010

Specification	Order No.	Specification	Order No.
Handle for .011" to .060" M0 50pcs	616-8000	Handle for .626" to .750" M4 125pcs	616-8004
Handle for .061" to .250" M1 190pcs	616-8001	Handle for .751" to .832" M5 82pcs	616-8005
Handle for .251" to .500" M2 250pcs	616-8002	Handle for .833" to .916" M6 84pcs	616-8006
Handle for .501" to .625" M3 125pcs	616-8003	Handle for .917" to 1.000" M7 84pcs	616-8007

ANSI Standard Thread Plug & Ring Gages

- Used for gaging internal & external thread.



Plug Gages(Go & No Go with Handle), Ring Gages(Go & No Go)

Size	UNC UNF UNEF	Plug Gages		Adjustable Ring Gages		Solid Ring Gages	
		Class 2B Order No.	Class 3B Order No.	Class 2A Order No.	Class 3A Order No.	Class 2A Order No.	Class 3A Order No.
0-80	UNF	623-2001	623-3001	622-2001	622-3001	624-2001	624-3001
1-64	UNC	623-2002	623-3002	622-2002	622-3002	624-2002	624-3002
1-72	UNF	623-2003	623-3003	622-2003	622-3003	624-2003	624-3003
2-56	UNC	623-2004	623-3004	622-2004	622-3004	624-2004	624-3004
2-64	UNF	623-2005	623-3005	622-2005	622-3005	624-2005	624-3005
3-48	UNC	623-2006	623-3006	622-2006	622-3006	624-2006	624-3006
3-56	UNF	623-2007	623-3007	622-2007	622-3007	624-2007	624-3007
4-40	UNC	623-2008	623-3008	622-2008	622-3008	624-2008	624-3008
4-48	UNF	623-2009	623-3009	622-2009	622-3009	624-2009	624-3009
5-40	UNC	623-2010	623-3010	622-2010	622-3010	624-2010	624-3010
5-44	UNF	623-2011	623-3011	622-2011	622-3011	624-2011	624-3011
6-32	UNC	623-2012	623-3012	622-2012	622-3012	624-2012	624-3012
6-40	UNF	623-2013	623-3013	622-2013	622-3013	624-2013	624-3013
8-32	UNC	623-2014	623-3014	622-2014	622-3014	624-2014	624-3014
8-36	UNF	623-2015	623-3015	622-2015	622-3015	624-2015	624-3015
10-24	UNC	623-2016	623-3016	622-2016	622-3016	624-2016	624-3016
10-32	UNF	623-2017	623-3017	622-2017	622-3017	624-2017	624-3017
12-24	UNC	623-2018	623-3018	622-2018	622-3018	624-2018	624-3018
12-28	UNF	623-2019	623-3019	622-2019	622-3019	624-2019	624-3019
12-32	UNEF	623-2020	623-3020	622-2020	622-3020	624-2020	624-3020
1/4-20	UNC	623-2021	623-3021	622-2021	622-3021	624-2021	624-3021
1/4-28	UNF	623-2022	623-3022	622-2022	622-3022	624-2022	624-3022
1/4-32	UNEF	623-2023	623-3023	622-2023	622-3023	624-2023	624-3023
5/16-18	UNC	623-2024	623-3024	622-2024	622-3024	624-2024	624-3024
5/16-24	UNF	623-2025	623-3025	622-2025	622-3025	624-2025	624-3025
5/16-32	UNEF	623-2026	623-3026	622-2026	622-3026	624-2026	624-3026
3/8-16	UNC	623-2027	623-3027	622-2027	622-3027	624-2027	624-3027
3/8-24	UNF	623-2028	623-3028	622-2028	622-3028	624-2028	624-3028
3/8-32	UNEF	623-2029	623-3029	622-2029	622-3029	624-2029	624-3029
7/16-14	UNC	623-2030	623-3030	622-2030	622-3030	624-2030	624-3030
7/16-20	UNF	623-2031	623-3031	622-2031	622-3031	624-2031	624-3031
7/16-28	UNEF	623-2032	623-3032	622-2032	622-3032	624-2032	624-3032
1/2-13	UNC	623-2033	623-3033	622-2033	622-3033	624-2033	624-3033
1/2-20	UNF	623-2034	623-3034	622-2034	622-3034	624-2034	624-3034
1/2-28	UNEF	623-2035	623-3035	622-2035	622-3035	624-2035	624-3035
9/16-12	UNC	623-2036	623-3036	622-2036	622-3036	624-2036	624-3036
9/16-18	UNF	623-2037	623-3037	622-2037	622-3037	624-2037	624-3037
9/16-24	UNEF	623-2038	623-3038	622-2038	622-3038	624-2038	624-3038
5/8-11	UNC	623-2039	623-3039	622-2039	622-3039	624-2039	624-3039
5/8-18	UNF	623-2040	623-3040	622-2040	622-3040	624-2040	624-3040
5/8-24	UNEF	623-2041	623-3041	622-2041	622-3041	624-2041	624-3041
11/16-24	UNEF	623-2042	623-3042	622-2042	622-3042	624-2042	624-3042
3/4-10	UNC	623-2043	623-3043	622-2043	622-3043	624-2043	624-3043
3/4-16	UNF	623-2044	623-3044	622-2044	622-3044	624-2044	624-3044
3/4-20	UNEF	623-2045	623-3045	622-2045	622-3045	624-2045	624-3045
13/16-20	UNEF	623-2046	623-3046	622-2046	622-3046	624-2046	624-3046
7/8-9	UNC	623-2047	623-3047	622-2047	622-3047	624-2047	624-3047
7/8-14	UNF	623-2048	623-3048	622-2048	622-3048	624-2048	624-3048
7/8-20	UNEF	623-2049	623-3049	622-2049	622-3049	624-2049	624-3049
15/16-20	UNEF	623-2050	623-3050	622-2050	622-3050	624-2050	624-3050
1-8	UNC	623-2051	623-3051	622-2051	622-3051	624-2051	624-3051
1-12	UNF	623-2052	623-3052	622-2052	622-3052	624-2052	624-3052
1-14	UNF	623-2053	623-3053	622-2053	622-3053	624-2053	624-3053
1-20	UNEF	623-2054	623-3054	622-2054	622-3054	624-2054	624-3054
1-1/16-18	UNEF	623-2055	623-3055	622-2055	622-3055	624-2055	624-3055
1-1/8-7	UNC	623-2056	623-3056	622-2056	622-3056	624-2056	624-3056
1-1/8-12	UNF	623-2057	623-3057	622-2057	622-3057	624-2057	624-3057
1-1/8-18	UNEF	623-2058	623-3058	622-2058	622-3058	624-2058	624-3058
1-3/16-18	UNEF	623-2059	623-3059	622-2059	622-3059	624-2059	624-3059
1-1/4-7	UNC	623-2060	623-3060	622-2060	622-3060	624-2060	624-3060
1-1/4-12	UNF	623-2061	623-3061	622-2061	622-3061	624-2061	624-3061
1-1/4-18	UNEF	623-2062	623-3062	622-2062	622-3062	624-2062	624-3062
1-5/16-18	UNEF	623-2063	623-3063	622-2063	622-3063	624-2063	624-3063
1-3/8-6	UNC	623-2064	623-3064	622-2064	622-3064	624-2064	624-3064
1-3/8-12	UNF	623-2065	623-3065	622-2065	622-3065	624-2065	624-3065
1-3/8-18	UNEF	623-2066	623-3066	622-2066	622-3066	624-2066	624-3066
1-7/16-18	UNEF	623-2067	623-3067	622-2067	622-3067	624-2067	624-3067
1-1/2-6	UNC	623-2068	623-3068	622-2068	622-3068	624-2068	624-3068
1-1/2-12	UNF	623-2069	623-3069	622-2069	622-3069	624-2069	624-3069
1-1/2-18	UNEF	623-2070	623-3070	622-2070	622-3070	624-2070	624-3070

Metric ISO & Unified Thread Plug & Ring Gages

- Used for gaging internal & external thread.



Plug Gages 6H



Ring Gages 6G

Size (mm)	Plug Gages Go & No Go with Handle 6H Order No.	Solid Ring Gages Go & No Go 6G Order No.
M1.4X0.3	617-0001	618-1001
M1.6X0.35	617-0004	618-1004
M1.8X0.35	617-0008	618-1008
M2.0x.40	617-0011	618-1011
M2.0x.25	617-0012	618-1012
M2.2x.45	617-0021	618-1021
M2.2x.25	617-0022	618-1022
M2.5x.45	617-0031	618-1031
M2.5x.35	617-0032	618-1032
M3.0x.50	617-0041	618-1041
M3.0x.35	617-0042	618-1042
M3.5x.60	617-0051	618-1051
M3.5x.35	617-0052	618-1052
M4.0x.70	617-0061	618-1061
M4.0x.50	617-0062	618-1062
M4.5x.75	617-0063	618-1063
M5.0x.80	617-0071	618-1071
M5.0x.50	617-0072	618-1072
M6.0x1.00	617-0081	618-1081
M6.0x.75	617-0082	618-1082
M6.0x.50	617-0083	618-1083
M7.0x1.00	617-0084	618-1084
M8.0x1.25	617-0091	618-1091
M8.0x1.00	617-0092	618-1092
M8.0x.75	617-0093	618-1093
M8.0x.50	617-0094	618-1094
M10.0x1.50	617-0101	618-1101
M10.0x1.25	617-0102	618-1102
M10.0x1.00	617-0103	618-1103
M10.0x.75	617-0104	618-1104
M10.0x.50	617-0105	618-1105
M12.0x1.75	617-0111	618-1111
M12.0x1.50	617-0112	618-1112
M12.0x1.25	617-0113	618-1113
M12.0x1.00	617-0114	618-1114
M12.0x.75	617-0115	618-1115
M12.0x.50	617-0116	618-1116
M14.0x2.00	617-0121	618-1121
M14.0x1.50	617-0122	618-1122
M14.0x1.25	617-0123	618-1123
M14.0x1.00	617-0124	618-1124
M14.0x.75	617-0125	618-1125
M14.0x.50	617-0126	618-1126
M16.0x2.00	617-0131	618-1131
M16.0x1.50	617-0132	618-1132
M16.0x1.00	617-0133	618-1133
M16.0x.75	617-0134	618-1134
M16.0x.50	617-0135	618-1135
M18.0x2.50	617-0141	618-1141
M18.0x2.00	617-0142	618-1142

Size (mm)	Plug Gages Go & No Go with Handle 6H Order No.	Solid Ring Gages Go & No Go 6G Order No.
M18.0x1.50	617-0143	618-1143
M18.0x1.00	617-0144	618-1144
M18.0x.75	617-0145	618-1145
M18.0x.50	617-0146	618-1146
M20.0x2.50	617-0151	618-1151
M20.0x2.00	617-0152	618-1152
M20.0x1.50	617-0153	618-1153
M20.0x1.00	617-0154	618-1154
M20.0x.75	617-0155	618-1155
M20.0x.50	617-0156	618-1156
M22.0x2.50	617-0161	618-1161
M22.0x2.00	617-0162	618-1162
M22.0x1.50	617-0163	618-1163
M22.0x1.00	617-0164	618-1164
M22.0x.75	617-0165	618-1165
M22.0x.50	617-0166	618-1166
M24.0x3.00	617-0171	618-1171
M24.0x2.00	617-0172	618-1172
M24.0x1.50	617-0173	618-1173
M24.0x1.00	617-0174	618-1174
M24.0x.75	617-0175	618-1175
M24.0x.50	617-0176	618-1176
M27.0x3.00	617-0181	618-1181
M27.0x2.00	617-0182	618-1182
M27.0x1.50	617-0183	618-1183
M27.0x1.00	617-0184	618-1184
M27.0x.75	617-0185	618-1185
M27.0x.50	617-0186	618-1186
M30.0x3.50	617-0191	618-1191
M30.0x3.00	617-0192	618-1192
M30.0x2.00	617-0193	618-1193
M30.0x1.50	617-0194	618-1194
M30.0x1.00	617-0195	618-1195
M30.0x.75	617-0196	618-1196
M33.0x3.50	617-0201	618-1201
M33.0x3.00	617-0202	618-1202
M33.0x2.00	617-0203	618-1203
M33.0x1.50	617-0204	618-1204
M33.0x1.00	617-0205	618-1205
M33.0x.75	617-0206	618-1206
M36.0x4.00	617-0211	618-1211
M36.0x3.00	617-0212	618-1212
M36.0x2.00	617-0213	618-1213
M36.0x1.50	617-0214	618-1214
M36.0x1.00	617-0215	618-1215
M39.0x4.00	617-0221	618-1221
M39.0x3.00	617-0222	618-1222
M39.0x2.00	617-0223	618-1223
M39.0x1.50	617-0224	618-1224
M39.0x1.00	617-0225	618-1225

Precision Feeler Gages

- Used for fitting and setting narrow slots.
- lock nut securely holds one or more blades.
- Each blade clearly marked with thickness.



Inch Size

No. of Blades	Blade Thickness Included(inch)	Blade Length	Order No.
9	.002-.003-.004-.005-.006-.008-.010-.015-.020	3"	615-6203
9	.002-.003-.004-.006-.008-.012-.013-.020-.025	3"	615-6204
12	.008-.010-.012-.013-.014-.015-.016-.018-.019 .020-.025-.026	4"	615-6205
15	.002-.003-.004-.005-.006-.008-.011-.012-.013- .014-.016-.018-.020-.022-.025	3-1/2"	615-6206
8	.015-.018-.020-.025-.028-.030-.035-.040		615-6207
26	.0015-.002-.0025-.003-.004-.005-.006-.007-.008- .009-.010-.011-.012-.013-.014-.015-.016-.017- .018-.019-.020-.021-.022-.023-.024-.025	3-1/2"	615-6208

No. of Blades	Blade Thickness Included(inch)	Blade Length	Order No.
32	.0015-.002-.0025-.003-.004-.005-.006-.007-.008- .009-.010-.010-.011-.012-.013-.014-.015-.016- .017-.018-.019-.020-.021-.022-.023-.024-.025- .026-.028-.030-.032-.035	3-1/2"	615-6209
16	.010-.012-.013-.015-.016-.017-.018-.020-.022- .024-.025-.026-.028-.030-.032-.035	1-1/2"	615-6201

Metric Size

No. of Blades	Blade Thickness Included(mm)	Blades Length							
		75mm Order No.	100mm Order	150mm Order No.	200mm Order No.	300mm Order No.	500mm Order No.	800mm Order No.	1000mm Order No.
6	0.10-0.15-0.20-0.25-0.30-0.40	615-6006	No.						
9	0.04-0.05-0.06-0.07-0.08-0.10-0.15-0.20-0.30	615-6009							
11	0.03-0.04-0.05-0.06-0.07-0.10-0.15-0.25-0.30- 0.40-0.50		615-6401	615-6402	615-6403	615-6404			
12	0.05-0.06-0.07-0.08-0.09-0.10-0.15-0.20-0.25- 0.30-0.35-0.40		615-6411	615-6412	615-6413	615-6414			
13	0.02-0.02-0.03-0.03-0.04-0.04-0.05-0.05- 0.06-0.07-0.08-0.09-0.10		615-6421	615-6422	615-6423	615-6424			
13	0.05-0.10-0.15-0.20-0.25-0.30-0.40-0.50-0.60- 0.70-0.80-0.90-1.00		615-6431	615-6432	615-6433	615-6434	615-6513	615-6514	615-6515
14	1 0.05-0.06-0.07-0.08-0.09-0.10-0.15-0.20-0.25- 0.30-0.40-0.50-0.75-1.00		615-6441	615-6442	615-6443	615-6444			
14	0.05-0.06-0.07-0.08-0.09-0.10-0.15-0.20-0.25- 0.30-0.35-0.40-0.45-0.50		615-6451	615-6452	615-6453	615-6454			
17	0.02-0.03-0.04-0.05-0.06-0.07-0.08-0.09-0.10- 0.15-0.20-0.25-0.30-0.35-0.40-0.45-0.50		615-6461	615-6462	615-6463	615-6464			
17	0.02-0.03-0.04-0.05-0.06-0.07-0.08-0.09-0.10- 0.15-0.20-0.25-0.30-0.40-0.50-0.75-1.00		615-6471	615-6472	615-6473	615-6474			
20	0.05-0.10-0.15-0.20-0.25-0.30-0.35-0.40-0.45-0.50- -0.55-0.60-0.65-0.70-0.75-0.80-0.85-0.90-0.95-1.00		615-6481	615-6482	615-6483	615-6484	615-6516	615-6517	615-6518
21	0.02-0.02-0.03-0.03-0.04-0.04-0.05-0.05-0.06- 0.07-0.08-0.09-0.10-0.15-0.20-0.25-0.30-0.35- 0.40-0.45-0.50		615-6491	615-6492	615-6493	615-6494			

Taper Gages



Order No. 615-6257



Order No. 615-6256

Taper Gages

- Handy gage for measuring cylindrical bores, bearing work and for gaging slots.
- Made from polished stainless steel
- Clearly etched graduations for inch on one side and metric on other.

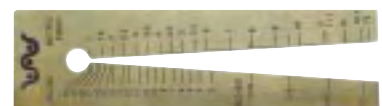
Inside Gage

Range:3-30mm(1/8" to 1-1/4")
Order No. 615-6253



Outside gage

Range:1-13mm(.035" to .5")
Order No. 615-6254



29° Acme Screw Thread Gage

- For grinding & setting tools when cutting Acme threads whose sides have an inclination of 14-1/2°.
- Angle & edges are precision ground.



Specifications	Material	Order No.
Threads: 1, 1-1/3, 1-1/2, 1-3/4,	Stainless Steel	615-6121
2, 2-1/2, 3, 4, 5, 6,	Carbon Steel	615-6123
7, 8, 9, 10		

30° Acme Screw Thread Gage

- For grinding & setting tools when cutting Acme threads whose sides have an inclination of 15°.
- Made from stainless steel with satin chrome finish
- Angle & edges are precision ground.



Specifications	Order No.
Threads: 2, 3, 4, 5, 6, 7, 8, 9, 10, 12	615-6125

Screw Cutting Gage

- Gages 47-1/2° British, 14-1/2° Acme, 55° Whitworth & BSF & 60° USA & Metric
- Made from stainless steel with satin chrome finish
- Deep etched graduations
- All gage surfaces are ground



Order No. 615-6124

Screw Thread Gages

- For grinding & setting tools when cutting Acme threads whose sides have inclination.
- Made from stainless steel with satin chrome finish
- Angle & edges are precision ground.



Order No. 615-6128



Order No. 615-6126



Order No. 615-6127

Specifications	Order No.
Threads: 2, 3, 4, 5, 6, 7, 8, 9, 10, 12; 2, 2.5, 3, 3.5, 4, 5, 6, 7, 8	615-6126
Angle: 55° & 60°	
Threads: 2, 3, 4, 5, 6, 7, 8, 9, 10, 12	615-6127
Angle: 40°, 45°, 50°, 55°, 60°, 65°, 70°, 75°, 80°	
Threads: 2, 2.5, 3, 3.5, 4, 4.5, 5, 6, 7, 8	615-6128
Angle: 45°, 53.8°, 55°, 60°, 70°, 55°, 60°	

Screw Pitch Gages

- For use when quick identification of screw pitchosis needed.
- Whitworth standard-55° Threads.



No. of Leaves	Description	Inch Range	Order No.
28	Whitworth 55°	4, 4-1/2, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 16, 18, 19, 20, 22, 24, 25, 26, 28, 30, 32, 36, 40, 48, 60, 62	615-6343

Angle Gages

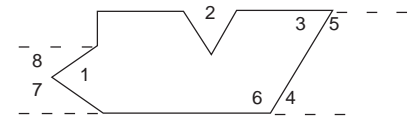
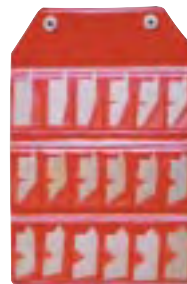


No. of Blades	Angle Range	Order No.
18	1°, 2°, 3°, 4°, 5°, 6°, 7°, 8°, 9°, 10°, 12°, 14°, 14-1/2°, 15°, 25°, 30°, 35°, 45°	615-9182
20	1°, 2°, 3°, 4°, 5°, 6°, 7°, 8°, 9°, 10°, 12°, 14°, 16°, 18°, 20°, 25°, 30°, 35°, 40°, 45°	615-9184

18 Pc. Angle Gage Set

Stainless Steel

- Manufactured from stainless steel, satin-finished.
- Inspecting angles on ground from tools and cutters.
- Eight gaging surfaces Per gage.
- Each gage checks primary, 1/2 primary and complimentary angle.



Angles 1, 2, 3 & 4.....Primary
Angles 5 & 6.....Complimentary
Angles 8 & 8.....1/2-Primary

Specifications	Order No.
18 Piece Angle Gage Set	615-9180

Primary Angle	1/2 Primary Angle	Comp. Angle	Primary Angle	1/2 Primary Angle	Comp. Angle
5°	2° 30"	175°	50°	25°	130°
10°	5°	170°	55°	27° 30"	125°
15°	7° 30"	165°	60°	30°	125°
20°	10°	160°	65°	32° 30"	115°
25°	12° 30"	155°	70°	35°	110°
30°	15°	150°	75°	37° 30"	105°
35°	17° 30"	145°	80°	40°	100°
40°	20°	140°	85°	42° 30"	95°
45°	22° 30"	135°	90°	45°	90°

Center Gages



Type	Order No.
Metric std. 60 $\frac{1}{16}$ "	615-6260
Whitworth std. 55 $\frac{1}{16}$ "	615-6255
U.S. std. 60 $\frac{1}{16}$ "	615-6300

Welding Gages



Order No. 615-6259

Drill Gages

- Made of heavy gage steel, machined and ground to chse tolerance.
- Hole size and decimal equivalents permanently etched.

Wire Gage Size

#1-#60 and #61-#80

For gaging of number size drills from 1 to 80 gage. Also has handy index for machine screw taps, with decimal equivalents. Size 6-3/8"x2-1/2"



#1-#60

Order No. 615-1060



#60-#80

Order No. 615-1020

Letter Size

For gaging letter size drills from A to Z, with decimal measurements for each drill. Size 6-3/8"x2-1/2"



Order No. 615-1026

Fractional Size

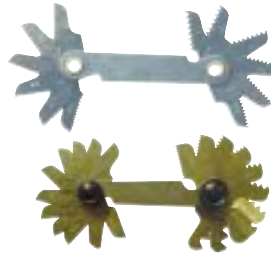
For gaging fractional size drills, 1/16" to 1/2" by 64ths, with decimal equivalents. Size 6-3/8"x2-1/2"



Order No. 615-1029

Screw Pitch Gages

- For use when quick identification of screw pitch is needed.
- American National-60° Threads
WHITworth standard-55° Threads.



Order No. 615-6340



Order No. 615-6348

No. of Blades	Range	Order No.
22	4-48TPI, Inch 55°	615-6322
10	13-40 TPI, Metric 60°	615-6323
30	4-42TPI, Inch 55°	615-6324
30	4-42TPI, Metric 60°	615-6342
51	4-84 TPI, Inch 60°	615-6351
30	6-60 TPI, Inch 60°	615-6334
52	4-62TPI, Inch 55° & .25-6mm, metric 60°	615-6348
16	29° Inch Acme Screw Pitch, 1, 1-1/3, 1-1/2, 1-3/4, 2, 2-1/2, 3, 3-1/2, 4, 5, 6, 7, 8, 9, 10, 12.	615-6326
14	0.35-3mm, 60°	615-6317
20	0.4-6mm, 60°	615-6318
16	0.25-2.5mm, 60°	615-6320
18	0.5-7.0mm, 60°	615-6330
28	0.25-2.5mm, 60°	615-6332
18	0.4-7.0mm, 60°	615-6321
24	0.25-6.0mm, 60°	615-6340
28	0.25-2.5mm, 60°	615-6339
30	0.25-3.0mm, 60°	615-6341
12	30° Metric Acme Screw Pitch, 2, 3, 4, 5, 6, 7, 8, 9, 10, 12, 16, 20	615-6327

Radius Gages

- Made of the finest quality steel.
- Satin chrome finish.
- Each gage is marked with size.



Order No. 615-6555



Order No. 615-6560

No. of Blades	Concave Blades	Convex Blades	Radius range	Order No.
30	15	15	1/32" - 1/4", step by 1/64"	615-6565
32	16	16	17/64" - 1/2", step by 1/32"	615-6570
32	16	16	17/32" - 1", step by 1/32"	615-6575
32	16	16	1.0-6.5mm, 1-3mm step by 0.25, 3.5-6.5mm step by 0.5	615-6550
32	16	16	7.5-15mm, step by 0.5mm	615-6555
30	16	16	15.5-25mm, 15.5-20mm step by 0.5, 21-25mm step by 1.0	615-6560

Radius Gages

- Made of the finest quality steel.
- Satin chrome finish.
- Each gage is marked with size.



No. of Blades	Convex Blades	Concave Blades	Radius range	Order No.
34	17	17	1-7mm, 1-3mm step by 0.25, 3.5-7mm step by 0.5	615-6530

T Screw Pitch gages



Inch

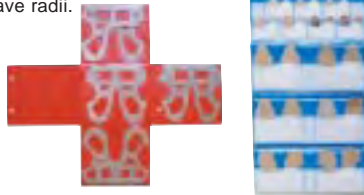
No. of Leaves	Specifications	Order No.
16	1, 1-1/3, 1-1/2, 1-3/4, 2, 2-1/2, 3, 3-1/2, 4, 5, 6, 7, 8,9,10,12", 30°	615-6151
11	2-1/2, 3, 3-1/2, 4, 5, 6, 7, 8, 9,10 , 12	615-6153
7	2, 2-1/2, 3, 3-1/2, 4, 4-1/2, 5	615-6155
7	6, 7, 8, 9, 10, 11, 12	615-6157

Metric

No. of Leaves	Specifications	Order No.
12	2, 3, 4, 5, 6, 7, 8, 9, 10, 12, 16, 20mm, 29°	615-6159

Radius Gage Sets

- Designed for checking radius, easier and faster, it can be used for inspection, layout, pattern making and all other machining job.
- Satin chrome finish and each gage is marked with its size.
- Each gage has five measuring surface for convex and concave radii.



Gages Per Set	Range	Holder	Order No.
8	9/32" to 1/2" by 32nds	Included	615-4008
8	9/16" to 1" by 16ths	Included	615-4108
8	1-1/16" to 1-1/2" by 16ths	Not Included	615-4208
8	9/16" to 1" by 16ths	Not Included	615-4308
10	0.550 to 1" by 0.05"	Not Included	615-4010
17	1/64" to 17/64" by 64ths	Included	615-4017
19	0.02" to 0.500"	Not Included	615-4019
19	0.020" to 0.500"	Included	615-4119
22	0.5-7mm by 0.5mm, 8-15mm by 1mm	Included	615-4022
25	1/64" to 17/64" by 64ths & 9/32 to 1/2 by 32ths	Included	615-4025
26	0.010" to 0.500"	Included	615-4126
26	0.5-13.0mm by 0.5mm	Included	615-4226

Wire Gage

- Made of hardened steel.
- Satin Chrome finish.
- Marks of gage size on front, decimal equivalents on back.

Order No.615-7100



Small Hole Gage Sets

- Available in half and full ball styles.
- Sets supplied in fitted case.
- Range is 1/8" thru 1/2".
- Heat treated and precision ground.
- Hole size is obtained by measuring over the contact points with a micrometer.
- Knurled knob at end of handle is used for size adjustment.



Specifications	Order No.
.125"-.500", half ball type	615-6250
.125"-.500", full ball type	615-6251

Thread Measuring Wire Sets

- 48 Pieces, 16 different sizes for all 60° threads
- Measures all threads from 3 to 48 threads per inch and all metric from 0.5mm to 6mm pitch.
- 3 wire method is the best method of measuring external threads.
- Wires are fitted in a plastic case stamped with sizes.
- Laminated chart compiled from the U.S. Standard.
- Gives proper sizes & measurement over wires.



No. of Wires	Specifications	Order No.
48	Threads from 3 to 48 threads per inch and metric from 0.5mm to 6mm pitch.	600-0500

Surface Roughness Gage

For checking , identifying and specifying the degree of roughness of machine parts

- 30 specimens: 7/8"L x 3/8W
- Set completed with marking in μ AA (Micro Inches Arithmetical Average) and metric in μ m RA (Micrometers).



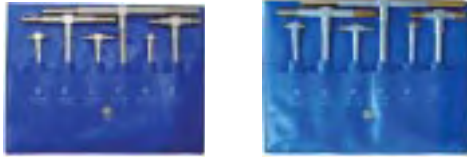
Order No.630-9900

The set includes 30 specimens of six machining methods:

Specifications	Measuring Range
3 Specimens:Flat Lapping	2, 4and 8 μ " A A
3 Specimens:Reaming	16, 32 and 63 μ " A A
6 Specimens:Grinding	2, 4, 8,16,32 and 63 μ " A A
6 Specimens:Horizontal Milling	16, 32, 63, 125, 250 and 500 μ " A A
6 Specimens:Vertical Milling	16, 32, 63, 125, 250 and 500 μ " A A
6 Specimens:Turning	16, 32, 63, 125, 250 and 500 μ " A A

Telescoping Gages

- Made of hardened tool steel.
- Satin chrome finish.
- Rigid handle with self-centering feature.



Inch Range	Handle Length	Metric Range	Handle Length	Order No.	Tin-Coated Order No.
5/16 - 1/2"	4"	8-12.7mm	102mm	615-6611	615-6621
1/2 - 3/4"	4"	12.7-19mm	102mm	615-6612	615-6622
3/4 - 1-1/4"	4"	19-32mm	102mm	615-6613	615-6623
1-1/4 - 2-1/8"	5"	32-54mm	127mm	615-6614	615-6624
2-1/8" - 3-1/2"	5"	54-90mm	127mm	615-6615	615-6625
3-1/2 - 6"	5"	90-150mm	127mm	615-6616	615-6626
6Pcs/set, 5/16"-6" or 8-150mm				615-6610	615-6620

B&S Style Telescoping Gages

- Made of hardened tool steel.
- Satin chrome finish.
- Rigid handle with self-centering feature.



Inch Range	Inch Length	Metric Range	Metric Length	Order No.	Tin-Coated Order No.
5/16 - 1/2"	4"	8-12.7mm	102mm	615-6631	615-6622
1/2 - 3/4"	4"	12.7-19mm	102mm	615-6632	615-6623
3/4 - 1-1/4"	4"	19-32mm	102mm	615-6633	615-6624
1-1/4 - 2-1/8"	5"	32-54mm	127mm	615-6634	615-6625
2-1/8" - 3-1/2"	5"	54-90mm	127mm	615-6635	615-6626
3-1/2 - 6"	5"	90-150mm	127mm	615-6636	615-6627
6Pcs/set, 5/16"-6" or 8-150mm				615-6630	615-6621

Large Measuring Size Type



Inch Range	Handle Length	Metric Range	Handle Length	Order No.	Tin-Coated Order No.
4-3/4-8"	5"	120-200mm	127mm	615-6617	615-6627

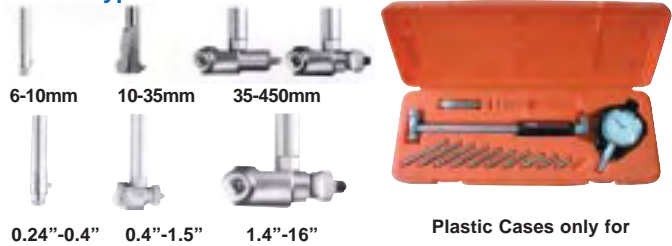
Long Handle Type



Inch Range	Metric Range	8" Handle Order No.	12" Handle Order No.
5/16 - 1/2"	8-12.7mm	615-6651	615-6681
1/2 - 3/4"	12.7-19mm	615-6652	615-6682
3/4 - 1-1/4"	19-32mm	615-6653	615-6683
1-1/4 - 2-1/8"	32-54mm	615-6654	615-6684
2-1/8" - 3-1/2"	54-90mm	615-6655	615-6685
3-1/2 - 6"	90-150mm	615-6656	615-6686

Dial Bore Gage Sets

Probe Type



6-10mm 10-35mm 35-450mm
0.24"-0.4" 0.4"-1.5" 1.4"-16"

Plastic Cases only for Sizes lower than 6"

Inch Size

Range	Depth	Package	.001" Order No.	.0005" Order No.	.0001" Order No.
0.24-0.4"	1.57"	Plastic Case	612-5906	612-5900	612-5902
0.4-0.7"	4"	Plastic Case	612-5907	612-5905	612-5904
0.7-1.5"	5"	Plastic Case	612-5908	612-5910	612-5909
1.4-2.4"	6"	Plastic Case	612-5912	612-5915	612-5914
2-4"	6"	Plastic Case	612-5918	612-5916	612-5917
2-6"	6"	Plastic Case	612-5919	612-5920	612-5921
6-10"	16"	Wooden Case	612-5930	612-5925	612-5927
10-16"	16"	Wooden Case	612-5940	612-5935	612-5937
1.4-2.4"	19.7"	Wooden Case	612-6906	612-6900	612-6903
1.4-2.4"	39.4"	Wooden Case	612-6915	612-6910	612-6917
1.4-2.4"	59.1"	Wooden Case	612-6925	612-6920	612-6923
2-4 (6)	19.7"	Wooden Case	612-6935	612-6930	612-6933
2-4 (6)	39.4"	Wooden Case	612-6945	612-6940	612-6943
2-4 (6)	59.1"	Wooden Case	612-6955	612-6950	612-6953
6-10"	19.7"	Wooden Case	612-6965	612-6960	612-6963
6-10"	39.4"	Wooden Case	612-6975	612-6970	612-6973
6-10"	59.1"	Wooden Case	612-6985	612-6980	612-6983
10-16"	19.7"	Wooden Case	612-6995	612-6990	612-6991
10-16"	59.1"	Wooden Case	612-6999	612-6998	612-6993

Metric Size, Grad. 0.01mm

Range	Depth	Order No.	Range	Depth	Order No.
6-10mm	40mm	612-7900	35-50mm	1500mm	612-7950
10-18mm	100mm	612-7905	50-100mm(160)	500mm	612-7955
18-35mm	125mm	612-7910	50-100mm(160)	1000mm	612-7960
35-50mm	150mm	612-7915	50-100mm(160)	1500mm	612-7965
50-100mm	150mm	612-7920	160-250mm	500mm	612-7970
50-160mm	150mm	612-7925	160-250mm	1000mm	612-7975
160-250mm	400mm	612-7930	160-250mm	1500mm	612-7980
250-450mm	400mm	612-7935	250-450mm	500mm	612-7985
35-50mm	500mm	612-7940	250-450mm	1000mm	612-7990
35-50mm	1000mm	612-7945	250-450mm	1500mm	612-7995

Digital Bore Gages

- Extra large LCD, 360 degree rotation
- Double display: digital and electronic scale
- Inch/Metric conversion
- Easily calibrated by one button
- Directly measure the actual value of workpiece
- Easily realize the blind measuring by freezing minimum value
- Relative measurement/Absolute measurement
- Data output RS 232
- Various measuring head for different size of bore measuring
- Power: 3V CR2032 Lithium battery
- Work temperature: +5°C+4°C, Storage temperature: -10°C+60°C



Range	Graduation	Accuracy	Order No.
.24 to .4"/6-10mm	.00005"/.002mm	.012mm	612-5700
.40 to .7"/10-18mm	.00005"/.002mm	.012mm	612-5702
.70 to 1.5"/18-35mm	.00005"/.002mm	.015mm	612-5704
1.4 to 2.4"/35-50mm	.00005"/.002mm	.015mm	612-5706
2 to 4"/50-100mm	.00005"/.002mm	.018mm	612-5708
2 to 6"/50-160mm	.00005"/.002mm	.018mm	612-5710
6 to 10"/160-250mm	.00005"/.002mm	.018mm	612-5712
10 to 16"/250-450mm	.00005"/.002mm	.018mm	612-5714

1-2-3,2-3-4 or 2-4-6 Blocks

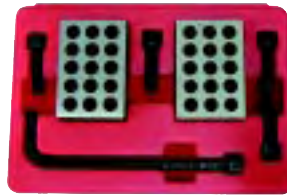
- Precision ground and hardened on all sides.
- Ideal for mounting work for precision grinding and lay out.
- Feature 23 holes:5 are tapped 3/8-16,the other 18 are untapped.
- Dimension accuracy: 0.0001"-0.0007"
- Hardness HRC 56-60.
- Supplied in matched pair.



Specification	Parallelism	Desc.	Order No.
1-2-3"	±.0001"	1 hole	630-4005
1-2-3"	±.0001"	23 holes	630-4006
1-2-3"	±.0001"	No hole	630-4007
1-2-3"	±.0002"	No hole	630-4008
1-2-3"	±.0002"	1 hole	630-4009
1-2-3"	±.0002"	23 holes	630-4010
1-2-3"	±.0001"	11 holes	630-4011
25-50-75mm	±.0050mm	23 holes	630-4012
25-50-100mm	±.0050mm	23 holes	630-4013
50-100-150mm	±.010mm		630-4014
2-3-4"	±.0002"	23 holes	630-4016
2-4-6"	±.0005"	23 holes	630-4020

1-2-3 Block Set

- Squareness: 0.0001"
- Parallelism: 0.0001"
- Height accuracy in Pair:±/0.0001".
- Hardness HRC 56-60.
- 5 piece 3/8"-16 socket head cap screws.
- 1 piece hex key.
- Supplied in plastic case.



Order No. 630-4000

Economy Sine Bars

- Hardened and ground.
- Center to center distance between center of rolls within .0003".
- Top parallel to bottom of rolls within .0002".
- Supplied with back plate.



Distance between Center of Rolls	Width	Order No.
2-1/2"	1"	647-9510
5"	1"	647-9512

3 Piece Inspection Sets

1-2-3 Blocks

- Five 3/8-16 Tapped holes are provided for clamping operations.
- Squareness of all side is within .0001".
- Parallel accuracy .0003".



2-1/2" or 5" Precision Sine Bar

- Accurate to .004" on parallelism.
- Hardened and ground.
- Wide: 1"



Specification	No. of piece	Individual Order No.	Set Order No.
2-1/2" Sine bar	3Pcs/set	647-9510	630-4060
1-2-3 Blocks		630-4006	
5" Sine bar	3Pcs/set	647-9512	630-4062
1-2-3 Blocks		630-4006	

17 Pc. Angle Block Set

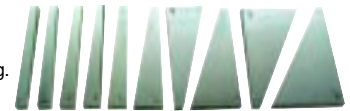
- Provides quick set-up for angles from 1/4° to 45°.
- Eliminates time dressing angles.
- Made from hardened steel.
- Supplied in a fitted wood case.
- Accuracy:0.0003"



Piece	Specification	Order No.
17Pcs/set	Set Includes: 1/4°, 1/2°, 1°, 2°, 3°, 4°, 5°, 10°, 15°, 20°, 25°, 30°, 35°, 40°, 45° & 2 riser blocks.	630-4275

Precision Angle Blocks & Sets

- Accuracy 0.0001" per inch.
- Furnished in 1° increments to 5° and 5° increments to 30°.
- Hardened and precision ground.
- Light magnetized for better holding.
- Size 3" long x 1/4" thick.



Size	Order No.	Size	Order No.	Size	Order No.
1/4°	630-0025	4°	630-4304	25°	630-4325
1/2°	630-0050	5°	630-4305	30°	630-4330
1°	630-4301	10°	630-4310	35°	630-4335
2°	630-4302	15°	630-4315	40°	630-4340
3°	630-4303	20°	630-4320	45°	630-4345
10Pcs/set, from 1° to 30°				630-4260	
12Pcs/set, from 1/4°,1/2°,1° to 30°				630-4261	

8 Pc. Universal Angle Block Sets

- An accurate and direct method for angle set up in production and inspections.
 - Tolerance ±10 Sec. hardness HRC 45 to 50 HRC
- Set includes:**
3Pc. V-blocks: 10°, 15°, 30°.
5Pc. Angle blocks: 1°, 2°, 3°,4°,5°.



Piece	Specification	Order No.
8 Pcs/set	V- blocks : 4"L x 1-1/2" W x 1-1/2"H Angle blocks : 4"L x 1-1/2" W x 3/16"H	630-4270
8 Pcs/set	V-blocks: 3" L x 1-3/16" W x 1-3/16" H Angle blocks: 2-3/4" L x 1-3/16" W x 5/64" H	630-4265

V-Sine Bar with Clamp

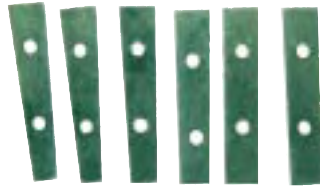
- 5" Sine Bar
- Accurate to .0003"
- 1-1/4" wide
- Hardened and ground
- Include clamp
- 1" round capacity
- Parallelism.0004"



Order No. 647-9612

Thin Angle Block Sets

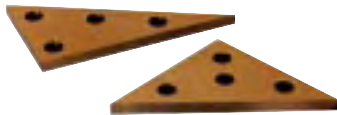
A economical and direct method for angle set-ups. Hardened and precision ground on working surfaces. Two 1/4 holes for mounting. 3-1/2" long, 5/32" thick.



Piece	Specification	Order No.
6Pcs/set	1/2", 1- 5° by 1°	630-4258
5Pcs/set	6 -10° by 1°	630-4259
11Pcs/set	1/2 -10° by 1°	630-4251

Solid Angle Plates

- Hardened Steel
- Precision Ground Angles
- Each Block is 1/4" Thick



Specification	Angle	Order No.
3 x 3x 5/16"	45°/45°/90°	418-4800
2 x 3-3/8 x 5/16"	30°v/60°/90°	418-4810
2Pcs/set,each one of above size		418-4820

Precision 0-60° Angle Blocks

- 0-60° adjustable angle by locking the hex screw on the bottom.
- Squareness: 0.0004"/0.01mm.
- Angle of Vee 90°.



Dimension	Order No.
1-3/16 x 1-7/8 x 4"(30 x 48 x 102mm)	418-4940
1-13/16 x 1-7/8 x 4"(46 x 48 x 102mm)	418-4950
7/8 x 1-1/4 x 3"(25 x 32 x 75mm)	418-4960

Precision Sine Angle Blocks

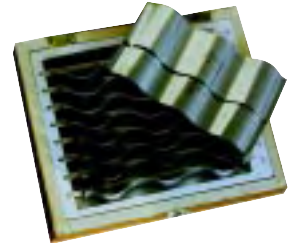
- 0-60° adjustable.
- 90°V Angle.
- Block Size: 4"x1-3/16"Wx2-1/4"H.
- Diameter of Roll: 5/8"
- Total Height of block (including rolls): 2-1/4"



Order No. 418-4941

9 Pair Wavy Parallel Sets

- Economical, simple and easy to use in precision clamping of parts in drilling, boring, milling, grinding, assembly work, etc.
- Ideal for clamping a group of flat work pieces.
- Guaranteed to size in height and parallelism ± 0.0002 in.
- Made of high-quality spring steel, hardened, stress-relieved and precision-ground.
- Thin and fragile work pieces can be secured without damage .



Individual Pairs

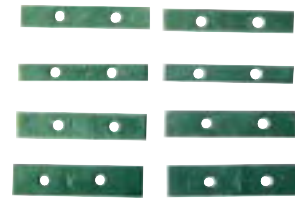
Size	Order No.	Size	Order No.
1/2"	637-7401	1-1/8"	637-7406
5/8"	637-7402	1-1/4"	637-7407
3/4"	637-7403	1-3/8"	637-7408
7/8"	637-7404	1-1/2"	637-7409
1"	637-7405		

Sets

Range	Description	Wooden Case Order No.
1/2"-1-1/2"	Set of 9 Pairs	637-7400
9-23mm	Set of 8 by 2mm	637-7451
25-39mm	Set of 8 by 2mm	637-7461

Economy Thin Parallel Sets

Useful for fast setting of work pieces to needed height in vise jaws. Made of hardened and precision ground steel.



Pairs	Specification	Length	Hole	Order No.
4Pairs/set	1/2", 5/8", 3/4", 7/8"	3-1/2"	1/4"	630-4257
5Pairs/set	1/2", 5/8", 3/4", 7/8", 1"	3-1/2"	1/4"	630-4255

6 Pc. Adjustable Parallel Sets

- Length range: 3/8" to 2-1/4" closed. Quickly adjustable, and locked with set screws for micrometer measurement.
- For layout inspection, stop work, set-up etc.

Individuals

Size	Order No.
3/8" to 1/2"	637-7561
1/2" to 11/16"	637-7562
11/16" to 15/16"	637-7563
15/16" to 1-5/16"	637-7564
1-5/16" to 1-3/4"	637-7565
1-3/4" to 2-1/4"	637-7566



Set

Order No. 637-7508

Metric Precision Parallel Sets

7 Pair/ Set

- Parallel: $\pm 0.005\text{mm}$
 - Hardened and ground HRC 40-45
 - Set includes one each of (Thickness x Height):
8.5 x (10,15,20, 24, 30)mm
12.6 x (38, 44)mm
- Length: 150mm, **Order No. 637-7777**

8 Pair/ Sets

- Parallel: $\pm 0.005\text{mm}$.
 - Hardened and ground HRC 60-61
 - Set includes one each of (Thickness x Height):
8x(12, 17, 22, 25, 28, 32, 36, 38)mm
- Length: 120mm, **Order No. 637-7972**
Length: 160mm, **Order No. 637-7974**

8 Pair/ Set

- Parallel: $\pm 0.005\text{mm}$.
 - Hardened and ground HRC 60-61
 - Set includes one each of (Thickness x Height):
8x(17, 22, 25, 28, 32, 36, 38, 43mm)
- Length: 200mm, **Order No. 637-7976**

9 Pair/ Sets

- Parallel: $\pm 0.005\text{mm}$.
 - Hardened and ground HRC 60-61
 - Set includes one each of (Thickness x Height):
4x(10, 14, 18, 22, 26, 30, 34, 38, 42)mm
- Length: 100mm, **Order No. 637-7968**
Length: 160mm, **Order No. 637-7970**

10 Pair/ Set

- Parallel: $\pm 0.005\text{mm}$.
 - Hardened and ground HRC 60-61
 - Set includes one each of (Thickness x Height):
10x(14, 16, 18, 20, 22, 24, 26, 28, 30, 32)mm
- Length: 150mm, **Order No. 637-7959**

12 Pair/ Set

- Parallel: $\pm 0.005\text{mm}$.
 - Hardened and ground HRC 60-61
 - Set includes one each of (Thickness x Height):
10x(14, 16, 18, 20, 22, 24, 26, 28, 30, 32, 35, 40)mm
- Length: 120mm, **Order No. 637-7962**

14 Pair/ Set

- Parallel: $\pm 0.005\text{mm}$.
 - Hardened and ground HRC 60-61
 - Set includes one each of (Thickness x Height):
10x(14, 16, 18, 20, 22, 24, 26, 28, 30, 32)mm
10x(35, 40, 45, 50)mm
- Length: 150mm, **Order No. 637-7960**

20 Pair/ Set

- Accuracy: $\pm 0.01\text{mm}$.
 - Hardened and ground HRC 60-61
 - Set includes one each of (Thickness x Height):
2x(5, 15, 20)mm
3x(6,11, 16, 21)mm
4x(7, 12, 17, 22)mm
5x(8, 13, 18, 23)mm
6x(9, 14, 19, 14)mm
- Length: 100mm, **Order No. 637-7964**

24 Pair/ Set

- Accuracy: $\pm 0.01\text{mm}$.
 - Hardened and ground HRC 60-61
 - Set includes one each of (Thickness x Height):
8x(11,16,21,26,31,36)mm step by 5mm
10x(13, 18, 23, 28, 33, 38)mm step by 5mm
12x(15, 20, 25, 30, 35, 40)mm step by 5mm
14x(17, 22, 27, 32, 37, 42)mm step by 5mm
- Length: 150mm, **Order No. 637-7966**



Inspection Parallels

- Made of high grade tool steel, stabilized and thoroughly hardened to HRC 58.
- Surface finish to 16 microinches.
- Parallels finished and sold in pairs.



Dimensions	Order No.	Dimensions	Order No.	Dimensions	Order No.
1/4 x 1/2 x 6"	637-7590	3/4 x 1-1/2 x 9"	637-7624	5/8 x 7/8 x 6"	637-7612
1/4 x 5/8 x 6"	637-7595	3/4 x 1 x 12"	637-7625	1/2 x 3/4 x 9"	637-7615
1/4 x 3/4 x 6"	637-7600	3/4 x 1-1/4 x 12"	637-7630	1/2 x 1 x 9"	637-7620
3/8 x 1/2 x 6"	637-7602	1 x 1-1/4 x 12"	637-7631	1 x 2 x 12"	637-7633
3/8 x 3/4 x 6"	637-7605	1 x 1-1/2 x 12"	637-7632	1-1/4 x 1-1/2 x 12"	637-7634
1/2 x 5/8 x 6"	637-7607	1/2 x 3/4 x 6"	637-7609	1-1/4 x 2 x 12"	637-7635
3/4 x 1 x 9"	637-7622	1/2 x 1 x 6"	637-7610	1-1/2 x 2 x 12"	637-7636

1/32" Ultra Thin Parallel Sets

- Hardened to HRC50.
- Parallelism: $\pm 0.0001"$.
- Pair Height accuracy: $\pm 0.0001"$.



10 Pairs, 1/2" through 1-5/8" by 8ths

Description	Wooden case	Plastic case
	Order No.	Order No.
Blue Finished	637-9036	637-9038
Black Finished	637-9037	637-9039

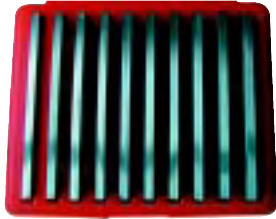
20 Pairs, 1/2" through 1-11/16" by 16ths

Description	Wooden case	Plastic case
	Order No.	Order No.
Blue Finished	637-9032	637-9034
Black Finished	637-9033	637-9035

Precision Thin Parallels & Sets

- Thin style, .125 Thick, Matched pairs, Made of high grade alloy steel, hardened and ground.
- 2 hole in each parallel.
- Parallelism: +/-0.0002", +/-0.001" to size in height.

1/8" 10 Pairs Sets



Plastic case	637-7030
Wooden case	637-7530

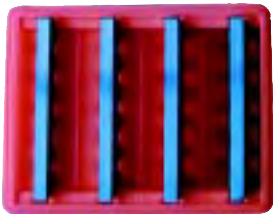
1/8" Individual Pairs

Dimensions	Hole Size	Order No.
1/8 x 1/2 x 6"	13/64"	637-7510
1/8 x 5/8 x 6"	1/4"	637-7511
1/8 x 3/4 x 6"	5/16"	637-7512
1/8 x 7/8 x 6"	5/16"	637-7513
1/8 x 1 x 6"	5/16"	637-7514
1/8 x 1-1/8 x 6"	3/8"	637-7515
1/8 x 1-1/4 x 6"	3/8"	637-7516
1/8 x 1-3/8 x 6"	7/16"	637-7517
1/8 x 1-1/2 x 6"	1/2"	637-7518
1/8 x 1-5/8 x 6"	1/2"	637-7519

Precision Parallel Sets

- Tolerance: Parallel +/-0.0003" on 2 sides, top and bottom.
- Dimensions: Within +/-0.001" allowance.
- Hardness: Hardened to HRC 55 TO 62 on 2 sides top and bottom only
- The holes are designed for easier handling and set-ups.
- Made from fine quality tool steel stress relieved against distortion, precision, ground and hardened. These precision parallels are recommended for layout work, standards and set-ups.

3/16" 4 Pairs Sets



Descriptions	Order No.
Wooden case	637-7532
Plastic case	637-7032

3/16" & 1/2" 4 Pairs Sets

Descriptions	Order No.
Wooden case	637-7538
Plastic case	637-7038

1/2" 4 Pairs Sets

Descriptions	Order No.
Wooden case	637-7536
Plastic case	637-7036

3/16" Individual Pairs

Dimension	Order No.
3/16 x 1 x 6"	637-7504
3/16 x 1-1/4 x 6"	637-7505
3/16 x 1-1/2 x 6"	637-7506
3/16 x 1-3/4 x 6"	637-7507

3/16" & 1/2" Individual Pairs

Dimension	Order No.
1/2 x 1-1/2 x 6"	637-7502
1/2 x 1-3/4 x 6"	637-7503
3/16 x 1 x 6"	637-7504
3/16 x 1-1/4 x 6"	637-7505

1/2" Individual Pairs

Dimension	Order No.
1/2 x 1 x 6"	637-7500
1/2 x 1-1/4 x 6"	637-7501
1/2 x 1-1/2 x 6"	637-7502
1/2 x 1-3/4 x 6"	637-7503

6" 4 Pairs Sets



Dimension	Order No.
1/2"x3/8"	637-7000
3/4"x1/4"	
7/8"x3/16"	
1x1/8"	

1/2" 8 Pairs Sets

Description	Order No.
Plastic Case	637-7034
Wooden Case	637-7534

1/4" 9 Pairs Sets

Descriptions	Order No.
Plastic Case	637-7035
Wooden Case	637-7535

6" 4 Pairs Sets

Dimension	Order No.
3/4"x3/8"	637-7001
1"x1/4"	
1-1/8"x3/16"	
1-3/16"x1/8"	

1/2" Individual Pairs

Dimensions	Hole Size	Order No.
1/2 x 7/8 x 6"	5/16"	637-7800
1/2 x 1 x 6"	5/16"	637-7801
1/2 x 1-1/8 x 6"	3/8"	637-7802
1/2 x 1-1/4 x 6"	3/8"	637-7803
1/2 x 1-3/8 x 6"	7/16"	637-7804
1/2 x 1-1/2 x 6"	7/16"	637-7805
1/2 x 1-5/8 x 6"	1/2"	637-7806
1/2 x 1-3/4 x 6"	1/2"	637-7807

1/4" Individual Pairs

Dimensions	Hole Size	Order No.
1/4 x 3/4 x 6"	5/16"	637-7900
1/4 x 7/8 x 6"	5/16"	637-7901
1/4 x 1 x 6"	5/16"	637-7902
1/4 x 1-1/8 x 6"	3/8"	637-7903
1/4 x 1-1/4 x 6"	3/8"	637-7904
1/4 x 1-3/8 x 6"	7/16"	637-7905
1/4 x 1-1/2 x 6"	7/16"	637-7906
1/4 x 1-5/8 x 6"	1/2"	637-7907
1/4 x 1-3/4 x 6"	1/2"	637-7908

Super Duty Vee Blocks and Clamps

All V-Blocks are parallel, square and centered within 0.0002. Completely hardened and ground tool steel, Wooden case.



60° V-Block

Size LxWxH	Vee Capacity	Individuals Order No.	Pair Order No.
2-1/2x2-1/2x2"	1-3/8"	420-5415	420-5414
4x3x3"	2-1/2"	420-5417	420-5416

90° V-Block

Size LxWxH	Vee Capacity	Individuals Order No.	Pair Order No.
1-3/8 x 1-3/8 x 1-3/16"	1-9/32"	420-5421	420-5420
2-3/8 x 2-3/8 x 2"	1-3/16"	420-5431	420-5430
4-1/8 x 4-1/8 x 3-1/16"	2-9/16"	420-5441	420-5440
2-1/2 x 2-1/2 x 2"	1-3/8"	420-5411	420-5410
4x3x3"	2-1/2"	420-5412	420-5450
4x6x6"	4-3/8"	420-5413	420-5460

Toolmakers' V-Block and Clamp

- All surfaces parallel and square are within .0002".
- Top 90° V-Groove central, parallel and square with all surface within .0003".
- Side 90° V-Groove on Base central, parallel and square with all surfaces within .00015".
- Harden steel ground.



Size(LxWxH)	Capacity	Order No.
3-1/2x1-7/8x1-7/8"	1-5/16"	420-5481

Multi-Use V-Blocks & Clamps

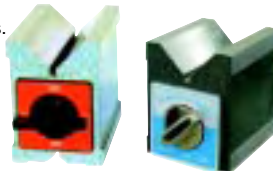
- Stepped groove construction.
- 90° V groove are central, parallel and square with all surface within .0003".
- Harden steel ground.
- Two clamps only order No.: 420-5491.
- Sold in pair



Size(LxWxH)	Capacity	Order No.
2-3/4x2-3/8x2"	2"	420-5490

Magnetic V-Blocks

- Ideal for holding round and irregular shapes.
- Fine precision ground finish.
- Holds up to .750" on small vee.
- Holds up to 2.500" on large vee.



Standard Centered 90° V

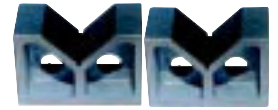
SizeLxWxH	Capacity	Magnetic Power	Order No.
2-3/4x2-3/8x2-7/8"	1-3/4"	150lbs	285-2405
4x2-5/8x3-11/16"	2"	260lbs	285-2410
2-3/4x2-1/8x2-7/8"	1-1/2"	150lbs	285-2415
5x2-3/8x2-3/8"	1-1/2"	150lbs	285-2416
4x3x3-1/16"	2"	150lbs	285-2417
4-7/8x2-3/8x2-7/8"	1-3/4"	150lbs	285-2406

Double Side Centered 90° V

Size LxWxH	Capacity	Order No.
4x2-3/4x3-3/4"	2"	285-2412
6x3x3-3/4"	2-1/4"	285-2414

Steel V-Blocks

- Supplied in matched and numbered pairs.
- Vee blocks are manufactured from high quality castings. Properly seasoned against distortion.
- Blocks are accurately ma-chined square and parallel.

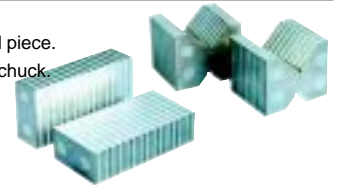


Dimensions

OAL	V Width	C-Height	Thickness	Weight	Order No.
3"	1-3/4"	2-3/8"	1-5/16"	2-1/2 lbs	420-5700
4"	2-1/4"	2-5/8"	1-5/8"	5 lbs	420-5702
5"	2-1/2"	3-1/8"	2"	8 lbs	420-5704
6"	3-1/8"	3-1/2"	2-1/2"	13 lbs	420-5706
7"	3-1/2"	4-1/2"	3"	27 lbs	420-5708
8"	4"	5-1/2"	4"	44 lbs	420-5710
10"	5"	6-5/8"	5"	73 lbs	420-5712
12"	6"	8"	7"	135 lbs	420-5714

Magnetic V-Blocks & Parallels

- Precision ground on all surfaces.
- Integrally aluminum cast into one solid piece.
- Hold in any direction on the magnetic chuck.



Combination Sets

Specifications	Order No.
One Pair of Parallels 4x2x1"	285-2100
One Pair of V Blocks 2x2-3/8x1-7/8"	
One Pair of Parallels 4x2x1"	285-2110
One Pair of V Blocks 4-3/8x2-3/8x1-7/8"	

V-Blocks & Parallels

Type	Size LxWxH	Individual Order No.	Pair Order No.
V-Blocks	2x2-3/8x1-7/8"	285-2065	285-2060
V-Blocks	4-3/8x2-3/8x1-7/8"	285-2075	285-2070
Parallels	4x 2 x1"	285-2055	285-2050

V-Blocks & Clamps

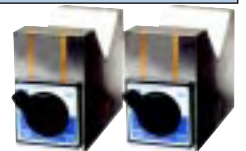
- Designed for layout work or firmly holding circular workpiece during drilling, milling, and grinding.
- Made of hardened tool steel machined and ground to close tolerance.
- Sold in pair which includes 2 V-Blocks and 2 clamps.



Capacity	Dimensions	Sets Order No.	Clamps Only Order No.
1"	1-1/4"Hx1-1/4"Wx1-5/8"L	420-3010	420-3011
1	1-3/8"Hx1-5/8"Wx1-3/4"L	420-3019	420-3018
1-1/2	1-5/8"Hx1-3/4"Wx2-3/4"L	420-3027	420-3026
1-1/2	1-3/4"Hx2-1/2"Wx2-3/4"L	420-3035	420-3034
2-1/8	2-3/4"Hx3-1/2"Wx4-7/8"L	420-3043	420-3042

Magnetic V-Blocks

- Holds cylindrical workpieces for grinding.
- Precision ground flat, square and parallel to 0.001"/0.02mm.
- Sold in pairs.

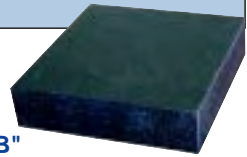


Size HxWxL	Capacity	Magnetic Power	Order No.
50x40x70mm	2"/50mm	15kg/33lbs	625-2515
80x50x100mm	3-1/16"/80mm	20kg/44lbs	625-2520
100x50x150mm	3-31/32"/125mm	23kg/50lbs	625-2523

Granite Surface Plates

Hardest uniformity of all granite surface plate

- Lowest temperature coefficient, least responsive to temperature changes.
- Moisture and corrosion free, no rusting, no oiling, will not stain or discolor.
- Practically maintenance free, fast easy to clean.
- SmoothBall-Bearing" surface.
- Resists dust and abrasives, Non-magnetic.



GGG-P-463C-73 Tool Room Grade "B"

Size	Thickness	Overall Accuracy	0-Ledge Order No.	2-Ledge Order No.
5x6"	2"	.0001"	640-0070	640-0177
6x8"	2"	.0001"	640-0080	640-0188
8x12"	2"	.0001"	640-0090	640-0199
9x12"	2"	.0001"	640-0101	640-0103
9x12"	3"	.0001"	640-0100	640-0102
12x12"	3"	.0001"	640-0110	640-0112
12x18"	3"	.0001"	640-0120	640-0122
12x18"	4"	.0001"	640-0125	640-0126
18x18"	2"	.0001"	640-0127	640-0128
18x18"	3"	.0001"	640-0130	640-0132
18x24"	3"	.0001"	640-0140	640-0142
18x24"	4"	.00015"	640-0145	640-0146
18x36"	4"	.0002"	640-0147	640-0148
24x24"	3"	.00015"	640-0150	640-0152
24x36"	4"	.0002"	640-0160	640-0162
24x48"	4"	.0003"	640-0170	640-0172
36x48"	4"	.0004"	640-0180	640-0182
36x48"	6"	.0004"	640-0184	640-0186
36x60"	6"	.0005"	640-0190	640-0192
36x72"	6"	.0006"	640-0200	640-0202
48x60"	6"	.0005"	640-0210	640-0212
48x72"	6"	.0007"	640-0220	640-0222
48x84"	8"	.0007"	640-0230	640-0233
48x96"	12"	0.0008"	640-0240	640-0241

GGG-P-463C-73 Inspection Grade "A"

Size	Thickness	Overall Accuracy	0-Ledge Order No.	2-Ledge Order No.
9x12"	3"	.000050"	640-0400	640-0402
12x12"	3"	.000050"	640-0410	640-0412
12x18"	3"	.000050"	640-0420	640-0422
18x18"	3"	.000050"	640-0430	640-0432
18x24"	3"	.000075"	640-0440	640-0442
18x24"	4"	.000075"	640-0445	640-0446
24x24"	3"	.000075"	640-0450	640-0452
24x24"	4"	.000075"	640-0460	640-0462
24x36"	4"	.0001"	640-0470	640-0472
24x36"	5"	.0001"	640-0474	640-0476
36x48"	4"	.0002"	640-0473	640-0482
36x48"	6"	.0002"	640-0480	640-0483
36x60"	6"	.00025"	640-0490	640-0492

GGG-P-463C-73 Laboratory Grade "AA"

Size	Thickness	Overall Accuracy	0-Ledge Order No.	2-Ledge Order No.
9x12"	3"	.000025"	640-0600	640-0602
12x18"	3"	.000025"	640-0620	640-0622
18x24"	4"	.000037"	640-0640	640-0642
24x36"	6"	.000050"	640-0660	640-0662
36x48"	6"	.0001"	640-0680	640-0682

DIN876-83

Size	Grade 0 Order No.	Grade 00 Order No.
300x200x50mm	641-0001	641-0070
300x300x70mm	641-0005	641-0075
400x250x70mm	641-0010	641-0080
400x400x100mm	641-0015	641-0085
630x400x100mm	641-0020	641-0090
630x630x130mm	641-0025	641-0095
800x500x130mm	641-0030	641-0100
1000x630x150mm	641-0035	641-0105
1000x750x150mm	641-0040	641-0110
1000x1000x150mm	641-0045	641-0115
1200x800x150mm	641-0047	641-0117
1600x1000x200mm	641-0050	641-0120
2000x1000x250mm	641-0055	641-0125
2000x1600x300mm	641-0060	641-0130
2500x1600x300mm	641-0065	641-0135

JISB7510-78

Size	Grade1 Order No.	Grade 0 Order No.
300x200x50mm	642-0001	642-0070
300x300x70mm	642-0005	642-0075
400x250x70mm	642-0010	642-0080
400x400x100mm	642-0015	642-0085
630x400x100mm	642-0020	642-0090
630x630x130mm	642-0025	642-0095
800x500x130mm	642-0030	642-0100
1000x630x150mm	642-0035	642-0105
1000x750x150mm	642-0040	642-0110
1000x1000x150mm	642-0045	642-0115
1200x800x150mm	642-0047	642-0117
1600x1000x200mm	642-0050	642-0120
2000x1000x250mm	642-0055	642-0125
2000x1600x300mm	642-0060	642-0130
2500x1600x300mm	642-0065	642-0135

Granite Surface Plate Stands

- Overall working height 36".
- 4 leveling screws at the bottom of stands, 5 small jacks on the top of stands to adjust level for metric size.
- Support all grade surface plates.

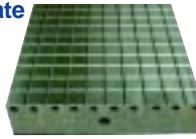


Inch Size	0-ledge Order No.	2-ledge Order No.
18x24"	64S-1010	64S-1012
24x36"	64S-1020	64S-1022
36x48"	64S-1030	64S-1032
36x60"	64S-1040	64S-1042
48x60"	64S-1050	64S-1052
48x72"	64S-1060	64S-1062
60x72"	64S-1063	64S-1064
48x96"	64S-1070	64S-1072

Metric Size	Order No.	Metric Size	Order No.
400x250mm	641-3005	800x800mm	641-3050
400x400mm	641-3010	1000x630mm	641-3055
500x400mm	641-3015	1000x750mm	641-3060
500x500mm	641-3020	1000x800mm	641-3065
600x500mm	641-3025	1000x1000mm	641-3070
600x600mm	641-3030	1200x800mm	641-3075
630x400mm	641-3035	1500x1000mm	641-3080
630x600mm	641-3036	1600x1000mm	641-3085
630x630mm	641-3040	2000x1600mm	641-3090
800x500mm	641-3045	2500x1600mm	641-3095

Steel Surface Plates

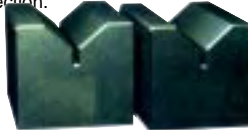
Serrated to accommodate easy move on plate



Size	Order No.
8x8x2"	641-1201
12x12x2"	641-1202

Granite V-Blocks

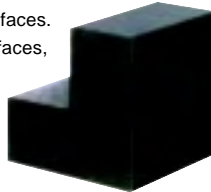
- Support or hold cylindrical pieces during inspection.
- 90° V centered and parallel to the bottom, two sides and square to the ends.
- Furnished in matched pairs.



Size	Accuracy	Order No.	Size	Grade0 Order No.	Grade 00 Order No.
3x3x3"	0.001/6"	640-0001	63x63x63mm	641-6101	641-6001
4x4x4"	0.001/6"	640-0002	100x100x100mm	641-6103	641-6003
6x6x6"	0.001/6"	640-0003	160x160x100mm	641-6105	641-6005
			250x250x160mm	641-6107	641-6007

Granite Angle Plates

- Furnished with two finished faces or four finished faces.
- When four faces are finished, they are the 2 "L" faces, back and bottom of the angle plate. Two faces models have only back and bottom finished.



Size	Accuracy	2Faces Order No.	4Faces Order No.
4x4x4"	0.005/6"	640-0004	640-0044
6x6x6"	0.005/6"	640-0006	640-0066
6x9x12"	0.005/6"	640-0009	640-0069

Size	2 Faces		4Faces	
	grade 0 Order No.	grade 00 Order No.	grade 0 Order No.	grade 00 Order No.
160x25x16mm	641-7211	641-7201	641-7411	641-7401
250x40x25mm	641-7213	641-7203	641-7413	641-7403
400x63x40mm	641-7215	641-7205	641-7415	641-7405
830x100x63mm	641-7217	641-7207	641-7417	641-7407

Granite Straight Rules

- For inspecting the straightness and flatness



Size	Grade 0 Order No.	Grade 00 Order No.
400x60x25mm	641-1001	641-1101
630x100x35mm	641-1002	641-1102
1000x160x50mm	641-1003	641-1103
1600x250x80mm	641-1004	641-1104
2000x300x100mm	641-1005	641-1105

Granite Parallels

- Used to elevate parts above the surface plate, so that parts with steps and shoulders can be inspected quickly and easily. Each one only has two face finished.
- Supplied in pairs.



Size	Accuracy	Order No.
3/4x1x6"	.000060"	640-0011
1x2x12"	.000100"	640-0022
1-1/2x3x18"	.000300"	640-0033
2x4x24"	.000500"	640-0040
2x4x30"	.000500"	640-0050

Size	Grade 0 Order No.	Grade 00 Order No.
20x25x150mm	641-4020	641-5020
25x50x300mm	641-4025	641-5025
40x75x450mm	641-4040	641-5040
50x100x600mm	641-4050	641-5050
50x100x750mm	641-4055	641-5055

Granite Squares

- For inspecting squareness of machine spindle and other work pieces.
- Round hole size 160,250mm.



Size	Grade 0 Order No.	Grade 00 Order No.
100x63x16mm	641-2011	641-2001
160x100x20mm	641-2012	641-2002
250x160x25mm	641-2013	641-2003
400x250x40mm	641-2014	641-2004
630x400x80mm	641-2015	641-2005
1000x630x80mm	641-2016	641-2006

Granite Square Rulers

On inspection of verticality and parallelism as well as absolute 90° measuring base.



Size	Grade 0 Order No.	Grade 00 Order No.
100x100x20mm		
160x160x25mm	641-2111	641-2101
200x200x25mm	641-2112	641-2102
250x250x30mm	641-2113	641-2103
300x300x30mm	641-2114	641-2104
400x400x40mm	641-2115	641-2105
500x500x50mm	641-2116	641-2106
	641-2117	641-2107

CNC Coordinate Measuring Machines

NC Series CMM

Structure Features:

The NC series is a high-class 3D CNC Coordinate Measuring Machine of highest performance granite, the 3 axis have same characteristic in temperature and rigidity.

Advanced synchronous belt drive system with non-slip and high stiffness, ensures high stability, no noise.

Transmission system uses high-power DC servomotor and new double level tape reducer to ensure rapid and accurate axes movement.

Granite worktable with integral dovetail guide in Y axis, eliminate the pitch and yaw, also provides superior motion stability.

High precise, high rigidity air bearing on all axes, can assure the guidance never be damped.

Good anti-aging out shape ability to assure the stability of accuracy.

Roomy worktable, convenient to fix and measuring parts.

Pneumatic system, Driver system, Control system are all world famous brand products.

Performance Features:

NC series CMM is newly designed in 21 Century which adopts all advantages of the CMM all over the world., it has best cost performance, satisfy inspecting of middle or small parts. It has advantage of simple, rapid, efficiency and powerful function.

NC series CMM can be equipped with contact and non-contact probe system of RENISHAW company, also can be equipped with LS series high accuracy laser scanning probe, LV series high accuracy CCD video probe to realize rapid scanning of complicated parts (doing Reverse Engineering) and non-contact measuring of small size parts.



Power Voltage: 220V

Air Pressure: 0.4-0.5Mpa

Filter Accuracy: 0.3μm

Air Supply: 0.12m³/min

Temperature Range: 18-22°C

Hour Temperature Cycle: 1°C/h

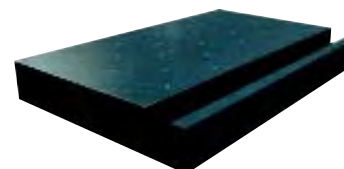
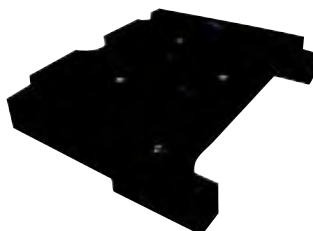
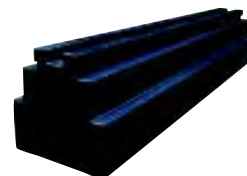
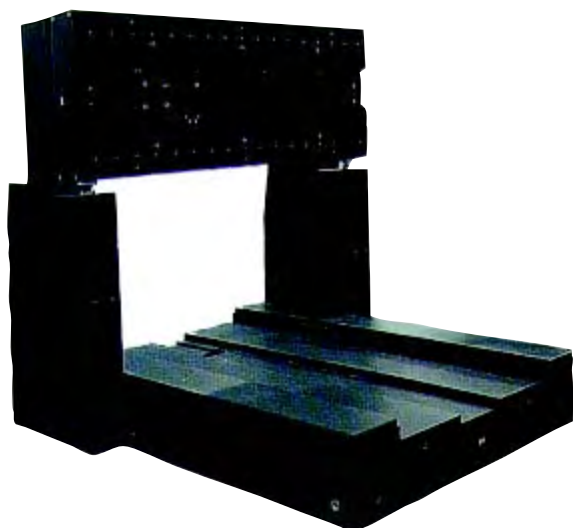
Thermal Gradient: 1°C/m

Relative Humidity: 55%-65%

Measuring Range(mm)			Accuracy(μm)	Overall Sizes			Part Sizes			Part Weight	Order No.
X	Y	Z	ISO 10360-2:2001	Lx	Ly	Lz	Wx	Wy	Wz	(Kg)	
500	600	400	2.5+3.5L/1000	1350	1550	2350	700	800	500	500	642-1001
600	800	500	2.7+3.5L/1000	1450	1800	2550	800	1000	600	700	642-1002
800	1000	700	2.9+4.0L/1000	1700	2150	3000	1000	1200	800	1000	642-1003
1000	1200	800	3.5+4.0L/1000	1850	2400	3200	1200	1400	900	1000	642-1004

CNC Granite Components

We can supply different CNC granite components according to customer special requirement such as bases, column, beam, railway.



Self Leveling Laser Level

Features

- With adjustable screws on the base.
- with tuning function for more accurate measurement.
- Power off will lock the core automatically.
- Accuracy $\pm 0.5\text{mm/m}$
- Laser power: $< 1\text{mw}$
- Wavelength: 635nm
- The width of the laser line at the position of 5m : 3mm



Order No.831-0001

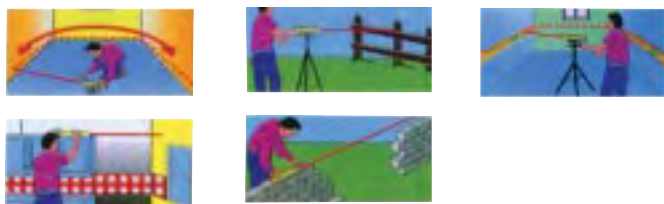
Laser Level Kit

Features:

- For both vertical and horizontal measurements.
- With adjustable base, which can be rotated at 360°
- Widely used in architecture, decoration, etc.

Technical Data:

- Accuracy: $\pm 1\text{mm}$ per meter
- Wave length: 650nm
- Power supply: $2 \times 1.5\text{V}$
- Vial Accuracy: $0.057^\circ = 1\text{mm}$ per meter.



Order No. 831-0540

Angle Spirit Level

- With round angle gage
- Powder coat finish
- With 2 vials
- Length 47cm



Order No.831-8118

Ultrasonic Measuring Laser Level

Laser Level Function

- Laser: Class 2 (EN 60825-1)
- Output Power: $\leq 1\text{mW}$
- Wave Length: $630-680\text{nm}$
- Accuracy: $\pm 3\text{cm}$
- Complete with blow mould case.

Ultrasonic Distance Measurement

- Distance Range: $0.5-12\text{m}$
- Graduation: 1cm
- Accuracy: $\pm 3\text{cm}$
- Battery: $9\text{V } 6\text{F}22$
- Inch/mm conversion



Order No.831-0002

Notice:

Laser point shows where you aiming, while the ultrasonic beam takes an instant, accurate measurement and display the result on the LTD.

In order to get accuracy result, large, flat hard surface target is a must.

Working under normal temperature from $10-30^\circ\text{C}$.

Digital Level

The digital level that combined with laser technology is the most advanced and easy use instrument today. It can display both degree and slope. The digital level can measure all angles in either a 360° range or 90° degree quadrants. The digital level also includes a backlight so the unit can be used day or night. Not only can this instrument measure with a surface at level or at right angles, it can measure the angles of all slopes rise and fall.

- Range: $4 \times 90^\circ (0-360^\circ)$
- Resolution: 0.1°
- Accuracy $\leq 0.1^\circ$, other angle $\leq 0.2^\circ$
- Working temperature: $+5^\circ\text{C} \sim +40^\circ\text{C}$
- Working temperature: $\leq 85\% \text{RH}$
- Power: AAA3V (1.5v x2)



Ruler Length	Order No.
600mm	831-0060
800mm	831-0080
1000mm	831-0100
1200mm	831-0120

Spirit Levels

Type 99C



Spec	Qty/Pack	Gw/Nw	Packing Size	Order No.
16"/40cm	30pc	14/12kg	43x31x19cm	831-1240
20"/50cm	30pc	15.5/13.5kg	53x31x19cm	831-1250
24"/60cm	30pc	18/16kg	63x31x19cm	831-1260
32"/80cm	30pc	24.5/22.5kg	83x31x19cm	831-1280

Type 95B



Spec	Qty/Pack	Gw/Nw	Packing Size	Order No.
12"/30cm	60pc	16/14.5kg	31x27x36cm	831-1730
16"/40cm	60pc	19/17.5kg	41x27x36cm	831-1740
20"/50cm	60pc	21/19kg	51x27x36cm	831-1750
24"/60cm	60pc	26.5/24.5kg	61x27x36cm	831-1760

Type 94B



Spec	Qty/Pack	Gw/Nw	Packing Size	Order No.
16"/40cm	60pc	13.5/12kg	42x28x28cm	831-2440
20"/50cm	60pc	14.5/13kg	52x28x28cm	831-2450
24"/60cm	60pc	17.5/16kg	62x28x28cm	831-2460
32"/80cm	60pc	23.5/21.5kg	82x28x28cm	831-2480
40"/100cm	30pc	15.5/13.5kg	102x25x18cm	831-2500

Type 89



Spec	Qty/Pack	Gw/Nw	Packing Size	Order No.
16"/40cm	60pc	19/17kg	42x28x28cm	831-2640
20"/50cm	60pc	22/20kg	52x28x28cm	831-2650
24"/60cm	60pc	26.5/24.5kg	62x28x28cm	831-2660

Magnetic Spirit Levels

Type 98SB



Spec	Qty/Pack	Gw/Nw	Packing Size	Order No.
16"/40cm	60pc	15/13kg	41x25x26cm	831-3040
20"/50cm	60pc	17/15kg	51x25x26cm	831-3050
24"/60cm	60pc	19/17kg	61x25x26cm	831-3060
32"/80cm	30pc	15/13kg	81x20x16.5cm	831-3080
40"/100cm	30pc	17/15kg	101x20x16.5cm	831-3100

Telescoping Spirit Levels



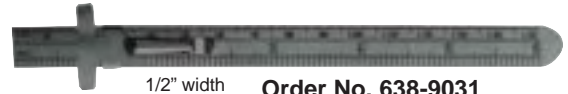
Spec	Qty/Pack	Gw/Nw	Packing Size	Order No.
56-80cm	60pc	22/20kg	58x26x27cm	831-4080
60-80cm	60pc	23/21kg	62x26x27cm	831-4180
60-90cm	60pc	24/22kg	62x26x27cm	831-4090
70-100cm	60pc	26/24kg	72x26x27cm	831-4100
76-120cm	60pc	28/26kg	78x26x27cm	831-4120
80-120cm	30pc	16/14kg	82x23x16.5cm	831-4220
96-120cm	30pc	17/15kg	98x23x16.5cm	831-4320

Torpedo Levels



Spec	Qty/Pack	Gw/Nw	Packing Size	Order No.
9"	100pc	14/12kg	46x25x22.5cm(Case)	831-6029
9"	100pc		42x32x30cm(Skin Card)	831-6039

6" Pocket Size Rules



1/2" width Order No. 638-9031



1/4" width Order No. 638-9032

Stainless Steel Rulers



Thickness			Thickness		
Range	x Width	Order No.	Range	x Width	Order No.
100mm/4"	0.5x13mm	638-9041	500mm/20"	0.5x13mm	638-9203
150mm/6"	0.75x19mm	638-9061	600mm/24"	0.75x30mm	638-9241
150mm/6"	1.0x19mm	638-9062	600mm/24"	1.0x30mm	638-9242
150mm/6"	0.5x13mm	638-9063	600mm/24"	0.5x13mm	638-9243
200mm/8"	0.75x19mm	638-9081	1000mm/40"	1.0x30mm	638-9401
200mm/8"	1.0x19mm	638-9082	1000mm/40"	2.0x30mm	638-9402
200mm/8"	0.5x13mm	638-9083	1000mm/40"	2.0x40mm	638-9403
250mm/10"	0.75x19mm	638-9101	1000mm/20"	0.5x24mm	638-9404
250mm/10"	1.0x19mm	638-9102	1200mm/48"	1.0x30mm	638-9481
250mm/10"	0.5x13mm	638-9103	1200mm/48"	2.0x30mm	638-9482
300mm/12"	0.75x30mm	638-9121	1200mm/48"	2.0x40mm	638-9483
300mm/12"	1.0x30mm	638-9122	1200mm/48"	0.5x24mm	638-9484
300mm/12"	0.5x13mm	638-9123	1500mm/60"	1.0x30mm	638-9601
400mm/16"	0.75x30mm	638-9161	1500mm/60"	2.0x30mm	638-9602
400mm/16"	1.0x30mm	638-9162	1500mm/60"	2.0x40mm	638-9603
400mm/16"	0.5x13mm	638-9163	2000mm/80"	1.0x30mm	638-9801
500mm/20"	0.75x30mm	638-9201	2000mm/80"	2.0x30mm	638-9802
500mm/20"	1.0x30mm	638-9202	2000mm/80"	2.0x40mm	638-9803

Locking Steel Tapes



Range	Tape Width	Series 58	Series 56	Series 78	Series 53
		Order No.	Order No.	Order No.	Order No.
2m/6Feet	12.5mm	810-0006	810-0101	810-0121	810-0141
3m/10Feet	12.5mm	810-0010	810-0102	810-0122	810-0142
3m/10Feet	16mm	810-0011			
3m/10Feet	19mm	810-0012	810-0103	810-0123	810-0143
3.5m/12Feet	12.5mm	810-0013	810-0104	810-0124	810-0144
3.5m/12Feet	16mm	810-0014			
3.5m/12Feet	19mm	810-0015	810-0105	810-0125	810-0145
5m/16Feet	16mm	810-0016	810-0106		810-0146
5m/16Feet	19mm	810-0017	810-0107	810-0126	810-0147
5m/16Feet	25mm	810-0018	810-0109	810-0127	810-0148
5.5m/18Feet	19mm	810-0019		810-0128	
5.5m/18Feet	25mm	810-0020	810-0110	810-0129	810-0149
7.5m/25Feet	19mm	810-0021	810-0111		810-0150
7.5m/25Feet	25mm	810-0022	810-0112	810-0130	810-0151

Long Steel Tapes



Range	Tape Width	Series G01 Order No.	Series G08 Order No.	Series G09 Order No.	Series G11 Order No.
10m/33Feet	12.5mm	810-1011	810-1021	810-1031	810-1041
20m/66Feet	12.5mm	810-1012	810-1022	810-1032	810-1042
30m/100Feet	12.5mm	810-1013	810-1023	810-1033	810-1043
50m/165Feet	12.5mm	810-1015	810-1025	810-1035	810-1045



Range	Tape Width	Series GJ1 Order No.	Series GJ2 Order No.	Series GJ6 Order No.	Series GJ7 Order No.
30m/100Feet	12.5mm	810-1051	810-1053	810-1055	810-1057
50m/165Feet	12.5mm	810-1052	810-1054	810-1056	810-1058

Long Fiberglass Tapes

- 1/2" Blade reads in inch and metric.
- ABS case with folding winding lever.
- Blade reads both sides.
- Blade made of fiberglass and vinyl coated.



Range	Tape Width	Series 01 Order No.	Series 05 Order No.	Series 09 Order No.	Series 12 Order No.
10m	12.5mm	810-1061	810-1071	810-1081	810-1091
15m	12.5mm	810-1062	810-1072	810-1082	810-1092
20m	12.5mm	810-1063	810-1073	810-1083	810-1093
30m	12.5mm	810-1064	810-1074	810-1084	810-1094
50m	12.5mm	810-1065	810-1075	810-1085	810-1095

Long Fiberglass Tapes



Range	Tape Width	Series P08 Order No.	Series J2 Order No.	Series J6 Order No.	Series J7 Order No.
20	12.5mm	810-1102	810-1112	810-1122	810-1132
30	12.5mm	810-1103	810-1113	810-1123	810-1133
50	12.5mm	810-1105	810-1115	810-1125	810-1135

Digital Display Measuring Tape

Features:

- Double injection case with attractive appearance and comfortable touch.
- Digital display, memory and backlight
- With inch and metric dual conversion system.
- Reference side switch function.
- Resolution: 0.1 cm.
- Power supply: 3V button battery.



Range	Tape Width	Order No.
5m/16Feet	12.5mm	810-1041

Ultrasonic Distance Measurer

Features:

- Double injection case with attractive appearance.
- Range: 5m



Order No. 810-1044

Laser Line Generator(Mouse Shaped)

Features:

- Small and attractive appearance.
- With two Vials for both vertical and horizontal measurements.

Technical Data:

- Accuracy: +/-2mm per meter
- Laser Power: <5mw,
- Wave length: 650nm, 635nm
- Power supply: 2xLR3 batteries



Order No. 831-0135

Digital Measuring Wheel/ Mini wheel type 1

- Measuring up to 99,999.9 meters/feet/yards.
- Bright orange "safety" color.
- 99.9% measuring accuracy.
- Large LCD display for easy reading.
- Handy start/stop mode (prevents accidental measurements).
- "Smart wheel"(automatically includes wheel radius for accurate wall to wall measurements).
- Units conversion: meters/feet/yards.
- Auto power on/off after 3 minutes.

Specifications:

- Wheel size: 0.314meter(12-23/64") circumference; 0.1meter(3-15/16") diameter.
- Measure range: 99,999.9meters/feet/yards.
- Wheel accuracy: 99.9%
- Wheel composition: High-impact plastic; TPE rubber tire
- Maximum speed: 13km/h
- Product weight: 0.5kgs
- Length(Extended): 1100mm
- Length(contractd): 520mm
- Power: Four AAA duracell batteries
- Auto shut off: 3 min.
- Keypad: 5keys
- Operation temp: -10-60 Deg.C.
- Display type: LCD segment; 6 digits
- Accuracy: 99.9% measuring accuracy



Order No.810-1001

Digital Measuring Wheel

Features:

- Handy structure, stretchable handle, easy to carry
- With digital display and memory
- With metric and inch dual system
- With stand
- Double injection wheel, even suitable for slippery ground

Specifications:

- Measuring Range: 0-10000m
- Display resolution: 0.1m
- Tolerance: <0.5%
- Power supply: 2xLR3 Batteries



Order No.810-1002

Digital Measuring Wheel/ Mini wheel type 2

- Measuring up to 99,999.9 meters/feet/yards.
- Bright orange "safety" color.
- 99.9% measuring accuracy.
- Large LCD display for easy reading.
- Handy start/stop mode (prevents accidental measurements).
- "Smart wheel"(automatically includes wheel radius for accurate wall to wall measurements).
- Units conversion: meters/feet/yards, m2, ft2, yd2, acre, m3, ft3, yd3.
- Auto power on/off after 3 minutes.

Specifications:

- Wheel size: 0.314meter(12-23/64") circumference; 0.1meter(3-15/16") diameter.
- Measure range: 99,999.9meters/feet/yards.
- Wheel accuracy: 99.9%
- Wheel composition: High-impact plastic; TPE rubber tire
- Maximum speed: 13km/h
- Product weight: 1.2kgs
- Length(Extended): 1009mm
- Length(contractd): 620mm
- Power: Four AAA duracell batteries
- Auto shut off: 3 min.
- Keypad: 5keys
- Operation temp: -10-60 Deg.C.
- Display type: LCD segment; 7 digits
- Accuracy: 99.9% measuring accuracy



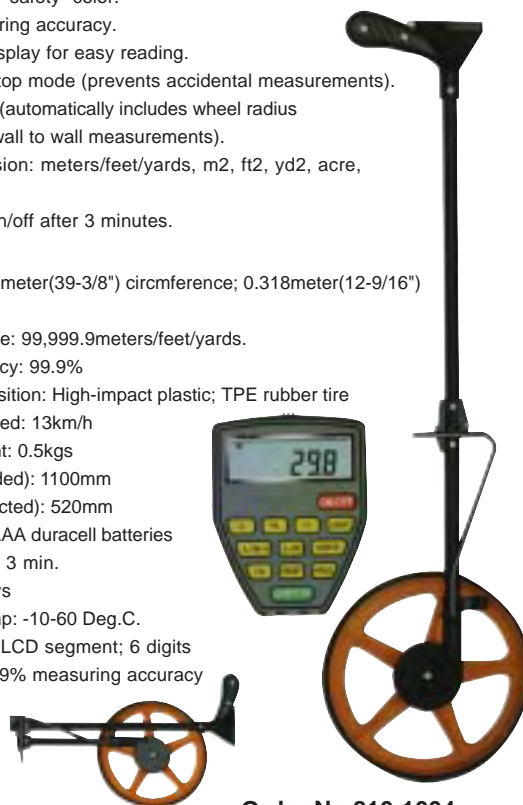
Order No.810-1003

Digital Measuring Wheel/Big Wheel

- Measuring up to 99,999.9 meters/feet/yards.
- Bright orange "safety" color.
- 99.9% measuring accuracy.
- Large LCD display for easy reading.
- Handy start/stop mode (prevents accidental measurements).
- "Smart wheel"(automatically includes wheel radius for accurate wall to wall measurements).
- Units conversion: meters/feet/yards, m2, ft2, yd2, acre, m3, ft3, yd3.
- Auto power on/off after 3 minutes.

Specifications:

- Wheel size: 1 meter(39-3/8") circumference; 0.318meter(12-9/16") diameter.
- Measure range: 99,999.9meters/feet/yards.
- Wheel accuracy: 99.9%
- Wheel composition: High-impact plastic; TPE rubber tire
- Maximum speed: 13km/h
- Product weight: 0.5kgs
- Length(Extended): 1100mm
- Length(contractd): 520mm
- Power: Four AAA duracell batteries
- Auto shut off: 3 min.
- Keypad: 5keys
- Operation temp: -10-60 Deg.C.
- Display type: LCD segment; 6 digits
- Accuracy: 99.9% measuring accuracy



Order No.810-1004

Bio-Microscopes

XSP-121B

- 45mm DIN Achromatic Objective: 4X, 10X, 40X(S), 100X(S,Oil)
- Wide Field Plane-Scope Eyepiece: WF10X;
- Total Magnification: 40X-1000X
- Articulated Free Binocular Head, Interpupillary Distance: 55-75mm; 30° Inclined, 360° Rotatable
- Double Layers Mechanical Stage: 125X130mm,
- Moving Range X-Y: 60X30mm
- ϕ 2- ϕ 30mm Iris Diaphragm And ϕ 32 Filter;
- ABBE Condenser: N.A.1.25
- Coaxial Coarse And Fine Focusing Adjustable Mechanism: 20mm
- Built-in Adjustable Brightness Halogen Lamp 6V/20W
- Net Weight/Set: 4.6kg



Order No. 855-1100

XSP21-01B

- 45mm DIN Achromatic Objective: 4X, 10X, 40X(S), 100X(S,Oil)
- Wide Field Plane-Scope Eyepiece: WF10X;
- Total Magnification: 40X-1000X
- Articulated Free Binocular Head, Interpupillary Distance: 55-75mm; 30° Inclined, 360° Rotatable
- Double Layers Mechanical Stage: 125X130mm, Moving Range X-Y: 60X30mm
- ϕ 2- ϕ 30mm Iris Diaphragm And ϕ 32 Filter;
- ABBE Condenser: N.A.1.25
- Coaxial Coarse And Fine Focusing Adjustable Mechanism: 20mm
- Built-in Adjustable Brightness Halogen Lamp 6V/20W
- Net Weight/Set: 4.3kg.



Order No. 855-1105

XSP91-0E6-1

- 45mm DIN Achromatic Objective: 10X, 40X(S), 100X(S,Oil)
- Wide Field Plane-Scope Eyepiece: WF10X;
- Total Magnification: 100X-1000X
- Monocular Head, 45° Inclined, 360° Rotatable
- Double Layers Mechanical Stage: 110X125mm, Moving Range X-Y: 60X20mm
- ϕ 2- ϕ 30mm Iris Diaphragm And ϕ 32 Filter;
- ABBE Condenser: N.A.1.25
- Coaxial Coarse And Fine Focusing Adjustable Mechanism: 14mm
- Built-in Incandescent Lamp 20W
- Net Weight/Set: 2.6kg.



Order No. 855-1110

XSZ21-05B

- 45mm DIN Achromatic Objective: 4X, 10X, 40X(S), 100X(S,Oil)
- Wide Field Plane-Scope Eyepiece: WF10X, WF16X;
- Total Magnification: 40X-1600X
- Articulated Free Binocular Head, Interpupillary Distance: 55-75mm; 30° Inclined, 360° Rotatable
- Double Layers Mechanical Stage: 140X155mm, Moving Range X-Y: 70X50mm
- ϕ 2- ϕ 30mm Iris Diaphragm And ϕ 32 Filter;
- ABBE Condenser: N.A.1.25
- Coaxial Coarse And Fine Focusing Adjustable Mechanism: 35mm, Precision: 0.002mm
- Built-in Adjustable Brightness Halogen Lamp 6V/20W
- Net Weight/Set: 5.8kg.



Order No. 855-1200

Bio-Microscopes

XSZ-701BN

- 45mm DIN Achromatic Objective: 4X, 10X, 40X(S), 100X(S,Oil)
- Wide Field Plane-Scope Eyepiece: WF10X, WF16X;
- Total Magnification: 40X-1600X
- Sliding Binocular Head, Interpupillary Distance: 55-75mm; 45° Inclined, 360° Rotatable
- Double Layers Mechanical Stage: 140X155mm, Moving Range X-Y: 70X50mm
- ϕ 2- ϕ 30mm Iris Diaphragm And ϕ 32 Filter.
- ABBE Condenser: N.A. 1.25
- Coaxial Coarse And Fine Focusing Adjustable Mechanism: 25mm, Precision: 0.002mm
- Built-in Adjustable Brightness Halogen Lamp 6V/20W
- Net Weight/Set: 6.4kg.



Order No. 855-1210

Stereo Microscopes

XTD-3C

- Objective: Grouped From Any Two Objectives of 1X, 2X, 3X and 4X, Working Distance: 1X-55mm, 2X-81mm, 3X-61mm, 4X-57mm
- Wide Field Plane-Scope Eyepiece: WF10X, WF15X (Optional)
- Total Magnification: 10X-20X, or 10X-30X, or 10X-40X, or 20X-30X, or 20X-40X, or 30X-40X
- Articulated Free Binocular Head, Interpupillary Distance: 55-75mm, 45° Inclined;
- Illumination: Top/Bottom Light: 12V/10W Halogen Lamp, with ϕ 95mm Frosted Glass Stage Plate
- Rack and Pinion Coarse Focusing Mechanism with Slip Clutch and Tension Adjustment
- Net Weight/Set: 2.4kg



Order No. 855-0711

XTD-3C-RC

- Objective: Grouped From Any Two Objectives of 1X, 2X, 3X and 4X, Working Distance: 1X-55mm, 2X-81mm, 3X-61mm, 4X-57mm
- Wide Field Plane-Scope Eyepiece: WF10X, WF15X (Optional)
- Total Magnification: 10X-20X, or 10X-30X, or 10X-40X, or 20X-30X, or 20X-40X, or 30X-40X
- Articulated Free Binocular Head, Interpupillary Distance: 55-75mm, 45° Inclined;
- Illumination: Top/Bottom Light: IWLED Lamp, with ϕ 95mm Frosted Glass Stage Plate
- Rack and Pinion Coarse Focusing Mechanism with Slip Clutch and Tension Adjustment
- Net Weight/Set: 2.4kg



Order No. 855-0721

7X-30X Stereo Microscopes

- 45° Inclined head with 10X eyepieces (15X Optional).
- 0.7-3X Zoom Objective.
- Diameter of field view: 0.70".
- Work Distance: 3.82".
- Top/Bottom illumination.
- Halogen bulb 6V/10W.



Order No. 855-0095

6.7X-45X Zoom Stereo Microscopes

- 45° inclined eye tubes
- Eyepieces: 10X, Zoom Objective: 6.7-4.5X.
- Working Distance: 4"/100mm.
- Adjustable Pupil Distance: 2.17-3"/55-75mm.
- 4-2/5"/114mm adjustment stand features rack, pinion and ball bearing guide.
- Two focusing knobs for left and right control.
- Power Supply: 220V 50HZ/ 110V 60HZ
- Illumination System: Incident/Transmitted (855-0261).



Without Illumination
Order No. 855-0101

With Illumination
Order No. 855-0102

TV/Camera Mounting Port Head & Illumination Type

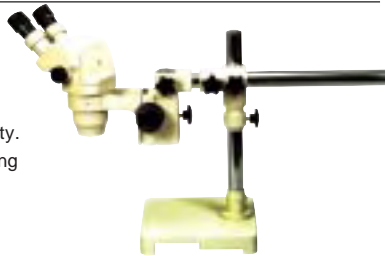
- Illumination System: Incident/Transmitted.
- Complete with illumination (855-0261).
- Optional Accessories:
TV Adapter & Camera Adapter.



Order No. 855-0104

Adjustable Arm Type

- Adjustable Boom arm provides maximum comfort and flexibility.
- Extra heavy base provide strong stability.



Order No. 855-0105

Eyepiece & Auxiliary Objective



Description	Order No.
Eyepiece 10X 22mm	855-0241
Eyepiece 15X 16mm	855-0242
Eyepiece 20X 12mm	855-0243
Auxiliary Objective 0.3X	855-0251
Auxiliary Objective 0.4X	855-0252
Auxiliary Objective 0.5X	855-0253
Auxiliary Objective 0.75X	855-0254
Auxiliary Objective 1.5X	855-0255
Auxiliary Objective 2.0X	855-0256

TV Adapter



Order No. 855-0271

Camera Adapter



Order No. 855-0281

10X-40X Zoom Stereo Microscopes

- Sharp stereo erect image over a wide field view.
- 45° inclined and 360° rotational binocular head.
- Adjustable Pupil Distance: 2.1"-3"/55-75mm.
- Top/Bottom adjustable light.
- Working distance: 3.4"/85mm.



Types of			
Eyepiece	Objectives	Stands	Order No.
10X	1-4X	Pillar Stand	855-0301
10X	1-4X	Arm Stand	855-0303

10X-160X Zoom Microscope

- 1X-4X Continuous Zoom Objective.
- Standard Eyepieces: 10X, 20X.
- Auxiliary Objective: 2X.
- Working Distance: 26mm-87mm/1-3.5".

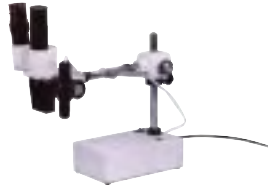


Order No. 855-0091

Adjustable Arm Stereo Microscopes

- Top Light: 12V/10W Halogen Bulb.
- Fully coated excellent optics gives erect image over a wide field of view, sharp and clear.
- Provide the original true color of the viewed object.
- Accurate alignment gives fatigue free viewing.
- Power Supply: 220V 60Hz/110V 50Hz.

20X Upright Head Style



Order No. 855-0081

20X, 45° Inclined Head Style



Order No. 855-0082

Stereo Microscopes

Upright Head Style

- Fully coated excellent optics gives erect image over a wide field of view, sharp and clear.
- Provide the original true color of the viewed object.
- Accurate alignment gives fatigue free viewing.
- Power Supply: 220V 60Hz/110V 50Hz.

20X, Pillar Stand

Eyepiece	Objectives	Light	Bulb	Order No.
10X	2X	Without		855-0001
10X	2X	Top	Halogen	855-0002
10X	2X	Top/Bottom	Halogen	855-0003



20X, Arm Stand

Eyepiece	Objectives	Light	Bulb	Order No.
10X	2X	Without		855-0011
10X	2X	Top	Halogen	855-0012
10X	2X	Top/Bottom	Halogen	855-0013



45° Inclined Head Style

- Fully coated excellent optics gives erect image over a wide field of view, sharp and clear.
- Provide the original true color of the viewed object.
- Accurate alignment gives fatigue free viewing.
- Power Supply: 220V 60Hz/110V 50Hz.

20X, Pillar Stand

Eyepiece	Objectives	Light	Bulb	Order No.
10X	2X	Without		855-0021
10X	2X	Top	Halogen	855-0022
10X	2X	Top/Bottom	Halogen	855-0023



Stereo Microscopes

45° Inclined Head Style

20X, Arm Stand

Eyeiece	Objectives	Light	Bulb	Order No.
10X	2X	Without		855-0031
10X	2X	Top	Halogen	855-0032
10X	2X	Top/Bottom	Halogen	855-0033



- Fully coated excellent optics gives erect image over a wide field of view, sharp and clear.
- Provide the original true color of the viewed object.
- Accurate alignment gives fatigue free viewing.
- Power Supply: 220V 60Hz/110V 50Hz.

20X/40X, Pillar Stand

Eyeiece	Objectives	Light	Bulb	Order No.
10X	2X/4X	Without		855-0041
10X	2X/4X	Top	Halogen	855-0042
10X	2X/4X	Top/Bottom	Halogen	855-0043



20X/40X, Arm Stand

Eyeiece	Objectives	Light	Bulb	Order No.
10X	2X/4X	Without		855-0051
10X	2X/4X	Top	Halogen	855-0052
10X	2X/4X	Top/Bottom	Halogen	855-0053



360° Rotatable

45° Inclined Head Style

- Fully coated excellent optics gives erect image over a wide field of view, sharp and clear.
- Provide the original true color of the viewed object.
- Accurate alignment gives fatigue free viewing.
- Power Supply: 220V 60Hz/110V 50Hz.

20X/40X, Pillar Stand

Eyeiece	Objectives	Light	Bulb	Order No.
10X	2X/4X	Without		855-0061
10X	2X/4X	Top	Halogen	855-0062
10X	2X/4X	Top/Bottom	Halogen	855-0063



20X/40X, Arm Stand

Eyeiece	Objectives	Light	Bulb	Order No.
10X	2X/4X	Without		855-0071
10X	2X/4X	Top	Halogen	855-0072
10X	2X/4X	Top/Bottom	Halogen	855-0073



10,20,30X Stereo Microscopes

- 45° Inclined head with 10X eyepieces.
- 1,2,3X objectives.
- Dual illumination.
- Work Distance: 3.15-1.88".
- Pupil Distance: 2.00"-2.75".



Order No. 855-0096

10X/30X Stereo Microscope

- Eyepiece: 10X
- Objective: 1X, 3X
- Working Stage: 3"/7.5mm
- Working Distance: 3.7"/95mm
- Bulbs: Halogen
- Light: Adjustable Brightness, Top/Bottom 110V/15W



Order No. 855-0701

Cool Bright Fiber Illumination Systems

Used for microscope illumination and other illuminations which the heat influence is considered

Fiber Optic Light Guides

Types of Light Guides	Length of Guides	Order No.
Single Light Guide	19"/490mm	855-0911
Dual Light Guide	19"/490mm	855-0912
Annular Ring Light-Fits	35"/900mm	855-0913



Fiber Optic Light Sources

Power	Lamp	Order No.
110VAC 50/60Hz	Halogen 24V/150W	855-0901
220VAC 50/60Hz	Halogen 24V/150W	855-0902

Optional Accessories for Microscopes

Eye pieces

Description	Order No.
5X 18mm	855-0211
10X 20mm	855-0212
15X 13mm	855-0213
20X 10mm	855-0214



Objectives

Description	Order No.
1X	855-0231
2X	855-0232
3X	855-0233
4X	855-0234
6X	855-0236



Bulbs

Description	Order No.
Incandescent Bulb 12V/10W	855-0221
Halogen Bulb 12V/10W	855-0222

Hand Held Refractometers

Application:

Measuring cutting/grinding coolants, oil/water concentrations, also used as Brix Tester (Sugar related liquids fruit juices, soft drinks, wine, honey)

- Accurately measures industrial liquids.
- Easy to read scale.
- Maintain and control optimum performance mixture.
- Two items feature automatic Temperature Compensation System.

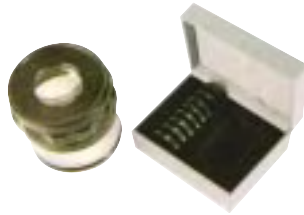
Range	Grad.& Accuracy	Description	Order No.
0-10%	0.1%	without ATC	854-4010
0-10%	0.1%	with ATC	854-4011
0-18%	0.1%	without ATC	854-4018
0-32%	0.2%	without ATC	854-4032
0-32%	0.2%	with ATC	854-4033
0-55%	1%	without ATC	854-4055



Triplet Optical Comparators

Magnifier & Reticles Sets

Qty of Reticles	Lens Dia.	Power	Order No.
5	25mm/1"	7X	854-7002
8	21mm/5/6"	7X	854-7000
5	25mm/1"	10X	854-7003
5	38mm/1-1/2"	10X	854-7004
8	21mm/5/6"	10X	854-7001



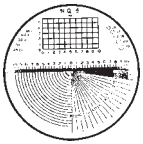
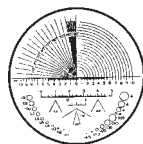

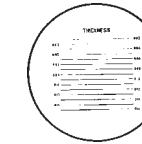



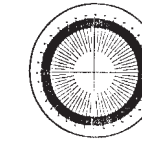
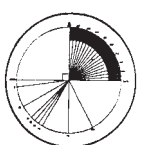


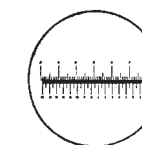
Individual Magnifiers

- Reticles are made of glass offered great stability.
- Each comparator comes with one reticle.

Power	Lens Dia.	Order No.
7X	21mm/5/6"	854-7007
7X	25mm/1"	854-7008
10X	21mm/5/6"	854-7010
10X	25mm/1"	854-7110
10X	38mm/1-1/2"	854-7111



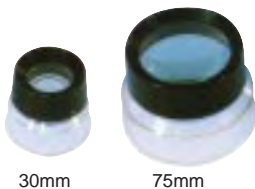
Individual Reticles

 Multi Scale 1 Order No. 854-7201	 Multi Scale 2 Order No. 854-7202	 Thickness Inch Gage Order No. 854-7203	 Thickness Metric Gage Order No. 854-7204
 Inch Screw Thread Order No. 854-7205	 Metric Screw Thread Order No. 854-7206	 Radius Order No. 854-7207	 Protractor Order No. 854-7208
 Cutting Tools Angle Order No. 854-7209	 Straight Line Scale 0.005" Grad. Order No. 854-7210	 Straight Line Scale 0.1mm Grad. Order No. 854-7211	 Comparison Scale 0.01"/0.1mm Grad. Order No. 854-7212

Round Stand Magnifiers

- Glass Lens

Lens Dia.	Power	Order No.
30mm	10X	854-1530
75mm	3X	854-1575



Watchmakers' Loupes

- Glass Lens

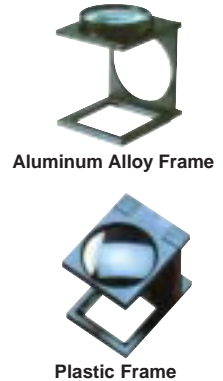
Lens Dia.	Order No.
10X	854-1560
4X	854-1564
5X	854-1565



Folding Stand Magnifiers

- Stand Magnifier has almost limitless uses from industrial engineers to stamp collectors featuring fold-out stand and Metric scale in the base.
- Glass Lens
- *21mm with Scale

Lens Diameter	Power	Aluminum Alloy Frame Order No.	Plastic Frame Order No.
16mm	6X	854-1416	854-1417
21mm	6X	854-1421	854-1423
21mm	6X	854-1422*	854-1424*
28mm	6X	854-1428	854-1429
50mm	5X		854-1450
65mm	4X		854-1465
75mm	4X		854-1475
90mm	3X		854-1490
110mm	2X		854-1411



Triplet Jewel Magnifiers

- Hasting triplet lens system-three separate lenses bonded together.
- Case colors: Bright, Black and Golden.
- Handle type swing case.
- Glass lens

Without Coating

Power	Lens Dia.	Chrome Plated Bright Order No.	Power Coated Black Order No.	TiN Coated Golden Order No.
10X	18mm	854-5010	854-5110	854-5210
15X	18mm	854-5015	854-5115	854-5215
20X	18mm	854-5020	854-5120	854-5220
30X	18mm	854-5030	854-5130	854-5230
10X	21mm	854-5310	854-5410	854-5510
15X	21mm	854-5315	854-5415	854-5515
20X	21mm	854-5320	854-5420	854-5520
30X	21mm	854-5330	854-5430	854-5530

With Coating

Power	Lens Dia.	Chrome Plated Bright Order No.	Power Coated Black Order No.	TiN Coated Golden Order No.
10X	18mm	854-8010	854-8110	854-8210
15X	18mm	854-8015	854-8115	854-8215
20X	18mm	854-8020	854-8120	854-8220
30X	18mm	854-8030	854-8130	854-8230
10X	21mm	854-8310	854-8410	854-8510
15X	21mm	854-8315	854-8415	854-8515
20X	21mm	854-8320	854-8420	854-8520
30X	21mm	854-8330	854-8430	854-8530

Folding Pocket Magnifiers

- With a swing away case, serves as a handle.
- Glass Lens

Power	Lens Dia.	Description	Keys	Order No.
5X	30mm	Buckle		854-1330
10X	30mm	Two Lens in One		854-1331
15X	30mm	Three Lens in One		854-1332
3X	48.7mm	Leather Pouch		854-1348



Foldable Bifocal Magnifiers

Table Top Model

- Glass Lens



Power	Lens Dia.	Description	Order No.
3X/6X	75mm	without Illumination	854-3021
2X/4X	100mm	with Illumination	854-3022
2X/4X	72mm	with Illumination	854-3023

Acrylic Pen & Ruler Magnifiers

- Plastyle Lens



Lens Dia. 6"/150mm, Power 1X

Order No. 854-3121



Lens Dia. 5" Length, Power 1X

Order No. 854-3122



Lens Dia. 3" Scale, Power 1X

Order No. 854-3123



Lens Dia. 2"/50mm, Power 2X

Order No. 854-3124

Bifocal Magnifiers

- Acrylic Lens



Lens Dia.	Power	Order No.
2"/52mm	3X, 6X	854-3031
2-1/2"/65mm	3X, 6X	854-3033
3"/75mm	3X, 6X	854-3035
4"/100mm	2X, 4X	854-3037
12Pcs/set, 3pcs each of 52mm, 65mm, 75mm, 100mm		854-3038
12Pcs/set, 4pcs each of 65mm, 75mm, 100mm		854-3039

Rectangular Magnifiers

- Glass Lens



Lens Size: 50x100mm,
Power: 2X

Order No. 854-3011

- Acrylic Lens
- Bifocal Foldable Model



Lens Size: 50x100mm,
Power: 2X, 8X

Order No. 854-3012

Helping Hand Magnifiers

- Cast Iron Base.
- Eliminates the use of hand held.
- Two spring clamps and magnifier work at any desired angle.
- Glass Lens



Lens Dia. 60mm, Power 2X

Order No. 854-1550

Hand Free Magnifier

- Acrylic Lens



2X acrylic square main lens,
5X bifocal lens

Order No. 854-3120

Goose Neck Magnifiers

- Glass lens

Weighted Base

- Lens Dia. 4"/100mm, Power 2.5X.
- Neck Length 16"/400mm.



Order No. 854-3078

Weighted Base

- Lens Dia. 4"/100mm, Power 2.5X.
- Neck Length 12"/300mm.



Order No. 854-3079



"G" Clamp & Spring Clamp

Power	Lens Dia.	Neck Dia.	Description	Order No.
3X	3"/75mm	15"/380mm	Spring Clamp	854-3071
3X	3"/75mm	15"/7380mm	G Clamp	854-3073
3X	3.6"/90mm	20"/510mm	Spring Clamp	854-3075
3X	3.6"/90mm	20"/510mm	G Clamp	854-3077

Illuminated Magnifiers

- Switch on/off.
- Two AAA batteries for 854-1030, two C batteries for 854-1110, the rest models feature AA size batteries.
- Glass Lens



Order No. 854-1030 Order No. 854-1053 Order No. 854-1066 Order No. 854-1080 Order No. 854-1090



Order No. 854-1110 Bifocal Order No. 854-1091 12 Piece Set Order No. 854-1012

Lens Dia.	Power	Order No.
30mm	6X	854-1030
53mm	2.5X	854-1053
66mm	2X	854-1066
80mm	2X	854-1080
90mm	2X	854-1090
110mm	2X	854-1010
90mm	2X ,4X	854-1091

Pocket Microscopes

For reading fine print, industrial quality control, fine inspections, textiles, etc.

- Use 2 AA batteries (not included)

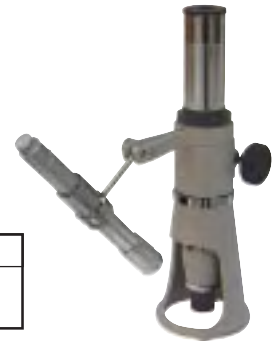


Power	Description	Order No.
30X	with Focusing Wheel	854-3111
30X	Illuminated with Focusing Wheel	854-3112
30X	Illuminated with Focusing Wheel	854-3113
40-90X	Illuminated with Focusing Wheel	854-3114

Deluxe Shop Microscopes

with Adjustment Focal Wheel

- Designed for very distinct, sharp and no color distortion magnified images.
- Glass lens
- Features illumination torch with 2 AAA batteries.



Power	Order No.
40X	855-0600
80X	855-0601

Shop Microscopes

- Portable shop microscopes for precision and sharp inspection of work pieces.
- 2 in 1 metric and inch straight line scale.
- Glass lens
- 2 AAA batteries.



Power	Graduation	Order No.
20X	0.005"/0.1mm	854-0420
40X	0.0025"/0.05mm	854-0440
60X	0.001"/0.02mm	854-0460
100X	0.0005"/0.01mm	854-0500

Magni-Visors

Used for reading fine print and precision inspection

- Outer Lens 1.8X, inner "flip down" Lens for total 2.3X



Order No. 854-3101

- Outer Lens 1.8X, inner "flip-down" lens for total 2.3X.
- With 2X Auxiliary Lens, for total 4.8X magnification.



Order No. 854-3102

- Outer Lens 1.8X, inner "flip-down" lens for total 2.3X.
- With 2X Auxiliary Lens, for total 4.8X magnification.
- 2 Incandescent bulbs, 2 AAA batteries.



Order No. 854-3103

Digital Multimeters

- Large LCD (68x75mm).
- Comply with IEC1010.
- Complete data display.
- Overload protection.
- Auto power off.
- Data hold Function.
- Battery: 1x9V(6F22).



Descriptions	Order No.856-0011	Order No.856-0016	Order No.856-0018
Voltage DC	200m-2-20-200-1000V	200m-2-20-200-1000V	200m-2-20-200-1000V
Voltage AC	200m-2-20-200-750V	2-20-200-750V	200m-2-20-200-750V
Current DC	200μ-2m-20m-200m-2-10A	20m-200m-10A	20μ-200μ-2m-20m-200m-2-10A
Current AC	200μ-2m-20m-200m-2-10A	20m-200m-10A	20μ-200μ-2m-20m-200m-2-10A
Resistance (OHM)	200-2K-20K-200K-2M-20MΩ	200-2K-20K-200K-2M-20MΩ	200-2K-20K-200K-2M-20M-200MΩ
Capacitance		2000p-20n-200n-2μ-20μF	2000p-20n-200n-2μ-20μF
Frequency		20KHz	20KHz-2MHz
Temperature		0~1000°C	0~1000°C
Duty Cycle			0.1%~99.9%
Logic Test			High>2.0V; Low<0.8V
Diode Check	3V/1 mA	3V/1mA	3V/1mA
hFE	Vce ≈ 3V, Ib ≈ 10iA	Vce ≈ 3V, Ib ≈ 10iA	Vce ≈ 3V, Ib ≈ 10iA
Size / Weight	200x97x48mm/495g	200x97x48mm / 495g	200x97x48mm / 495g
Mfr's #	EM3051	EM3056	EM3058

Adjustable Angle Display

- Large LCD (68x75mm).
- Comply with IEC1010.
- Complete data display.
- Overload protection.
- Auto power off.
- Data hold Function.
- Battery: 1x9V(6F22).



Descriptions	Order No.856-0021	Order No.856-0023	Order No.856-0025
Voltage DC	200m-2-20-200-1000V	200m-2-20-200-1000V	200m-2-20-200-1000V
Voltage AC	200m-2-20-200-750V	2-20-200-750V	2-20-200-750V
Current DC	200μ-2m-20m-200m-2A-10A	200mA-10A	20m-200mA-10A
Current AC	200μ-2m-20m-200m-2A-10A	20m-200mA-10A	20m-200mA-10A
Resistance (OHM)	200-2K-20K-200K-2M-20MΩ	200-2K-20K-200K-2M-20M-200MΩ	200-2K-20K-200K-2M-20M-200MΩ
Capacitance		2n-20n-200n-2μ-20μF	2n-20n-200n-2μ-20μF
Battery Check		1.5V; 9V	
Temperature			0~1000°C
Diode Check	3V/1mA	3V/1 mA	3V/1 mA
hFE	Vce ≈ 3V, Ib ≈ 10μA	Vce ≈ 3V, Ib ≈ 10μA	Vce ≈ 3V, Ib ≈ 10μA
Size / Weight	200x97x48mm/495g	200x97x48mm / 495g	200x97x48mm / 495g
Mfr's #	EM3201	EM3203	EM3205

Palm Size Digital Multimeters

- 3 1/2 digits LCD, Max. reading 1999.
 - Low battery indication.
 - Overload protection.
- Accessories: Test Lead; One 12V Battery (23A); Users Manual,
Type K thermocouple (Only for 856-0062)



Descriptions	Accuracy	Order No.856-0060	Order No.856-0061	Order No.856-0062
Voltage DC	+/-0.5%	200m-2000m-20-200-600V	200m-2000m-20-200-600V	200m-2000m-20-200-600V
Voltage AC	+/-1.2%	200-600V	200-600V	200-600V
Current DC	+/-1.2%	20μ-2000μ-20m-200m- 10A	2000μ-20m-200m- 10A	2000μ-20m-200m- 10A
Resistance (OHM)	+/- 1.0%	200-2000-20K-200K- 2000KΩ	200-2000-20K-200K- 2000KΩ	200-2000-20K-200K- 2000KΩ
Temperature			50Hz	-0°C - 750°C
Diode Check		2.8V / 1mA	2.8V / 1mA	2.8V / 1mA
hEF		Vce ≈ 3V, IB ≈ 10μA	Vce ≈ 3V, IB ≈ 10μA	Vce ≈ 3V, IB ≈ 10μA
Size / Weight		130x74x38mm/163g	130x74x38mm/163g	130x74x38mm/163g
Mfr's #		EM310	EM311	EM312

Digital Multimeters



- 3 1/2 digits LCD , Max. reading of 1999.
- Low Battery indication.
- Overload protection.
- Audible continuity.
- Safety CAT II 600V.
- Battery: 1x9V(6F22).

Order No.856-0030

Descriptions	Measuring Ranges	Accuracy
Voltage DC	200m-2-20-200-600V	+/- 0.5%
Voltage AC	200-600V	+/- 1.2%
Current DC	2m-20m-200m-10A	+/- 1.2%
Resistance (OHM)	200-2K-20K-200K-2MΩ	+/- 1.0%
Battery Check	1.5V, 9V	
Diode Check	2.8V / 1 mA	
Size / Weight	130x68x32mm / 135g	
Mfr's #	EM370	

Digital Multimeters



- 3 1/2 digits LCD , Max. reading of 1999.
- Low Battery indication.
- Overload protection.
- Safety CAT II 600V.
- Battery: 1x9V(6F22).

Order No.856-0040

Descriptions	Measuring Ranges	Accuracy
Voltage DC	200m-2-20-200-600V	+/- 0.5%
Voltage AC	200-600V	+/- 1.2%
Current DC	2m-20m-200m-10A	+/- 1.2%
Resistance (OHM)	200-2K-20K-200K-2MΩ	+/- 1.0%
Battery Check	1.5V, 9V	
Diode Check	2.8V / 1mA	
Size / Weight	130x68x32mm / 135g	
Mfr's #	EM390	

Auto Range



- 3 1/2 digits LCD , Max. reading of 1999.
- 7 Functions for DCV, ACV, DCA, ACA, OHM, Diode Check & Buzzer.
- Auto Range.
- Auto power off.
- Safety CAT II 600V.
- Battery: 2x1.5V(AAA)



Order No.856-0058

Descriptions	Measuring Ranges	Accuracy
Voltage DC	200m-2-20-200-600V	+/- 0.7%
Voltage AC	2-20-200-600V	+/- 1.2%
Current DC	200μA-2000μA-20m-200m-2-10A	+/- 1.8%
Current AC	200μA-2000μA-20m-200m-2-10A	+/- 1.2%
Resistance (OHM)	200-2K-20K-200K-2M-20MΩ	+/- 1.0%
Diode Check	2.8V/1 mA	
Size / Weight	150x54x25mm/160g	
Mfr's #	EM308	

Auto Range



- 3 1/2 digits LCD, Max. reading 1999.
- Low battery indication.
- Overload protection.
- Audible continuity.
- Auto Range.
- vAuto power off.
- Safety CAT II 600V.

Accessories: Test Lead; 2x1.5V (AA) Battery.

Order No.856-0052

Descriptions	Measuring Ranges	Accuracy
Voltage DC	200m-2-20-200-600V	+/- 0.7%
Voltage AC	2-20-200-600V	+/- 1.2%
Current DC	20m-200mA	+/- 1.2%
Current AC	20m-200mA	+/- 0.8%
Resistance (OHM)	200-2K-20K-200K-2M-20MΩ	+/- 1.0%
Diode Check	2.8V / 1mA	
Size / Weight	127x70x30mm / 145g	
Mfr's #	EM302	

Intelligent One Switch Meter



- Auto selecting DCV, ACV, OHM & Buzzer.
- Auto Range.
- 3 3/4 digits LCD, Max. reading 3999.
- Overload protection.
- Auto power off.
- Safety CAT II 300V.
- Battery: 1x9V(6F22).

Order No.856-0070

Descriptions	Measuring Ranges	Accuracy
Voltage DC	4-40-400V	+/- 0.8%
Voltage AC	4-40-400V	+/- 1.2%
Resistance (OHM)	0 ~ 400 Ω	+/- 1.0%
Size / Weight	155x70x39mm/230g	
Mfr's #	EM50	

Digital Clamp Meter



- 3 1/2 digits LCD, Max. reading 1999.
- Data-hold function.
- Low battery indication.
- Overload protection.
- Audible continuity.
- 7 functions, 8 ranges.
- DCA & ACA measurement.
- Battery: 1x9V(6F22).

Order No.856-0104

Descriptions	Measuring Ranges	Accuracy
Voltage DC	1000V	+/-1.0%
Voltage AC	750V	+/-1.2%
Current DC	200-1000A	+/-2.0%
Current AC	200-1000A	+/-2.0%
Resistance (OHM)	200 Ω	+/-1.0%
Frequency	2KHz (+/-2.5%)	+/-2.5%
Size / Weight	250x99x43mm / 400g	
Mfr's #	EM204	

Digital Clamp Meters



- 3 1/2 digits LCD, Max. reading 1999.
- 4 Functions, 5 Ranges.
- Data-hold function.
- Audible continuity.

Accessories:

Test Lead; 1x9V(6F22) Battery; Carrying case; Users Manual

Order No.856-0117

Descriptions	Measuring Ranges	Accuracy
Voltage AC	200-600V	+/- 1.5%
Current AC	200-600A	+/-2.0%
Resistance (OHM)	200 Ω	+/-12%
Clamp size	33mm(Max.)	
Size / Weight	208x90x40mm / 290g	
Mfr's #	2017	

Digital Clamp Meters



- 3 1/2 digits LCD, Max. reading 1999.
- 6 Functions, 8 Ranges.
- Data-hold function.
- Low battery indication.
- Overload protection.
- Audible continuity.

Accessories:

Test Lead; 1x9V(6F22) Battery; Carrying case; Users Manual

Order No.856-0127

Descriptions	Measuring Ranges	Accuracy
Voltage DC	600V	+/- 0.8%
Voltage AC	450V	+/-1.0%
Current AC	20-200-400A	+/-2.0%
Resistance (OHM)	2K-200K Ω	+/-1.2%
Diode Check	3.2V/1.2mA	
Size / weight	198x63x28mm / 241g	
Mfr's #	EM87	

Digital Photo Tachometer



Order No.856-0204

Functions	Measuring Ranges
Display	LCD
Rotative velocity	2.5 - 99.999 Round/Min
Resolution	1r/min (over 1000RPM)
Accuracy	+/- (0.05%n + Id)
Sampling(SEC)	1.0 (over 60RPM)
Memory	Max. / Min. / Last value
Battery	4 x 1.5V (AA)
Size	190x72x37mm
Mfr's #	2234A

Humidity/Temperature Meter



Order No.856-0211

Functions	Measuring Ranges
Display	LCD
Humidity	10 - 100
Temperature	-10 - 65°C
Resolution	+/-0.1
Accuracy	1 or 3%RH
Memory	Max. , Min., Last value
Battery	4 x 1.5V (AA)
Size	220 x 72 x 37mm
Mfr's #	HC-601C

Multifunctional Sound Level Meter



Order No.856-0221

Functions	Measuring Ranges
Display	LCD
Sound level	30 - 130dB
Weighting	A C. Linear Filter
Function	SL. Leq. LN
Detection characteristics	Fast/Slow
Sound level alarm set	30 - 130dB
Accuracy	+/- 0.8dB
Resolution	0.1dB
Battery	4 x 1.5V (AA)
Size	212 x 69 x 32mm
Mfr's #	S4001

Digital Lux Meter



Order No.856-0231

Functions	Measuring Ranges
Display	LCD
Luminosity	0 ~ 50000 LUX
Accuracy	+/- (5%+1d)
Resolution	1 LUX
Overload Display	1
Battery	1x9V (6F22)
Size	105 x 70 x 20mm
Mfr's #	XL-101

Stud Detector

- The LED will light and beep sounds.
- whenever the detector detects stud.
- Size: 138 x 70 x 28 (mm).
- Weight: 150g.
- 1x9V(6F22) Battery.
- Mfr's #: TS-88.



Order No.856-0188

Stud Detector

- The LEDs will light and beep sounds.
- whenever the detector detects stud.
- Size: 142 x 60x 28 (mm).
- Weight: 150g.
- 1x9V(6F22) Battery.
- Mfr's #: TS-87.



Order No. 856-0187

Body Scanner/Metal Detector



Order No. 856-0190

Metal, Voltage & Stud 3 In 1 Detector

- The detector can test the location of metal, voltage or Stud.
- The LED will light and beep sounds whenever the detector detects metal, voltage or Stud.



Order No. 856-0178

Descriptions	Measuring Ranges
Sensitivity: A25-cent coin	60mm (15mm)*
Iron pipe-tube in Dia.20mm	120mm (30mm)*
Sensitivity Adjustment	Yes, Continuous
Temperature environment	-10°C - 50°C
Operating current	<8mA
Operating Frequency	35KHz
Tuning	Automatic
Alert	Audio, LED light
Power	1x9V(6F22) (low power alert)
Battery life (Alkaline)	Up to 80 hours
Size	420 x 80 x 40mm
Weight	450g (including battery)
Mfr's #	TS-90

* Operate at reduced sensitivity with De-sensitivity Button pressed

Functions	Measuring Ranges
Metal Detector	Depth up to 25mm (Dia. 15mm Steel pipe)
Voltage Detector	Depth up to 30mm (AC 110V) Depth up to 40mm (AC220V)
Stud Detector	Depth up to 20mm
Ambient Condition	-20°C - 60°C Below 30-80%RH
Size / Weight	178x122x3mm / 230g
Battery	1x9V(6F22).
Mfr's #	TS-78

Metal & Voltage 2 in 1 Detector

- The LED will light and beep sounds, whenever the detector detects metal or voltage.



Order No. 856-0175

Functions	Measuring Ranges
Metal Detector	Depth up to 25mm
Voltage Detector	AC110V: Depth up to 30mm AC220V: Depth up to 40mm
Ambient Condition	-20°C ~ 60°C Below 30-80%RH
Battery	1x9V(6F22).
Size	150x78x24
Weight	140g(with Battery)
Mfr's #	TS-75

Digital Thermometer

Display: 3 1/2 digits LCD, Max. reading 1999.

Battery: 1x9V(6F22)

Size /Weight: 149 x 71 x 34mm\200g



Order No. 856-0251

Mfr's #: TM-6801B

Resolution	Range	Accuracy
0.1°C	-50 ~ 199.9°C	+/- (0.2% + 1°C)
0.1°F	-50 ~ 199.9°F	+/- (0.2% + 1°F)
1°C	-50 ~ 1000°C	+/- (0.3% + 2°F)
1°F	-50 ~ 1000°F	+/- (0.3% + 2°F)
1°F	1000 ~ 1999°F	+/- (0.5% + 2°F)
1°C	1000 ~ 1300°C	+/- (0.5% + 2°C)

Digital Thermometer

Features:

- Measures surface temperature without contact
- Laser pointer for accurate using
- Distance to spot ratio 12:1
- Max/Min, data logging 12 points
- Alarm Hi/Low
- DIF/AVG readings
- F/C switchable
- Data holding function
- Easy to read large LCD display with blue backlight

Technical Data:

- Accuracy: 1%
- D:S: 12:1
- Battery: 9V(6F22) x 1pc
- Dimension: 152x226x53mm
- Weight: 190g



Temp Range: -20 to 1000°C/-4 to 1832°F Temp Range: -20 to 1200°C/-4 to 2192°F

Order No. 856-0522

Order No. 856-0523

- Check temperature of engine, muffler, brakes and more
- Check temperature of tires and brakes
- Check for leaks around windows and doors
- Check temperature of heater vents or air conditioner
- Measures surface temperature without making contact
- Laser pointer for accurate use
- Easy to read large digital display

Specifications:

- Accuracy: +/-2°C(+/-3°F)
- Repeatability: +/-2%(+/-3°F) or 2% reading
- Response Time: 500m Sec, 95%
- Spectral Resonse: 7-18um
- Emissivity: 0.95
- Ambient Operating Rang: 32-105°F
- Storage Temp.: -4-150°F
- Weight: 33 lb(not including battery)
- Size: 6.3x3.54x1.7"
- Power: 9V 6F22



-20°C-320°C/-4°F-608°F

Distance to spot ratio: 6:1

OrderNo. 856-0520

-20°C-520°C/-4°F-968°F

Distance to spot ratio: 8:1

OrderNo. 586-0521

Automotive Multimeter

- Digital LCD display, Max. reading 3999
- Data-hold Function
- Auto Power Off
- Auto Range
- Overload Protection

Specifications:

- DCV:400m-4-40-400-600V
- ACV:4-40-400-600V
- OHM:400-4k-40k-400k-4M-40MΩ
- CAP:4n-40n-400n-4μ-40μ-100μF
- FREQ:
- 9.999-99.99-999.9-9.999k-99.99k-999.9k-10MHz
- DUTY:0.1% ~ 99%
- Diode Check:1.5V / 1mA
- Size / weight:230x48x30mm / 110g
- ACCESSORIES: Test Lead; 1.5V x 2 Battery;
- Users Manual

OrderNo.856-3214

Mfr's # EM-3214



Digital Coating Thickness Gage

Features:

- Adopting magnetic induction and eddy current thickness measuring method
- Three measuring modes: Direct Mode, Group Mode and Continuous Mode
- Data Saving: 495 measuring results can be saved
- Testing data may be transmitted to PC
- Data deleting and Error hint

Specifications:

- Probes:6 probes are available, F1, F400, F1/90degree, F10, CN02 and N1
- Statistic Methods: 5 statistic data, Mean Value(MEAN), Max and Min Value, Number of measurements(NO) and standard deviation(S.DEV).
- Measuring range: 0-10um
- Measuring resolution: 0.1um
- Power Source: 4x1.25V NIMH battery
- Dimensions: 270x80x45mm
- Weight: -510g

Optional Accessories

- Probes: F400, N1(or F1), F1/90degree, F10 and CN02.



Standard Accessories:

- Probe: F1 or N1, 1pc
- Print Head: 1pc
- Calibration foil: 5pcs
- Basic Body: 1pc
- Charger: 1pc

Order No.856-0245

Voltage Tester

- Automotive Voltage Tester, Voltage measurement (LED indicators light up to confirm voltage status)

- Voltage Range: 6V/12V/24V/50V/120V/230V/400V
- Indicator: LED lights up the Voltage reading
- Mfr's # GK-9



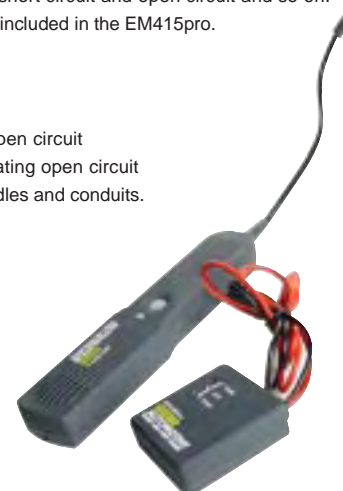
OrderNo.856-0009

Automotive Short and Open Finder

- This EM415pro is designed to identify and trace wires or cables without damaging
- You can also use it in checking for short circuit and open circuit and so on.
- There are a Sender and a Receiver included in the EM415pro.

Specifications:

- Checking for short circuit locating open circuit
- Wire identification some tips for locating open circuit
- Special tracing procedures wire bundles and conduits.



OrderNo.856-0415

Mfr's # EM415 Pro

Battery Tester

- For testing of D/C , AA, AAN, N, 006P-9V Battery and button cells.
- Meter display to check if batteries are good, low power or in need of replacement.

OrderNo.856-0001

Mfr's # BT-1



Moisture Meter

- Measure Fast & Easy To Operate
- The instrument is used for the measurement of water ratio
- Small size
- Light weight

Display: LED Display
 Measuring Range: 6~25%
 Accuracy: +/-1
 Battery: 6F22(9V)x1
 Size: 160x62x28mm
 Weight: 150g(about)

OrderNo.856-0004

Mfr's # EM-4G



Digital Tyre Gage

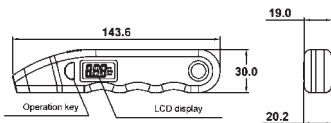
Features

- Large LCD display for easy reading
- Novel design whose shape harmonizes with human engineering
- Single key operation, manual ON/OFF, unit conversion, auto power off
- Four kinds of unit for measuring pressure: PSI, Bar, Kg/cm², Kpa
- One CR-2032, 3V lithium battery can last 24 months
- Working temp. range: -5°C-50°C
- Blister colour card for packing, which can be with customer's logo
- Available colours: elegant silver or sedate iron-grey
- Weight: 50g
- Accuracy: +/-1%

Order No. 856-0301



Resolution	Range
0.1PSI	0-100PSI
0.01Bar	0-7.0Bar
0.01kgf/cm ²	0-7.0Kgf/cm ²
1Kpa	0-700Kpa



2 In 1

- Large LCD display for easy reading.
- Flashlight Tip
- High precision and repetition
- Four kinds of unit for measuring pressure
- Manual power on/off and auto power off
- Dimensions: 103.6x56.6x19.2mm

Order No. 856-0307



Range	Resolution	Accuracy	Operation Temperature	Weight
0-100PSI	0.1PSI			
0-7.0Bar	0.01Bar	±1%	+5°C~+50°C	45g
0-7.0kff/cm ²	0.01kgf/cm ²			
0-700kpa	1Kpa			

Digital Tyre Gage

2 In 1

- Large LCD display.
- Metric/Inch system interchange.
- High precision and repetition
- Four kinds of unit for measuring pressure
- Manual power on/off and auto power off
- Tyre Pattern Measure
- Dimensions: 150x42x24.5mm



Order No. 856-0305

Range	Resolution	Accuracy	Operation Temperature	Weight
0-100PSI	0.1PSI			
0-7.0Bar	0.01Bar		+5°C~+50°C	50g
0-7.0kff/cm ²	0.01kgf/cm ²	±1%		
0-700kpa	1Kpa			
0-10mm/.4"				

3 In 1

- Large LCD display.
- Flashlight Tip
- Metric/Inch system interchange.
- High precision and repetition
- Four kinds of unit for measuring pressure
- Manual power on/off and auto power off
- With compass function
- Dimensions: 119.3x46.5x15mm



Order No. 856-0303

Range	Resolution	Accuracy	Operation Temperature	Weight
0-100PSI	0.1PSI			
0-7.0Bar	0.01Bar	±1%	+5°C~+50°C	45g
0-7.0kff/cm ²	0.01kgf/cm ²			
0-700kpa	1Kpa			

3 In 1

- Large LCD display with back light for easy reading
- Used to measure tire pressure and tire tread depth
- Featured with light
- Mini size and lightweight
- Can be attached to key ring, and it is a good choice for promotion
- Single key operation, manual or auto power on/off, unit conversion,
- Four units in measuring pressure: PSI, Bar, Kg/cm², Kpa
- Tyre Gage Range: 0-100PSI, 0-7.0Bar, 0-7.0Kgf/cm², 0-700Kpa
Or 0-200PSI, 0-14Bar, 0-14Kgf/cm², 0-140Kpa
- Resolution: 0.1PSI, 0.01Bar, 0.01Kgf/cm², 1Kpa
- Accuracy: +/-1%
- Working temp: -5-50 Degree

Order No. 856-0311



Digital Tyre and Depth Gage Set

Order No.856-0313



8 In 1 Digital Tyre Gage

Features:

- Multi-scales: PSI, Bar, Kg/cm², Kpa
- Digital tread depth gauge(mm/inch)
- Bright LED flash light
- Back lighted LCD for use in the dark
- Bleeder valve for pressure adjustment
- The hammer easily shatters glass to free when doors are jammed on land or under water
- The seatbelt cutter quickly slices through a jammed
- With Compass
- Operation Temp.: -5°C~+50°C
- Power: 3 PCS AAA batteries
- Measuring Range:0-200PSI



Order No. 856-0312

Mini Digital Tyre Gage

- Large LCD display for easy reading
- Mini size and lightweight
- Can be attached to key ring, and it is a good choice for promotion
- Single key operation, manual or auto power on/off, unit conversion,
- Four units in measuring pressure: PSI, Bar, Kg/cm², Kpa
- Range: 0-100PSI, 0-7.0Bar, 0-7.0Kg/cm², 0-700Kpa or 0-200PSI, 0-14Bar, 0-14Kg/cm², 0-140Kpa
- Can order named color
- Resolution: 0.1PSI, 0.01Bar, 0.01Kg/cm², 1Kpa
- Accuracy: +/-1%
- Working temp: -5-50 Degree
- Dimensions: 61.5x40x13mm



Order No. 856-0309

Ultrasonic Dimension Pro with Laser

Accurate within 0.5%+1 digit Measure interior room dimensions up to 41 feet (12.0meters). Fast and easy estimates for carpet, tile and wallpaper easy to read LCD display outperform00ms traditional tape measures,FT/Meter conversion function.

- Measurement Range: 55cm to 12.0m (against hard surface)
- Accuracy: +/- (0.5%+1 digit)(in still air)
- Resolution: 0.01m
- Aperture Angle: Approximately 7°
- Calculation Range:
Length: ~ 150.00m
Area: ~ 144.00m²
Volume: ~ 1500.00m³



Order No. 856-0244

Mfr's #: EM55

Digital Torque Wrenches

Features:

- Longer battery life due to low energy consumption.
- The application point of the force is not restricted
- Tire functions are monment measuring, max, moment tracking(holding the max. value), setting moment limit value and data output functions.
- Alternative construction of the moment type or the couple type.
- Accuracy: +/-2%.

Couple Type



Range (N.m)	Resolution (N.m)	OAL (mm)	Square Tenon (mm)	Order No.
8-15	0.1	360	12.5x12.5	856-0281
10-20	0.1	360	12.5x12.5	856-0282
15-50	0.1	460	12.5x12.5	856-0283
20-60	0.1	460	12.5x12.5	856-0284
40-100	0.1	460	12.5x12.5	856-0285
45-120	0.1	460	12.5x12.5	856-0286
50-150	1	540	12.5x12.5	856-0287
60-200	1	540	12.5x12.5	856-0288

Moment Type



Range (N.m)	Resolution (N.m)	OAL (mm)	Square Tenon (mm)	Order No.
0.3-1.5	0.001	252	6.3x6.3	856-0261
0.6-3	0.001	252	6.3x6.3	856-0262
3-10	0.01	252	6.3x6.3	856-0263
5-15	0.01	252	6.3x6.3	856-0264
8-20	0.1	275	10x10	856-0265
10-25	0.1	275	10x10	856-0266
15-50	0.1	370	12.5x12.5	856-0267
20-60	0.1	370	12.5x12.5	856-0268
20-100	0.1	410	12.5x12.5	856-0269
30-150	0.1	460	12.5x12.5	856-0270
40-200	0.1	460	12.5x12.5	856-0271
50-250	0.1	490	12.5x12.5	856-0272
60-300	0.1	490	12.5x12.5	856-0273
100-350	1	490	20x20	856-0274
120-400	1	490	20x20	856-0275
150-500	1	590	20x20	856-0276
180-600	1	590	20x20	856-0277
220-800	1	1119	20x20	856-0278
300-1000	1	1119	20x20	856-0279



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