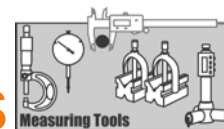


Measuring Tools



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Vernier Calipers.....B1-B7

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Bench Center & Interface Set.....B53

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Measuring Tools

VERNIER CALIPERS

Basic Model

- 4 Way measurement.
- Under 125mm without step measurement.
- Upper 300mm/12" without depth measurement.
- Made of Carbon Steel or Stainless Steel.



Metric & Inch		Carbon Steel	Stainless Steel
Range	Graduation	Model No.	Model No.
0-150mm/6"	0.02mm/0.001"	103-1501	403-1501
0-200mm/8"	0.02mm/0.001"	103-2001	403-2001
0-300mm/12"	0.02mm/0.001"	103-3001	403-3001
0-6"	0.001"/1/128"	103-1503	403-1503
0-150mm/6"	0.05mm/0.001"	103-1509	403-1509
0-200mm/8"	0.05mm/0.001"	103-2009	403-2009
0-150mm/6"	0.05mm/1/128"	103-1508	403-1508
0-200mm/8"	0.05mm/1/128"	103-2008	403-2008
0-300mm/12"	0.05mm/1/128"	103-3008	403-3008

Metric Only		Carbon Steel	Stainless Steel
Range	Grad.	Model No.	Model No.
0-100mm	0.02mm	103-1002	403-1002
0-125mm	0.02mm	103-1252	403-1252
0-150mm	0.02mm	103-1502	403-1502
0-200mm	0.02mm	103-2002	403-2002
0-300mm	0.02mm	103-3002	403-3002
0-100mm	0.05mm	103-1005	403-1005
0-125mm	0.05mm	103-1255	403-1255
0-150mm	0.05mm	103-1505	403-1505
0-200mm	0.05mm	103-2005	403-2005
0-300mm	0.05mm	103-3005	403-3005

With Fine Adjustment

- 4 Way measurement.
- Upper 300mm/12" without depth measurement.
- Made of Carbon Steel or Stainless Steel.



Metric & Inch		Carbon Steel	Stainless Steel
Range	Graduation	Model No.	Model No.
0-150mm/6"	0.02mm/0.001"	104-1501	404-1501
0-200mm/8"	0.02mm/0.001"	104-2001	404-2001
0-300mm/12"	0.02mm/0.001"	104-3001	404-3001
0-150mm/6"	0.05mm/0.001"	104-1503	404-1503
0-150mm/6"	0.05mm/1/128"	104-1508	404-1508
0-200mm/8"	0.05mm/1/128"	104-2008	404-2008
0-300mm/12"	0.05mm/1/128"	104-3008	404-3008

Metric Only		Carbon Steel	Stainless Steel
Range	Grad.	Model No.	Model No.
150mm	0.02mm	104-1502	404-1502
200mm	0.02mm	104-2002	404-2002
300mm	0.02mm	104-3002	404-3002
150mm	0.05mm	104-1505	404-1505
200mm	0.05mm	104-2005	404-2005
300mm	0.05mm	104-3005	404-3005

With Auto Clamp

- 4 Way measurement.
- Made of Carbon Steel or Stainless Steel.



Metric & Inch		Carbon Steel	Stainless Steel
Range	Graduations	Model No.	Model No.
0-150mm/6"	0.02mm/0.001"	105-1501	405-1501
0-200mm/8"	0.02mm/0.001"	105-2001	405-2001
0-300mm/8"	0.02mm/0.001"	105-3001	405-3001
0-150mm/6"	0.05mm/1/128"	105-1508	405-1508
0-200mm/8"	0.05mm/1/128"	105-2008	405-2008
0-300mm/8"	0.05mm/1/128"	105-3008	405-3008

Metric Only		Carbon Steel	Stainless Steel
Range	Grad.	Model No.	Model No.
0-150mm	0.02mm	105-1502	405-1502
0-200mm	0.02mm	105-2002	405-2002
0-300mm	0.02mm	105-3002	405-3002
0-150mm	0.05mm	105-1505	405-1505
0-200mm	0.05mm	105-2005	405-2005
0-300mm	0.05mm	105-3005	405-3005

Type 3, with Fine Adjustment

- With up scriber jaws.

- With Circular inside jaws.
- 2 way measurement.
- Made of High quality Tool Steel.



Metric & Inch		Jaw	
Range	Graduations	Length	Model No.
0-200mm/8"	0.02mm/0.001"	60mm	102-1202
0-200mm/8"	0.02mm/0.001"	90mm	102-1203
0-300mm/12"	0.02mm/0.001"	60mm	102-1302
0-300mm/12"	0.02mm/0.001"	90mm	102-1303
0-200mm/8"	0.05mm/1/128"	60mm	102-1205
0-200mm/8"	0.05mm/1/128"	90mm	102-1206
0-300mm/12"	0.05mm/1/128"	60mm	102-1305
0-300mm/12"	0.05mm/1/128"	90mm	102-1306

Metric Only		Jaw	
Range	Grad.	Length	Model No.
0-200mm	0.02mm	60mm	102-0202
0-200mm	0.02mm	90mm	102-0203
0-300mm	0.02mm	60mm	102-0302
0-300mm	0.02mm	90mm	102-0303
0-200mm	0.05mm	60mm	102-0205
0-200mm	0.05mm	90mm	102-0206
0-300mm	0.05mm	60mm	102-0305
0-300mm	0.05mm	90mm	102-0306

Measuring Tools

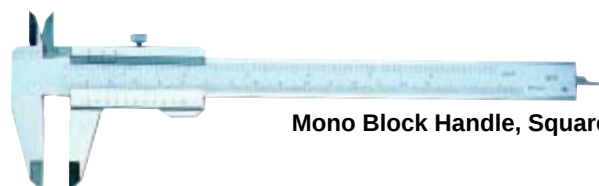


MONO-BLOCK VERNIER CALIPERS

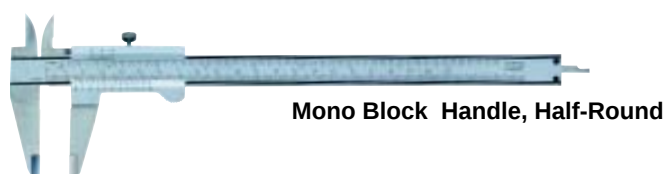
Mono-Block with Upper Screw Lock



Rivet Half-Round Handle



Mono Block Handle, Square



Mono Block Handle, Half-Round

- 4 Way measurement.
- Made of Stainless Steel.

Range	Graduations	Rivet Half-Round Handle Model No.	Mono Block Square Handle Model No.	Mono Block Half-Round Handle Model No.
0-100mm	0.02mm	817-0712		
0-150mm	0.02mm	817-0802	817-0902	817-4002
0-200mm	0.02mm	817-0822	817-0922	817-4022
0-300mm	0.02mm	817-0832		
0-70mm	0.05mm	817-0705		
0-100mm	0.05mm	817-0715		
0-150mm	0.05mm	817-0805	817-0905	817-4005
0-200mm	0.05mm	817-0825	817-0925	817-4025
0-300mm	0.05mm	817-0835		
0-150mm/6"	0.02mm/0.001"	817-0801	817-0901	817-4001
0-200mm/8"	0.02mm/0.001"	817-0821	817-0921	817-4021
0-300mm/12"	0.02mm/0.001"	817-0831		
0-150mm/6"	0.05mm/1/128"	817-0808	817-0908	817-4008
0-200mm/8"	0.05mm/1/128"	817-0828	817-0928	817-4028
0-300mm/12"	0.05mm/1/128"	817-0838		

Mono-Block, with Under Screw Lock

Made of Stainless Steel



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

Mono-Block, with Screw Lock

- 2 Way measurement.
- Made of high quality tool Steel.



Range	Graduations	Carbon Steel
0-200mm	0.02mm	827-0202
0-200mm	0.05mm	827-0205



Mono-Block, with Plane Looking

- Made of stainless steel.
- 4 way measurement.

Range	0.02mm/0.001" Model No.	0.05mm/1/128" Model No.
0-150mm/6"	817-1501	817-1508
0-200mm/8"	817-2001	817-2008
0-300mm/12"	817-3001	817-3008

Range	0.02mm Model No.	0.05mm Model No.
0-150mm	817-1502	817-1505
0-200mm	817-2002	817-2005
0-300mm	817-3002	817-3005

Mono-Block, with Roll-wheel

Made of Stainless Steel



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



Measuring Tools

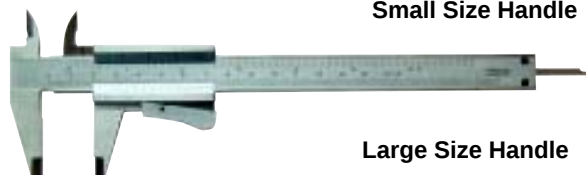
MONO-BLOCK VERNIER CALIPERS continued

Mono-Block with Auto Clamp

- 4 Way measurement.
- Made of Stainless Steel.



Small Size Handle



Large Size Handle

Range	Graduation	Large Size Handle	Small Size Handle
		Model No.	Model No.
0-150mm	0.02mm	818-0152	818-1152
0-200mm	0.02mm	818-0202	818-1202
0-300mm	0.02mm	818-0302	
0-150mm	0.05mm	818-0155	818-1155
0-200mm	0.05mm	818-0205	818-1205
0-300mm	0.05mm	818-0305	
0-150mm	0.02mm/0.001"	818-0151	818-1151
0-200mm	0.02mm/0.001"	818-0201	818-1201
0-300mm	0.02mm/0.001"	818-0301	
0-150mm	0.05mm/1/128"	818-0158	818-1158
0-200mm	0.05mm/1/128"	818-0208	818-1208
0-300mm	0.05mm/1/128"	818-0308	

Mono-Block with Auto Clamp, Left Hand

Made of Stainless Steel



Range	Graduation	Model No.
150mm/6"	0.05mm/1/128"	818-5006
150mm/6"	0.02mm/0.001"	818-5106

Mono-Block, Self-locking

Made of Stainless Steel

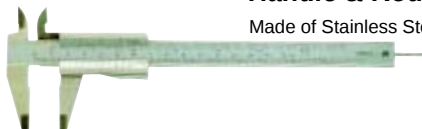


Range	Graduations	Model No.
150mm	0.02mm	818-2152
150mm	0.05mm	818-2155
150mm/6"	0.02mm/0.001"	818-2151
150mm/6"	0.05mm/1/128"	818-2158

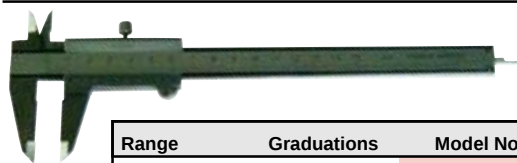
Mono-Block, Self-locking with Small Lock

Handle & Round Depth Bar

Made of Stainless Steel



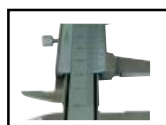
Range	Graduations	Model No.
150mm	0.02mm	818-3152
150mm	0.05mm	818-3155
150mm/6"	0.02mm/1/0.001"	818-3151
150mm/6"	0.05mm/1/128"	818-3158



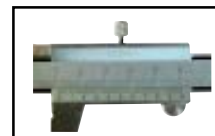
Parallexe Free Mono-Block

Made of Stainless Steel

Range	Graduations	Model No.
0-150mm	0.02mm	815-1901
0-150mm	0.05mm	815-1902
0-150mm/6"	0.02mm/0.001"	815-1905
0-150mm/6"	0.05mm/1/128"	815-1908



Parallexe Free



Vernier

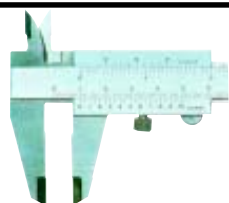
PARALLEX FREE CALIPER

Mono-Block Type

Range	Graduations	Screw Lock Model No.
0-150mm	0.02mm	815-1702
0-150mm	0.05mm	815-1705
0-150mm/6"	0.02mm/0.001"	815-1701
0-150mm/6"	0.05mm/1/128"	815-1708

Mono-Block & Double Prism Type

Range	Graduations	Screw Lock Model No.
0-150mm	0.02mm	815-1802
0-150mm	0.05mm	815-1805
0-150mm/6"	0.02mm/0.001"	815-1801
0-150mm/6"	0.05mm/1/128"	815-1808



- Made of Stainless Steel.
- 4 way measurement.

Basic Model

Range	Graduations	Auto Clamp Model No.	Screw Lock Model No.
0-150mm	0.02mm	815-1602	815-1502
0-150mm	0.05mm	815-1605	815-1505
0-150mm/6"	0.02mm/0.001"	815-1601	815-1501
0-150mm/6"	0.05mm/1/128"	815-1608	815-1508





SPECIALTY VERNIER CALIPERS

With Points

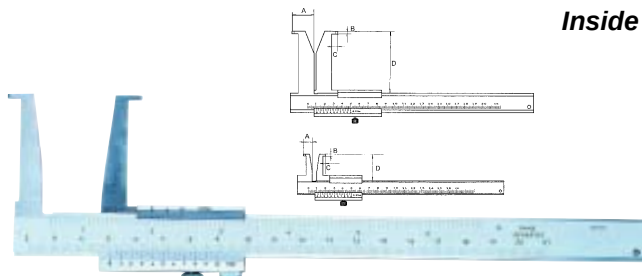
- Made of Stainless Steel.



Range	Graduation	Length of Jaws	Model No.
0-60mm	0.1mm	55	610-5501
0-60mm	0.1mm	80	610-5502
0-90mm	0.1mm	120	610-5503

Inside Groove Vernier Caliper

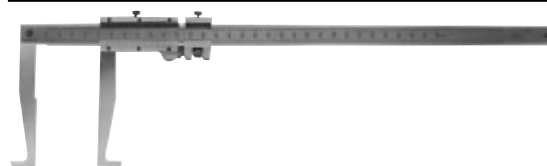
- Mono-Block.
- Made of stainless steel.
- With upper Jaws.



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

For Inside Groove Measurements

- Prolongation Jaws.

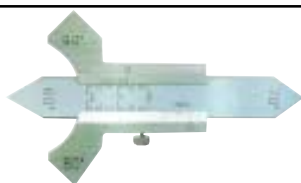


Range	Graduations	Size of Jaw	Model No.
40-340mm/0-300mm	0.02mm	95x40mm	610-6302
60-560mm/0-500mm	0.02mm	150x60mm	610-6502
40-340mm/0-300mm	0.05mm	95x40mm	610-6305
60-560mm/0-500mm	0.05mm	150x60mm	610-6505

Precision Welding Seam Gage

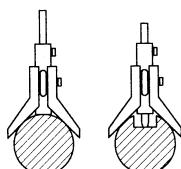
Model No. 102-5500

- Angles of 60°, 70°, 80° and 90°
- Reading 1/10mm
- Made of stainless steel.



Spline Gages

Made of Stainless Steel



Range	Graduation	Model 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

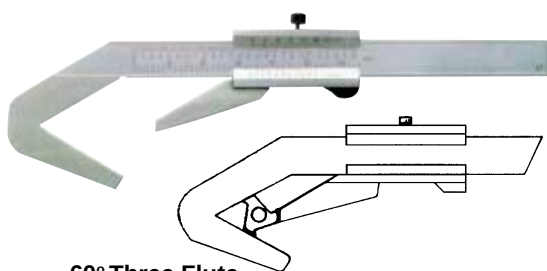
V-Measuring Face Vernier Caliper

60° Three Flute

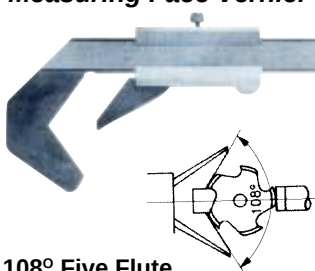
Range	Graduation	Model No.
4-40mm	0.05mm	102-2040
20-75mm	0.05mm	102-2075

108° Five Flute

Range	Graduation	Model No.
1-40mm	0.05mm	102-2140



60° Three Flute



108° Five Flute

Electronic Digital V-Measuring Face Vernier Caliper



60° Three Flute

	Graduation	Model No.
4-40mm	0.02mm	102-2240
20-75mm	0.02mm	102-2275

108° Five Flute

Range	Graduation	Model No.
1-40mm	0.02mm	102-2340



Measuring Tools

SPECIALTY VERNIER CALIPERS

T- Type Marking Vernier Caliper



Range	Graduation	with Fine Adjustment Model No.	without Fine Adjustment Model No.
0-150mm	0.05mm	102-3150	102-3151
0-250mm	0.05mm	102-3250	102-3251
0-300mm	0.05mm	102-3300	102-3301
0-400mm	0.05mm	102-3400	102-3401
0-500mm	0.05mm	102-3500	102-3501

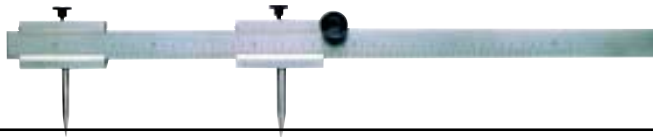
Marking Vernier Caliper



Range	Graduation	Model No.
0-200mm	0.05mm	102-4200
0-250mm	0.05mm	102-4250
0-300mm	0.05mm	102-4300
0-400mm	0.05mm	102-4400
0-500mm	0.05mm	102-4500

Steel Marking Gages with Double Needles

Made of Stainless Steel



Range	Graduation	Model No.
300mm	0.1mm	102-9012
500mm	0.1mm	102-9020
1000mm	0.1mm	102-9040

Marking Gages



- Flat pattern.
- Hardened lay-out edge.

Range	Stainless Steel Model No.	Carbon Steel Model No.
200mm	102-5200	102-5201
250mm	102-5250	102-5251
300mm	102-5300	102-5301

Range	Stainless Steel Model No.	Carbon Steel Model No.
8"	102-5008	102-5009
10"	102-5010	102-5011
12"	102-5012	102-5013

Steel Marking Gages with Round Head



Range	Graduation	with Fine Adjustment Model No.	without Fine Adjustment Model No.
200mm	0.1mm	102-7608	102-7200
300mm	0.1mm	102-7612	102-7300
400mm	0.1mm	102-7616	102-7400
500mm	0.1mm	102-7620	102-7500

Steel Marking Gages with Square Head



Range	Graduation	with Fine Adjustment Model No.	without Fine Adjustment Model No.
200mm	0.1mm	102-8200	102-8008
300mm	0.1mm	102-8300	102-8012
400mm	0.1mm	102-8400	102-8016
500mm	0.1mm	102-8500	102-8020

Marking Gages

Compass Type

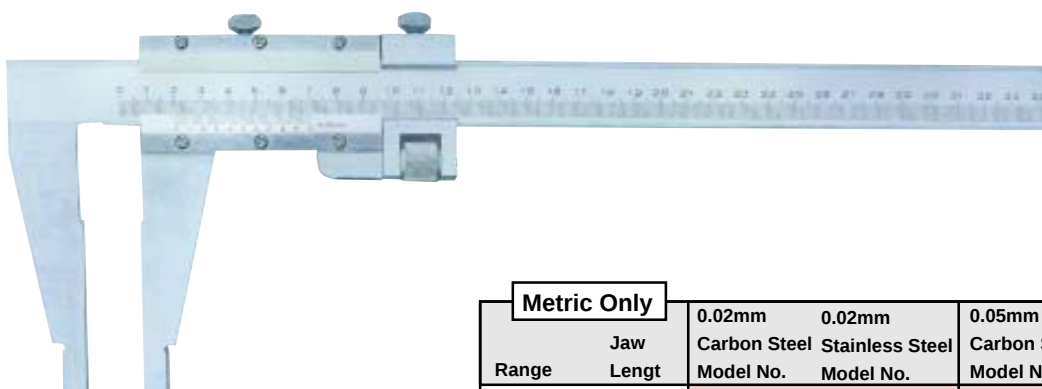


Range	Graduation	with steel jaw Model No.	with carbide jaw Model No.
150mm	0.1mm	102-6150	102-6450
200mm	0.1mm	102-6200	102-6500
250mm	0.1mm	102-6250	102-6550
300mm	0.1mm	102-6300	102-6600



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.

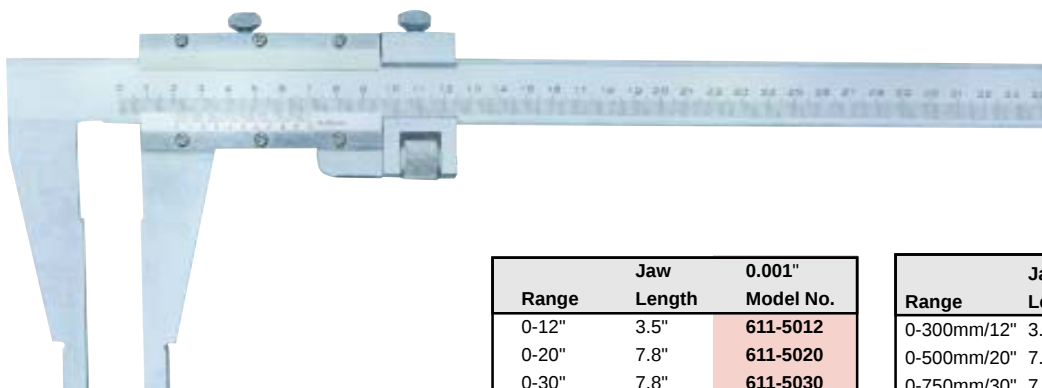
Remark: * 7" Jaw Length

Metric Only		0.02mm	0.02mm	0.05mm	0.05mm
Range	Jaw Length	Carbon Steel Model No.	Stainless Steel Model No.	Carbon Steel Model No.	Stainless Steel Model No.
0-300mm	75mm	611-5305	611-5405	611-5306	611-5406
0-450mm	100mm	611-5310	611-5410	611-5311	611-5411
0-500mm	100mm	611-5315	611-5415	611-5316	611-5416
0-600mm	100mm	611-5320	611-5420	611-5321	611-5421
0-1000mm	125mm	611-5325	611-5425	611-5326	611-5426
0-1500mm	200mm	611-5330	611-5430	611-5331	611-5431
0-2000mm	200mm	611-5335	611-5435	611-5336	611-5436

		Inch Only		Metric & Inch		Inch & Metric		
Range	Jaw Length	0.001" Carbon Steel Model No.	0.001" Stainless Steel Model No.	0.02mm/0.001" Carbon Steel Model No.	0.02mm/0.001" Stainless Steel Model No.	0.001"/.02mm Carbon Steel Model No.	0.001"/.02mm Stainless Steel Model No.	0.001"/.001" Carbon Steel Model No.
0-12"	3"	611-5212	611-5112	611-5812	611-5712	611-5612	611-5512	
0-18"	4"	611-5218	611-5118	611-5818	611-5718	611-5618	611-5518	611-5918
0-20"	4"	611-5220	611-5120	611-5820	611-5720	611-5620	611-5520	
0-24"	4"	611-5224	611-5124	611-5824	611-5724	611-5624	611-5524	611-5924
0-40"	5"	611-5240	611-5140	611-5840	611-5740	611-5640	611-5540	611-5940
0-60"	8"	*611-5260	*611-5160	611-5860	*611-5760	611-5660	611-5560	611-5960
0-80"	8"	*611-5280		611-5880	*611-5780	611-5680	611-5580	611-5980
0-40"	6-1/2"					611-5541	611-5941	

HEAVY DUTY VERNIER CALIPERS

Long Jaws



Range	Jaw Length	0.001" Model No.
0-12"	3.5"	611-5012
0-20"	7.8"	611-5020
0-30"	7.8"	611-5030
0-40"	7.8"	611-5040

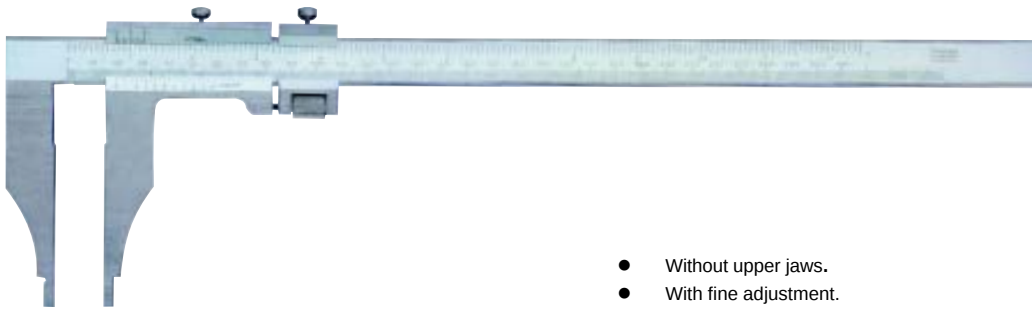
Range	Jaw Length	0.02mm/0.001" Model No.
0-300mm/12"	3.5"	611-6012
0-500mm/20"	7.8"	611-6020
0-750mm/30"	7.8"	611-6030
0-1000mm/40"	7.8"	611-6040



Measuring Tools

HEAVY DUTY VERNIER CALIPERS

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



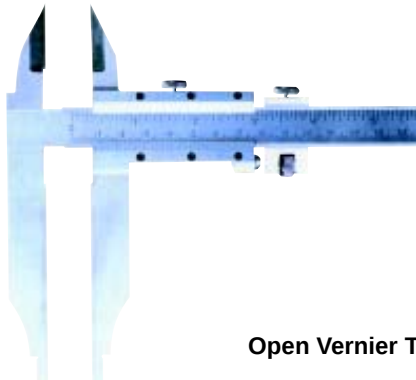
- Without upper jaws.
- With fine adjustment.
- Made of carbon steel or stainless steel

Metric Only					Metric & Inch		0.02mm/0.001" 0.02mm/0.001"		0.05mm/1/128" 0.05mm/1/128"	
Range	0.02mm		0.05mm		Range		Carbon Steel	Stainless Steel	Carbon Steel	Stainless Steel
	Carbon Steel	Stainless Steel	Carbon Steel	Stainless Steel			Model No.	Model No.	Model No.	Model No.
0-450mm	611-0204	611-1204	611-0504	611-1504	0-450mm/18"		611-0218	611-1218	611-0518	611-1518
0-500mm	611-0205	611-1205	611-0505	611-1505	0-500mm/20"		611-0220	611-1220	611-0520	611-1520
0-600mm	611-0206	611-1206	611-0506	611-1506	0-600mm/24"		611-0224	611-1224	611-0524	611-1524
0-1000mm	611-0210	611-1210	611-0510	611-1510	0-800mm/32"		611-0232	611-1232	611-0532	611-1532
					0-1000mm/40"		611-0240	611-1240	611-0540	611-1540

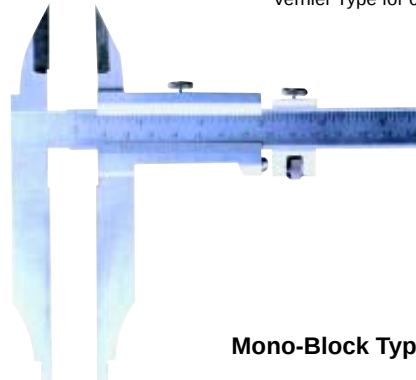
HEAVY DUTY VERNIER CALIPERS

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

Metric Only						Metric & Inch					
Range	Jaw Length	Open Vernier		Mono-Block		Range	Jaw Length	Open Vernier		Mono-Block	
		.02mm	.05mm	.02mm	.05mm			0.02mm/0.001"	0.05mm/1/128"	0.02mm/0.001"	0.05mm/1/128"
		Model No.	Model No.	Model No.	Model No.			Model No.	Model No.	Model No.	Model No.
0-400mm	100mm	610-0162	610-0165	610-2162	610-2165	0-400mm/16"	100mm	610-1162	610-1165	610-3162	610-3165
0-450mm	100mm	610-0182	610-0185	610-2182	610-2185	0-450mm/18"	100mm	610-1182	610-1185	610-3182	610-3185
0-500mm	100mm	610-0202	610-0205	610-2202	610-2205	0-500mm/20"	100mm	610-1202	610-1205	610-3202	610-3205
0-500mm	150mm	610-0203	610-0206	610-2203	610-2206	0-500mm/20"	150mm	610-1203	610-1206	610-3203	610-3206
0-600mm	100mm	610-0242	610-0245	610-2242	610-2245	0-600mm/24"	100mm	610-1242	610-1245	610-3242	610-3245
0-600mm	150mm	610-0243	610-0246	610-2243	610-2246	0-600mm/24"	150mm	610-1243	610-1246	610-3243	610-3246
0-750mm	150mm	610-0302	610-0305	610-2302	610-2305	0-750mm/30"	150mm	610-1302	610-1305	610-3302	610-3305
0-1000mm	150mm	610-0402	610-0405	610-2402	610-2405	0-1000mm/40"	150mm	610-1402	610-1405	610-3402	610-3405
0-1500mm	200mm	610-0602	610-0605	610-2602	610-2605	0-1500mm/60"	200mm	610-1602	610-1605	610-3602	610-3605
0-2000mm	200mm	610-0802	610-0805	610-2802	610-2805	0-2000mm/80"	200mm	610-1802	610-1805	610-3802	610-3805

Measuring Tools



DIAL CALIPERS

Inch White Face



Range	Graduations	0-100 Revolution Carbon Steel	0-100 Revolution Stainless Steel	0-100-0 Revolution Carbon Steel	0-100-0 Revolution Stainless Steel
		Model No.	Model No.	Model No.	Model No.
0-4"	0.001"	10W-C004	10W-S004	20W-C004	20W-S004
0-6"	0.001"	10W-C006	10W-S006	20W-C006	20W-S006
0-8"	0.001"	10W-C008	10W-S008	20W-C008	20W-S008
0-12"	0.001"	10W-C012	10W-S012	20W-C012	20W-S012
0-6"/150mm	0.001"/0.01mm	10W-C106	10W-S106	20W-C106	20W-S106
0-8"/200mm	0.001"/0.01mm	10W-C108	10W-S108	20W-C108	20W-S108

Inch Black Face



Range	Graduations	0-100 Revolution Carbon Steel	0-100 Revolution Stainless Steel	0-100-0 Revolution Carbon Steel	0-100-0 Revolution Stainless Steel
		Model No.	Model No.	Model No.	Model No.
0-4"	0.001"	10B-C004	10B-S004	20B-C004	20B-S004
0-6"	0.001"	10B-C006	10B-S006	20B-C006	20B-S006
0-8"	0.001"	10B-C008	10B-S008	20B-C008	20B-S008
0-12"	0.001"	10B-C012	10B-S012	20B-C012	20B-S012
0-6"/150mm	0.001"/0.01mm	10B-C106	10B-S106	20B-C106	20B-S106
0-8"/200mm	0.001"/0.01mm	10B-C108	10B-S108	20B-C108	20B-S108

Metric White Face



Range	0.01mm Model No.	0.02mm Model No.	0.05mm Model No.
0-100mm		20W-S210	20W-S510
0-150mm	20W-S115	20W-S215	20W-S515
0-200mm	20W-S120	20W-S220	20W-S520
0-300mm		20W-S230	20W-S530

Metric Black Face



Range	0.01mm Model No.	0.02mm Model No.	0.05mm Model No.
0-100mm		20B-S210	20B-S510
0-150mm	20B-S115	20B-S215	20B-S515
0-200mm	20B-S120	20B-S220	20B-S520
0-300mm		20B-S230	20B-S530

Shock & Dust Proof

Stainless Steel

Inch		
Range	Graduation	Model No.
0-6"	0.001"	102-0006
0-8"	0.001"	102-0008
0-12"	0.001"	102-0012

Metric		
Range	0.01mm Model No.	0.02mm Model No.
0-150mm	102-0115	102-0215
0-200mm	102-0120	102-0220
0-300mm	102-0130	102-0230

Inch & Metric in One Dial Indicator

Stainless Steel



Range	Graduation	Model No.
0-6"/0-150mm	0.001"/0.02mm	10W-1506
0-8"/0-200mm	0.001"/0.02mm	10W-2008
0-12"/0-300mm	0.001"/0.02mm	10W-3012



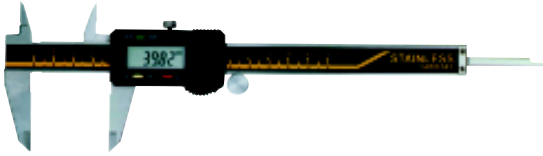
Measuring Tools

As for color and style of Digital Caliper Stickers ,
Please see INSIDE BACK COVER

DIGITAL CALIPERS

Auto ON/OFF

- Made of Stainless Steel.
- Graduation: 0.01mm/0.0005"
- 4 Way measurement.



Range	Graduation	With Roller Model No.	Without Roller Model No.	Large LCD Model No.
150mm/6"	0.01mm/0.0005"	101-0150	101-0153	101-0152
200mm/8"	0.01mm/0.0005"	101-0200	101-0203	101-0202
300mm/12"	0.01mm/0.0005"	101-0300	101-0303	101-0302

With Carbide Tipped Measuring Faces.



Range	Graduation	Jaw Length	Model No.
150mm/6"	0.01mm/0.0005"	40mm	101-3406
200mm/8"	0.01mm/0.0005"	50mm	101-3408
300mm/12"	0.01mm/0.0005"	60mm	101-3412

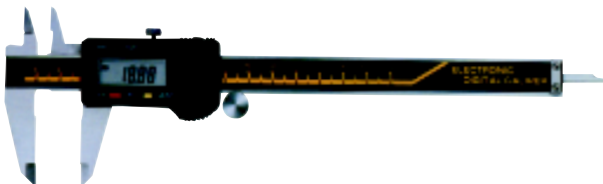
With Fine Adjustment



Range	Graduation	Jaw Length	Open Vernier Model No.	Close Vernier Model No.
150mm/6"	0.01mm/0.0005"	40mm	101-3206	101-3306
200mm/8"	0.01mm/0.0005"	50mm	101-3208	101-3308
300mm/12"	0.01mm/0.0005"	60mm	101-3212	101-3312

With Same Direction Upper Jaws

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



Range	Graduation	Model No.
150mm/6"	0.01mm/0.0005"	101-3906
200mm/8"	0.01mm/0.0005"	101-3908
300mm/12"	0.01mm/0.0005"	101-3912

With Round Depth Bar



Range	Graduation	Jaw Length	Open Vernier Model No.	Close Vernier Model No.
150mm/6"	0.01mm/0.0005"	40mm	101-2806	101-2906
200mm/8"	0.01mm/0.0005"	50mm	101-2808	101-2908
300mm/12"	0.01mm/0.0005"	60mm	101-2812	101-2912

Pointed Jaw Type

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



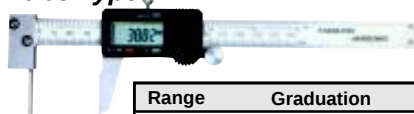
Range	Graduation	Jaw Length	Model No.
100mm/4"	0.01mm/0.0005"	30mm	101-4100
150mm/6"	0.01mm/0.0005"	40mm	101-4150
200mm/8"	0.01mm/0.0005"	50mm	101-4200
300mm/12"	0.01mm/0.0005"	60mm	101-4300

Measuring Tools



As for color and style of Digital Caliper Stickers ,
Please see INSIDE BACK COVER

Tube Type

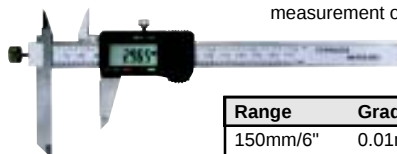


Range	Graduation	Model No.
150mm/6"	0.01mm/.0005"	101-3150
200mm/8"	0.01mm/.0005"	101-3200
300mm/12"	0.01mm/.0005"	101-3300
500mm/20"	0.01mm/.0005"	101-3500

DIGITAL CALIPERS

Jaw Offset Type

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



Range	Graduation	Jaw Size	Model No.
150mm/6"	0.01mm/.0005"	40x110mm	101-5150
200mm/8"	0.01mm/.0005"	50x120mm	101-5200
300mm/12"	0.01mm/.0005"	60x130mm	101-5300
500mm/20"	0.01mm/.0005"	100x210mm	101-5500

Extra Large LCD Left Hand Using



150mm/6"X0.01mm/0.0005"

Model No. 101-3536

Plate Anvil Type



With pushing power limited device.

To measure the half-soft board
(foamed plastic, sponge,
wooden board)

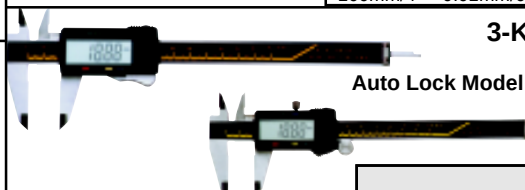
Range	Graduation	Jaw Length	Plate Dia.	Model No.
50mm/2"	0.01mm/0.0005"	100mm	20mm	101-4406
80mm/3.2"	0.01mm/0.0005"	150mm	30mm	101-4408
100mm/4"	0.01mm/0.0005"	200mm	50mm	101-4412



Welding Gage

Range	Graduation	Model No.
12.5mm/0.5"	0.01mm/0.0005"	101-5600
60°, 70°, 80°, 90°		

3-Key Type Extra Large LCD



Auto Lock Model

Basic Model

Range	Graduation	Basic Model No.	Auto Lock Model No.
150mm	0.01mm/0.0005"	101-3526	101-3546
200mm	0.01mm/0.0005"	101-3528	101-3548
300mm	0.01mm/0.0005"	101-3532	101-3552

WATER RESISTANT DIGITAL CALIPER



"IP54"



"IP65"

Range	Graduation	ACCURACY	IP65		IP54	IP67
			Black Cover Model No.	Silver Cover Model No.		
150mm/6"	0.01mm/0.0005"	±0.02mm	101-8006	101-8106	101-8206	101-8306
200mm/8"	0.01mm/0.0005"	±0.02mm	101-8008	101-8108	101-8208	101-8308
300mm/12"	0.01mm/0.0005"	±0.02mm	101-8012	101-8112	101-8212	101-8312

DIGITAL CALIPERS

3-Key Type



Popular

- Three-key type : on/off Key, Inch/mm Key, Zero Key.
- Manual power on/off.

- Inch/mm conversion (0.01mm/0.0005").
- Zero setting at any position.
- SPC out put.

Range	Jaw Length	Open vernier Close Vernier	
		Model No.	Model 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



Measuring Tools

As for color and style of Digital Caliper Stickers, Please see INSIDE BACK COVER

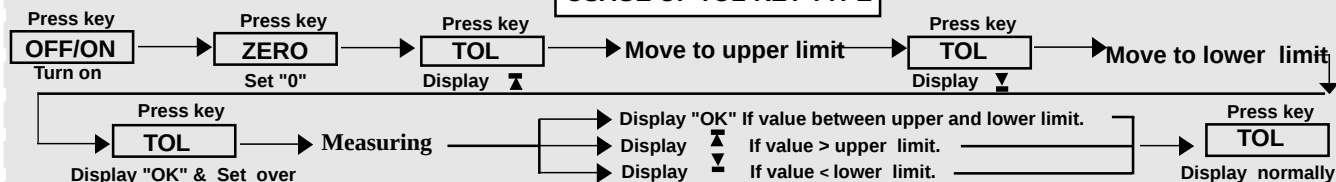
4-KEY TYPE DIGITAL CALIPERS

TOL-KEY TYPE

- Four-key type : TOL- key, on/off Key, Inch/mm Key, Zero Key.
- Tolerance button, enter high/low dimensional limits-out of limits & will FastZero display.
- Same features as Basic Model.

Range	Jaw Length	Model No.	Extra Large LCD Model No.
150mm/6"	40mm	101-4506	101-4526
200mm/8"	50mm	101-4508	101-4528
300mm/12"	60mm	101-4512	101-4532

USAGE OF TOL-KEY TYPE

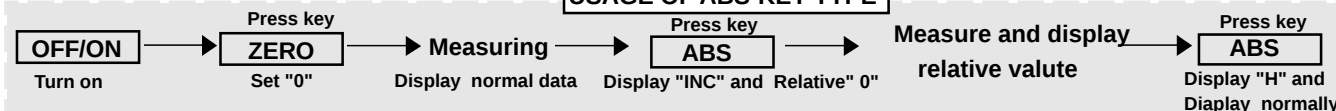


ABS-KEY TYPE

- 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.

Range	Jaw Length	Model No.	Extra Large LCD Model No.
150mm/6"	40mm	101-4706	101-4726
200mm/8"	50mm	101-4708	101-4728
300mm/12"	60mm	101-4712	101-4732

USAGE OF ABS-KEY TYPE

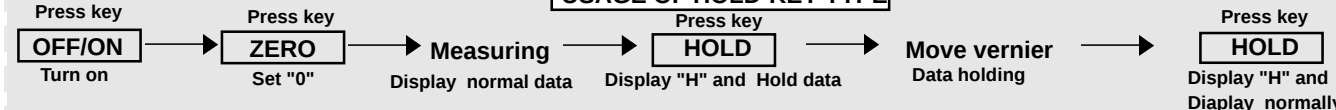


HOLD-KEY TYPE

- 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.

Range	Jaw Length	Model No.	Extra Large LCD Model No.
150mm/6"	40mm	101-4806	101-4826
200mm/8"	50mm	101-4808	101-4828
300mm/12"	60mm	101-4812	101-4832

USAGE OF HOLD-KEY TYPE

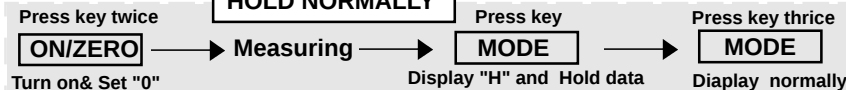


MODE-KEY TYPE

- Four-key type : MODE-key,
- Mode button, hold peak" maximum or minimum measurements and recall from memory.

Range	Jaw Length	Model No.	Extra Large LCD Model No.
150mm/6"	40mm	101-4606	101-4626
200mm/8"	50mm	101-4608	101-4628
300mm/12"	60mm	101-4612	101-4632

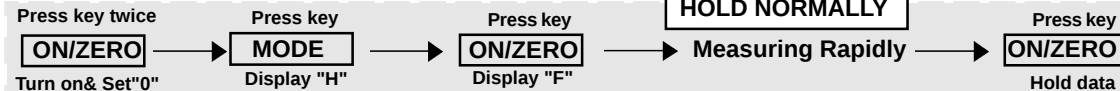
HOLD NORMALLY



USAGE

O F
MODE-KEY TYPE

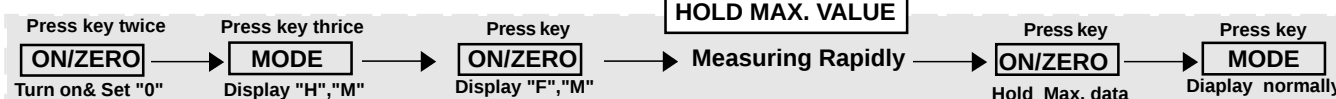
HOLD NORMALLY



HOLD MIN. VALUE



HOLD MAX. VALUE



Measuring Tools



As for color and style of Digital Caliper Stickers ,
Please see INSIDE BACK COVER

DIGITAL CALIPERS

High Accuracy Type

- Manual power on/off, zero setting at any position.
- Absolute or relative measurement
- Data output
- Power supply :1.5V button battery
- Prompt displays when the voltage is too low to work.

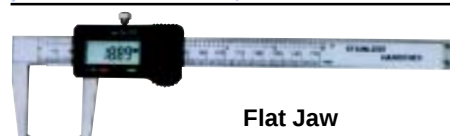


Range	Resolution	Jaw Length	Model No.
150mm/6"	0.005mm/0.0002"	40mm	101-3006
200mm/8"	0.005mm/0.0002"	50mm	101-3008
300mm/12"	0.005mm/0.0002"	60mm	101-3012

Arc Outside Type



Range	Graduation	Model No.
R3-150mm	0.01mm/0.0005"	101-5700



Flat Jaw

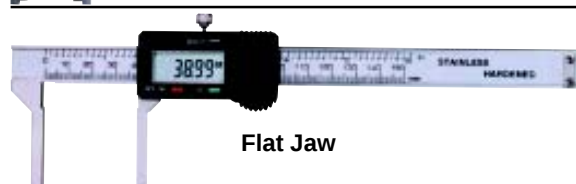


Cylinder Jaw

Outside Groove Type

Easy to measure the diameter of outside groove

Range	Graduation	Jaw Length	With Flat Jaw Model No.	With Cylinder Jaw Model No.
150mm/6"	0.01mm/0.0005"	40mm	101-1150	101-1606
200mm/8"	0.01mm/0.0005"	50mm	101-1200	101-1608
300mm/12"	0.01mm/0.0005"	60mm	101-1300	101-1612
500mm/20"	0.01mm/0.0005"	100mm	101-1500	101-1620



Flat Jaw



Cylinder Jaw

Inside Groove Type

Easy to measure the diameter of inside groove

Range	Graduation	Jaw Length	With Flat Jaw Model No.	With Cylinder Jaw Model No.
150mm/6"	0.01mm/0.0005"	40mm	101-2150	101-2606
200mm/8"	0.01mm/0.0005"	50mm	101-2200	101-2608
300mm/12"	0.01mm/0.0005"	60mm	101-2300	101-2612
500mm/20"	0.01mm/0.0005"	100mm	101-2500	101-2620

Inside Groove Type with Small Point Jaws



Range	Graduation	Model No.
125mm/12"	0.01mm/0.0005"	101-2705
150mm/6"	0.01mm/0.0005"	101-2706
200mm/8"	0.01mm/0.0005"	101-2708

Easy to measure the diameter of inside groove

Center Distance Type, with Awl Anvils



Easy measurement solution of hole center to hole center
Diameter of holes are between 1mm and 10mm

Range	Graduation	Model No.
5mm/0.2"-150mm/6"	0.01mm/0.0005"	101-1705
5mm/0.2"-200mm/8"	0.01mm/0.0005"	101-1706
5mm/0.2"-300mm/12"	0.01mm/0.0005"	101-1708

Mini Digital Thickness gage



Range	Graduation	Model No.
25mm/1"	0.01mm/0.0005"	101-5610

Digital Thickness Gage Horizontal type



Range	Graduation	Model No.
12mm/0.5"	0.01mm/0.0005"	101-5605



Measuring Tools

As for color and style of Digital Caliper Stickers , **DIGITAL CALIPERS**
Please see INSIDE BACK COVER

Knife Edge, Long Jaw, Inside Measuring



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

Heavy Duty Type

With Fine Adjustment & External Upper Jaws



- Inch/mm conversion (0.01mm/0.0005").
- Manual power on/off.
- Zero setting at any position.
- SPC out put.

60-90 mm & 250mm Jaw

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

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



Heavy Duty Type

With Fine Adjustment

- Manual power on/off.
- Inch/mm conversion (0.01mm/0.0005").
- Zero setting at any position.
- Data hold function.
- Fast tracing of maximum or minimum value.
- SPC out put.

	75mm Jaw Length	90mm Jaw Length	100mm Jaw Length	150mm Jaw Length	200mm Jaw Length	250mm Jaw Length	300mm Jaw Length
Range	Model No.	Model No.	Model No.	Model No.	Model No.	Model No.	Model No.
300mm/12"	100-5031	100-5032					
500mm/20"			100-5050	100-5051	100-5052	100-5053	100-5063
600mm/24"			100-5060	100-5061	100-5062	100-5064	100-5102
1000mm/40"				100-5100	100-5101	100-5103	100-5152
1500mm/60"				100-5150	100-5151	100-5153	100-5202
2000mm/80"					100-5200	100-5201	



With Hook



Without Hook

DIGITAL DEPTH GAGE

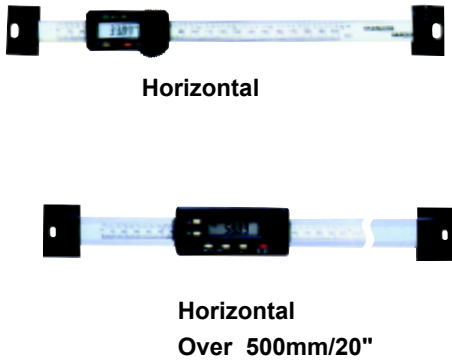
Range	Graduation	Base	Without Hook		With Hook	
			Three key Model No.	Auto on/off Model No.	Three key Model No.	Auto on/off Model No.
0-150mm /6"	0.01/0.0005"	100mm	110-2150	110-0150	110-3150	110-1150
0-200mm /8"	0.01/0.0005"	100mm	110-2200	110-0200	110-3200	110-1200
0-300mm/12"	0.01/0.0005"	100mm	110-2300	110-0300	110-3300	110-1300
0-500mm/20"	0.01/0.0005"	120mm	110-2500	110-0500	110-3500	110-1500
0-150mm /6"	0.01/0.0005"	150mm	110-2151	110-0151	110-3151	110-1151
0-200mm/8"	0.01/0.0005"	150mm	110-2201	110-0201	110-3201	110-1201
0-300mm/12"	0.01/0.0005"	150mm	110-2301	110-0301	110-3301	110-1301
0-500mm/20"	0.01/0.0005"	150mm	110-2501	110-0501	110-3501	110-1501
0-500mm /20"	0.01/0.0005"	200mm	110-2502	110-0502	110-3502	110-1502

Measuring Tools



DIGITAL SCALE UNITS

Horizontal or Vertical Type.



- Made of stainless steel.
- Graduation: 0.01mm/0.0005"

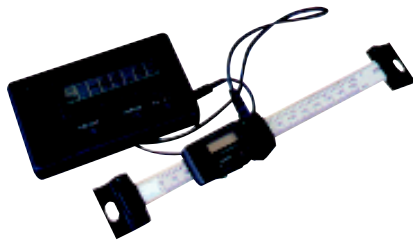
- Each specification of Vertical Scale has Predetermination Function. Horizontal Scale Units, Over 500mm/20" range, have Predetermination Function.

Range	Horizontal Reading Model No.	Vertical Reading Model No.
100mm/4"	100-1010	100-0010
150mm/6"	100-1015	100-0015
200mm/8"	100-1020	100-0020
300mm/12"	100-1030	100-0030
400mm/16"	100-1040	100-0040
450mm/18"	100-1045	100-0045

Range	Horizontal Reading Model No.	Vertical Reading Model No.
500mm/20"	100-1050	100-0050
600mm/24"	100-1060	100-0060
750mm/30"	100-1075	100-0075
800mm/32"	100-1080	100-0080
1000mm/40"	100-1100	100-0100
1500mm/60"	100-1150	100-0150
2000mm/80"	100-1200	100-0200

DIGITAL INDICATOR

For Digital Measuring Tools

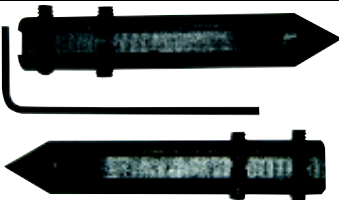


The indicator can be used on drilling, lathing, grinding, cutting, and wood working machines along with Digital Scale Units for purpose of easy operation & increasing accuracy

Digital Scale Units Not Included

- mm/Inch conversion: 0.01mm/0.001"
- Operating range: 999.99mm/39.37"s
- Center-Separation.
- On/Off Switch.
- Zero Reset.
- Magnetic Back.

Specification	LCD Model No.	LED Model No.
Three Axis(220V AC Power)	100-0002	100-0003
Three Axis(110V AC Power)	100-0004	100-0005
One Axis	100-0001	



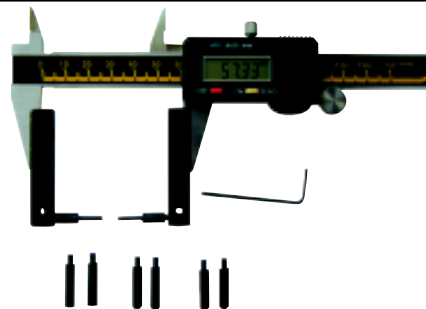
CENTERLINE GAGE SETS

- Designed for dial, vernier and digital calipers, measure centerline distance.
- Sold in pairs, these gages quickly adapt to most calipers.
- Centerline measurements read in exact figures; no adding or subtracting is required.
- The 60 degree conical probe fits snugly into holes. Takes guesswork away from center distance measurements or to an edge from a hole.
- Constructed of high quality alloy steel hardened to 50 RC, black oxide finish.
- Outside diameter and cone ground for accuracy.
- Each probe has two small holding nuts and is supplied with an allen wrench.

Description	Diameter	Length	Jaw Thickness	Model No.
For 4",6",8" calipers	0.375"	2.195"	0.155"	101-0008
For 10",12" calipers	0.500"	2.750"	0.188"	101-0012

CALIPER ACCESSORY KIT

Model No.101-0020, caliper is not included



Including a pair of:
Clamps,
ball contact points ,
point contact points ,
flat contact points,
spline contact points

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

DATA OUTPUT LINE FOR DIGITAL CALIPER

For Serial Port

Length	9 Pin Model No.	25Pin Model No.
1000mm	101-0030	101-0032
1500mm	101-0034	101-0036

BATTERIES

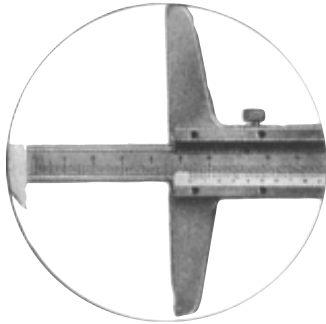
Accessory for Electronic Calipers
SR44. 1.5V, one battery for one year
Model No. 101-0000



Measuring Tools

VERNIER DEPTH GAGES

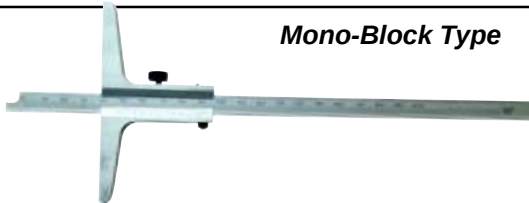
Basic Model



Inch & Metric			Without Hook		With Hook	
Range	Grad.	Base	Carbon Steel Model No.	Stainless Steel Model No.	Carbon Steel Model No.	Stainless Steel Model No.
0-6"	0.001"	3"	111-0060	112-0060		
0-8"	0.001"	4"	111-0084	112-0084	111-1084	112-1084
0-12"	0.001"	4"	111-0124	112-0124	111-1124	112-1124
0-20"	0.001"	4"	111-0140	112-0140	111-1140	112-1140
0-6"	1/128"	3"	111-0061	112-0061		
0-8"	1/128"	4"	111-0086	112-0086	111-1086	112-1086
0-12"	1/128"	4"	111-0125	112-0125	111-1125	112-1125
0-20"	1/128"	4"	111-0141	112-0141	111-1141	112-1141
0-8"/200mm	0.001"/0.02mm	4"	111-0620	112-0620	111-1620	112-1620
0-12"/300mm	0.001"/0.02mm	4"	111-0621	112-0621	111-1621	112-1621

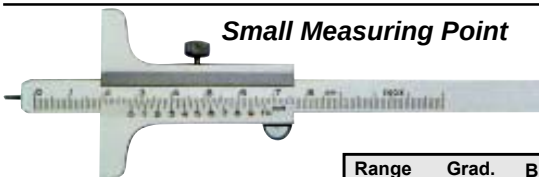
Metric Only			Without Hook		With Hook	
Range	Grad.	Base	Carbon Steel Model No.	Stainless Steel Model No.	Carbon Steel Model No.	Stainless Steel Model No.
0-150mm	0.02mm	80mm	111-0152	112-0152		
0-200mm	0.02mm	100mm	111-0202	112-0202	111-1202	112-1202
0-300mm	0.02mm	100mm	111-0302	112-0302	111-1302	112-1302
0-500mm	0.02mm	100mm	111-0502	112-0502	111-1502	112-1502
0-150mm	0.05mm	80mm	111-0155	112-0155		
0-200mm	0.05mm	100mm	111-0205	112-0205	111-1205	112-1205
0-300mm	0.05mm	100mm	111-0305	112-0305	111-1305	112-1305
0-500mm	0.05mm	100mm	111-0505	112-0505	111-1505	112-1505

Mono-Block Type



Metric Only			Carbon Steel Model No.	Stainless Steel Model No.
Range	Grad.	Base	Model No.	Model No.
0-150mm	0.02mm	80mm	111-2152	112-2152
0-200mm	0.02mm	100mm	111-2202	112-2202
0-300mm	0.02mm	100mm	111-2302	112-2302
0-300mm	0.02mm	150mm		112-2303
0-400mm	0.02mm	100mm	111-2402	112-2402
0-400mm	0.02mm	150mm		112-2403
0-500mm	0.02mm	100mm	111-2502	112-2502
0-500mm	0.02mm	150mm		112-2503
0-150mm	0.05mm	80mm	111-2155	112-2155
0-200mm	0.05mm	100mm	111-2205	112-2205
0-300mm	0.05mm	100mm	111-2305	112-2305
0-300mm	0.05mm	150mm		112-2306
0-400mm	0.05mm	100mm	111-2405	112-2405
0-400mm	0.05mm	150mm		112-2406
0-500mm	0.05mm	100mm	111-2505	112-2505
0-500mm	0.05mm	150mm		112-2506

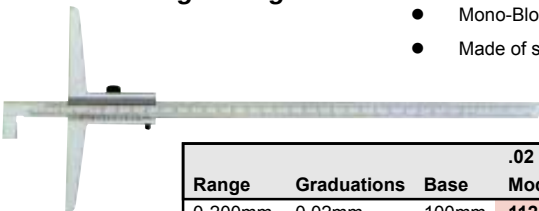
Small Measuring Point



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

Range	Grad.	Base	Model No.
0-80mm	0.05mm	50mm	112-4085
0-200mm	0.05mm	100mm	112-4205
0-300mm	0.05mm	100mm	112-4305

Two End Using & Large Base



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

Range	Graduations	Base	.02 mm	.05 mm
			Model No.	Model No.
0-200mm	0.02mm	100mm	112-5202	112-5205
0-300mm	0.02mm	150mm	112-5302	112-5305
0-400mm	0.02mm	150mm	112-5402	112-5405
0-500mm	0.02mm	150mm	112-5502	112-5505

Exchangeable Needle



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

Stainless Steel Vernier Depth Gage with Double Hook Type



Range	Base	Model No.
150x0.05	100mm	112-6150
200x0.05	100mm	112-6200
300x0.05	100mm	112-6300

Measuring Tools



PRECISION VERNIER HEIGHT GAGES



- Made of high quality tool steel.
- Including offset steel scriber, fitted case.

Metric Only		
Range	0.02mm Model No.	0.05mm Model No.
0-200mm	622-8222	622-8225
0-300mm	622-8232	622-8235
0-350mm	622-8237	622-8239
0-400mm	622-8242	622-8245
0-500mm	622-8252	622-8255
0-550mm	622-8257	622-8259
0-600mm	622-8262	622-8265
0-1000 mm	622-8312	622-8315

PRECISION ADJUSTABLE HEIGHT GAGES



- With Cam-Lock scriber mounting.
- Reading: 0.02mm/0.001".
- Include: Straight steel scriber.
Offset steel scriber.
Square holding bar.
Magnifying glass.

Metric Only		Carbon Steel	Stainless Steel
Range	Grad.	Model No.	Model No.
0-300mm	0.02mm	622-8442	621-8442
0-500mm	0.02mm	622-8444	621-8444
0-600mm	0.02mm	622-8446	621-8446
0-1000mm	0.02mm	622-8448	621-8448
0-300mm	0.05mm	622-8450	621-8450
0-500mm	0.05mm	622-8452	621-8452

Metric & Inch			Carbon Steel	Stainless Steel
Range	Graduations	Base Size	Model No.	Model No.
0-10"	0.001"	4.8x3.2"	622-8511	621-8511
0-10"/250mm	0.001"/0.02mm	3.0x4.0"	622-8510	621-8510
0-12"/300mm	0.001"/0.02mm	3.3x4.9"	622-8512	621-8512
0-18"/450mm	0.001"/0.02mm	4.7x7"	622-8518	621-8518
0-20"/500mm	0.001"/0.02mm	4.7x7"	622-8520	621-8520
0-24"/600mm	0.001"/0.02mm	4.7x7"	622-8524	621-8524
0-40"/1000mm	0.001"/0.02mm	5.9x9.9"	622-8540	621-8540

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.
- Complete with fitted case.

Range	Graduations	White Face Model No.	Black Face Model No.
0-6"	0.001"	621-7506	621-7606
0-8"	0.001"	621-7508	621-7608
0-12"	0.001"	621-7512	621-7612
0-150mm	0.01mm	621-7115	621-7215
0-200mm	0.01mm	621-7120	621-7220
0-300mm	0.01mm	621-7130	621-7230
0-150mm	0.02mm	621-7315	621-7415
0-200mm	0.02mm	621-7320	621-7420
0-300mm	0.02mm	621-7330	621-7430
150mm/6"	0.02mm/0.001"	621-7806	621-7906
200mm/8"	0.02mm/0.001"	621-7808	621-7908
300mm/12"	0.02mm/0.001"	621-7812	621-7912

ELECTRONIC DIGITAL DOUBLE BEAM HEIGHT GAGES

- Made of stainless steel.

Range	Graduation	Model No.
0-300mm/0-12"	0.001mm/0.0001"	621-8312
0-450mm/0-18"	0.001mm/0.0001"	621-8318
0-500mm/0-20"	0.01mm/0.001"	621-8320
0-600mm/0-24"	0.01mm/0.001"	621-8324



ELECTRONIC DIGITAL HEIGHT GAGES

- Switchable Inch/Metric high contrast LCD with fine adjustment device and carbide tipped scriber.
- Made of hardened steel, precision ground and micro-lapped base. Has 2000 hours battery life.
- Two standard 1.5 Volt batteries.

Ranged	Graduation	Model No.
0-12"/0-300mm	0.01mm/0.0005"	621-8390
0-24"/0-600mm	0.01mm/0.0005"	621-8394
0-20"/0-500mm	0.01mm/0.0005"	621-8395
0-40"/0-1000mm	0.01mm/0.0005"	621-8396





Measuring Tools

DOUBLE BEAM DIGITAL COUNTER HEIGHT GAGES



- 0.001" graduation, 0.1" dial reading digital counter.
- Double digital counter can be zero-set at an any height within rang by depressing zero-reset button.
- Features a large feed wheel for coarse & fine vertical adjustments.
- Carbide tipped scriber.
- Bottom surface hardened & ground.

Range	Grad.	Model No.
0-12"	0.001"	621-8412
0-18"	0.001"	621-8418
0-20"	0.001"	621-8420
0-24"	0.001"	621-8424
0-300mm	0.01mm	621-8530
0-450mm	0.01mm	621-8545
0-500mm	0.01mm	621-8550
0-600mm	0.01mm	621-8560
0-1000mm	0.01mm	621-8565

THREE BEAM DIGITAL COUNTER HEIGHT GAGES

- Made of stainless steel.



Range	Graduations	Model No.
0-32"	0.001"	621-7032
0-40"	0.001"	621-7040
0-800mm	0.01mm	621-7080
0-1000mm	0.01mm	621-7100

SURFACE GAGE



- 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.

Description	Model No.
4" & 7" Spindles	625-8550
Surface gage 4&7" with Test indicator0.03x0.0005"(625-8550&4070)	625-8555
9" & 12" Spindles	625-8560
Surface gage 9&12" with Test indicator0.03x0.0005"(625-8560&4070)	625-8565
12" & 18" Spindles	625-8570
Surface gage 12&18" with Test indicator0.03x0.0005"(625-8570&4070)	625-8575

SCRIBERS AND CLAMPS FOR HEIGHT GAGES

- Scribes with carbide tipped.

Stainless Steel

Description	Scriber Model No.	Clamp Model No.
for 150mm/6" dial height gage	621-A006	621-A106
for 200mm/8" dial height gage	621-A008	621-A108
for 300mm/12" dial height gage	621-A012	621-A112
for 300mm/12" double beam counter	621-D012	621-D112
for 450mm/18" double beam counter	621-D018	621-D118
for 600mm/24" double beam counter	621-D024	621-D124
for 1000mm/40" double beam counter	621-D040	621-D140
for 300mm/12" electronic double beam	621-E012	621-E112
for 450mm/18" electronic double beam	621-E018	621-E118
for 500mm/20" electronic double beam	621-E020	621-E120
for 600mm/24" electronic double beam	621-E024	621-E124
for 1000mm/40" electronic double beam	621-E040	621-E140
for 300mm/12" electrical digital	621-G012	621-G112
for 500mm/20" electrical digital	621-G020	621-G120
for 600mm/24" electrical digital	621-G024	621-G124
for 1000mm/40" electrical digital	621-G040	621-G140
for 800mm/32" three beam height gage	621-T032	621-T132
for 1000mm/40" three beam height gage	621-T040	621-T140
for 250mm/10" stainless steel vernier	621-V010	621-V110
for 300mm/12" stainless steel vernier	621-V012	621-V112
for 450mm/18" stainless steel vernier	621-V018	621-V118
for 500mm/20" stainless steel vernier	621-V020	621-V120
for 600mm/24" stainless steel vernier	621-V024	621-V124
for 1000mm/40" stainless steel vernier	621-V040	621-V140

Carbon Steel

Descriptions	Scriber Model No.	Clamp Model No.
for 250mm/10" carbon steel vernier	622-V010	622-V110
for 300mm/12" carbon steel vernier	622-V012	622-V112
for 450mm/18" carbon steel vernier	622-V018	622-V118
for 500mm/20" carbon steel vernier	622-V020	622-V120
for 600mm/24" carbon steel vernier	622-V024	622-V124
for 1000mm/40" carbon steel vernier	622-V040	622-V140

Measuring Tools



OUTSIDE MICROMETERS

-Ratchet Stop



Features:

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

Metric

Range	Grad.	Painted Frame Model No.	Chromed Frame Model No.
0-25mm	0.001mm	600-5025	601-5025
25-50mm	0.001mm	600-5050	601-5050
50-75mm	0.001mm	600-5075	601-5075
75-100mm	0.001mm	600-5100	601-5100
0-13mm	0.01mm		601-A013
0-25mm	0.01mm	600-4025	601-4025
25-50mm	0.01mm	600-4050	601-4050
50-75mm	0.01mm	600-4075	601-4075
75-100mm	0.01mm	600-4100	601-4100
100-125mm	0.01mm	600-4125	601-4125
125-150mm	0.01mm	600-4150	601-4150
150-175mm	0.01mm	600-4175	601-4175
175-200mm	0.01mm	600-4200	601-4200

Inch

Range	Painted Frame		Chromed Frame Plated	
	0.0001" Model No.	0.00005" Model No.	0.0001" Model No.	0.00005" Model No.
0-1/2"				
0-1"	600-0111	600-0051	601-0111	601-0051
1-2"	600-0112	600-0052	601-0112	601-0052
2-3"	600-0113	600-0053	601-0113	601-0053
3-4"	600-0114	600-0054	601-0114	601-0054
4-5"	600-0125		601-0115	
5-6"	600-0126		601-0116	
6-7"	600-0127		601-0117	
7-8"	600-0128		601-0118	
8-9"	600-0119			
9-10"	600-0210			
10-11"	600-0211			
11-12"	600-0212			

OUTSIDE MICROMETER SETS

-Ratchet Stop



Features:

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

Metric

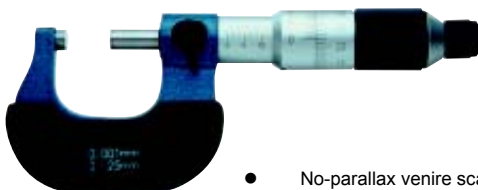
Range	Grad.	Description	Painted Frame Model No.	Chromed Frame Model No.
0-75mm	0.01mm	3pcs/set	600-1023	601-1023
0-100mm	0.01mm	4pcs/set	600-1024	601-1024
0-150mm	0.01mm	6pcs/set	600-1026	601-1026
0-200mm	0.01mm	8pcs/set	600-1028	601-1028
0-300mm	0.01mm	12pcs/set	600-1212	
100-200mm	0.01mm	4pcs/set	600-1126	
150-300mm	0.01mm	6pcs/set	600-1029	
200-300mm	0.01mm	4pcs/set	600-1129	

Inch

Range	Description	Painted Frame	Chromed Frame
		0.0001" Model No.	0.0001" Model No.
0-3"	3pcs/set	600-1013	601-1013
0-4"	4pcs/set	600-1014	601-1014
0-6"	6pcs/set	600-1016	601-1016
0-8"	8pcs/set	600-1018	601-1018
6-12"	6pcs/set	600-1019	
0-12"	12pcs/set	600-1122	

PARALLAX FREE OUTSIDE MICROMETERS

-Ratchet friction thimble.



- No-parallax venire scale.

Metric

Range	Grad.	Painted Model No.	Chrome-Plated Model No.
0-25mm	0.001mm	600-9130	601-9130
25-50mm	0.001mm	600-9131	601-9131
50-75mm	0.001mm	600-9132	601-9132
75-100mm	0.001mm	600-9133	601-9133
100-125mm	0.001mm	600-9134	601-9134
125-150mm	0.001mm	600-9135	601-9135
150-175mm	0.001mm	600-9136	601-9136
175-200mm	0.001mm	600-9137	601-9137

Inch

Range	Painted 0.0001" Model No.	Chrome-Plated 0.0001" Model No.	Chrome-Plated 0.00005" Model 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	



Measuring Tools

OUTSIDE MICROMETERS

-Ratchet Friction Thimble



Features:

- Deluxe heat insulated forged steel frame up to 6".
- Tubular steel frame (6" and up).
- Complete with standards (2" and up).
- Carbide tipped.
- The new slim thimble design is comfortable to hold.
- Small size for one hand use.

Metric

Range	Grad.	Painted Frame	Chromed Frame
		Model No.	Model No.
0-25mm	0.001mm	6V0-5025	6V1-5025
25-50mm	0.001mm	6V0-5050	6V1-5050
50-75mm	0.001mm	6V0-5075	6V1-5075
75-100mm	0.001mm	6V0-5100	6V1-5100
0-25mm	0.01mm	6V0-4025	6V1-4025
25-50mm	0.01mm	6V0-4050	6V1-4050
50-75mm	0.01mm	6V0-4075	6V1-4075
75-100mm	0.01mm	6V0-4100	6V1-4100
100-125mm	0.01mm	6V0-4125	6V1-4125
125-150mm	0.01mm	6V0-4150	6V1-4150
150-175mm	0.01mm	6V0-4175	6V1-4175
175-200mm	0.01mm	6V0-4200	6V1-4200

Inch

Range	Painted Frame		Chromed Frame	
	0.0001" Model No.	0.00005" Model No.	0.0001" Model No.	0.00005" Model No.
0-1"	6V0-0111	6V0-0051	6V1-0111	6V1-0051
1-2"	6V0-0112	6V0-0052	6V1-0112	6V1-0052
2-3"	6V0-0113	6V0-0053	6V1-0113	6V1-0053
3-4"	6V0-0114	6V0-0054	6V1-0114	6V1-0054
4-5"	6V0-0115		6V1-0115	
5-6"	6V0-0116		6V1-0116	
6-7"	6V0-0117		6V1-0117	
7-8"	6V0-0118		6V1-0118	

OUTSIDE MICROMETER SETS

-Ratchet Friction Thimble

Features:

- Ratchet and lock nut.
- Carbide faces.
- Complete with standards (2" and up)
- Fitted wood case.



Metric

Range	Grad.	Description	Painted Frame	Chromed Frame
			Model No.	Model No.
0-75mm	0.01mm	3pcs/set	6V0-1023	6V1-1023
0-100mm	0.01mm	4pcs/set	6V0-1024	6V1-1024
0-150mm	0.01mm	6pcs/set	6V0-1026	6V1-1026
0-200mm	0.01mm	8pcs/set	6V0-1028	6V1-1028
150-300mm	0.01mm	6pcs/set	6V0-1029	
0-300mm	0.01mm	12pcs/set	6V0-1212	

Inch

Range	Grad.	Description	Painted Frame	Chromed Frame
			Model No.	Model No.
0-3"	0.001"	3pcs/set	6V0-1013	6V1-1013
0-4"	0.001"	4pcs/set	6V0-1014	6V1-1014
0-6"	0.001"	6pcs/set	6V0-1016	6V1-1016
0-8"	0.001"	8pcs/set	6V0-1018	6V1-1018
6-12"	0.001"	6pcs/set	6V0-1019	
0-12"	0.001"	12pcs/set	6V0-1122	

Measuring Tools



C-TYPE OUTSIDE MICROMETERS



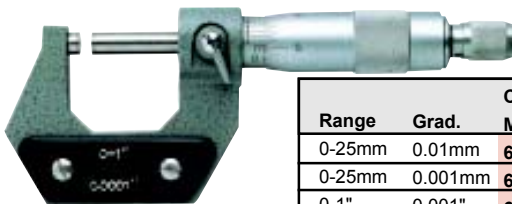
Metric			Inch		
Range	0.01mm		Range	0.0001"	
	Ratchet Stop	Ratchet Fraction Thimble		Ratchet Stop	Ratchet Fraction Thimble
0-25mm	600-C025	601-C025	0-1"	600-C011	601-C011
25-50mm	600-C050	601-C050	1-2"	600-C012	601-C012
50-75mm	600-C075	601-C075	2-3"	600-C013	601-C013
75-100mm	600-C100	601-C100	3-4"	600-C014	601-C014
100-125mm	600-C125	601-C125	4-5"	600-C015	601-C015
125-150mm	600-C150	601-C150	5-6"	600-C016	601-C016
150-175mm	600-C175	601-C175	6-7"	600-C017	601-C017
175-200mm	600-C200	601-C200	7-8"	600-C018	601-C018
200-225mm	600-C225	601-C225	8-9"	600-C019	601-C019
225-250mm	600-C250	601-C250	9-10"	600-C020	601-C020
250-275mm	600-C275	601-C275	10-11"	600-C021	601-C021
275-300mm	600-C300	601-C300	11-12"	600-C022	601-C022



Sets Complete with standards (2" and up).

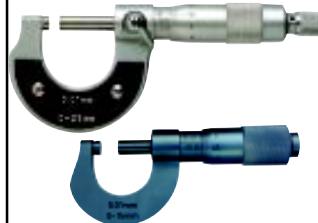
Range	Graduation	Description	Ratchet Stop Model No.	Ratchet Fraction Thimble Model No.
0-75mm	0.01mm	3pcs/set	600-C303	601-C303
0-100mm	0.01mm	4pcs/set	600-C304	601-C304
0-150mm	0.01mm	6pcs/set	600-C306	601-C306
150-300mm	0.01mm	6pcs/set	600-C308	601-C308
0-300mm	0.01mm	12pcs/set	600-C312	601-C312
0-3"	0.0001"	3pcs/set	600-C403	601-C403
0-4"	0.0001"	4pcs/set	600-C404	601-C404
0-6"	0.0001"	6pcs/set	600-C406	601-C406
6-12"	0.0001"	6pcs/set	600-C408	601-C408
0-12"	0.0001"	12pcs/set	600-C412	601-C412

B-TYPE OUTSIDE MICROMETERS



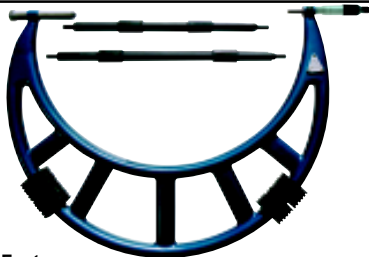
Range	Grad.	Chrom-Plated Model No.
0-25mm	0.01mm	601-B025
0-25mm	0.001mm	601-B026
0-1"	0.001"	601-B001
0-1"	0.00005"	601-B005
0-1"	0.0001"	601-B011

A-TYPE OUTSIDE MICROMETERS



Range	Grad.	Chrom-Plated Model No.
0-15mm	0.01mm	601-A013
0-25mm	0.01mm	601-A025
0-0.6"	0.001"	601-1001
0-1"	0.001"	601-A001

OUTSIDE MICROMETERS with Extension Anvil Collars



Features:

- Ratchet and lock nut.
- Extension collars: 25mm/1", 50mm/2" (within 1000mm/40")
50mm/2", 100mm/4" (over 1000mm/40")
- Carbide tipped.
- Pipe combined frame for light weight and high rigid.
- Resolution: 0.01mm, 0.0001" inch.
- Counter readout: 0.01mm, 0.001" inch

Inch		
Range	Grad.	Model No.
12-16"	0.001"	600-9901
16-20"	0.001"	600-9902
20-24"	0.001"	600-9903
24-28"	0.001"	600-9904
28-32"	0.001"	600-9905
32-36"	0.001"	600-9906
36-40"	0.001"	600-9907
40-48"	0.001"	600-9308
48-56"	0.001"	600-9309
56-64"	0.001"	600-9310
64-72"	0.001"	600-9311
72-80"	0.001"	600-9312
80-88"	0.001"	600-9313
88-96"	0.001"	600-9314
96-104"	0.001"	600-9315
104-112"	0.001"	600-9316
112-120"	0.001"	600-9317

Metric		
Range	Grad.	Model No.
300-400mm	0.01mm	600-9801
400-500mm	0.01mm	600-9802
500-600mm	0.01mm	600-9803
600-700mm	0.01mm	600-9804
700-800mm	0.01mm	600-9805
800-900mm	0.01mm	600-9806
900-1000mm	0.01mm	600-9807
1000-1200mm	0.01mm	600-9808
1200-1400mm	0.01mm	600-9809
1400-1600mm	0.01mm	600-9810
1600-1800mm	0.01mm	600-9811
1800-2000mm	0.01mm	600-9812
2000-2200mm	0.01mm	600-9813
2200-2400mm	0.01mm	600-9814
2400-2600mm	0.01mm	600-9815
2600-2800mm	0.01mm	600-9816
2800-3000mm	0.01mm	600-9817

INDICATOR MICROMETERS



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

Range	Graduation	Model No.
Inch		
0-1"	0.00005"	600-0501
1-2"	0.00005"	600-0502
Metric		
0-25mm	0.001mm	600-0511
25-50mm	0.001mm	600-0512

INDICATING SNAP MICROMETER

- Retractable anvil with a indicator for precision measurement of mass-produced parts.
- Carbide measuring faces.
- Accuracy: Micrometer: 0.003mm
Indicator: 0.001mm

Range	Resolution of micrometer head	Indicator range	Indicator resolution	Model No.
0-25mm	0.002mm	±0.04mm	0.001mm	600-0521
25-50mm	0.002mm	±0.04mm	0.001mm	600-0522
50-75mm	0.002mm	±0.04mm	0.001mm	600-0523
75-100mm	0.002mm	±0.04mm	0.001mm	600-0524





Measuring Tools

DIGITAL COUNTER OUTSIDE MICROMETERS



- Resolution: 0.01mm or 0.0001".
- Counter readout: 0.01mm or 0.001".
- Ratchet stop(friction thimble or ratchet friction thimble available).
- Carbide measuring face.
- Positive locking unit.
- Clear graduations on satin chrome finished thimble.
- Spanner wrench furnished with each micrometer.

Inch	
Range	Model No.
0-1"	600-3001
1-2"	600-3002
2-3"	600-3003
3-4"	600-3004
4-5"	600-3005
5-6"	600-3006
6-7"	600-3007
7-8"	600-3008
8-9"	600-3009
9-10"	600-3010
10-11"	600-3111
11-12"	600-3112

Metric	
Range	Model No.
0-25mm	600-3025
25-50mm	600-3050
50-75mm	600-3075
75-100mm	600-3100
100-125mm	600-3125
125-150mm	600-3150
150-175mm	600-3175
175-200mm	600-3200
200-225mm	600-3225
225-250mm	600-3250
250-275mm	600-3270
275-300mm	600-3272

μ-DIGIT COUNTER OUTSIDE MICROMETER

- High resolution mechanical digit counter for quick and error-free reading.
- Carbide measuring faces.
- Friction thimble(ratchet friction thimble)



Metric		Painted Frame	Chromed Frame
Range	Graduation	Model No.	Model No.
0-25mm	0.001mm	603-3025	603-4025
25-50mm	0.001mm	603-3050	603-4050
50-75mm	0.001mm	603-3075	603-4075
75-100mm	0.001mm	603-3100	603-4100
100-125mm	0.001mm	603-3125	603-4125
125-150mm	0.001mm	603-3150	603-4150
150-175mm	0.001mm	603-3175	603-4175
175-200mm	0.001mm	603-3200	603-4200

Inch		Painted Frame	Chromed Frame
Range	Graduation	Model No.	Model No.
0-1"	0.0001"	603-3011	603-4011
1-2"	0.0001"	603-3012	603-4012
2-3"	0.0001"	603-3013	603-4013
3-4"	0.0001"	603-3014	603-4014
4-5"	0.0001"	603-3015	603-4015
5-6"	0.0001"	603-3016	603-4016
6-7"	0.0001"	603-3017	603-4017
7-8"	0.0001"	603-3018	603-4018

μ-DIGIT COUNTER OUTSIDE MICROMETER SET

- Friction thimble(ratchet friction thimble)
- Painted plated frame or chrome-plated frame
- Friction thimble(ratchet friction thimble)



Metric		Painted Frame	Chromed Frame
Range	Graduation Pieces	Model No.	Model No.
0-75mm	0.001mm 3pcs/set	603-3303	603-4303
0-100mm	0.001mm 4pcs/set	603-3304	603-4304
0-150mm	0.001mm 6pcs/set	603-3306	603-4306
0-200mm	0.001mm 8pcs/set	603-3308	603-4308

Inch		Painted Frame	Chromed Frame
Range	Graduation Pieces	Model No.	Model No.
0-3"	0.0001" 3pcs/set	603-3213	603-4213
0-4"	0.0001" 4pcs/set	603-3214	603-4214
0-6"	0.0001" 6pcs/set	603-3216	603-4216
0-8"	0.0001" 8pcs/set	603-3218	603-4218

DIGITAL COUNTER OUTSIDE MICROMETER SETS



Inch		0.001"
Range	Desc.	Model No.
0-3"	3-pc set	600-3203
0-4"	4-pc set	600-3204
0-6"	6-pc set	600-3206
6-12"	6-pc set	600-3207
0-12"	12-pc set	600-3208

Metric		0.01mm
Range	Desc.	Model No.
0-75mm	3-pc set	600-3275
0-100mm	4-pc set	600-3300
0-150mm	6-pc set	600-3350
150-300mm	6-pc set	600-3355
0-300mm	12-pc set	600-3360



INCH & METRIC DIGITAL OUTSIDE MICROMETERS

- Metric and Inch Graduation.

Range	Graduation	Model No.
0-25mm/0-1"	0.01mm/0.001"	600-3061



INTERCHANGEABLE ANVIL OUTSIDE MICROMETERS

Basic Model

Features:

- Ratchet stop and lock nut.
- High accuracy interchangeable anvils.
- Carbide measuring faces.



Steel-Plate Frame

- Laser engraved graduations.
- Enamel frame.
- With standards in a fitted case.
- Fine cast frame available

Replacement Anvil

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

Inch		
Range	Grad.	Model No.
0-2"	0.001"	600-9412
2-4"	0.001"	600-9417
2-6"	0.001"	600-9418
0-4"	0.001"	600-9414
4-8"	0.001"	600-9419
0-6"	0.001"	600-9416
6-12"	0.001"	600-9300
8-12"	0.001"	600-9410

Metric		
Range	Grad.	Model No.
0-50mm	0.01mm	600-9403
50-100mm	0.01mm	600-9405
50-150mm	0.01mm	600-9409
0-150mm	0.01mm	600-9406
150-300mm	0.01mm	600-9000
0-100mm	0.01mm	600-9404
100-200mm	0.01mm	600-9407
200-300mm	0.01mm	600-9408
200-250mm	0.01mm	600-9021
250-300mm	0.01mm	600-9022

5-Key Digital Electronic Interchangeable Anvil Micrometer



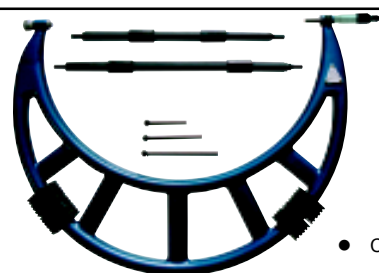
- Painted frame
- Friction thimble(ratchet friction thimble available)
- Resolution: 0.001mm/0.00005"

Steel-Plate Frame

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

Piped Frame

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



Over 12"/300mm Long Range Model Pipe Combined Frame

Features:

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

Inch		
Range	Grad.	Model No.
12-16"	0.001"	600-9301
16-20"	0.001"	600-9302
20-24"	0.001"	600-9303
24-28"	0.001"	600-9304
28-32"	0.001"	600-9305
32-36"	0.001"	600-9306
36-40"	0.001"	600-9307

Metric		
Range	Grad.	Model No.
300-400mm	0.01mm	600-9001
400-500mm	0.01mm	600-9002
500-600mm	0.01mm	600-9003
600-700mm	0.01mm	600-9004
700-800mm	0.01mm	600-9005
800-900mm	0.01mm	600-9006
900-1000mm	0.01mm	600-9007

3-Key Digital Electrical Interchange Anvil Micrometer, IP54

- Protection Level IP54. Criterion: DIN40050/IEC529
- Wide measuring range with interchangeable anvils.
- High accuracy interchangeable anvils enable that reading does not have to be reset when changing anvils
- Carbide measuring faces. Pipe combined frame for lightweight and high rigidity(over 300mm/12" range)
- Resolution: 0.001mm/0.00005"



Fine Cast Frame

Range	With Metric Micrometer Head Model No.	With Inch Micrometer Head Model No.
0-50mm/0-2"	600-9431	600-9441
0-100mm/0-4"	600-9432	600-9442
0-150mm/0-6"	600-9433	600-9443
50-100mm/2-4"	600-9434	600-9444
100-200mm/4-8"	600-9435	600-9445
150-300mm/6-12"	600-9436	600-9446
200-300mm/8-12"	600-9437	600-9447

Pipe Frame

Range	With Metric Micrometer Head Model No.	With Inch Micrometer Head Model No.
300-400mm/12-16"	600-9331	600-9341
400-500mm/16-20"	600-9332	600-9342
500-600mm/20-24"	600-9333	600-9343
600-700mm/24-28"	600-9334	600-9344
700-800mm/28-32"	600-9335	600-9345
800-900mm/32-36"	600-9336	600-9346
900-1000mm/36-40"	600-9337	600-9347



Measuring Tools



DIGITAL ELECTRONIC OUTSIDE MICROMETER

Basic Model

- Battery powered 1year life.
- Clear, easy to read LCD display.
- Carbide faces.
- Ratchet stop.
- Enamel finish.

Range	Graduation	Model No.
0-1"/0-25mm	0.00005"/0.001mm,	600-8001
1-2"/25-50mm	0.00005"/0.001mm,	600-8002
2-3"/50-75mm	0.00005"/0.001mm,	600-8003
3-4"/75-100mm	0.00005"/0.001mm,	600-8004

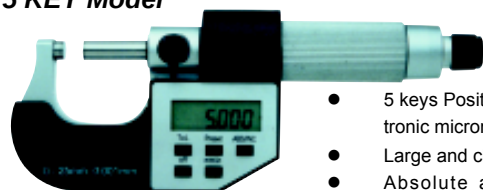


- Auto power on/off.
- Data hold function.
- Relative and absolute measurement.
- Ratchet stop.
- Tolerance set functions.
- Zero set at any position

7-KEY Model

Range	Graduation	Model No.
0-1"/0-25mm	0.00005"/0.001mm	600-8031
1-2"/25-50mm	0.00005"/0.001mm	600-8032
2-3"/50-75mm	0.00005"/0.001mm	600-8033
3-4"/75-100mm	0.00005"/0.001mm	600-8034

5 KEY Model



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

Range	Graduation	Model No.	
		Chromed Frame	IP54 Painted Frame
0-1"/0-25mm	0.00005"/0.001mm	600-8005	600-8405
1-2"/25-50mm	0.00005"/0.001mm	600-8006	600-8406
2-3"/50-75mm	0.00005"/0.001mm	600-8007	600-8407
3-4"/75-100mm	0.00005"/0.001mm	600-8008	600-8408
4-5"/100-125mm	0.00005"/0.001mm	600-8015	600-8415
5-6"/125-150mm	0.00005"/0.001mm	600-8016	600-8416
6-7"/150-175mm	0.00005"/0.001mm	600-8017	600-8417
7-8"/175-200mm	0.00005"/0.001mm	600-8018	600-8418

WATER RESISTANT 2-KEY DIGITAL MICROMETER



- **Water Resistant**
- 0.001mm/0.00005" resolution.
- Automatic switch off.
- Carbide Faces, Friction Thimble, Spindle Lock.
- Large LCD.
- an ergonomic shape.

Range	Accuracy	IP40		IP54	
		Chromed Frame	Painted Frame	Chromed Frame	Painted Frame
0-25mm/0-1"	0.04mm	600-8101	600-8501	600-8121	600-8521
25-50mm/1-2"	0.004mm	600-8102	600-8502	600-8122	600-8522
50-75mm/2-3"	0.005mm	600-8103	600-8503	600-8123	600-8523
75-100mm/3-4"	0.005mm	600-8104	600-8504	600-8124	600-8524
100-125mm/4-5"	0.006mm	600-8105	600-8505	600-8125	600-8525
125-150mm/5-6"	0.006mm	600-8106	600-8506	600-8126	600-8526
150-175mm/6-7"	0.007mm	600-8107	600-8507	600-8127	600-8527
175-200mm/7-8"	0.007mm	600-8108	600-8508	600-8128	600-8528

WATER RESISTANT 3-KEY DIGITAL MICROMETER, IP54

- Protection level IP54
- Display data is origin data of absolute measurement after changing battery
- Carbide measuring faces. Painted frame
- One SR44 battery. Auto power off
- Power consumption <350μA
- Criterion: DIN863/1, DIN40050/IEC529



Range	Accuracy	with metric micrometer head		with inch micrometer head	
		Type A Model No.	Type B Model No.	Type A Model No.	Type B Model No.
0-25mm/0-1"	0.004mm	600-8041	600-8141	600-8061	600-8161
25-50mm/1-2"	0.004mm	600-8042	600-8142	600-8062	600-8162
50-75mm/2-3"	0.005mm	600-8043	600-8143	600-8063	600-8163
75-100mm/3-4"	0.005mm	600-8044	600-8144	600-8064	600-8164
100-125mm/4-5"	0.006mm	600-8045	600-8145	600-8065	600-8165
125-150mm/5-6"	0.006mm	600-8046	600-8146	600-8066	600-8166
150-175mm/6-7"	0.007mm	600-8047	600-8147	600-8067	600-8167
175-200mm/7-8"	0.007mm	600-8048	600-8148	600-8068	600-8168
200-225mm/8-9"	0.008mm	600-8049	600-8149	600-8069	600-8169
225-250mm/9-10"	0.008mm	600-8050	600-8150	600-8070	600-8170
250-275mm/10-11"	0.009mm	600-8051	600-8151	600-8071	600-8171
275-300mm/11-12"	0.009mm	600-8052	600-8152	600-8072	600-8172

	Type A	Type B
RS232 output	Yes	No
Resolution of digit	0.001mm /0.00005"	0.001mm or 0.00005"
Resolution of Micrometer heads	Metric: 0.01mm Inch: 0.0001"	
Function	Power switch; Origin data of absolute Metric-inch conversion; Clock; Absolute and incremental measurement conversion. RS232 output port. Connecting cable: P1102	Power switch; Origin data set; Absolute and incremental measurement conversion

Measuring Tools



Quick Feeding Outside Micrometers

SPECIALTY MICROMETER



- Quick feeding.
- Carbide measuring faces.
- Positive locking clamp.
- Ratchet friction thimble (ratchet stop available).
- Spindle thread pitch: 1mm/0.05"
- The measurement can be read directly from the 100 step graduation thimble

Metric		Chrome-Plated	
Range	Grad.	Painted Model No.	Model No.
0-25mm	0.01mm	600-8221	601-8221
25-50mm	0.01mm	600-8222	601-8222
50-75mm	0.01mm	600-8223	601-8223
75-100mm	0.01mm	600-8224	601-8224
100-125mm	0.01mm	600-8225	601-8225
125-150mm	0.01mm	600-8226	601-8226
150-175mm	0.01mm	600-8227	601-8227
175-200mm	0.01mm	600-8228	601-8228

Inch		Chrome-Plated	
Range	Grad.	Painted Model No.	Model No.
0-1"	0.0005"	600-8201	601-8201
1-2"	0.0005"	600-8202	601-8202
2-3"	0.0005"	600-8203	601-8203
3-4"	0.0005"	600-8204	601-8204
4-5"	0.0005"	600-8205	601-8205
5-6"	0.0005"	600-8206	601-8206
6-7"	0.0005"	600-8207	601-8207
7-8"	0.0005"	600-8208	601-8208

Screw Thread Micrometers

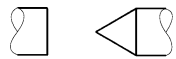


- Ratchet friction thimble (ratchet stop or friction thimble available).
- Laser engraved graduations.
- With 6 inserts

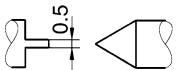
Range	Inch		Metric	
	0.001"	0.0001"	0.01mm	0.001mm
Range	Painted Frame Model No.	Chromed Frame Model No.	Painted Frame Model No.	Chromed Frame Model No.
0-1"	600-7801	601-7801	600-7811	601-7811
1-2"	600-7802	601-7802	600-7812	601-7812
2-3"	600-7803	601-7803	600-7813	601-7813
3-4"	600-7804	601-7804	600-7814	601-7814
4-5"	600-7805	601-7805	600-7815	601-7815
5-6"	600-7806	601-7806	600-7816	601-7816
6-7"	600-7807	601-7807	600-7817	601-7817
7-8"	600-7808	601-7808	600-7818	601-7818

Metric		Painted Frame	Chromed Frame
Range	Graduation	Model No.	Model No.
0-25mm	0.01mm	600-8825	601-8825
25-50mm	0.01mm	600-8850	601-8850
50-75mm	0.01mm	600-8875	601-8875
75-100mm	0.01mm	600-8900	601-8900
100-125mm	0.01mm	600-8925	601-8925
125-150mm	0.01mm	600-8950	601-8950
150-175mm	0.01mm	600-8975	601-8975
175-200mm	0.01mm	600-8990	601-8990

Single Point Micrometers



60° point
Ø6.5mm tip



60° point
Ø0.5mm tip

- Designed to measure the small recess of an electrical wire connector.
- Ratchet stop (friction thimble or ratchet friction thimble available).

- 60° point angle on spindle.
- Laser engraved graduations.
- Positive lever locking clamp.

With Blade Anvil

Range	Grad.	Model No.
0-1"	0.0001"	600-6680
0-25mm	0.01mm	600-6671

With 6.5mm Tip Anvil

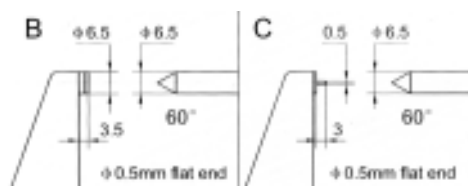
Metric		Painted Frame	Chromed Frame
Range	Graduation	Model No.	Model No.
0-25mm	0.01mm	600-6641	601-6641
25-50mm	0.01mm	600-6642	601-6642
50-75mm	0.01mm	600-6643	601-6643
75-100mm	0.01mm	600-6644	601-6644

Inch		Painted Frame	Chromed Frame
Range	Graduation	Model No.	Model No.
0-1"	0.0001"	600-6661	601-6661
1-2"	0.0001"	600-6662	601-6662
2-3"	0.0001"	600-6663	601-6663
3-4"	0.0001"	600-6664	601-6664



3-Key Electronic Single Point Micrometers IP54

- Protection level: IP54
- Pointed spindle and anvil for measuring drills, grooves and hard-to-reach dimensions.
- Flat or blade anvil for single point micrometers for measuring the height of crimp contacts. Carbide-tipped measuring faces



With Metric Micrometer Head

Range	Type B Model No.	Type C Model No.
0-25mm	600-1601	600-1620
25-50mm	600-1602	
50-75mm	600-1603	
75-100mm	600-1604	

With Inch Micrometer Head

Range	Type B Model No.	Type C Model No.
0-1"	600-1611	600-1630
1-2"	600-1612	
2-3"	600-1613	
3-4"	600-1614	



Measuring Tools

SPECIALTY MICROMETER

5-Key Electronic Single Point Micrometers



- Friction thimble (ratchet friction thimble available).
- Chrome-plated frame.
- With 5 keys Deluxe Model micrometer head.
- Graduation 0.00005"/0.001mm

Range	TypeB Model No.	TypeC Model 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	



μ Digital Counter Disc Brake Micrometer

- Friction thimble(ratchet friction thimble available)

Range	Graduation	Model No.
0.3-1.3"	0.3-1.3"	600-7075
1-2"	1-2"	600-7076
7.6-33mm	7.6-33mm	600-7071
25-50mm	25-50mm	600-7072



Digital Counter Disc Brake Micrometer

Ratchet stop(Friction thimble and ratchet friction thimble available)

Range	Graduation	Model No.
0.3-1.3"	0.001"	600-7095
1-2"	0.001"	600-7096
7.6-33mm	0.001mm	600-7091
25-50mm	0.001mm	600-7092

Dimensions

Range	A	L
7.6-33mm	29mm	64.5mm
25-50mm	29mm	82mm



3-Key Electronic Disc Brake Micrometers IP54



- Protection level : IP54. Criterion:DIN40050/IEC529.
- Carbide measuring face with 60point. Painted plated
- Ratchet stop (friction thimble and ratchet friction thimble available)
- For measuring the depth of grooves on the disc of brakesystems.

Range	Graduation	Metric Micrometer Head Model No.	Inch Micrometer Head Model No.
		600-7061	600-7065
7.6-33mm/0.3-1.3"	0.001mm/0.00005"	600-7061	600-7065
25-50mm/1-2"	0.001mm/0.00005"	600-7062	600-7066

Disc Brake Micrometer

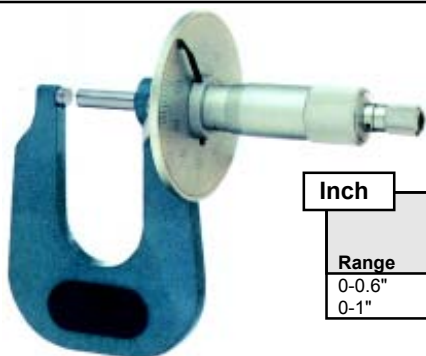


- For measuring the depth of grooves on the Disc Brake.
- Carbide measuring face with 60 degree point.
- Ratchet stop (friction thimble or ratchet friction thimble available)

Range	Graduation	Model No.
1-2"	0.0001"	600-7080
0.3-1.3"	0.0001"	600-7099
7.6-33mm	0.01mm	600-7082
25-50mm	0.01mm	600-7084

Sheet Metal Micrometers

- Ratchet stop (Friction thimble and ratchet friction thimble available)
- A dial is attached to the sleeve for making easy and quick reading of sheet metal thickness.



Inch		Flat Face Model No.	Spherical Face Model No.
Range	Graduation	600-0311	600-0315
0-0.6"	0.001"	600-0311	600-0315
0-1"	0.001"	600-0312	600-0316

Metric		Flat Face Model No.	Spherical Face Model No.
Range	Graduation	600-0301	600-0305
0-15mm	0.01mm	600-0301	600-0305
0-25mm	0.01mm	600-0302	600-0306

SPECIALTY MICROMETER

V-Anvil Micrometers

60° V-Anvil micrometer 3 flutes

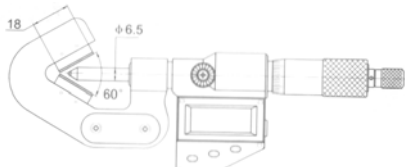


- Ratchet stop (friction thimble or ratchet friction thimble available).
- Laser engraved graduations.
- Enamel frame.

Metric		
Range	Graduation	Model No.
1-15mm	0.01mm	600-9101
5-20mm	0.01mm	600-9102
20-35mm	0.01mm	600-9103
35-50mm	0.01mm	600-9104
50-65mm	0.01mm	600-9105
65-80mm	0.01mm	600-9106
80-95mm	0.01mm	600-9151
2.3-25mm	0.01mm	600-9152
25-50mm	0.01mm	600-9153

Inch		
Range	Graduation	Model No.
0.04 to 0.6"	0.001"	600-9111
0.2 to 0.8"	0.001"	600-9112
0.8 to 1.4"	0.001"	600-9113
1.4 to 2"	0.001"	600-9114
2 to 2.6"	0.001"	600-9115
2.6 to 3.2"	0.001"	600-9116
3.2 to 3.8"	0.001"	600-9161
0.09-1"	0.001"	600-9162
1-2"	0.001"	600-9163

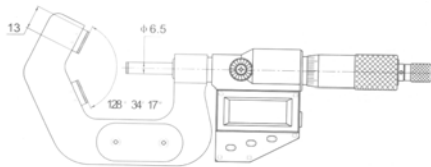
108° V-Anvil micrometer 5 flutes



Metric		
Range	Graduation	Model No.
5-25mm	0.01mm	600-9107
25-45mm	0.01mm	600-9108
45-65mm	0.01mm	600-9109
65-85mm	0.01mm	600-9110
85-100mm	0.01mm	600-9155

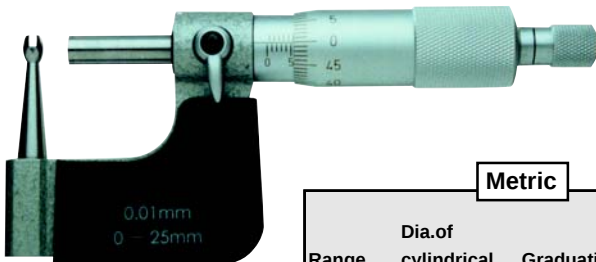
Inch		
Range	Graduation	Model No.
0.2 to 1"	0.001"	600-9117
1 to 1.8"	0.001"	600-9118
1.8 to 2.6"	0.001"	600-9119
2.6 to 3.4"	0.001"	600-9120
3.4 to 4.2"	0.001"	600-9165

128° 34'17" V-Anvil micrometer 7 flutes



Metric		
Range	Graduation	Model No.
5-25mm	0.01mm	600-1741
25-45mm	0.01mm	600-1742
45-65mm	0.01mm	600-1743
65-85mm	0.01mm	600-1744

Inch		
Range	Graduation	Model No.
0.2 to 1"	0.001"	600-1751
1 to 1.8"	0.001"	600-1752
1.8 to 2.6"	0.001"	600-1753
2.6 to 3.4"	0.001"	600-1754

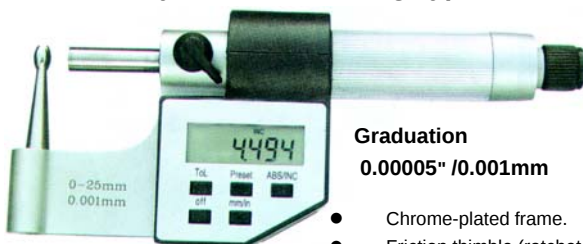


Tubing Type Micrometers

- Ratchet stop (friction thimble or ratchet friction thimble available).
- Carbide-tipped spindle.
- Different diameter on cylindrical.
- Laser engraved graduations.
- Enamel frame.

Metric			Inch						
			Painted Frame	Chromed Frame				Painted Frame	Chromed Frame
Range	Dia.of cylindrical	Graduation	Model No.	Model No.	Range	Dia.of cylindrical	Graduation	Model No.	Model No.
0-25mm	1.8mmDia.A	0.01mm	600-7620	601-7620	0-1"	0.07"Dia. A	0.0001"	600-7626	601-7626
25-50mm	1.8mmDia.A	0.01mm	600-7623	601-7623	1-2"	0.07"Dia. A	0.0001"	600-7629	601-7629
0-25mm	3.5mmDia.B	0.01mm	600-7621	601-7621	0-1"	0.14"Dia. B	0.0001"	600-7627	601-7627
25-50mm	3.5mmDia.B	0.01mm	600-7624	601-7624	1-2"	0.14"Dia. B	0.0001"	600-7630	601-7630
0-25mm	4.7mmDia.C	0.01mm	600-7622	601-7622	0-1"	0.19Dia. C	0.0001"	600-7628	601-7628
25-50mm	4.7mmDia.C	0.01mm	600-7625	601-7625	1-2"	0.19Dia. C	0.0001"	600-7631	601-7631
0-25mm	4.7mmDia.D	0.01mm	600-7664	600-7664	0-1"	0.19Dia. D	0.0001"	600-7650	601-7650
25-50mm	4.7mmDia.D	0.01mm	600-7665	601-7665	1-2"	0.19Dia. D	0.0001"	600-7651	601-7651
0-25mm	8mm Dia. E	0.01mm	600-7666	601-7666	0-1"	0.31"Dia. E	0.0001"	600-7652	601-7652
25-50mm	8mm Dia. E	0.01mm	600-7667	600-7667	1-2"	0.31"Dia. E	0.0001"	600-7653	601-7653

5-Key Electronic Tubing Type Micrometers



Graduation
0.00005" / 0.001mm

- Chrome-plated frame.
- Friction thimble (ratchet friction thimble available).

Range	Dia. On Cylindrical	Model No.
0-1"/0-25mm	0.07"/1.8mm A	600-7690
1-2"/25-50mm	0.07"/1.8mm A	600-7691
0-1"/0-25mm	0.14"/3.5mm B	600-7692
1-2"/25-50mm	0.14"/3.5mm B	600-7693
0-1"/0-25mm	0.19"/4.7mm C	600-7694
1-2"/25-50mm	0.19"/4.7mm C	600-7695
0-1"/0-25mm	0.19"/4.7mm D	600-7696
1-2"/25-50mm	0.19"/4.7mm D	600-7697
0-1"/0-25mm	0.31"/8mm E	600-7698
1-2"/25-50mm	0.31"/8mm E	600-7699



Measuring Tools

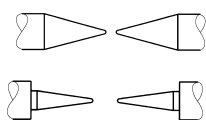
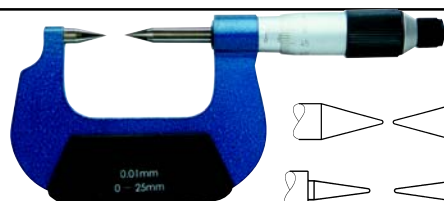
SPECIALTY MICROMETER

3-Key Electronic Tubing Type Micrometers IP54

- Protection level: IP54
- For measuring wall thickness of various tube
- Carbide-tipped measuring faces



Range	Dia.On Cylindrical	With Metric With Inch	
		Micrometer Head Model No.	Micrometer Head Model No.
0-25mm/0-1"	1.8mm/0.07" A	600-1640	600-1650
25-50mm/1-2"	1.8mm/0.07" A	600-1641	600-1651
0-25mm/0-1"	3.5mm/0.14" B	600-1642	600-1652
25-50mm/1-2"	3.5mm/0.14" B	600-1643	600-1653
0-25mm/0-1"	4.7mm/0.19" C	600-1644	600-1654
25-50mm/1-2"	4.7mm/0.19" C	600-1645	600-1655
0-25mm/0-1"	4.7mm/0.19" D	600-1646	600-1656
25-50mm/1-2"	4.7mm/0.19" D	600-1647	600-1657
0-25mm/0-1"	8mm/0.31" E	600-1648	600-1658
25-50mm/1-2"	8mm/0.31" E	600-1649	600-1659



A: 30° point
SR0.3mm tip
D: 15° point
SR0.3mm tip

Metric

Range	TypeA/30° Point		TypeD/15° Point	
	Painted Frame Model No.	Chromed Frame Model No.	Painted Frame Model No.	Chromed Frame Model No.
0-25mm	600-6631	601-6631	600-6676	601-6631
25-50mm	600-6632	601-6632	600-6677	601-6632
50-75mm	600-6633	601-6633	600-6678	601-6633
75-100mm	600-6634	601-6634	600-6679	601-6634

Inch

Range	TypeA/30° Point		TypeD/15° Point	
	Painted Frame Model No.	Chromed Frame Model No.	Painted Frame Model No.	Chromed Frame Model No.
0-1"	600-6611	601-6611	600-6681	601-6681
1-2"	600-6612	601-6612	600-6682	601-6682
2-3"	600-6613	601-6613	600-6683	601-6683
3-4"	600-6614	601-6614	600-6684	601-6684

Double Point Micrometers

- Designed to measure the small recess of an electrical wire connector.
- Enamel frame.
- Positive lever locking clamp.
- Graduation:0.01mm/0.0001"



5-Key Electronic Double Point Micrometers

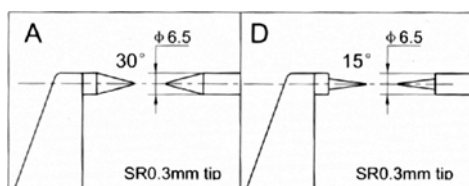
- Friction Thimble (ratchet friction thimble available).
- Chrome-plated frame.

Range	Graduation	Type A 30° Model No.	Type D 15° Model No.
0-1"/0-25mm	0.00005"/0.001mm	600-6621	600-6626
1-2"/25-50mm	0.00005"/0.001mm	600-6622	600-6627
2-3"/50-75mm	0.00005"/0.001mm	600-6623	600-6628
3-4"/75-100mm	0.00005"/0.001mm	600-6624	600-6629



3-Key Electronic Double Point Micrometers IP54

- Protection level: IP54
- Pointed spindle and anvils for measuring drills, grooves and hard-to-reach dimensions.
- Carbide tipped measuring faces.



Range	Graduation	Metric Micrometer Head		Inch Micrometer Head	
		Type A 30° Model No.	Type D 15° Model No.	Type A 30° Model No.	Type D 15° Model No.
0-25mm/0-1"	0.001mm/0.00005"	600-1441	600-1461	600-1451	600-1471
25-50mm/1-2"	0.001mm/0.00005"	600-1442	600-1462	600-1452	600-1472
50-75mm/2-3"	0.001mm/0.00005"	600-1443	600-1463	600-1453	600-1473
75-100mm/3-4"	0.001mm/0.00005"	600-1444	600-1464	600-1454	600-1474

Measuring Tools



SPECIALTY MICROMETER *Spline Micrometers*

- Carbide faces.

- Laser engraved graduations.
- Ratchet stop (friction thimble or ratchet friction thimble available).

Inch		Tip2x5mm(DiaXL)		Tip3x10mm(DiaXL)	
Range	Graduation	Painted Frame Model No.	Chrome Frame Model No.	Painted Frame Model No.	Chrome Frame Model No.
0-1"	0.0001"mm	600-1311	601-1311	600-1351	601-1351
1-2"	0.0001"mm	600-1312	601-1312	600-1352	601-1352
2-3"	0.0001"mm	600-1313	601-1313	600-1353	601-1353
3-4"	0.0001"mm	600-1314	601-1314	600-1354	601-1354
4-5"	0.0001"mm	600-1315	601-1315	600-1355	601-1355
5-6"	0.0001"mm	600-1316	601-1316	600-1356	601-1356
6-7"	0.0001"mm	600-1317	601-1317	600-1357	601-1357

Metric		Tip2x5mm(DiaXL)		Tip3x10mm(DiaXL)	
Range	Graduation	Painted Frame Model No.	Chrome Frame Model No.	Painted Frame Model No.	Chrome Frame Model No.
0-25mm	0.01mm	600-1321	601-1321	600-1331	601-1331
25-50mm	0.01mm	600-1322	601-1322	600-1332	601-1332
50-75mm	0.01mm	600-1323	601-1323	600-1333	601-1333
75-100mm	0.01mm	600-1324	601-1324	600-1334	601-1334
100-125mm	0.01mm	600-1325	601-1325	600-1335	601-1335
125-150mm	0.01mm	600-1326	601-1326	600-1336	601-1336
150-175mm	0.01mm	600-1327	601-1327	600-1337	601-1337

5-Key Digital Electronic Spline Micrometers



- Friction thimble (Ratchet friction thimble available).
- Chrome-plated frame.
- With 5 keys Deluxe Model micrometer head.
- Graduation 0.0005"/0.001mm

Range	Measuring tip 2x5mm Model No.	Measuring tip 3x10mm Model 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

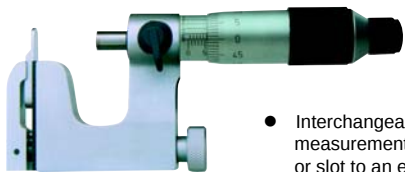
3-Key Digital Electronic Spline Micrometers IP54

- Protection level IP54.Criterion: DIN40050/IEC529
- Painted frame



		With inch micrometer head		With metric micrometer head	
Range	Graduation	tip 2x5mm Model No.	tip3x10mm Model No.	tip 2x5mm Model No.	tip3x10mm Model No.
0-1"/0-25mm	0.00005"/0.001mm	600-1401	600-1411	600-1421	600-1431
1-2"/25-50mm	0.00005"/0.001mm	600-1402	600-1412	600-1422	600-1432
2-3"/50-75mm	0.00005"/0.001mm	600-1403	600-1413	600-1423	600-1433
3-4"/75-100mm	0.00005"/0.001mm	600-1404	600-1414	600-1424	600-1434
4-5"/100-125mm	0.00005"/0.001mm	600-1405	600-1415	600-1425	600-1435
5-6"/125-150mm	0.00005"/0.001mm	600-1406	600-1416	600-1425	600-1436
6-7"/150-175mm	0.00005"/0.001mm	600-1407	600-1417	600-1427	600-1437

Multi-Anvil Micrometers



- Chrome-Plated frame.
- Carbide-tipped spindle.
- Friction thimble for exact repetitive readings.
- Graduation 0.0001"/0.01mm
- Interchangeable anvils permit quick accurate measurement of tubing, cylindrical walls, from a hole or slot to an edge, and many hard-to-reach locations.

Accessory

Name	Mode No.
anvil	600-0801
rod	600-0802

Metric	
Range	Model No.
0-25mm	600-1525
25-50mm	600-1550

Inch	
Range	Model No.
0-1"	600-1511
1-2"	600-1512

5-Key Electronic Multi-Anvil Micrometers



- Chrome-Plated frame.
- With 5 keys Model micrometer head.

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

3-Key Electronic Multi-Anvil Micrometers IP54

- Protection level IP54, Criterion:DIN40050/IE529
- Chrome-Plated frame.
- Ratchet stop(friction thimble and ratchet friction thimble available)



		With Metric Micrometer Head Model No.	With Inch Micrometer Head Model No.
Range	Graduation	Model No.	Model No.
0-25mm/0-1"	0.001mm/0.00005"	600-1661	600-1671
25-50mm/1-2"	0.001mm/0.00005"	600-1662	600-1672



Measuring Tools



SPECIALTY MICROMETER

Disc Micrometers

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

Metric		Non-Rotating		Rotating Spindle	
Range	Graduation	Painted Frame Model No.	Chromed Frame Model No.	Painted Frame Model No.	Chromed Frame Model No.
0-1"	0.0001"	600-7041	601-7041	600-7011	601-7011
1-2"	0.0001"	600-7042	601-7042	600-7012	601-7012
2-3"	0.0001"	600-7043	601-7043	600-7013	601-7013
3-4"	0.0001"	600-7044	601-7044	600-7014	601-7014
4-5"	0.0001"	600-7045	601-7045	600-7015	601-7015
5-6"	0.0001"	600-7046	601-7046	600-7016	601-7016
6-7"	0.0001"	600-7047	601-7047	600-7017	601-7017
7-8"	0.0001"	600-7048	601-7048	600-7018	601-7018

Inch		Non-Rotating		Rotating Spindle	
Range	Graduation	Painted Frame Model No.	Chromed Frame Model No.	Painted Frame Model No.	Chromed Frame Model No.
0-25mm	0.01mm	600-7051	601-7051	600-7021	601-7021
25-50mm	0.01mm	600-7052	601-7052	600-7022	601-7022
50-75mm	0.01mm	600-7053	601-7053	600-7023	601-7023
75-100mm	0.01mm	600-7054	601-7054	600-7024	601-7024
100-125mm	0.01mm	600-7055	601-7055	600-7025	601-7025
125-150mm	0.01mm	600-7056	601-7056	600-7026	601-7026
150-175mm	0.01mm	600-7057	601-7057	600-7027	601-7027
175-200mm	0.01mm	600-7058	601-7058	600-7028	601-7028

5-Key Electronic Disc Micrometers



- Friction thimble (ratchet friction thimble available).
- Chrome-plated frame.
- Graduation 0.00005"/0.001mm

Range	Rotating Model No.	Non-Rotating Model No.
0-1"/0-25mm	600-7201	600-7211
1-2"/25-50mm	600-7202	600-7212
2-3"/50-75mm	600-7203	600-7213
3-4"/75-100mm	600-7204	600-7214
4-5"/100-125mm	600-7205	600-7215
5-6"/125-150mm	600-7206	600-7216
6-7"/150-175mm	600-7207	600-7217
7-8"/175-200mm	600-7208	600-7218

3-Key Electronic Disc Micrometers IP54

- Protection level: IP54
- No-rotating spindle
- Disk measuring faces for measuring gears and paper thickness



		Metric Micrometer Head	Inch Micrometer Head
Range	Graduation	Model No.	Model No.
0-25mm/0-1"	0.001mm/0.00005"	600-7221	600-7231
25-50mm/1-2"	0.001mm/0.00005"	600-7222	600-7232
50-75mm/2-3"	0.001mm/0.00005"	600-7223	600-7233
75-100mm/3-4"	0.001mm/0.00005"	600-7224	600-7234
100-125mm/4-5"	0.001mm/0.00005"	600-7225	600-7235
125-150mm/5-6"	0.001mm/0.00005"	600-7226	600-7236
150-175mm/6-7"	0.001mm/0.00005"	600-7227	600-7237
175-200mm/7-8"	0.001mm/0.00005"	600-7228	600-7238



Jaw Type Micrometers

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

Inch		Painted Frame	Chromed Frame	Metric		Painted Frame	Chromed Frame
Range	Graduation	Model No.	Model No.	Range	Graduation	Model No.	Model No.
0-1"	0.0001"	600-7411	601-7411	0-25mm	0.01mm	600-7441	601-7441
1-2"	0.0001"	600-7412	601-7412	25-50mm	0.01mm	600-7442	601-7442
2-3"	0.0001"	600-7413	601-7413	50-75mm	0.01mm	600-7443	601-7443
3-4"	0.0001"	600-7414	601-7414	75-100mm	0.01mm	600-7444	601-7444
4-5"	0.0001"	600-7415	601-7415	100-125mm	0.01mm	600-7445	601-7445
5-6"	0.0001"	600-7416	601-7416	125-150mm	0.01mm	600-7446	601-7446
6-7"	0.0001"	600-7417	601-7417	150-175mm	0.01mm	600-7447	601-7447
7-8"	0.0001"	600-7418	601-7418	175-200mm	0.01mm	600-7448	601-7448

5-Key Electronic Jaw Type Micrometers



- Chrome-Plated frame.
- Friction thimble (ratchet friction thimble available).
- Graduation 0.00005"/0.001mm

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

Measuring Tools



SPECIALTY MICROMETER

3-Key Electronic Jaw Type Micrometers IP54

- Painted frame
- Ratchet stop(Friction thimble or ratchet friction thimble available)
- No-rotating spindle



Range	Graduation	Metric Micrometer Head	Inch Micrometer Head
		Model No.	Model No.
0-25mm/0-1"	0.001mm/0.00005"	600-7451	600-7461
25-50mm/1-2"	0.001mm/0.00005"	600-7452	600-7462
50-75mm/2-3"	0.001mm/0.00005"	600-7453	600-7463
75-100mm/3-4"	0.001mm/0.00005"	600-7454	600-7464
100-125mm/4-5"	0.001mm/0.00005"	600-7455	600-7465
125-150mm/5-6"	0.001mm/0.00005"	600-7456	600-7466
150-175mm/6-7"	0.001mm/0.00005"	600-7457	600-7467
175-200mm/7-8"	0.001mm/0.00005"	600-7458	600-7468



4 kinds measuring conditions

Double Display Electronic Micrometer IP54

- Protection level: IP54. Criterion: DIN40050/IEC529
- Friction thimble(ratchet friction thimble available)
- Chrom frame(fine cast frame available). Carbide measuring faces.
- RS232C output port.Connecting cable:P1101(optional)
- Travel of micrometer head:30mm

Range	Graduation	Model No.
0-30mm/0-1.2"	0.001mm/0.00005"	600-0401
25-55mm/1-2.2"	0.001mm/0.00005"	600-0402
50-80mm/2-3.2"	0.001mm/0.00005"	600-0403
75-105mm/3-4.2"	0.001mm/0.00005"	600-0404
100-130mm/4-5.2"	0.001mm/0.00005"	600-0405
125-155mm/5-6.2"	0.001mm/0.00005"	600-0406
150-180mm/6-7.2"	0.001mm/0.00005"	600-0407
175-205mm/7-8.2"	0.001mm/0.00005"	600-0408

Blade Micrometers



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

Inch		A Type Blade		B Type Blade	
Range	Graduation.	Painted Frame Model No.	Chromed Frame Model No.	Painted Frame Model No.	Chromed Frame Model No.
0-1"	0.0001"	600-1811	601-1811	600-1851	601-1851
1-2"	0.0001"	600-1812	601-1812	600-1852	601-1852
2-3"	0.0001"	600-1813	601-1813	600-1853	601-1853
3-4"	0.0001"	600-1814	601-1814	600-1854	601-1854
4-5"	0.0001"	600-1815	601-1815	600-1855	601-1855
5-6"	0.0001"	600-1816	601-1816	600-1856	601-1856
6-7"	0.0001"	600-1817	601-1817	600-1857	601-1857

Metric		A Type Blade		B Type Blade	
Range	Graduation.	Painted Frame Model No.	Chromed Frame Model No.	Painted Frame Model No.	Chromed Frame Model No.
0-25mm	0.01mm	600-1831	601-1831	600-1861	601-1861
25-50mm	0.01mm	600-1832	601-1832	600-1862	601-1862
50-75mm	0.01mm	600-1833	601-1833	600-1863	601-1863
75-100mm	0.01mm	600-1834	601-1834	600-1864	601-1864
100-125mm	0.01mm	600-1835	601-1835	600-1865	601-1865
125-150mm	0.01mm	600-1836	601-1836	600-1866	601-1866
150-175mm	0.01mm	600-1837	601-1837	600-1867	601-1867

5-Key Electronic Blade Micrometers

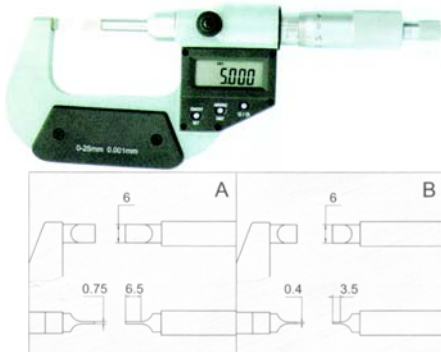
- Friction thimble (Ratchet friction thimble available).
- Chrome-plated frame.
- Non-rotating spindle



Range	Graduation	A Type Blade Model No.	B Type Blade Model No.
0-1"/0-25mm	0.00005"/0.001mm	600-1821	600-1841
1-2"/25-50mm	0.00005"/0.001mm	600-1822	600-1842
2-3"/50-75mm	0.00005"/0.001mm	600-1823	600-1843
3-4"/75-100mm	0.00005"/0.001mm	600-1824	600-1844
4-5"/100-125mm	0.00005"/0.001mm	600-1825	600-1845
5-6"/125-150mm	0.00005"/0.001mm	600-1826	600-1846
6-7"/150-175mm	0.00005"/0.001mm	600-1827	600-1847

3-Key Electronic Blade Micrometers IP54

- Non-rotating spindle
- Ratchet stop (Friction thimble, Ratchet friction thimble available)
- Painted frame



Range	Graduation.	Metric Micrometer Head		Inch Micrometer Head	
		A Type Blade Model No.	B Type Blade Model No.	A Type Blade Model No.	B Type Blade Model No.
0-25mm/0-1O	0.001mm/0.00005O	600-1901	600-1921	600-1911	600-1931
25-50mm/1-2O	0.001mm/0.00005O	600-1902	600-1922	600-1912	600-1932
50-75mm/2-3O	0.001mm/0.00005O	600-1903	600-1923	600-1913	600-1933
75-100mm/3-4O	0.001mm/0.00005O	600-1904	600-1924	600-1914	600-1934
100-125mm/4-5O	0.001mm/0.00005O	600-1905	600-1925	600-1915	600-1935
125-150mm/5-6O	0.001mm/0.00005O	600-1906	600-1926	600-1916	600-1936
150-175mm/6-7O	0.001mm/0.00005O	600-1907	600-1927	600-1917	600-1937



Measuring Tools

SPECIALTY MICROMETER

Universal Micrometers with 7 pairs Interchange Anvil



- No-rotating spindle.
- Enamel frame with.
- Positive lever locking clamp.
- Laser engraved graduations.

- Ratchet friction thimble(ratchet stop or friction thimble available).
- 7 pairs of interchangeable anvils (flat, spherical, spline, disk, blade, Point and knife-edge) for a wide range of applications.

Metric				Inch			
Range	Graduation.	Painted Frame Model No.	Chromed Frame Model No.	Range	Graduation.	Painted Frame Model No.	Chromed Frame Model No.
0-25mm	0.01mm	600-1531	601-1531	0-1"	0.0001"	600-1561	601-1561
25-50mm	0.01mm	600-1532	601-1532	1-2"	0.0001"	600-1562	601-1562
50-75mm	0.01mm	600-1533	601-1533	2-3"	0.0001"	600-1563	601-1563
75-100mm	0.01mm	600-1534	601-1534	3-4"	0.0001"	600-1564	601-1564
100-125mm	0.01mm	600-1535	601-1535	4-5"	0.0001"	600-1565	601-1565
125-150mm	0.01mm	600-1536	601-1536	5-6"	0.0001"	600-1566	601-1566
150-175mm	0.01mm	600-1537	601-1537	6-7"	0.0001"	600-1567	601-1567
175-200mm	0.01mm	600-1538	601-1538	7-8"	0.0001"	600-1568	601-1568

5-Key Electronic Universal Micrometers with 7 pairs Interchange Anvil



- Friction thimble (ratchet friction thimble available).
- Chrome-plated frame.

Range	Graduation	Mode No.
0-1"/0-25mm	0.00005"/0.001mm	600-1541
1-2"/25-50mm	0.00005"/0.001mm	600-1542
2-3"/50-75mm	0.00005"/0.001mm	600-1543
3-4"/75-100mm	0.00005"/0.001mm	600-1544
4-5"/100-125mm	0.00005"/0.001mm	600-1545
5-6"/125-150mm	0.00005"/0.001mm	600-1546
6-7"/150-175mm	0.00005"/0.001mm	600-1547
7-8"/175-200mm	0.00005"/0.001mm	600-1548

3-Key Electronic Universal Micrometers IP54 with 7 pairs Interchange Anvil

- Protection level: IP54
- Ratchet stop(friction thimble and ratchet friction thimble available)
- 7 pairs of interchangeable anvils (flat,spherical,spline,disk,blade,point and knife-edge) for a wide range of applications
- Resolution: 0.001mm/0.00005"



Range	Metric Micrometer Head Model No.	Inch Micrometer Head Model No.
0-25mm/0-1"	600-1571	600-1581
25-50mm/1-2"	600-1572	600-1582
50-75mm/2-3"	600-1573	600-1583
75-100mm/3-4"	600-1577	600-1584
100-125mm/4-5"	600-1575	600-1585
125-150mm/5-6"	600-1576	600-1586
150-175mm/6-7"	600-1577	600-1587
175-200mm/7-8"	600-1578	600-1588

Interchangeable Anvils

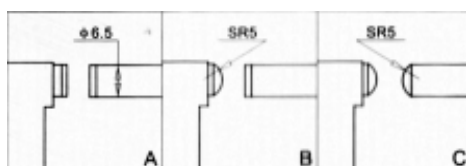
Model No.	Anvils	Type
600-1871	Flat	
600-1872	Spherical	
600-1875	Blade	
600-1876	Point	
600-1877		
600-1882 the set	600-1871,600-1872,600-1873,600-1874,600-1875,600-1876,600-1878	

Model No.	Anvils	Type
600-1873	Spline	
600-1874	Disk	
600-1878	Knife-edge	
600-1879		
600-1884 the set	600-1871,600-1872,600-1873,600-1874,600-1875,600-1877,600-1879	

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).



Inch			Type A Model No.	Type B Model No.	Type C Model No.
Range	Throat Depth	Graduation			
0-1"	2"	0.0001"	600-1711	600-1221	600-1231
1-2"	2"	0.0001"	600-1712	600-1222	600-1232
0-1"	4"	0.0001"	600-1713	600-1223	600-1233
1-2"	4"	0.0001"	600-1714	600-1224	600-1234
0-1"	6"	0.0001"	600-1715	600-1225	600-1235
1-2"	6"	0.0001"	600-1716	600-1226	600-1236
0-1"	12"	0.0001"	600-1717	600-1227	600-1237
1-2"	12"	0.0001"	600-1718	600-1228	600-1238

Metric			Type A Model No.	Type B Model No.	Type C Model No.
Range	Throat Depth	Graduation			
0-25mm	50mm	0.01mm	600-1721	600-1241	600-1251
25-50mm	50mm	0.01mm	600-1722	600-1242	600-1252
0-25mm	100mm	0.01mm	600-1723	600-1243	600-1253
25-50mm	100mm	0.01mm	600-1724	600-1244	600-1254
0-25mm	150mm	0.01mm	600-1725	600-1245	600-1255
25-50mm	150mm	0.01mm	600-1726	600-1246	600-1256
0-25mm	300mm	0.01mm	600-1727	600-1247	600-1257
25-50mm	300mm	0.01mm	600-1728	600-1248	600-1258

Measuring Tools



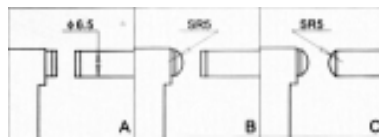
3-Key Digital Electronic Deep Throat Micrometers IP54

- Protection level: IP54
- Painted plated
- Ratchet stop(friction thimble and ratchet friction thimbls available)
- For measuring thickness of sheet metal,paper and sheet plastic.
- Resolution: 0.001mm/0.00005"



Range	Throat Depth	with Metric Micrometer Head			with Inch Micrometer Head		
		Type A	Type B	Type C	Type A	Type B	Type C
		Model No.	Model No.	Model No.	Model No.	Model No.	Model No.
0-25mm/0-1"	50mm/2"	601-2001	601-2021	601-2041	601-2011	601-2031	601-2051
25-50mm/1-2"	50mm/2"	601-2002	601-2022	601-2042	601-2012	601-2032	601-2052
0-25mm/0-1"	100mm/4"	601-2003	601-2023	601-2043	601-2013	601-2033	601-2053
25-50mm/1-2"	100mm/4"	601-2004	601-2024	601-2044	601-2014	601-2034	601-2054
0-25mm/0-1"	150mm/6"	601-2005	601-2025	601-2045	601-2015	601-2035	601-2055
25-50mm/1-2"	150mm/6"	601-2006	601-2026	601-2046	601-2016	601-2036	601-2056
0-25mm/0-1"	300mm/12"	601-2007	601-2027	601-2047	601-2017	601-2037	601-2057
25-50mm/1-2"	300mm/12"	601-2008	601-2028	601-2048	601-2018	601-2038	601-2058

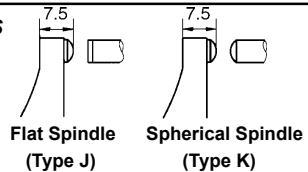
5-Key Digital Electronic Deep Throat Micrometers



- Painted frame.
- Friction thimble (ratchet friction thimble available).
- With 5 keys Model micrometer head
- Graduation 0.00005"/0.001mm

Range	Throat Depth	Type A Model No.	Type B Model No.	Type C Model No.
0-1"/0-25mm	2"/50mm	600-1731	600-1771	600-1781
1-2"/25-50mm	2"/50mm	600-1732	600-1772	600-1782
0-1"/0-25mm	4"/100mm	600-1733	600-1773	600-1783
1-2"/25-50mm	4"/100mm	600-1734	600-1774	600-1784
0-1"/0-25mm	6"/150mm	600-1735	600-1775	600-1785
1-2"/25-50mm	6"/150mm	600-1736	600-1776	600-1786
0-1"/0-25mm	12"/300mm	600-1737	600-1777	600-1787
1-2"/25-50mm	12"/300mm	600-1738	600-1778	600-1788

Ball Micrometers

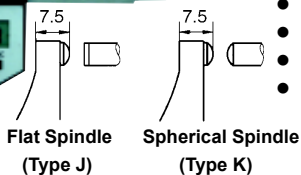
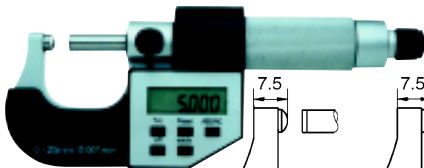


- Enamel frame.
- Carbide-tipped spherical anvil.
- Ratchet stop (friction thimble or ratchet friction thimble available).

Range	Graduation	Spherical Top Spindle		Flat Top Spindle	
		Painted Frame Model No.	Chromed Frame Model No.	Painted Frame Model No.	Chromed Frame Model No.
0-1"	0.0001"	600-7670	601-7670	600-7654	601-7654
1-2"	0.0001"	600-7671	601-7671	600-7655	601-7655
2-3"	0.0001"	600-7672	601-7672	600-7656	601-7656
3-4"	0.0001"	600-7673	601-7673	600-7657	601-7657

Range	Graduation	Spherical Top Spindle		Flat Top Spindle	
		Painted Frame Model No.	Chromed Frame Model No.	Painted Frame Model No.	Chromed Frame Model No.
0-25mm	0.01mm	600-7685	601-7685	600-7681	601-7681
25-50mm	0.01mm	600-7686	601-7686	600-7682	601-7682
50-75mm	0.01mm	600-7687	601-7687	600-7683	601-7683
75-100mm	0.01mm	600-7688	601-7688	600-7684	601-7684

5-Key Electronic Ball Micrometers

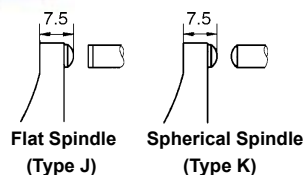


- Min.diameter of measured diameter ϕ 7.5mm
- Chrome-plated frame
- Friction thimble(ratchet friction thimble available)
- With 5 keys micrometer head
- Graduation. 0.00005"/0.001mm

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

- Protection level: IP54
- Min.diameter of measured diameter ϕ 7.5mm
- Painted plated frame
- Ratchet stop(friction thimble and ratchet friction thimble available)
- Resolution: 0.0001mm/0.00005"

3-Key Electronic Ball Micrometers IP54



Range	Graduation	with Metric Micrometer Head		with Inch Micrometer Head	
		Type J Model No.	Type K Model No.	Type J Model No.	Type K Model No.
0-25mm/0-1"	0.00005"	600-1681	600-1685	600-1691	600-1695
25-50mm/1-2"	0.00005"	600-1682	600-1686	600-1692	600-1696
50-75mm/2-3"	0.00005"	600-1683	600-1687	600-1693	600-1697
75-100mm/3-4"	0.00005"	600-1684	600-1688	600-1694	600-1698



Measuring Tools

THREE POINT INSIDE MICROMETER

For Through Hole

- Three point self-centering heads.
- Ratchet stop



Inch		
Range	Grad.	Model No.
0.24-0.3"	0.0002"	600-9501
0.3-0.39"	0.0002"	600-9502
0.39-0.47"	0.0002"	600-9503
0.43-0.55"	0.0002"	600-9504
0.55-0.66"	0.0002"	600-9505
0.66-0.78"	0.0002"	600-9506
0.78-0.98"	0.0002"	600-9507
0.98-1.18"	0.0002"	600-9508
1.18-1.37"	0.0002"	600-9509
1.37-1.57"	0.0002"	600-9510
1.57-1.97"	0.0002"	600-9511
1.97-2.36"	0.0002"	600-9512
2.36-2.76"	0.0002"	600-9513
2.76-3.15"	0.0002"	600-9514
3.15-3.54"	0.0002"	600-9515
3.54-3.94"	0.0002"	600-9516

Metric		
Range	Grad.	Model No.
6-8mm	0.005mm	600-9201
8-10mm	0.005mm	600-9202
10-12mm	0.005mm	600-9203
11-14mm	0.005mm	600-9204
14-17mm	0.005mm	600-9205
17-20mm	0.005mm	600-9206
20-25mm	0.005mm	600-9207
25-30mm	0.005mm	600-9208
30-35mm	0.005mm	600-9209
35-40mm	0.005mm	600-9210
40-50mm	0.005mm	600-9211
50-60mm	0.005mm	600-9212
60-70mm	0.005mm	600-9213
70-80mm	0.005mm	600-9214
80-90mm	0.005mm	600-9215
90-100mm	0.005mm	600-9216

THREE POINT INSIDE MICROMETER

For Blind Hole

- 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 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)



Inch with setting rings

Range	Graduation	Model No.
0.275-0.35"	0.0002"	600-2501
0.35-0.425"	0.0002"	600-2502
0.425-0.5"	0.0002"	600-2503
0.5-0.65"	0.0002"	600-2504
0.65-0.8"	0.0002"	600-2505
0.8-1"	0.0002"	600-2506
1-1.2"	0.0002"	600-2507
1.2-1.6"	0.0002"	600-2508
1.6-2"	0.0002"	600-2509
2-2.5"	0.0002"	600-2510
2.5-3"	0.0002"	600-2511
3-3.5"	0.0002"	600-2512
3.5-4"	0.0002"	600-2513

Metric without setting rings

Range	Graduation	Model No.
100-125mm	0.005mm	600-9605
125-150mm	0.005mm	600-9610
150-175mm	0.005mm	600-9615
175-200mm	0.005mm	600-9620
200-225mm	0.005mm	600-9625
225-250mm	0.005mm	600-9630
250-275mm	0.005mm	600-9635
275-300mm	0.005mm	600-9640

Metric with setting rings

Range	Graduation	Model No.
6-8mm	0.005mm	600-2201
8-10mm	0.005mm	600-2202
10-12mm	0.005mm	600-2203
11-14mm	0.005mm	600-2204
12-16mm	0.005mm	600-2217
14-17mm	0.005mm	600-2205
16-20mm	0.005mm	600-2218
17-20mm	0.005mm	600-2206
20-25mm	0.005mm	600-2207
25-30mm	0.005mm	600-2208
30-35mm	0.005mm	600-2209
30-40mm	0.005mm	600-2219
40-50mm	0.005mm	600-2211
50-60mm	0.005mm	600-2212
50-63mm	0.005mm	600-2221
60-70mm	0.005mm	600-2213
62-75mm	0.005mm	600-2222
70-80mm	0.005mm	600-2214
75-88mm	0.005mm	600-2223
80-90mm	0.005mm	600-2215
87-100mm	0.005mm	600-2224
90-100mm	0.005mm	600-2216

THREE POINT INSIDE MICROMETER SETS

For Blind Hole

Range	Individual range	Graduation	Model No.
6-12mm	6-8, 8-10, 10-12mm	0.005mm	600-2220
11-20mm	11-14, 14-17, 17-20mm	0.005mm	600-2230
12-20mm	12-16, 16-20mm	0.005mm	600-2235
20-40mm	20-25, 25-30, 30-35, 35-40mm	0.005mm	600-2240
20-50mm	20-25, 25-30, 30-40, 40-50mm	0.005mm	600-2245
40-100mm	40-50, 50-60, 60-70, 70-80, 80-90, 90-100mm	0.005mm	600-2260
50-100mm	50-63, 62-75, 75-88, 87-100mm	0.005mm	600-2250
50-100mm	50-70, 70-100mm	0.001mm	600-2265
100-250mm	100-150, 150-250mm	0.001mm	600-2270



Measuring Tools



THREE POINT INSIDE MICROMETER SETS

For Through Hole

- Including Arbor, Arbor Socket & Internal Ring gage not included.

Range	Grad.	Desc.	Model No.
6-12mm	0.005mm	3 heads	600-9220
11-20mm	0.005mm	3 heads	600-9230
20-40mm	0.005mm	4 heads	600-9240
40-100mm	0.005mm	6 heads	600-9260

ELECTRONIC THREE-POINT INSIDE MICROMETER IP54



- Protection level : IP54. Criterion: DIN40050/IEC529.
- 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 rods.
- Carbide-tipped contact points.
- RS232 data output. Connecting cable: P1102 (Optional).
- Supplied with setting rings for zero adjust.

Range	Graduation	Setting Rings	Model No.
6-8mm/0.275-0.35"	0.001mm/0.00005"	ø8mm	600-9721
8-10mm/0.35-0.425"	0.001mm/0.00005"	ø8mm	600-9722
10-12mm/0.425-0.5"	0.001mm/0.00005"	ø10mm	600-9723
12-16mm/0.5-0.65"	0.001mm/0.00005"	ø16mm	600-9724
16-20mm/0.65-0.8"	0.001mm/0.00005"	ø16mm	600-9725
20-25mm/0.8-1"	0.001mm/0.00005"	ø25mm	600-9726
25-30mm/1-1.2"	0.001mm/0.00005"	ø25mm	600-9727
30-40mm/1.2-1.6"	0.001mm/0.00005"	ø40mm	600-9728
40-50mm/1.6-2"	0.001mm/0.00005"	ø40mm	600-9729
50-63mm/2-2.5"	0.001mm/0.00005"	ø62mm	600-9730
62-75mm/2.5-3"	0.001mm/0.00005"	ø62mm	600-9731
75-88mm/3-3.5"	0.001mm/0.00005"	ø87mm	600-9732
87-100mm/3.5-4"	0.001mm/0.00005"	ø87mm	600-9733
50-70mm/2-2.8"	0.001mm/0.00005"	ø50mm	600-9701
70-100mm/2.8-4"	0.001mm/0.00005"	ø70mm	600-9702
100-150mm/4-6"	0.001mm/0.00005"	ø100mm	600-9703
150-250mm/6-10"	0.001mm/0.00005"	ø150mm	600-9704
200-300mm/8-12"	0.001mm/0.00005"	Without	600-9705

ELECTRONIC THREE-POINT INSIDE MICROMETER SETS IP54

Range	Individual range	Setting Rings	Extension Rods	Model No.
6-12mm/0.275-0.5"	6-8, 8-10, 10-12mm	ø8, 10mm	100mm	600-9742
12-20mm/0.5-0.8"	12-16, 16-20mm	ø16mm	150mm	600-9743
20-50mm/0.8-2"	20-25, 25-30, 30-40, 40-50mm	ø25, 40mm	150mm	600-9744
50-100mm/2-4"	50-63, 62-75, 75-88, 87-100mm	ø62, 87mm	150mm	600-9745
50-100mm/2-4"	50-70mm, 70-100mm	ø70mm	150mm	600-9711
100-250mm/4-10"	100-150mm, 150-250mm	ø150mm	150mm	600-9712



LARGE RANGE μ-DIGIT COUNTER 3-POINTS INSIDE MICROMETER

- Large measuring range
- High accuracy interchangeable measuring rods enable that reading does not have to be reset after changing rods.

Inch				With Setting Rings	Without Setting Rings
Range	Graduation	Setting Rings	Interchangeable Measuring rods	Model No.	Model No.
8-20"	0.0001"	8" Dia	3x2", 3x4"	603-0124	603-0125
8-40"	0.0001"	8" Dia	3x2", 3x4", 3x6", 3x8", 3x10", 3x12", 3x14"	603-0126	603-0127



Metric				With Setting Rings	Without Setting Rings
Range	Graduation	Setting Rings	Interchangeable Measuring rods	Model No.	Model No.
200-500mm	0.001mm	ø200mm	3x50mm, 3x100mm	603-0024	603-0025
200-1000mm	0.001mm	ø200mm	3x50mm, 3x100mm, 3x150mm, 3x200mm, 3x250mm, 3x300mm, 3x350mm	603-0026	603-0027

LARGE RANGE ELECTRONIC THREE-POINT INSIDE MICROMETER SETS IP54

Range	Setting Rings	Interchangeable measuring rods	Extension Rods	Model No.
200-500mm/8-20"	ø200mm	3x50, 3x100mm	150mm, 500mm	600-9707
200-500mm/8-20"	Without	3x50, 3x100mm	150mm, 500mm	600-9708
200-1000mm/8-40"	ø200mm	3x50, 3x100, 3x150, 3x200, 3x250, 3x300, 3x350mm	150mm, 500mm, 1000mm	600-9709
200-1000mm/8-40"	Without	3x50, 3x100, 3x150, 3x200, 3x250, 3x300, 3x350mm	150mm, 500mm, 1000mm	600-9710





Measuring Tools

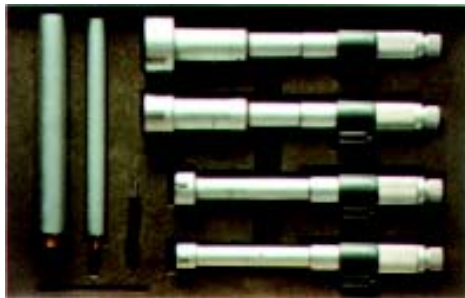
μ-DIGIT COUNTER 3-POINTS INSIDE MICROMETER



Inch			
Range	Graduation	Setting Ringd	Model No.
0.275-0.35"	0.0001"	Dia.0.35"	603-0101
0.35-0.425"	0.0001"	Dia.0.35"	603-0102
0.425-0.5"	0.0001"	Dia.0.425"	603-0103
0.5-0.65"	0.0001"	Dia.0.65"	603-0104
0.65-0.8"	0.0001"	Dia.0.65"	603-0105
0.8-1"	0.0001"	Dia.1"	603-0106
1-1.2"	0.0001"	Dia.1"	603-0107
1.2-1.6"	0.0001"	Dia.1.6"	603-0108
1.6-2"	0.0001"	Dia.1.6"	603-0109
2-2.5"	0.0001"	Dia.2.5"	603-0110
2-2.8"	0.0001"	Dia.2"	603-0116
2.5-3"	0.0001"	Dia.2.5"	603-0111
3-3.5"	0.0001"	Dia.3.5"	603-0112
2.8-4"	0.0001"	Dia.2.8"	603-0117
3.5-4"	0.0001"	Dia.3.5"	603-0113
4-6"	0.0001"	Dia.4"	603-0118
6-10"	0.0001"	Dia.6"	603-0119
8-12"	0.0001"	Without	603-0120

Metric			
Range	Graduation	Setting Ring	Model No.
6-8mm	0.001mm	ø8mm	603-0001
8-10mm	0.001mm	ø8mm	603-0002
10-12mm	0.001mm	ø10mm	603-0003
12-16mm	0.001mm	ø16mm	603-0004
16-20mm	0.001mm	ø16mm	603-0005
20-25mm	0.001mm	ø25mm	603-0006
25-30mm	0.001mm	ø25mm	603-0007
30-40mm	0.001mm	ø40mm	603-0008
40-50mm	0.001mm	ø40mm	603-0009
50-63mm	0.001mm	ø62mm	603-0010
50-70mm	0.001mm	ø50mm	603-0016
62-75mm	0.001mm	ø62mm	603-0011
75-88mm	0.001mm	ø87mm	603-0012
70-100mm	0.001mm	ø70mm	603-0017
87-100mm	0.001mm	ø87mm	603-0013
100-150mm	0.001mm	ø100mm	603-0018
150-250mm	0.001mm	ø150mm	603-0019
200-300mm	0.001mm	Without	603-0020

μ-DIGIT COUNTER 3-POINTS INSIDE MICROMETER SETS



Metric

Range	Individual Range	Setting Rings	Extension Robs	Model No.
6-12mm	6-8,8-10,10-12mm	ø8, 10mm	100mm	603-0201
12-20mm	12-16, 16-20mm	ø16mm	150mm	603-0202
20-50mm	20-25, 25-30, 30-40, 40-50mm	ø25mm, 40mm	150mm	603-0203
50-100mm	50-63, 62-75, 75-88, 87-100mm	ø62, 87mm	150mm	603-0204
50-100mm	50-70, 70-100mm	ø70mm	150mm	603-0205
100-250mm	100-150, 150-250mm	ø150mm	150mm	603-0206

Inch

Range	Individual Range	Setting Rings	Extension Robs	Model No.
0.275-0.5"	0.275-0.35", 0.35-0.425"	Dia.0.35" and Dia.0.425"	4"	603-0301
0.5-0.8"	0.5-0.65", 0.65-0.8"	Dia.0.65"	6"	603-0302
0.8-2"	0.8-1", 1-1.2", 1.2-1.6", 1.6-2"	Dia.1.0" and Dia.1.6"	6"	603-0303
2-4"	2-2.5", 2.5-3", 3-3.5"	Dia.2.5" and Dia.3.5"	6"	603-0304
2-4"	2-2.8", 2.8-4"	Dia.2.8"	6"	603-0305
4-10"	4-6", 6-10"	Dia.6.0"	6"	603-0306

ACCESSORY

INTERNAL GAGE

For Three Point Micrometer



Specifications	Model No.	Specifications	Model No.
for 6-12mm x .005mm	Dia. 32x10x8 600-9524	Dia. 32x10x10	600-9525
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 Three Point Micrometer

	Arbor& Socket Model No.	Wrench Model No.
For 0.24-0.48"	600-9521	600-9523
For 0.44-0.80"	600-9531	600-9533
For 0.80-1.6"	600-9541	600-9543
For 1.6-4.0"	600-9561	600-9563

Range	Arbor & Socket Model No.	Wrench Model 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

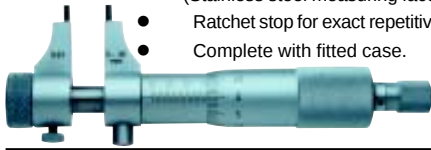
Measuring Tools



INSIDE MICROMETERS

Basic Model

- Caliper type jaws.
- Chrome-plated.
- Carbide measuring faces.
- (Stainless steel measuring face available)
- Ratchet stop for exact repetitive readings.
- Complete with fitted case.



Inch		0.001"	0.0001"
Range	Description	Model No.	Model No.
0.2-1.2"	0.2" ring	600-5005	600-5105
1-2"	1" ring	600-5010	600-5110
2-3"	without	600-5015	600-5115
3-4"	without	600-5020	600-5120
4-5"	without	600-5026	600-5126
5-6"	without	600-5030	600-5130
6-7"	without	600-5035	600-5135
7-8"	without	600-5040	600-5140

Metric		Setting	
Range	Grad.	Ring	Model No.
5-30mm	0.01mm	5mm	600-4005
25-50mm	0.01mm	25mm	600-4010
50-75mm	0.01mm	without	600-4015
75-100mm	0.01mm	without	600-4020
100-125mm	0.01mm	without	600-4026
125-150mm	0.01mm	without	600-4030
150-175mm	0.01mm	without	600-4035
175-200mm	0.01mm	without	600-4042

Digital Counter Inside Micrometers

- Carbide measuring faces.
- (Stainless steel measuring face available)
- Laser engraved graduations.
- Mechanical digital counter for quick and error-free reading.
- Caliper type jaws.
- Chrome-plated.



Inch		Description	
Range	Grad.	Setting Ring	Model No.
0.2-1.2"	0.001"	0.2"	600-5605
1-2"	0.001"	1"	600-5610
2-3"	0.001"	without	600-5615
3-4"	0.001"	without	600-5620
4-5"	0.001"	without	600-5626
5-6"	0.001"	without	600-5630
6-7"	0.001"	without	600-5635
7-8"	0.001"	without	600-5640

Metric		Setting	
Range	Grad.	Ring	Model No.
5-30mm	0.01mm	5mm	600-4605
25-50mm	0.01mm	25mm	600-4610
50-75mm	0.01mm	without	600-4615
75-100mm	0.01mm	without	600-4620
100-125mm	0.01mm	without	600-4626
125-150mm	0.01mm	without	600-4630
150-175mm	0.01mm	without	600-4635
175-200mm	0.01mm	without	600-4640

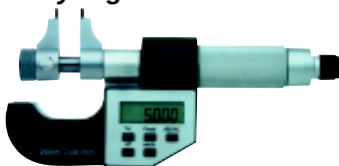
Inside Micrometer Sets



Inch			
Range	Grad.	Description	Model No.
0.2 to 3	0.001	3pcs/set	600-5021
0.2 to 4	0.001	4pcs/set	600-5022
0.2 to 3	0.0001	3pcs/set	600-5121
0.2 to 4	0.0001	4pcs/set	600-5122

Metric			
Range	Grad.	Desc.	Model No.
5 to 75mm	0.01mm	3pcs/set	600-4021
5 to 100mm	0.01mm	4pcs/set	600-4022

5Key Digital Electronic Inside Micrometers



- With 5 keys Deluxe Model micrometer head
- Graduation 0.00005"/0.001mm
- Carbide measuring faces.
- (Stainless steel measuring face available)

Range		Setting Ring	Model No.
0.2-1.2"/5-30mm	0.2"/5mm		600-5101
1-2"/25-50mm	1"/25mm		600-5102
2-3"/50-75mm	without		600-5103
3-4"/75-100mm	without		600-5104
4-5"/100-125mm	without		600-5106
5-6"/125-150mm	without		600-5107
6-7"/150-175mm	without		600-5108
7-8"/175-200mm	without		600-5109

3-Key Electronic Inside Micrometer IP54



- Carbide measuring faces(Stainless steel measuring faces available)
- Ratchet stop(friction thimble and ratchet friction thimble available)
- 5-30mm/0.2-1.2",25-50mm/1-2" micrometers furnished setting rings
- For measuring various inside dimensions

Range		Graduation	Metric Micrometer Head Model No.	Inch Micrometer Head Model No.
5-30mm/0.2-1.2"	0.001mm/0.00005"		600-5201	600-5301
25-50mm/1-2"	0.001mm/0.00005"		600-5202	600-5302
50-75mm/2-3"	0.001mm/0.00005"		600-5203	600-5303
75-100mm/3-4"	0.001mm/0.00005"		600-5204	600-5304
100-125mm/4-5"	0.001mm/0.00005"		600-5205	600-5305
125-150mm/5-6"	0.001mm/0.00005"		600-5206	600-5306
150-175mm/6-7"	0.001mm/0.00005"		600-5207	600-5307
175-200mm/7-8"	0.001mm/0.00005"		600-5208	600-5308

μ-Digit Inside Micrometers



- Enamel frame.
- With patented μ-Digit micrometer head.
- Carbide measuring faces.
- (Stainless steel measuring face available)

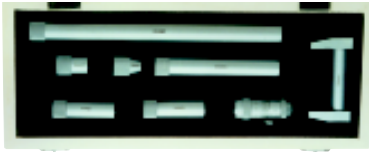
Inch			
Range	Description	Grad.	Model No.
0.2-1.2"	0.2" ring	0.0001"	603-5605
1-2"	1" ring	0.0001"	603-5610
2-3"	without	0.0001"	603-5615
3-4"	without	0.0001"	603-5620
4-5"	without	0.0001"	603-5626
5-6"	without	0.0001"	603-5630
6-7"	without	0.0001"	603-5635
7-8"	without	0.0001"	603-5640

Metric			
Range	Ring	Grad.	Model No.
5-30mm	5mm	0.002mm	603-4605
25-50mm	25mm	0.002mm	603-4610
50-75mm	without	0.002mm	603-4615
75-100mm	without	0.002mm	603-4620
100-125mm	without	0.002mm	603-4626
125-150mm	without	0.002mm	603-4630
150-175mm	without	0.002mm	603-4635
175-200mm	without	0.002mm	603-4640
200-225mm	without	0.002mm	603-4645



Measuring Tools

INSIDE MICROMETERS



Tubular Inside Micrometer Set

- The combining of the extension rods provides a wide measuring range.
- Supplied with a standard caliper gage for zero setting
- Carbide measuring faces.
- Chrome frame.
- Laser engraved graduations. Metric
- Resolution: 0.01mm/Metric
0.001"/Inch

Inch

Range	Extention rods	Model No.
2-3"	0.5"	600-6407
2-4"	0.5,1"	600-6408
2-6"	0.5,1,2"	600-6470
2-7"	0.5, 2x1",2"	600-6409
2-10"	0.5,1,2,4"	600-6600
2-20"	0.5, 1,2x2",4,8"	600-6472
2-24"	0.5,1,2,4,6,8"	600-6411
2-40"	0.5,1,2,2x4",6,8,12"	600-6473
2-60"	0.5,1,2,2x4",6,2x8",2x12"	600-6474
4-20"	1,2,4,8"	600-6475
4-36"	1,2,4,8,16"	600-6520
4-52"	1,2,4,8,2x16"	600-6477
4-68"	1,2,4,8,3x16"	600-6478
4-84"	1,2,4,8,4x16"	600-6479
6-56"	1,2x2",4,8,2x16"	600-6521
6-80"	1,2x2",4,2x8",3x16"	600-6522
6-84"	1,2x2",2x4",2x8",3x16"	600-6523
40-80"	2,2x4",8,20"	600-6400
40-120"	2,2x4",8,20,40"	600-6424
40-160"	2,2x4",8,20,2x40"	600-6405
40-200"	2,2x4",8,20,3x40"	600-6406

Metric

Range	Extention rods	Model No.
50-75mm	13mm	600-6507
50-100mm	13,25mm	600-6508
50-150mm	13,25,50mm	600-6470
50-175mm	13,2x25,50mm	600-6509
50-250mm	13,25,50,100mm	600-6510
50-500mm	13,25,2x50,100,200mm	600-6472
50-600mm	13,25,50,100,150,200mm	600-6511
50-1000mm	13,25,50,2x100,150,200,300mm	600-6573
50-1500mm	13,25,50,2x100,150,2x200,2x300mm	600-6574
100-500mm	25,50,100,200mm	600-6575
100-900mm	25,50,100,200,400mm	600-6576
100-1300mm	25,50,100,200,2x400mm	600-6577
100-1700mm	25,50,100,200,3x400mm	600-6578
100-2100mm	25,50,100,200,4x400mm	600-6579
150-1400mm	25,2x50,100,200,2x400mm	600-6501
150-2000mm	25,2x50,100,2x200,3x400mm	600-6502
150-2100mm	25,2x50,2x100,2x200,3x400mm	600-6503
1000-2000mm	50,2x100,200,500mm	600-6500
1000-3000mm	50,2x100,200,500,1000mm	600-6504
1000-4000mm	50,2x100,200,500,2x1000mm	600-6505
1000-5000mm	50,2x100,200,500,3x1000mm	600-6506

Digital Counter Tubular Inside Micrometer



- The combining of extension rods provides a wide measuring range.
- Carbide measuring faces.Positive locking clamp.
- Supplied with a standard caliper gage for zero setting.
- Diameter of extension rods: $\varnothing 22\text{mm}$.
- Accuracy: Metric $\pm(3+n+L/50)\text{m}$, inch $\pm 0.00005(3+n+L/2)''$
(n=number of rod,L=maximum measuring length)

Inch

Range	Graduation	Extension rods	Model No.
6-7"	0.001"	Micrometer head	600-6490
6-40"	0.001"	1",2x2",4",8",16"	600-6491
6-60"	0.001"	1",2x2",4",2x8",2x16"	600-6492
6-80"	0.001"	1",2x2",4",2x8",3x16"	600-6493

Metric

Range	Graduation	Extension rods	Model No.
150-175mm	0.01mm	Micrometer head	600-6590
150-1000mm	0.01mm	25mm,2x50mm,100mm,200mm,400mm	600-6591
150-1500mm	0.01mm	25mm,2x50mm,2x100mm,200mm,2x400mm	600-6592
150-2000mm	0.01mm	25mm,2x50mm,100mm,2x200mm,3x400mm	600-6593

Single Rod Tubular Inside Micrometer



- Chrome frame.
- Carbide measuring faces.
- Laser engraved graduations.
- Diameter of extension rods: $\varnothing 16\text{mm}$

Inch

Range	Graduation	Model No.
1-1.25"	0.001"	600-6457
2-2.5"	0.001"	600-6458
2-3"	0.001"	600-6459
3-4"	0.001"	600-6460
4-5"	0.001"	600-6412
5-6"	0.001"	600-6413
6-7"	0.001"	600-6414
7-8"	0.001"	600-6415
8-9"	0.001"	600-6416
9-10"	0.001"	600-6417
10-11"	0.001"	600-6418
11-12"	0.001"	600-6419
12-13"	0.001"	600-6449
13-14"	0.001"	600-6450
14-15"	0.001"	600-6451
15-16"	0.001"	600-6452
16-17"	0.001"	600-6453
17-18"	0.001"	600-6454
18-19"	0.001"	600-6455
19-20"	0.001"	600-6456
20-21"	0.001"	600-6428

Range	Graduation	Model No.
21-22"	0.001"	600-6429
22-23"	0.001"	600-6430
23-24"	0.001"	600-6431
24-25"	0.001"	600-6432
25-26"	0.001"	600-6433
26-27"	0.001"	600-6434
27-28"	0.001"	600-6435
28-29"	0.001"	600-6436
29-30"	0.001"	600-6437
30-31"	0.001"	600-6438
31-32"	0.001"	600-6439
32-33"	0.001"	600-6440
33-34"	0.001"	600-6441
34-35"	0.001"	600-6442
35-36"	0.001"	600-6443
36-37"	0.001"	600-6444
37-38"	0.001"	600-6445
38-39"	0.001"	600-6446
39-40"	0.001"	600-6447
40-42"	0.001"	600-6448

Metric

Range	Graduation	Model No.
25-32mm	0.01mm	600-6557
50-63mm	0.01mm	600-6558
50-75mm	0.01mm	600-6559
75-100mm	0.01mm	600-6560
100-125mm	0.01mm	600-6512
125-150mm	0.01mm	600-6513
150-175mm	0.01mm	600-6514
175-200mm	0.01mm	600-6515
200-225mm	0.01mm	600-6516
225-250mm	0.01mm	600-6517
250-275mm	0.01mm	600-6518
275-300mm	0.01mm	600-6519
300-325mm	0.01mm	600-6549
325-350mm	0.01mm	600-6550
350-375mm	0.01mm	600-6551
375-400mm	0.01mm	600-6552
400-425mm	0.01mm	600-6553
425-450mm	0.01mm	600-6554
450-475mm	0.01mm	600-6555
475-500mm	0.01mm	600-6556
500-525mm	0.01mm	600-6528

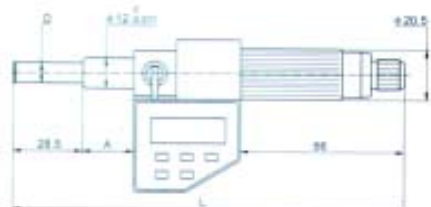
Range	Graduation	Model No.
525-550mm	0.01mm	600-6529
550-575mm	0.01mm	600-6530
575-600mm	0.01mm	600-6531
600-625mm	0.01mm	600-6532
625-650mm	0.01mm	600-6533
650-675mm	0.01mm	600-6534
675-700mm	0.01mm	600-6535
700-725mm	0.01mm	600-6536
725-750mm	0.01mm	600-6537
750-775mm	0.01mm	600-6538
775-800mm	0.01mm	600-6539
800-825mm	0.01mm	600-6540
825-850mm	0.01mm	600-6541
850-875mm	0.01mm	600-6542
875-900mm	0.01mm	600-6543
900-925mm	0.01mm	600-6544
925-950mm	0.01mm	600-6545
950-975mm	0.01mm	600-6546
975-1000mm	0.01mm	600-6547
1000-1050mm	0.01mm	600-6548

Measuring Tools



MICROMETER HEADS

5-Key Electronic Micrometer Head



- Resolution: 0.00005"/0.001mm
- Positive-designed electronic micrometer head.
- Large and clear LCD.
- Inch/Metric conversion (0.00005"/0.001mm).
- Absolute and incremental conversion.
- Automatic switch off.
- Friction thimble (Ratchet friction thimble available).
- Data hold and Tolerance set.
- SPC output.

Range	Install dimension	Total length	Flat end Model No.	Spherical end Model No.
0-1"/0-25mm	12x17mm	154mm	601-9785	601-9783
0-1"/0-25mm	12x20mm	157mm	601-9786	601-9784



3-Key Electronic Micrometer Head IP54

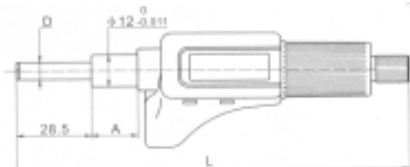
- Protection level: IP54. Criterion: DIN863/1, DIN40050/IEC529.
- RS232 data output. Connecting cable: P1102 (Optional).
- Ratchet stop (friction thimble and ratchet friction thimble available).
- Resolution: 0.001mm/0.00005"

Range	with Metric Micrometer Head		With Inch Micrometer Head	
	Flat end Model No.	Spherical end Model No.	Flat end Model No.	Spherical end Model No.
0-25mm/0-1"	601-9811	601-9812	601-9813	601-9814
0-50mm/0-2"	601-9821	601-9822	601-9823	601-9824



2-Key Electronic Micrometer Head IP54

- Protection level : IP54. Criterion: DIN863/1,DIN40050/IEC529
- Function: Power switch;Origin data set;Metric-inch conversion; Absolute and incremental measurement conversion;Data output
- RS232 data output.Connecting cable: P1101 (optional)
- Friction thimble (ratchet stop and ratchet friction thimble available)
- Resolution: 0.001mm/0.00005"

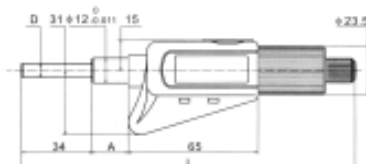


Range	A	D	L	Flat End Model No.	Spherical End Model No.
0-25mm/0-1"	17.5	6.5	149.5	600-9831	600-9833
0-25mm/0-1"	20.5	8	152.5	600-9832	600-9834



Double Display Electronic Micrometer Head IP54

- Protection level : IP54. Criterion: DIN863/1,DIN40050/IEC529
- Double display,LCD direction can be changed by key
- Function: Power switch;Origin data set;Metric-inch conversion; Absolute and incremental measurement conversion; LCD direction changed
- RS232 data output.Connecting cable: P1101 (optional)
- Friction thimble (ratchet stop and ratchet friction thimble available)
- Resolution: 0.001mm/0.00005"



Range	A	D	L	Flat End Model No.	Spherical End Model No.
0-30mm/0-1.2"	17.5	6.5	161	601-9841	601-9843
0-30mm/0-1.2"	20.5	8	164	601-9842	601-9844

4 kinds measuring conditions

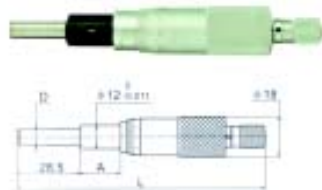




Measuring Tools

MICROMETER HEADS Continued

Ratchet Stop Micrometer Heads



- Carbide measuring faces, Flat/Spherical face
- Laser engraved graduations.
- Flat or spherical measuring face.

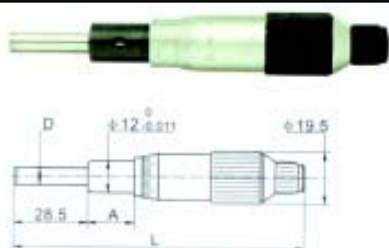
Metric

Range	Graduation	Install Dimension	Total Length	Spindle Diameter	Flat End Model No.	Spherical End Model No.
0-25mm	0.01mm	11x16mm	110mm	6.5mm	601-9524	601-9534
0-25mm	0.002mm	11x16mm	110mm	6.5mm	601-9525	601-9535
0-25mm	0.01mm	12x17mm	113mm	6.5mm	601-9526	601-9536
0-25mm	0.002mm	12x17mm	113mm	6.5mm	601-9527	601-9537
0-25mm	0.01mm	12x20mm	116mm	6.5mm	601-9528	601-9538
0-25mm	0.002mm	12x20mm	116mm	6.5mm	601-9529	601-9539

Inch

Range	Graduation	Install Dimension	Total Length	Spindle Diameter	Flat End Model No.	Spherical End Model No.
0-1"	0.001"	11x16mm	110mm	6.5mm	601-9501	601-9541
0-1"	0.0001"	11x16mm	110mm	6.5mm	601-9502	601-9542
0-1"	0.001"	12x17mm	113mm	6.5mm	601-9503	601-9543
0-1"	0.0001"	12x17mm	113mm	6.5mm	601-9504	601-9544
0-1"	0.001"	12x20mm	116mm	6.5mm	601-9505	601-9545
0-1"	0.0001"	12x20mm	116mm	6.5mm	601-9506	601-9546

Ratchet Friction Thimble Micrometer Heads



- Carbide measuring faces, Flat/Spherical face
- Laser engraved graduations.
- Flat or spherical measuring faces.

Metric

Range	Graduation	Install Dimension	Total Length	Spindle Diameter	Flat End Model No.	Spherical End Model No.
0-25mm	0.01mm	11x16mm	110mm	6.5mm	601-9522	601-9532
0-25mm	0.002mm	11x16mm	110mm	6.5mm	601-9523	601-9533

Inch

Range	Graduation	Install Dimension	Total Length	Spindle Diameter	Flat End Model No.	Spherical End Model No.
0-1"	0.001"	11x16mm	110mm	6.5mm	601-9507	601-9547
0-1"	0.0001"	11x16mm	110mm	6.5mm	601-9508	601-9548

Read Out Micrometer Heads



- Direct digital reading.
- Carbide measuring faces.

Range	Graduation	Model No.
0-1"	0.00005"	600-7951
0-25mm	0.001mm	600-7925

Mini-Micrometer Heads



0-5mm(0-0.2")



0-6.5mm(0-0.25")

- Carbide measuring faces, Flat/Spherical face
- Laser engraved graduations.
- Flat or spherical measuring faces.



0-13mm(0-0.5")



0-15mm(0-0.6")

Metric

Range	Graduation	Install Dimension	Total Length	Spindle Diameter	Flat End Model No.	Spherical End Model No.
0-5mm	0.01mm	3.5x5mm	32mm	2mm	601-9105	601-9106
0-6.5mm	0.01mm	6x6mm	37mm	3.5mm	601-9165	601-9166
0-13mm	0.01mm	9.5x9.5mm	58.5mm	5mm	601-9113	601-9114
0-15mm	0.01mm	9.5x9.5mm	61mm	5mm	601-9115	601-9116

Inch

Range	Graduation	Install Dimension	Total Length	Spindle Diameter	Flat End Model No.	Spherical End Model No.
0-0.2"	0.001"	3.5x5mm	32mm	2mm	601-9120	601-9121
0-0.25"	0.001"	6x6mm	37mm	3.5mm	601-9125	601-9126
0-0.5"	0.001"	9.5x9.5mm	58.5mm	5mm	601-9150	601-9151
0-0.6"	0.001"	9.5x9.5mm	61mm	5mm	601-9160	601-9161

Measuring Tools



MICROMETER HEADS Continued

Quick Feeding Micrometer Heads

Ratchet Stop

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



Range	Graduation	Install Dimension	Total Length	Spindle Diameter	Flat End	Spherical End
					Model No.	Model No.
0-1"	0.0005"	12x17mm	115mm	8mm	601-9601	601-9603
0-2"	0.0005"	22x35mm	183mm	8mm	601-9602	601-9604
0-25mm	0.01mm	12x17mm	115mm	8mm	601-9605	601-9607
0-50mm	0.01mm	22x35mm	183mm	8mm	601-9606	601-9608

Quick Feeding Micrometer Heads

Ratchet Friction Thimble

- Carbide measuring faces
- Laser engraved graduations.



Range	Graduation	Install Dimension	Total Length	Spindle Diameter	Flat End	Spherical End
					Model No.	Model No.
0-1"	0.0005"	12x17mm	115mm	8mm	601-9611	601-9613
0-2"	0.0005"	22x35mm	183mm	8mm	601-9612	601-9614
0-25mm	0.01mm	12x17mm	115mm	8mm	601-9615	601-9617
0-50mm	0.01mm	22x35mm	183mm	8mm	601-9616	601-9618

- Flat or spherical measuring faces.

Non-Rotating Spindle Micrometer Heads

Ratchet Stop



Range	Graduation	Install Dimension	Total Length	Spindle Diameter	Flat End	Spherical End
					Model No.	Model No.
0-1"	0.001"	12x10mm	113mm	8mm	601-9621	601-9623
0-1"	0.0001"	12x10mm	113mm	8mm	601-9622	601-9624
0-25mm	0.01mm	12x10mm	113mm	8mm	601-9625	601-9627
0-25mm	0.002mm	12x10mm	113mm	8mm	601-9626	601-9628

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

Non-Rotating Spindle Micrometer Heads

Ratchet Friction Thimble



Range	Graduation	Install Dimension	Total Length	Spindle Diameter	Flat End	Spherical End
					Model No.	Model No.
0-1"	0.001"	12x10mm	113mm	8mm	601-9631	601-9633
0-1"	0.0001"	12x10mm	113mm	8mm	601-9632	601-9634
0-25mm	0.01mm	12x10mm	113mm	8mm	601-9635	601-9637
0-25mm	0.002mm	12x10mm	113mm	8mm	601-9636	601-9638

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

Parallax Free Micrometer Heads

Ratchet Stop



- Carbide measuring faces

Range	Graduation	Install Dimension	Total Length	Flat End	Spherical End
				Model No.	Model No.
0-1"	0.0001"	12x17mm	113mm	601-9746	601-9748
0-25mm	0.001mm	12x17mm	113mm	601-9745	601-9747

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

Parallax Free Micrometer Heads

Ratchet Friction Thimble



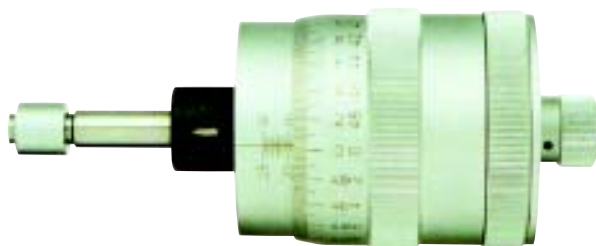
- Carbide measuring faces

Range	Graduation	Install Dimension	Total Length	Flat End	Spherical End
				Model No.	Model No.
0-1"	0.0001"	12x17mm	110mm	601-9756	601-9758
0-25mm	0.001mm	12x17mm	110mm	601-9755	601-9757

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



Measuring Tools



**Non-Rotating Device
&
Bidirectional Graduation
Model**

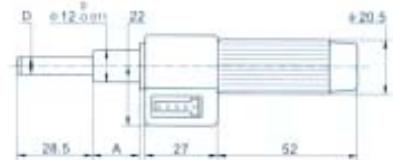
MICROMETER HEADS Continued

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.
- No-rotating device can be attached to the spindle tip.
- Carbide Measuring faces(spherical measuring face available). Spindle diameter:8mm.

Range	Grad.	Install Dimension	Total Length	Basic Model No.	Bidirectional Graduation Model No.	Non-Rotating Device Model No.	Non-Rotating Device & Bidirectional Graduation Model No.
0-1"	0.0001"	18x14mm	119mm	601-9701	601-9711	601-9721	601-9731
0-2"	0.0001"	18x14mm	148mm	601-9702	601-9712	601-9722	601-9732
0-25mm	0.002mm	18x14mm	119mm	601-9705	601-9715	601-9725	601-9735
0-50mm	0.002mm	18x14mm	148mm	601-9706	601-9716	601-9726	601-9736

μ-Digit Counter Micrometer Head



- Friction thimble (ratchet friction thimble available)
- High resolution mechanical digit counter for easiest and exact reading.

Metric

Range	Graduation	A	D	Flat End Model No.	Spherical End Model No.
0-25mm	0.001mm	17.5mm	66.5mm	601-9851	601-9853
0-25mm	0.001mm	20.5mm	68.0mm	601-9852	601-9854

Inch

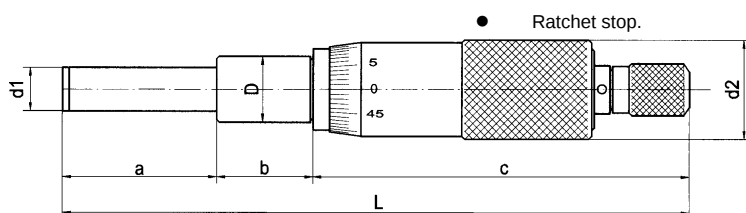
Range	Graduation	A	D	Flat End Model No.	Spherical End Model No.
0-1"	0.0001"	17.5mm	66.5mm	601-9861	601-9863
0-1"	0.0001"	20.5mm	68.0mm	601-9862	601-9864

Digital Counter Micrometer Head

Range	Graduation	Install Dimension	Ratchet Stop		Ratchet Friction Thimble	
			Flat End Model No.	Spherical End Model No.	Flat End Model No.	Spherical End Model No.
0-25mm	0.01mm	12x17mm	601-9765	601-9764	601-9775	601-9774
0-1"	0.0001"	12x17mm	601-9766	601-9767	601-9776	601-9777



Micron Micrometer Heads



Range	Graduation	Model No.
0-1"	0.00005"	600-7551
0-2"	0.00005"	600-7552
0-50mm	0.001mm	600-7550

Measuring Tools



DEPTH MICROMETER

- Ratchet stop(friction thimble and ratchet friction thimble available)
- High accuracy interchangeable rods

A Type-Interchangeable rods put from the measuring face

Metric

Range	Graduation	63mm base		101.5mm base	
		Flat end Model No.	Spherical end Model No.	Flat end Model No.	Spherical end Model No.
0-25mm	0.01mm	602-3105	602-3205	602-3106	602-3206
0-50mm	0.01mm	602-3108	602-3208	602-3109	602-3209
0-100mm	0.01mm	602-3115	602-3215	602-3130	602-3230
0-150mm	0.01mm	602-3125	602-3225	602-3120	602-3220
0-200mm	0.01mm	602-3126	602-3226	602-3127	602-3227
0-300mm	0.01mm	602-3128	602-3228	602-3129	602-3229

Inch

Range	Graduation	2.5" base		4" base	
		Flat end Model No.	Spherical end Model No.	Flat end Model No.	Spherical end Model No.
0-1"	0.001"	602-3005	602-3505	602-3006	602-3506
0-2"	0.001"	602-3008	602-3508	602-3009	602-3509
0-4"	0.001"	602-3015	602-3515	602-3030	602-3530
0-6"	0.001"	602-3025	602-3525	602-3020	602-3520
0-8"	0.001"	602-3026	602-3526	602-3027	602-3527
0-12"	0.001"	602-3028	602-3528	602-3029	602-3529



B Type-Run through interchangeable rods

Metric

Range	Graduation	63mm base		101.5mm base	
		Flat end Model No.	Spherical end Model No.	Flat end Model No.	Spherical end Model No.
0-25mm	0.01mm	602-4105	602-4205	602-4106	602-4206
0-50mm	0.01mm	602-4108	602-4208	602-4109	602-4209
0-100mm	0.01mm	602-4110	602-4210	602-4111	602-4211
0-150mm	0.01mm	602-4115	602-4215	602-4116	602-4216
0-200mm	0.01mm	602-4120	602-4220	602-4121	602-4221
0-300mm	0.01mm	602-4125	602-4225	602-4126	602-4226

Inch

Range	Graduation	2.5" base		4" base	
		Flat end Model No.	Spherical end Model No.	Flat end Model No.	Spherical end Model No.
0-1"	0.001"	602-4005	602-4305	602-4006	602-4306
0-2"	0.001"	602-4008	602-4308	602-4009	602-4309
0-4"	0.001"	602-4015	602-4315	602-4030	602-4330
0-6"	0.001"	602-4025	602-4325	602-4020	602-4320
0-8"	0.001"	602-4026	602-4326	602-4027	602-4327
0-12"	0.001"	602-4028	602-4328	602-4029	602-4329



Digit Counter Depth Micrometer

Metric

Range	Graduation	63mm base		101.5mm base	
		Flat end Model No.	Spherical end Model No.	Flat end Model No.	Spherical end Model No.
0-25mm	0.001mm	602-3421	602-3441	602-3431	602-3451
0-50mm	0.001mm	602-3422	602-3442	602-3432	602-3452
0-100mm	0.001mm	602-3424	602-3444	602-3434	602-3454
0-150mm	0.001mm	602-3426	602-3446	602-3436	602-3456
0-200mm	0.001mm	602-3428	602-3448	602-3438	602-3458
0-300mm	0.001mm	602-3429	602-3449	602-3439	602-3459

Inch

Range	Graduation	2.5" base		4" base	
		Flat end Model No.	Spherical end Model No.	Flat end Model No.	Spherical end Model No.
0-1"	0.0001"	602-3401	602-3461	602-3411	602-3471
0-2"	0.0001"	602-3402	602-3462	602-3412	602-3472
0-4"	0.0001"	602-3404	602-3464	602-3414	602-3474
0-6"	0.0001"	602-3406	602-3466	602-3416	602-3476
0-8"	0.0001"	602-3408	602-3468	602-3418	602-3478
0-12"	0.0001"	602-3409	602-3469	602-3419	602-3479





Measuring Tools

Setting Standards

- For the calibration of outside micrometers
- With heat insulating handle to prevent heat expansion
- Criterion: DIN863/1

Inch

Size	Accuracy	D	Model 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"	±0.00002"	¢8mm	6MS-0007
8"	±0.00002"	¢8mm	6MS-0008
9"	±0.000024"	¢8mm	6MS-0009
10"	±0.000024"	¢8mm	6MS-0010
11"	±0.000028"	¢8mm	6MS-0011
12"	±0.000016"	¢16mm	6MS-0012
13"	±0.000016"	¢16mm	6MS-0013
14"	±0.000016"	¢16mm	6MS-0014
15"	±0.000016"	¢16mm	6MS-0015
16"	±0.0002"	¢16mm	6MS-0016
17"	±0.0002"	¢16mm	6MS-0017
18"	±0.0002"	¢16mm	6MS-0018
19"	±0.0002"	¢16mm	6MS-0019
20"	±0.00024"	¢16mm	6MS-0020
21"	±0.00024"	¢16mm	6MS-0021
22"	±0.00024"	¢16mm	6MS-0022
23"	±0.00024"	¢16mm	6MS-0023
24"	±0.00028"	¢16mm	6MS-0024

Metric

Size	Accuracy	D	Model 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
300mm	±0.0040mm	¢16mm	6MS-1300
325mm	±0.0040mm	¢16mm	6MS-1325
350mm	±0.0040mm	¢16mm	6MS-1350
375mm	±0.0040mm	¢16mm	6MS-1375
400mm	±0.0050mm	¢16mm	6MS-1400
425mm	±0.0050mm	¢16mm	6MS-1425
450mm	±0.0050mm	¢16mm	6MS-1450
475mm	±0.0050mm	¢16mm	6MS-1475
500mm	±0.0060mm	¢16mm	6MS-1500
525mm	±0.0060mm	¢16mm	6MS-1525
550mm	±0.0060mm	¢16mm	6MS-1550
575mm	±0.0060mm	¢16mm	6MS-1575
600mm	±0.0070mm	¢16mm	6MS-1600

Standards for Interchangeable Anvil Micrometers

Range	Metric	Model No.
for 0-100x0.01mm		6MS-9404
for 0-150x0.01mm		6MS-9406
for 150-300x0.01mm		6MS-9000
for 300-400x0.01mm		6MS-9001
for 400-500x0.01mm		6MS-9002
for 500-600x0.01mm		6MS-9003
for 600-700x0.01mm		6MS-9004
for 700-800x0.01mm		6MS-9005
for 700-900x0.01mm		6MS-9006
for 900-1000x0.01mm		6MS-9007
for 1000-1200x0.01mm		6MS-9008
for 1200-1400x0.01mm		6MS-9009
for 1400-1600x0.01mm		6MS-9010
for 1600-1800x0.01mm		6MS-9011
for 1800-2000x0.01mm		6MS-9012
for 2000-2200x0.01mm		6MS-9013
for 2200-2400x0.01mm		6MS-9014
for 2400-2600x0.01mm		6MS-9015
for 2600-2800x0.01mm		6MS-9016
for 2800-3000x0.01mm		6MS-9017

Range	Inch	Model No.
for 0-4x0.001"		6MS-9414
for 0-6x0.001"		6MS-9416
for 6-12x0.001"		6MS-9300
for 12-16x0.001"		6MS-9301
for 16-20x0.001"		6MS-9302
for 20-24"x0.001"		6MS-9303
for 24-28"x0.001"		6MS-9304
for 28-32"x0.001"		6MS-9305
for 32-36"x0.001"		6MS-9306
for 36-40"x0.001"		6MS-9307
for 40-48"x0.001"		6MS-9308
for 48-56"x0.001"		6MS-9309
for 56-64"x0.001"		6MS-9310
for 64-72"x0.001"		6MS-9311
for 72-80"x0.001"		6MS-9312
for 80-88"x0.001"		6MS-9313
for 88-96"x0.001"		6MS-9314
for 96-104"x0.001"		6MS-9315
for 104-112"x0.001"		6MS-9316
for 112-120"x0.001"		6MS-9317

7 PIECE. MICROMETER ANVIL ATTACHMENT KIT

- Turns your micrometer into 7 different tools.
- Fits all brand micrometers 1" to 12" inch or metric.
- 6 individual anvils plus 1 ball attachment (spline, knife, super spline, blade, comparator, disc & ball attachment).



Model No. 600-0107

Micrometer not included.

MICROMETER STANDS

- These stands are designed to allow bench-top use with hand micrometers or other gages which have frame area sufficient to grab onto.
- For 0-4"/100mm micrometers.



Type "A"

Aluminum Model No. 600-0000

Cast Iron Model No. 600-1000.



Type "B"

Model No. 600 - 1001



Type "E"

Easy Set

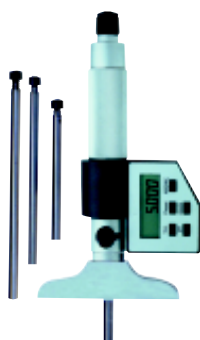
Model No. 600-1005



DEPTH MICROMETER

5-Key Electronic Depth Micrometer

- Friction thimble(ratchet friction thimble available)



Range	Graduation	2.5"/63mm base		4"/101.5mm base	
		Flat end Model No.	Spherical end Model No.	Flat end Model No.	Spherical end Model No.
0-1"/0-25mm	0.00005"/0.001mm	602-3301	602-3321	602-3311	602-3331
0-2"/0-50mm	0.00005"/0.001mm	602-3302	602-3322	602-3312	602-3332
0-3"/0-75mm	0.00005"/0.001mm	602-3303	602-3323	602-3313	602-3333
0-4"/0-100mm	0.00005"/0.001mm	602-3304	602-3324	602-3314	602-3334
0-5"/0-125mm	0.00005"/0.001mm	602-3305	602-3325	602-3315	602-3335
0-6"/0-150mm	0.00005"/0.001mm	602-3306	602-3326	602-3316	602-3336
0-7"/0-175mm	0.00005"/0.001mm	602-3307	602-3327	602-3317	602-3337
0-8"/0-200mm	0.00005"/0.001mm	602-3308	602-3328	602-3318	602-3338
0-12"/0-300mm	0.00005"/0.001mm	602-3309	602-3329	602-3319	602-3339

3-Key Electronic Depth Micrometer IP54

- Protection level IP54.Criterion: DIN40050/IEC529
- Ratchet stop(friction thimble and ratchet friction thimble available)
- Interchangeable robs.provide a wide measuring range
- High accuracy interchangeable robs enable that reading doesn't have to be reset when changing robs
- Resolution: 0.001mm/0.00005"



Range	63mm/ 2.5" base				101.5mm/ 4" base			
	Flat end		Spherical end		Flat end		Spherical end	
	Metric Micrometer Head	Inch Micrometer Head	Metric Micrometer Head	Inch Micrometer Head	Metric Micrometer Head	Inch Micrometer Head	Metric Micrometer Head	Inch Micrometer Head
	Model No.	Model No.	Model No.	Model No.	Model No.	Model No.	Model No.	Model No.
0-25mm/0-1"	602-1001	602-1041	602-1021	602-1061	602-1011	602-1051	602-1031	602-1071
0-50mm/0-2"	602-1002	602-1042	602-1022	602-1062	602-1012	602-1052	602-1032	602-1072
0-100mm/0-4"	602-1004	602-1044	602-1024	602-1064	602-1014	602-1054	602-1034	602-1074
0-150mm/0-6"	602-1006	602-1046	602-1026	602-1066	602-1016	602-1056	602-1036	602-1076
0-200mm/0-8"	602-1008	602-1048	602-1028	602-1068	602-1018	602-1058	602-1038	602-1078
0-300mm/0-12"	602-1009	602-1049	602-1029	602-1069	602-1019	602-1059	602-1039	602-1079

μ-Digit Counter Depth Micrometer

Friction thimble (ratchet friction thimble available)

Metric

Range	Graduation	63mm base		101.5mm base	
		Flat end Model No.	Spherical end Model No.	Flat end Model No.	Spherical end Model No.
0-25mm	0.001mm	603-3421	603-3441	603-3431	603-3451
0-50mm	0.001mm	603-3422	603-3442	603-3432	603-3452
0-100mm	0.001mm	603-3424	603-3444	603-3434	603-3454
0-150mm	0.001mm	603-3426	603-3446	603-3436	603-3456
0-200mm	0.001mm	603-3428	603-3448	603-3438	603-3458
0-300mm	0.001mm	603-3429	603-3449	603-3439	603-3459

Inch

Range	Graduation	2.5" base		4" base	
		Flat end Model No.	Spherical end Model No.	Flat end Model No.	Spherical end Model No.
0-1"	0.0001"	603-3401	603-3461	603-3411	603-3471
0-2"	0.0001"	603-3402	603-3462	603-3412	603-3472
0-4"	0.0001"	603-3404	603-3464	603-3414	603-3474
0-6"	0.0001"	603-3406	603-3466	603-3416	603-3476
0-8"	0.0001"	603-3408	603-3468	603-3418	603-3478
0-12"	0.0001"	603-3409	603-3469	603-3419	603-3479





Measuring Tools

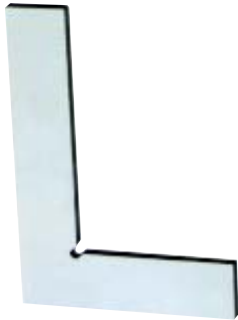
MACHINISTS STEEL SQUARES

Plain Type

- **Accuracy: Workshop Grade/Plain Type**
- Made of the finest steel.
- Beams and blades are ground and lapped to be straight and parallel.
- Hardened blade only.

Size	Description	Model No.
2-6"	4pcs/ set	650-8014
4-12"	4pcs/set	650-8006

Length of Blade	Length of Beam	Model 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



QUALITY HARDENED STEEL SQUARES

With Straight Edge, Accuracy Class 2

- **Accuracy: 0.0008" + L/10,000**
- Beam is grooved at inner corner.
- Beams and blades are accurately ground and lapped.
- Rockwell 55.

Length of Blade	Length of Beam	Model 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



QUALITY HARDENED STEEL SQUARES

With Straight Edges, Thin Blade & Wide Beam Accuracy Class N

- **Accuracy: 0.0002" + 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 (Rockwell 55).
- Packed in individual carton.

Length of Blade	Length of Beam	Model 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

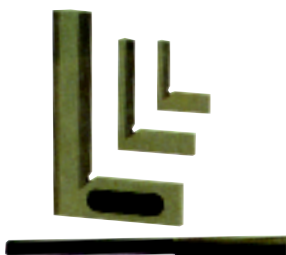


QUALITY HARDENED STEEL SQUARES

With Bevel Edge, Accuracy Class H

- **Accuracy: 0.0008" + 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 for straightness and parallelism.
- All squares are fully hardened (Rockwell 55).
- Packed in individual carton.

Length of Blade	Length of Beam	Model 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



DIE MAKERS SQUARE SET

"Die Makers" Square set" is ideal for the toolmaker working on precise miniature layouts. Sets consist of 3 hardened beveled edged squares 3/4", 1-1/4" and 2-3/8" plus a 1-1/2" triangular straight edged with handle. Sides of triangular straight edge are grooved in middle for clearance of burrs and dirt.

- All tools are hardened and ground, very finely finished and extremely accurate.
- Overall Length 4", Length of triangular section 1-1/2".
- Handle: length 2-1/2", diameter 1/4".
- Overall width of triangular straight edge 3/8".

Model No. 650-7200

Beveled Edge Squares : 3/4", 1-1/4", 2-3/8" and 1-1/2" Triangular straight edge.

Measuring Tools



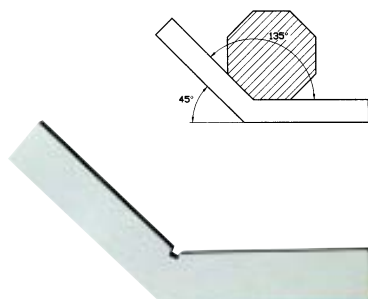
DIN 875 SQUARES

90° Flat Squares



	Grade 0 Carbon Steel	Grade 0 Stainless Steel	Grade 1 Carbon Steel	Grade 1 Stainless Steel	Grade 2 Carbon Steel	Grade 2 Stainless Steel
Range	Model No.	Model No.	Model No.	Model No.	Model No.	Model No.
50x40mm	639-4105	638-4105	639-4205	638-4205	639-4305	638-4305
75x50mm	639-4110	638-4110	639-4210	638-4210	639-4310	638-4310
100x70mm	639-4115	638-4115	639-4215	638-4215	639-4315	638-4315
150x100mm	639-4120	638-4120	639-4220	638-4220	639-4320	638-4320
200x130mm	639-4130	638-4130	639-4230	638-4230	639-4330	638-4330
250x160mm	639-4132	638-4132	639-4232	638-4232	639-4332	638-4332
300x175mm	639-4136	638-4136	639-4236	638-4236	639-4336	638-4336
300x200mm	639-4135	638-4135	639-4235	638-4235	639-4335	638-4335

135° 120° Flat Squares



	135°				120°			
	Grade 1 Carbon Steel	Grade 1 Stainless Steel	Grade 2 Carbon Steel	Grade 2 Stainless Steel	Grade 1 Carbon Steel	Grade 1 Carbon Steel	Grade 2 Stainless Steel	Grade 2 Stainless Steel
Range	Model No.	Model No.	Model No.	Model No.	Model No.	Model No.	Model No.	Model No.
100x70mm	639-5005	638-5005	639-5105	638-5105	639-5055	638-5055	639-5155	638-5155
120x80mm	639-5010	638-5010	639-5110	638-5110	639-5060	638-5060	639-5160	638-5160
150x100mm	639-5015	638-5015	639-5115	638-5115	639-5065	638-5065	639-5165	638-5165
200x130mm	639-5020	638-5020	639-5120	638-5120	639-5070	638-5070	639-5170	638-5170
50x50mm	639-3005	638-3005	639-3105	638-3105	639-3205	638-3205	639-3305	638-3305
75x75mm	639-3010	638-3010	639-3110	638-3110	639-3210	638-3210	639-3310	638-3310
100x100mm	639-3015	638-3015	639-3115	638-3115	639-3215	638-3215	639-3315	638-3315
150x150mm	639-3020	638-3020	639-3120	638-3120	639-3220	638-3220	639-3320	638-3320
200x200mm	639-3025	638-3025	639-3125	638-3125	639-3225	638-3225	639-3325	638-3325

135° & 120° Wide Base Squares



	135°				120°			
	Grade 1 Carbon Steel	Grade 1 Stainless Steel	Grade 2 Carbon Steel	Grade 2 Stainless Steel	Grade 1 Carbon Steel	Grade 1 Carbon Steel	Grade 2 Carbon Steel	Grade 2 Stainless Steel
Range	Model No.	Model No.	Model No.	Model No.	Model No.	Model No.	Model No.	Model No.
100x70mm	639-6005	638-6005	639-6105	638-6105	639-6055	638-6055	639-6155	638-6155
120x80mm	639-6007	638-6007	639-6107	638-6107	639-6060	638-6060	639-6160	638-6160
150x100mm	639-6010	638-6010	639-6110	638-6110	639-6065	638-6065	639-6165	638-6165
200x130mm	639-6015	638-6015	639-6115	638-6115	639-6070	638-6070	639-6170	638-6170
250x160mm	639-6020	638-6020	639-6120	638-6120	639-6075	638-6075	639-6175	638-6175
300x175mm	639-6025	638-6025	639-6125	638-6125	639-6080	638-6080	639-6180	638-6180

90° Wide Base Knife Edge Squares



**Black Chrome-Plated
Measuring Face**

	Grade 00 Carbon Steel	Grade 00 Stainless Steel	Grade 0 Carbon Steel	Grade 0 Stainless Steel	Grade 1 Carbon Steel	Grade 1 Stainless Steel	Grade 00 Carbon Steel	Grade 0 Carbon Steel	Grade 1 Carbon Steel
Range	Model No.	Model No.	Model No.	Model No.	Model No.	Model No.	Model No.	Model No.	Model No.
50x40mm	639-4055	638-4055	639-4155	638-4155	639-4255	638-4255	639-4655	639-4755	639-4855
75x50mm	639-4060	638-4060	639-4160	638-4160	639-4260	638-4260	639-4660	639-4760	639-4860
100x70mm	639-4065	638-4065	639-4165	638-4165	639-4265	638-4265	639-4665	639-4765	639-4865
125x80mm	639-4067	638-4067	639-4167	638-4167	639-4267	638-4267	639-4667	639-4767	639-4867
150x100mm	639-4070	638-4070	639-4170	638-4170	639-4270	638-4270	639-4670	639-4770	639-4870
200x130mm	639-4074	638-4074	639-4175	638-4175	639-4275	638-4275	639-4675	639-4775	639-4875



Measuring Tools

DIN 875 SQUARES

90° Knife Edge Squares

Black Chrome-Plated
Measuring Face



Range	00Grade Carbon Steel Model No.	00Grade Stainless Steel Model No.	0Grade Carbon Steel Model No.	0Grade Stainless Steel Model No.	00Grade Carbon Steel Model No.	0Grade Carbon Steel Model No.
25x20mm	639-1002	638-1002	639-1102	638-1102	639-1052	639-1152
40x28mm	639-1003	638-1003	639-1103	638-1103	639-1053	639-1153
50x32mm	639-1004	638-1004	639-1104	638-1104	639-1054	639-1154
50x40mm	639-1005	638-1005	639-1105	638-1105	639-1055	639-1155
63x40mm	639-1006	638-1006	639-1106	638-1106	639-1056	639-1156
75x50mm	639-1010	638-1010	639-1110	638-1110	639-1060	639-1160
80x50mm	639-1011	638-1011	639-1111	638-1111	639-1061	639-1161
100x63mm	639-1012	638-1012	639-1112	638-1112	639-1062	639-1162
100x70mm	639-1015	638-1015	639-1115	638-1115	639-1065	639-1165
125x80mm	639-1016	638-1016	639-1116	638-1116	639-1066	639-1166
150x100mm	639-1020	638-1020	639-1120	638-1120	639-1070	639-1170
160x100mm	639-1021	638-1021	639-1121	638-1121	639-1071	639-1171
200x125mm	639-1022	638-1022	639-1122	638-1122	639-1072	639-1172
200x130mm	639-1025	638-1025	639-1125	638-1125	639-1075	639-1175
300x200mm	639-1035	638-1035	639-1135	638-1135	639-1080	639-1180

90° Wide Base Squares



90° Heavy Base Squares



Range	0Grade Carbon Steel Model No.	0Grade Stainless Steel Model No.	1Grade Carbon Steel Model No.	1Grade Stainless Steel Model No.	2Grade Carbon Steel Model No.	2Grade Stainless Steel Model No.
50x40mm	639-2105	638-2105	639-2205	638-2205	639-2305	638-2305
75x50mm	639-2110	638-2110	639-2210	638-2210	639-2310	638-2310
100x70mm	639-2115	638-2115	639-2215	638-2215	639-2315	638-2315
125x80mm	639-2116	638-2116	639-2216	638-2216	639-2316	638-2316
150x100mm	639-2120	638-2120	639-2220	638-2220	639-2320	638-2320
200x130mm	639-2130	638-2130	639-2230	638-2230	639-2330	638-2330
250x160mm	639-2132	638-2132	639-2232	638-2232	639-2332	638-2332
300x175mm	639-2136	638-2136	639-2236	638-2236	639-2336	638-2336
300x200mm	639-2135	638-2135	639-2235	638-2235	639-2335	638-2335

Range	0Grade Carbon Steel Model No.	0Grade Stainless Steel Model No.	1Grade Carbon Steel Model No.	1Grade Stainless Steel Model No.	2Grade Carbon Steel Model No.	2Grade Stainless Steel Model No.
50x40mm	639-2155	638-2155	639-2255	638-2255	639-2355	638-2355
75x50mm	639-2160	638-2160	639-2260	638-2260	639-2360	638-2360
100x70mm	639-2165	638-2165	639-2265	638-2265	639-2365	638-2365
125x80mm	639-2166	638-2166	639-2266	638-2266	639-2366	638-2366
150x100mm	639-2170	638-2170	639-2270	638-2270	639-2370	638-2370
200x130mm	639-2175	638-2175	639-2275	638-2275	639-2375	638-2375
300x200mm	639-2180	638-2180	639-2280	638-2280	639-2380	638-2380

45° & 60° Flat Squares



45°					60°			
Range	1Grade Carbon Steel	1Grade Stainless Steel	2Grade Carbon Steel	2Grade Stainless Steel	1Grade Carbon Steel	1Grade Stainless Steel	2Grade Carbon Steel	2Grade Stainless Steel
	Model No.	Model No.	Model No.	Model No.	Model No.	Model No.	Model No.	Model No.
100x70mm	639-2710	638-2710	639-2810	638-2810	639-6310	638-6310	639-6410	638-6410
125x80mm	639-2712	638-2712	639-2812	638-2812	639-6312	638-6312	639-6412	638-6412
150x100mm	639-2715	638-2715	639-2815	638-2815	639-6315	638-6315	639-6415	638-6415
200x130mm	639-2720	638-2720	639-2820	638-2820	639-6320	638-6320	639-6420	638-6420
250x160mm	639-2725	638-2725	639-2825	638-2825	639-6325	638-6325	639-6425	638-6425
300x200mm	639-2730	638-2730	639-2830	638-2830	639-6330	638-6330	639-6430	638-6430

45° & 60° Squares With Wide Base



45°					60°			
Range	1Grade	1Grade	2Grade	2Grade	1Grade	1Grade	2Grade	2Grade
	Carbon	Stainless	Carbon	Stainless	Carbon	Stainless	Carbon	Stainless
	Steel	Steel	Steel	Steel	Steel	Steel	Steel	Steel
	Model No.	Model No.	Model No.	Model No.	Model No.	Model No.	Model No.	Model No.
100x70mm	639-1710	638-1710	639-1810	638-1810	639-6610	638-6610	639-6710	638-6710
125x80mm	639-1712	638-1712	639-1812	638-1812	639-6612	638-6612	639-6712	638-6712
150x100mm	639-1715	638-1715	639-1815	638-1815	639-6615	638-6615	639-6715	638-6715
200x130mm	639-1720	638-1720	639-1820	638-1820	639-6620	638-6620	639-6720	638-6720
250x160mm	639-1725	638-1725	639-1825	638-1825	639-6625	638-6625	639-6725	638-6725
300x200mm	639-1730	638-1730	639-1830	638-1830	639-6630	638-6630	639-6730	638-6730

Measuring Tools



90° SQUARE WITH BASE, ZINC-PLATED



Size (mm)	Without base Model No.	With base Model No.
100x70	639-0205	639-0305
150x100	639-0210	639-0310
200x130	639-0215	639-0315
250x160	639-0220	639-0320
300x180	639-0225	639-0325
400x230	639-0230	639-0330
500x280	639-0235	639-0335
600x330	639-0240	639-0340
750x375	639-0245	639-0345
800x430	639-0247	639-0347
1000x500	639-0250	639-0350

CARPENTER'S STEEL SQUARES CHROME-PLATED



Size (mm)	Without marking hole Model No.	With marking hole Model No.
500X250	639-0605	639-0705
600X280	639-0610	639-0710
700X300	639-0615	639-0715
800X320	639-0620	639-0720
1000X380	639-0625	639-0725

FLANGE SQUARE, ZINC-PLATED



Size (mm)	Model No.
250X250	639-0403
300X300	639-0405
400X400	639-0410
500X500	639-0415
600X600	639-0420

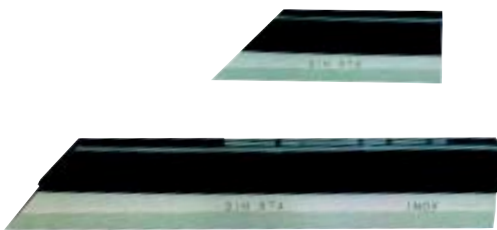
ADJUSTABLE SQUARES, ZINC-PLATED

Size (mm)	Model No.
150	639-0505
200	639-0510
250	639-0515
300	639-0520
400	639-0525
500	639-0530



STRAIGHT EDGE RULERS, DIN874

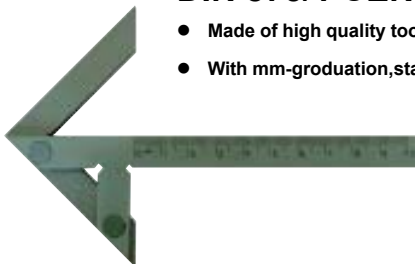
Black Chrome-Plated Measuring Face



	00Grade Carbon Steel Model No.	00Grade Stainless Steel Model No.	0Grade Carbon Steel Model No.	0Grade Stainless Steel Model No.	00Grade Carbon Steel Model No.	0Grade Carbon Steel Model No.
Range						
50mm	639-7003	638-7003	639-7103	638-7103	639-7053	639-7153
75mm	639-7005	638-7005	639-7105	638-7105	639-7055	639-7155
100mm	639-7010	638-7010	639-7110	638-7110	639-7060	639-7160
125mm	639-7015	638-7015	639-7115	638-7115	639-7065	639-7165
150mm	639-7020	638-7020	639-7120	638-7120	639-7070	639-7170
200mm	639-7025	638-7025	639-7125	638-7125	639-7075	639-7175
250mm	639-7030	638-7030	639-7130	638-7130	639-7080	639-7180
300mm	639-7035	638-7035	639-7135	638-7135	639-7085	639-7185
400mm	639-7040	638-7040	639-7140	638-7140	639-7090	639-7190

DIN 875/1 CENTER SQUARES

- Made of high quality tool steel
- With mm-graduation, stain chrome finished



Range	Model No.
100x70mm	639-2410
150x130mm	639-2415
200x150mm	639-2420
250x160mm	639-2425
300x180mm	639-2430

UNIVERSAL BEVEL PROTRACTORS



Range	Reading Value	Model No.
0° to 320°	2"	635-7780

LOCKING TYPE PROTRACTORS

Measuring Range: 0-180°



		Chrome-Plated Tool Steel Model No.	Stainless Steel Model No.
Dia. of Protractor	Length of Blade		
80mm	120mm	635-7781	635-7881
120mm	150mm	635-7782	635-7882
150mm	200mm	635-7783	635-7883
200mm	300mm	635-7784	635-7884
300mm	500mm	635-7785	635-7885
300mm	600mm	635-7786	635-7886
300mm	800mm	635-7787	635-7887
400mm	600mm	635-7788	635-7888
400mm	800mm	635-7789	635-7889
400mm	1000mm	635-7790	635-7890

RIVETING TYPE PROTRACTORS

Measuring Range: 0-180°

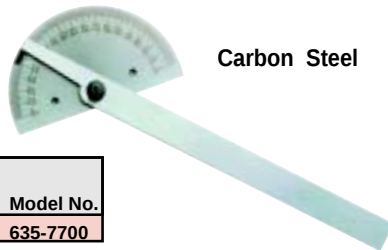


		Chrome-Plated Tool Steel Model No.	Stainless Steel Model No.
Dia. of Protractor	Length of Blade		
80mm	120mm	635-8010	635-8110
120mm	150mm	635-8015	635-8115
150mm	200mm	635-8020	635-8120
200mm	300mm	635-8025	635-8125



Measuring Tools

LOCKING TYPE PROTRACTORS

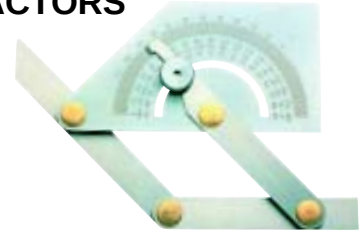


Carbon Steel

Dia. of Protractors	Length of Blade	Model No.
85mm	150mm	635-7700

BEVEL PROTRACTORS

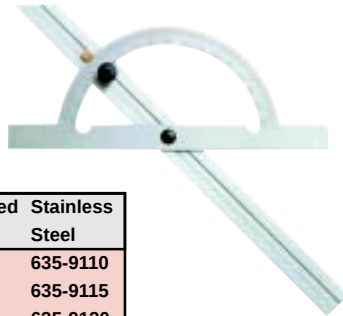
Stainless Steel



Range	Model No.
0-180°	635-7800

ADJUSTABLE PROTRACTORS

Measuring Range: 10-170°

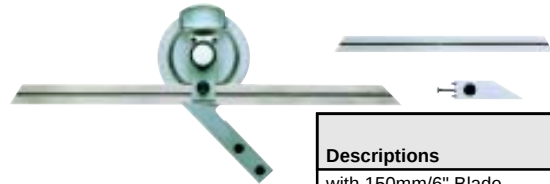


Range	Chrome-Plated Tool Steel	Stainless Steel
100-150mm	635-9010	635-9110
150-300mm	635-9015	635-9115
200-400mm	635-9020	635-9120
250-500mm	635-9025	635-9125
300-600mm	635-9030	635-9130

PARALLAX LESS

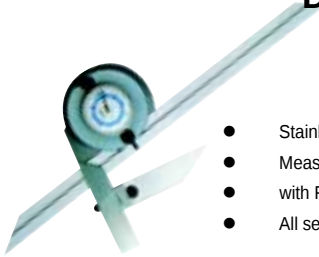
UNIVERSAL BEVEL PROTRACTORS

- Stainless Steel
- Measuring Range 0-360°
- with Fine Adjustment
- All set with additional blades

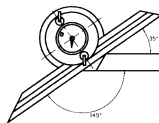


Descriptions	Model No.
with 150mm/6" Blade	635-6552
with 200mm/8" Blade	635-6554
with 300mm/12" Blade	635-6557
with 150, 200, 300mm Blades	635-6508

DIAL UNIVERSAL BEVEL PROTRACTORS



- Stainless Steel
- Measuring Range 0-360°
- with Fine Adjustment
- All set with additional blades



Descriptions	Model No.
with 150mm/6" Blade	635-6601
with 200mm/8" Blade	635-6602
with 300mm/12" Blade	635-6603
with 150, 200, 300mm Blades	635-6604

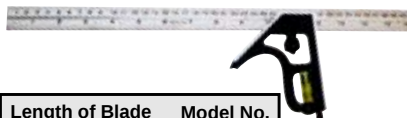
STRAIGHT BLADE

Only For Bevel protractor

size	Model No.
150mm/6"	635-6501
200mm/8"	635-6502
300mm/12"	635-6503
500mm/20"	635-6504

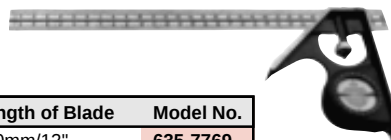
COMBINATION SQUARES

2pcs/set, Stainless Steel Blade, Measuring Range 0-180°



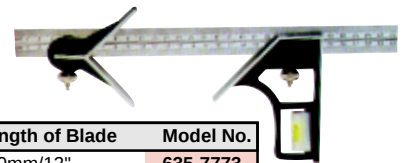
Length of Blade	Model No.
300mm/12"	635-7765
500mm/20"	635-7766
300mm	635-7767
500mm	635-7768

2pcs/set, Stainless Steel Blade, Measuring Range 0-180°



Length of Blade	Model No.
300mm/12"	635-7769
500mm/20"	635-7770
300mm	635-7771
500mm	635-7772

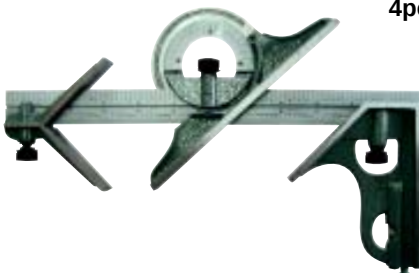
3pcs/set, Stainless Steel Blade, Measuring Range 0-180°



Length of Blade	Model No.
300mm/12"	635-7773
500mm/20"	635-7774
300mm	635-7775
500mm	635-7776

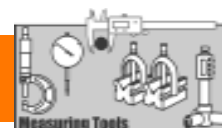
SQUARE, COMBINES WITH BEVEL PROTRACTORS

4pcs/set in wooden box or carton. Measuring range 0-180°. Stainless steel blade.



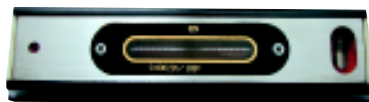
Length of Blade	Description	Model No.
300mm/12"	Double-Side with 4 grad: 1.0mm/1/64" and 0.5mm/1/32"	638-7754
500mm/20"	Double-Side with 4 grade: 1.0mm/1/64" and 0.5mm/1/32"	638-7764
600mm/24"	Double-Side with 4 grade: 1.0mm/1/64" and 0.5mm/1/32"	638-7766

Measuring Tools



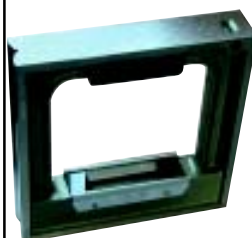
MASTER PRECISION LEVELS

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 hand scraped for extreme accuracy.



Inch			Metric		
	0.0002" per 10"	0.0005" per 10"		0.02mm per 1000mm	0.05mm per 1000mm
Size	Model No.	Model No.	Size	Model No.	Model No.
6"	639-3606	639-3616	150mm	639-3406	639-3506
8"	639-3608	639-3618	200mm	639-3408	639-3508
10"	639-3610	639-3620	250mm	639-3410	639-3510
12"	639-3612	639-3622	300mm	639-3412	639-3512

PRECISION FRAME SPIRIT LEVELS



- Use for adjusting and checking horizontal and vertical surfaces and shafts.
- Sensitivity 0.0002" per 10", .0005" per 10", 0.02mm per 1000mm, 0.05mm per 1000mm.
- 2 Side with flat bearing surfaces and 2 sides with flat plus Vee bearing surfaces.
- Heat insulating top handle.

Inch			Metric		
	0.0002" per 10"	0.0005" per 10"		0.02mm per 1000mm	0.05mm per 1000mm
Dim.	Model No.	Model No.	Dimensions	Model No.	Model No.
6x6"	639-3906	639-3916	150x150mm	639-3706	639-3806
8x8"	639-3908	639-3918	200x200mm	639-3708	639-3808
10x10"	639-3910	639-3920	250x250mm	639-3710	639-3810
12x12"	639-3912	639-3922	300x300mm	639-3712	639-3812

MEASURING TOOL SETS



2 PIECE IN WOODEN BOX

A-Type Feature:

One 0-150mm Vernier Caliper

- Mono-Block, Thumb lock, .05mm

One 90° Knife Edge Square

- DIN 875/1, 100x70mm

Model No. 135-2001

B-Type Feature:

One 6" Vernier Caliper

- Graduation: 1/128"

One 90° Knife Edge Square

- DIN 875/1, 100x70mm

Model No. 135-2002

Model No. 13w-2012 Empty wooden box for 135-2001, 135-2002.



C-Type Feature:

One 6" Vernier Caliper

- Graduation: 1/128"

One 0-1" Outside Micrometer

Model No. 135-2003

D-Type Feature:

One 0-150mm Vernier Caliper

- Mono-Block, Thumb lock, .05mm

One 0-25mm Outside Micrometer

Model No. 135-2004

Model No. 13w-2034 Empty wooden box for 135-2003, 135-2004.

3 PIECE IN WOODEN BOX



A-Type Feature:

One 0-150mm Vernier Caliper

- Mono-Block, Thumb lock, .05mm

One 0-25mm Outside Micrometer

- Chrome-Plated

One 5-30mm Inside Micrometer

Model No. 135-3001

B-Type Feature:

One 0-6"mm Vernier Caliper

- Graduation: 1/128"

One 0-1" Outside Micrometer

One 0.2"-1.2" Inside Micrometer

Model No. 135-3002

Model No. 13w-3012 Empty wooden box for 135-3001, 135-3002.



Measuring Tools

MEASURING TOOL SETS

4 PIECE IN PLASTIC BOX



Model No. 13P-4012

Empty plastic box for 135-4001, 135-4002.

Model No. 13P-4034

Empty plastic box for 135-4003, 135-4004.

A-Type Feature:

One 0-150mm Vernier Caliper
 • Mono-Block, Thumb lock, 0.05mm
 One 0-25mm Outside Micrometer
 One 90° Knife Edge Square
 • DIN 875/1, 100x70mm
 One 150MM/6" Stainless Steel Ruler
 Model No. 135-4001

B-Type Feature:

One 6" Vernier Caliper
 • Graduation 1/128"
 One 0-1" Outside Micrometer
 One 90° Knife Edge Square
 • 100x70mm
 One 150MM/6" Stainless Steel Ruler
 Model No. 135-4002

C-Type Feature:

One 0-150mm Dial Caliper
 • Graduation 0.02mm
 One 0-25mm Outside Micrometer
 One 90° Knife Edge Square
 • DIN 875/1, 100x70mm
 One 150MM/6" Stainless Steel Ruler
 Model No. 135-4003

D-Type Feature:

One 6" Dial Caliper
 • Graduation 0.001"
 One 0-1" Outside Micrometer
 One 90° Knife Edge Square
 • 100x70mm
 One 150MM/6" Stainless Steel Ruler
 Model No. 135-4004

5 PIECE IN WOODEN BOX



A-Type Feature:

One 0-150mm Vernier Caliper
 • Mono-Block, Thumb lock, 0.05mm
 One 0-25mm Digital Readout Outside Micrometer
 One 0-200mm Depth Gauge
 • Graduation 0.05mm
 One 90° Knife Edge Square
 • DIN 875/1, 100x70mm
 One Straight Edge Ruler
 • DIN 874/0, 100mm
 Model No. 135-5001

B-Type Feature:

One 0-6" Vernier Caliper
 • Graduations 1/128"
 One 0-1" Digital Readout Outside Micrometer
 One 0-8" Depth Gauge
 • Graduations 1/128"
 One 90° Knife Edge Square
 • DIN 875/1, 100x70mm
 One Straight Edge Ruler
 • DIN 874/0, 100mm
 Model No. 135-5002

Model No. 13w-5012 Empty wooden box for 135-5001, 135-5002.

C-Type Feature:

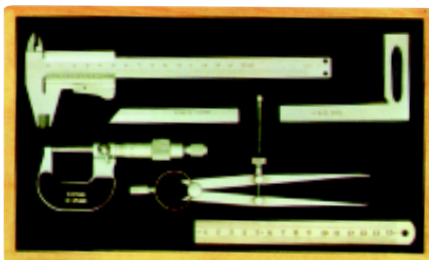
One 0-150mm Vernier Caliper
 • Mono-Block, Thumb lock, .05mm
 One 0-25mm Outside Micrometer
 One 90° Knife Edge Square
 • DIN 875/1, 100x70mm
 One 150MM/6" Stainless Steel Ruler
 One Steel Scriber
 Model No. 135-5003

D-Type Feature:

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
 Model No. 135-5004

Model No. 13w-5034 Empty wooden box for 135-5003, 135-5004.

6 PIECE IN WOODEN BOX



A-Type Feature:

One 0-150mm Vernier Caliper
 • Mono-Block, Thumb lock, 0.05mm
 One 0-25mm Outside Micrometer
 One 90° Knife Edge Square
 • DIN 875/1, 100x70mm
 One 150MM/6" Stainless Steel Ruler
 One Steel Scriber
 One Steel Divider
 Model No. 135-6001

B-Type Feature:

One 0-6" Vernier Caliper
 • Graduation 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
 One Steel Divider
 Model No. 135-6002

Model No. 13w-6012 Empty wooden box for 135-6001, 135-6002.

Measuring Tools



MEASURING TOOL SETS

Model No.135-2011

2pcs/set in plastic box

Including: 0-0.8mm test indicator 605-4713

& Mini magnetic stand 17kg 625-0581

Plastic box for 135-2011: Model No.135-CP26



Model No.135-3011

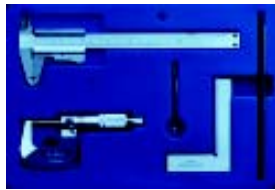
3pcs/set in plastic box.

Including: 150mm 3-key digital caliper 101-3506,

0-25mm outside micrometer 601-4025

& 0-10mm dial indicator 605-4125

Plastic box for 135-3011: Model No.135-CP22



Model No.135-4011

4pcs/set in plastic box.

Including: 150/6"x1/128"/0.05mm INOX mono-block 818-0158

thumb-lock caliper, 25x0.01mm outside micrometer, 601-4025

900100x70mm INOX knife edge square DIN875/00, 638-1015

150mm stainless steel straight ruler. 638-9061

Plastic box for 135-4011: Model No.135-CP24

2 Piece Set



Set Model No.	Specification	Individual Model No.	Plastic case Model No.
135-0001	●0-4" Black face Dial caliper ●0-1" Black face Dial indicator	10B-S004 605-4080	135-CP01
135-0004	●0-4" White face Dial caliper ●0-1" White face Dial indicator	10W-S004 605-4070	135-CP01
135-0016	●0-6" Black face Dial caliper ●0-1" Black face Dial indicator	10B-S006 605-4080	135-CP16
135-0017	●0-6" White face Dial caliper ●0-1" White face Dial caliper	10W-S006 605-4070	135-CP16

2 Piece Set



Set Model No.	Specification	Individual Model No.	Plastic case Model No.
135-0002	●0-1" White face Dial indicator ●60kg Magnetic base W/fine adj.	605-4070 625-0341	135-CP02
135-0005	●0-1" Black face Dial indicator ●60kg Magnetic base W/fine adj.	605-4080 625-0341	135-CP02
135-0022	●10mm dial indicator ●60kg magnetic stand with fine adjustment and long arm	601-4125 605-3341	135-CP20

2 Piece Set



Set Model No.	Specification	Individual Model No.	Plastic case Model No.
135-0014	●0.03x0.0005" White face test indicator ●1-7/8" test indicator holder	605-4710 625-8522	135-CP14
135-0015	●0.03x0.0005" Black face test indicator ●1-7/8" test indicator holder	605-4709 625-8522	135-CP14

MEASURING TOOL SETS

3 Piece Set



Set Model No.	Specification	Individual Model No.	Plastic case Model No.
135-0008	●0-6" Black face Dial caliper ●0.03x0.0005" Black face test indicator ●0-1x0.0001"Outside micrometer	10B-S006 605-4709 601-0111	135-CP08
135-0009	●0-6" White face Dial caliper ●0.03x0.0005" White face test indicator ●0-1x0.0001"Outside micrometer	10W-S006 605-4710 601-0111	135-CP08



Measuring Tools



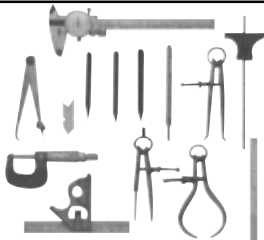
6 Piece Set

Set Model No.	Specification	Individual Model No.	Plastic case Model No.
135-0012	●0-6" White face Dial caliper ●0-1" White face Dial indicator ●0.03x0.0005" White face test indicator ●0-1x0.0001" Outside micrometer ●60kg Magnetic base W/fine adj. ●22-pc Indicator point set	10W-S006 605-4070 605-4710 601-0111 625-0341 605-0022	135-CP12
135-0013	●0-6" Black face Dial caliper ●0-1" Black face Dial indicator ●0.03x0.0005" Black face test indicator ●0-1x0.0001" Outside micrometer ●60kg Magnetic base W/fine adj. ●22-pc Indicator point set	10B-S006 605-4080 605-4709 601-0111 625-0341 605-0022	135-CP12



6 Piece Set

Set Model No.	Specification	Individual Model No.	Plastic case Model No.
135-0018	●0-6" White face Dial caliper ●0-1x.0001"Outside micrometer ●Square head (638-7759) ●Protractor head (638-7757) ●Center head (638-7758) ●12" Blade (638-7752) 4R (8ths, 16ths, 32nds, 64ths)	10W-S006 601-0111 638-7756	135-CP18
135-0019	●0-6" Black face Dial caliper ●0-1x.0001"Outside micrometer ●Square head (638-7759) ●Protractor head (638-7757) ●Center head (638-7758) ●12" Blade 4R (638-7752) (8ths, 16ths, 32nds, 64ths)	10B-S006 601-0111 638-7756	135-CP18



14 PIECE MEASURING TOOL KIT

Model No.135-0000

- 0-1" Micrometer Model No. 601-0111
- 0.0001" Graduation, Carbide Faces.
- 0-100 Dial Reading 6" Dial Caliper Model No.10w-s006
- 6"Flex Scale" 8ths, 16ths, 32ths&64ths Model No.638-7854
- 6"Combination Square Model No. 638-7750



BENCH CENTER

For accurate concentricity inspection.

- Features:**
- 100mm/4" Outside Caliper Model No.108-1104
 - 100mm/4" Inside Caliper 108-1004
 - 4" Dividers Spring Type Model No. 108-0904
 - 6" Depth Gages Model No. 615-6122
 - Center Gage Model No.615-6300
 - 4" Hermaphrodite Caliper Model No. 108-1204
 - 5-1/2" Scriber Model No. 830-0382
 - 3piece Center Punch Set Model No. 830-0240

Distance Between Center	Center height	Weight	Model No.
500mm	170mm	80kgs	640-2001
600mm	170mm	85kgs	640-2003
1000mm	250mm	90kgs	640-2002

PROFILE PROJECTORS

Horizontal Benchtop Model



Model No. 640-2000

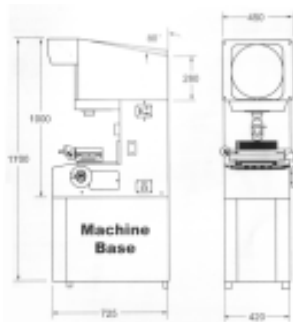
- Reliable quality.
- Compact workstage with two dial indicators for measuring travels of X and Y directions.
- Complete set of the objective lens magnifications for different measuring range.
- Projection lens for a large view field and sharp image at the optimum intensity of brightness.

Protractor Screen.....14(355.6mm)
 Magnifications.....10X, 20X, 40X
 Max. Workpiece Diameter.....1.4(35.6mm), 0.7(17.8mm), 0.35(8.9mm)
 Workstage travel.....6(152.4mm) horizontal, 2(50.8mm) vertical, Focus1(25.4mm)
 Measurement Display system....Dial Indicator 0-1"(.001 or 30mm(.01mm)
 Vernier Protractor graduation.....5"
 Dimensions.....900mmx400mmx800mm



HIGH PRECISION OPTICA PROFILE PROJECTOR

- Provide accurate 2D measurement for all common geometric features such as circles, lines, angles etc.
- All measured results can be printed or transferred to computer for further processing



Specification	Model No. 640-3000			Model No. 640-3500		
Table						
Table Size	350x170mm			420x250mm		
Glass size	225x120mm			290x190mm		
X measurement travel	200mm			250mm		
Y measurement travel	100mm			150mm		
Z focusing travel	90mm			90mm		
XY readout resolution	0.001mm			0.001mm		
Axial measuring accuracy	(3+L/100)um			(3+L/100)um		
Screen						
Scerre size	315mm			415mm		
A readout range	0-360°			0-360°		
A readout resolution	0.01°			0.01°		
Max.contour distortion	0.08%			0.08%		
Lens						
Magnifications	10X	20X	50X	10X	20X	50X
Visiable field(Dia.)	30mm	15mm	6mm	40mm	20mm	8mm
Object focal distance	73mm	35mm	15mm	81mm	71mm	65mm

Measuring System Specifications

Coordinates	X,Y axes linear transducer A axis rotary encode
Resolution	0.001mm(X,Y axes) / 0.01° (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

DIGITAL READOUT SYSTEM



- Double seals design for better protection against water, dust and swarf
- 100% laser calibration
- Advanced optical measuring system
- High noise immunity & EMC design
- Robust casing, chromium plated panel
- Ultra low temperature rise transformer
- Resolution 0.005mm(0.002"), ergonomically designed keyboard
- Can be easily installed

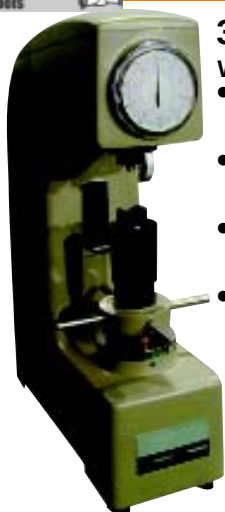
2 Axis "X,Y" Digital Readout Carbinet only **Model No.643-0002**
 3 Axis "X,Y,Z" Digital Readout Carbinet only **Model No.643-0003**
 Data Output Line only **Model No.643-0000**

Scale Size	2 -Axis X, Y		3 -Axis X, Y,Z
	Individual Linear Scale	Set with 2pcs scales	Set with 3pcs scales
Model No.	Model No.	Model No.	Model No.
100mm	643-1010	643-2010	643-3010
150mm	643-1015	643-2015	643-3015
200mm	643-1020	643-2020	643-3020
250mm	643-1025	643-2025	643-3025
300mm	643-1030	643-2030	643-3030
350mm	643-1035	643-2035	643-3035
400mm	643-1040	643-2040	643-3040
450mm	643-1045	643-2045	643-3045
500mm	643-1050	643-2050	643-3050
550mm	643-1055	643-2055	643-3055
600mm	643-1060	643-2060	643-3060
650mm	643-1065	643-2065	643-3065
700mm	643-1070	643-2070	643-3070
750mm	643-1075	643-2075	643-3075
800mm	643-1080	643-2080	643-3080
850mm	643-1085	643-2085	643-3085
900mm	643-1090	643-2090	643-3090
950mm	643-1095	643-2095	643-3095
1000mm	643-1100	643-2100	643-3100
1100mm	643-1110	643-2110	643-3110
1200mm	643-1120	643-2120	643-3120
1300mm	643-1130	643-2130	643-3130
1400mm	643-1140	643-2140	643-3140
1500mm	643-1150	643-2150	643-3150
1600mm	643-1160	643-2160	643-3160
1700mm	643-1170	643-2170	643-3170
1800mm	643-1180	643-2180	643-3180
1900mm	643-1190	643-2190	643-3190
2000mm	643-1200	643-2200	643-3200
2200mm	643-1220	643-2220	643-3220
2400mm	643-1240	643-2240	643-3240
2600mm	643-1260	643-2260	643-3260
2800mm	643-1280	643-2280	643-3280
3000mm	643-1300	643-2300	643-3300

* Further measuring lengths on request



Measuring Tools



3R-TYPE HARDNESS TESTER WITH AUTOMATIC DIAL WEIGHT SELECTION

- 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.

Standard Accessories

5-3/4" Testing Table
2-3/16" Testing Table
2-3/16" Testing Table
120 i Diamond Penetrator
Rockwell A Test Block (1Pc)
Rockwell B Test Block (1 Pc)
Rockwell C Test Blocks (3Pcs)
Screwdrivers (2Pcs)
Complete instruction Manual
Dust- Proof Plastic cover

Model No. 639-2030

Different Rockwell Hardness Scale

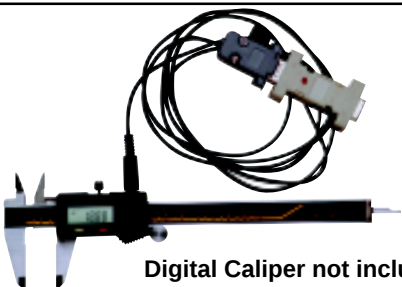
Scale	Penetrator	Loading kg.	Applications	Brinell vale	Working Range
A	Diamond 120j	60	Carbide, thin steel, shallow case-hardened steel, case-carbonized surfaces	Over HB400	40-91 for hardness greater than C65
B	1/16" Ball	100	Aluminum alloys, copper alloys, unhardened steel etc. In rolled, draw, extruded or cast metal	HB 100-240	30-100 for hardness lower than C65
C	Diamond 100j	150	Hard cast irons, pearlitic malleable iron, steel, deep case hardened steel, Titanium	Over HB230	20-70 for hardness lower than C65
D	Diamond 100j	100	Pearlitic malleable iron, thin steel & medium case-hardened steel	Over HB400	40-77 for intermediate load between A & C scale
E	1/16" Ball	100	Cast iron, Aluminum and magnesium alloys, bearing metals	Below HB125	50-100 for hardness lower than HRB0
F	1/16" Ball	60	Thin soft sheet metals. Annealed copper alloys	HB 50-120	30-100 for hardness lower than HRB0
G	1/16" Ball	150	Copper-Nickel-Zinc and Cupro-Nickel alloys, malleable irons	HB 120-280	30-90 for hardness slightly > than HRB 100 upper limit G92
H	1/8" Ball	60	Lead, Zinc, Aluminum	HB	70-100
K	1/8" Ball	150	Bearing metals, very soft or thin material	HB 100-200	40-100

HARDNESS TESTER ACCESSORIES

Description	Model No.
Large Flat Anvil	HARD-100
Small Flat Anvil	HARD-101
V-Notch Anvil	HARD-102
Diamond Penetration	HARD-103
Steel Ball Penetration	HARD-104
5 Pcs Steel Ball Dia. 158mm	HARD-105
Rockwell Standard Block 80-85 HRB	HARD-106
Rockwell Standard Block 85-95 HRB	HARD-107
Rockwell Standard Block 60-70 HRC	HARD-108
Rockwell Standard Block 35-55 HRC	HARD-109
Rockwell Standard Block 20-30 HRC	HARD-110
Large Screw Driver	HARD-111
Small Screw Driver	HARD-112
Accessory Box	HARD-113

Loads and Indicators

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



Digital Caliper not included

- 9 pin male COM port design for connection on different SPC cable.
- Much smaller interface size than model 101-0040.
- Fine quality cream-colored plastic case.

MINI-INTERFACE SET

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



Model No. 101-0040

Set include:

- One integrated interface with one 9 pin male end (for SPC cable) and 9 pin female end (for PC COM port).
- One SPC connection cable, 4 pin flat on one end (for connecting digital measuring tools), 9 pin female on other (for connecting interface).
- Two floppy disk contain easy operating interface software.
- One Plastic case size is 1-1/2"x4"x7" (3.5x10.4x17.5mm)

Interface Size: 17 x 33x 64mm
(7/10 x1-3/10 x 2-1/2")

INTERFACE & MICRO PRINTER SET

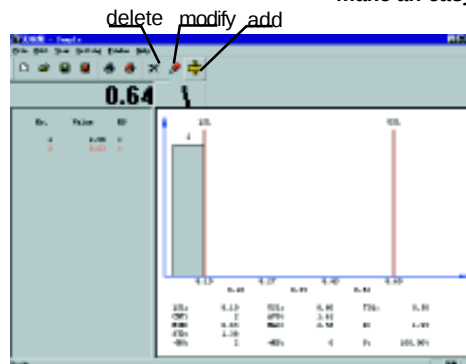
- Signal input cable with 25 pin plug.
- Offers various statistical data:
All input data
Number of data inputs (N)
Maximum value (MAX)
Minimum value (MIN)
Average (X-bar)
Standard Deviation (S)
- Power Supply: AC adaptor (DC5V, 1.7A)



Model No. 101-0050

Interface Software Win 95/98 Interface Software

Three function buttons
make an easy operation



Measuring Tools

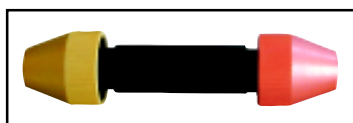


STEEL PLUG GAGE SETS

- 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".

Type	No. of Members	Size	Model No.
M0 Plus	50	0.011 to 0.060	616-8100
M0 Minus	50	0.011 to 0.060	616-8101
M1 Plus	190	0.061 to 0.250	616-8110
M1 Minus	190	0.061 to 0.250	616-8111
M2 Plus	250	0.251 to 0.500	616-8120
M2 Minus	250	0.251 to 0.500	616-8121
M3 Plus	125	0.501 to 0.625	616-8130
M3 Minus	125	0.501 to 0.625	616-8131
M4 Plus	125	0.626 to 0.750	616-8140
M4 Minus	125	0.626 to 0.750	616-8141
M5 Plus	82	0.751 to 0.832	616-8150
M5 Minus	82	0.751 to 0.832	616-8151
M6 Plus	84	0.833 to 0.916	616-8160
M6 Minus	84	0.833 to 0.916	616-8161
M7 Plus	84	0.917 to 1.000	616-8170
M7 Minus	84	0.917 to 1.000	616-8171

Complete With Plastic Case and Stand



PIN GAGE HANDLE

METRIC PIN GAGES

- Heat treated to a hardness of 60/62 HRC.
- 50mm overall length with sharp corners broken.
- Sets include fitted wooden case.



Range(mm)	Step (mm)	No. of Members	+0.002mm Tolerances Model No.	-0.002mm Tolerances Model No.	±0.001mm Tolerances Model No.	±0.002mm Tolerances Model No.	+0.005mm Tolerances Model No.	-0.005mm Tolerances Model No.
0.30-1.00	0.01	71	616-3071	616-4071	616-5071	616-6071	616-7071	616-9071
0.50-1.00	0.01	51	616-3051	616-4051	616-5051	616-6051	616-7051	616-9051
1.01-2.00	0.01	100	616-3102	616-4102	616-5102	616-6102	616-7102	616-9102
2.01-3.00	0.01	100	616-3103	616-4103	616-5103	616-6103	616-7103	616-9103
3.01-4.00	0.01	100	616-3104	616-4104	616-5104	616-6104	616-7104	616-9104
4.01-5.00	0.01	100	616-3105	616-4105	616-5105	616-6105	616-7105	616-9105
5.01-6.00	0.01	100	616-3106	616-4106	616-5106	616-6106	616-7106	616-9106
6.01-7.00	0.01	100	616-3107	616-4107	616-5107	616-6107	616-7107	616-9107
7.01-8.00	0.01	100	616-3108	616-4108	616-5108	616-6108	616-7108	616-9108
8.01-9.00	0.01	100	616-3109	616-4109	616-5109	616-6109	616-7109	616-9109
9.01-10.00	0.01	100	616-3110	616-4110	616-5110	616-6110	616-7110	616-9110
1.01-10.00	0.01	900	616-3900	616-4900	616-5900	616-6900	616-7900	616-9900
0.30-2.00	0.02	86	616-3086	616-4086	616-5086	616-6086	616-7086	616-9086
2.02-4.00	0.02	100	616-3114	616-4114	616-5114	616-6114	616-7114	616-9114
4.02-6.00	0.02	100	616-3116	616-4116	616-5116	616-6116	616-7116	616-9116
6.02-8.00	0.02	100	616-3118	616-4118	616-5118	616-6118	616-7118	616-9118
8.02-10.00	0.02	100	616-3119	616-4119	616-5119	616-6119	616-7119	616-9119
0.30-5.00	0.05	95	616-3095	616-4095	616-5095	616-6095	616-7095	616-9095
5.05-10.00	0.05	100	616-3022	616-4022	616-5022	616-6022	616-7022	616-9022
0.30-5.00	0.10	48	616-3048	616-4048	616-5048	616-6048	616-7048	616-9048
0.30-10.00	0.10	98	616-3098	616-4098	616-5098	616-6098	616-7098	616-9098
1.00-5.00	0.10	41	616-3041	616-4041	616-5041	616-6041	616-7041	616-9041
1.00-10.00	0.01	91	616-3091	616-4091	616-5091	616-6091	616-7091	616-9091
10.01-11.00	0.01	100	616-3112	616-4112	616-5112	616-6112	616-7112	616-9112
11.01-12.00	0.01	100	616-3113	616-4113	616-5113	616-6113	616-7113	616-9113
10.00-20.00	0.01	101	616-3101	616-4101	616-5101	616-6101	616-7101	616-9101
0.50-20.00	0.50	40	616-3040	616-4040	616-5040	616-6040	616-7040	616-9040
1.00-20.00	1.00	20	616-3020	616-4020	616-5020	616-6020	616-7020	616-9020
0.30-1.525	0.025	50	616-3050	616-4050	616-5050	616-6050	616-7050	616-9050
1.55-6.275	0.025	190	616-3190	616-4190	616-5190	616-6190	616-7190	616-9190
6.30-9.775	0.025	140	616-3140	616-4140	616-5140	616-6140	616-7140	616-9140
9.80-12.525	0.025	110	616-3111	616-4111	616-5111	616-6111	616-7111	616-9111
13.00-19.00	0.100	61	616-3061	616-4061	616-5061	616-6061	616-7061	616-9061
1.01-10.00	0.1&0.1±0.01	273	616-3273	616-4273	616-5273	616-6273	616-7273	616-9273



Measuring Tools

STEEL PLUG GAGE SETS,WITH CAPS



- 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 include fitted wooden case

Type	No. of Members	Size	Model No.
M0 Plus	50	0.011 to 0.060	616-8400
M0 Minus	50	0.011 to 0.060	616-8401
M1 Plus	190	0.061 to 0.250	616-8410
M1 Minus	190	0.061 to 0.250	616-8411
M2 Plus	250	0.251 to 0.500	616-8420
M2 Minus	250	0.251 to 0.500	616-8421
M3 Plus	125	0.501 to 0.625	616-8430
M3 Minus	125	0.501 to 0.625	616-8431
M4 Plus	125	0.626 to 0.750	616-8440
M4 Minus	125	0.626 to 0.750	616-8441
M5 Plus	82	0.751 to 0.832	616-8450
M5 Minus	82	0.751 to 0.832	616-8451
M6 Plus	84	0.833 to 0.916	616-8460
M6 Minus	84	0.833 to 0.916	616-8461
M7 Plus	84	0.917 to 1.000	616-8470
M7 Minus	84	0.917 to 1.000	616-8471

METRIC PIN GAGE SET,WITH CAPS

- Heat treated to a hardness of 60/62 HRC.
- 50mm overall length with sharp corners broken.
- Sets include fitted wooden case.

Range(mm)	Step (mm)	No. of Members	+0.002mm Tolerances Model No.	-0.002mm Tolerances Model No.	±0.001mm Tolerances Model No.	±0.002mm Tolerances Model No.	+0.005mm Tolerances Model No.	-0.005mm Tolerances Model No.
0.30-1.00	0.01	71	617-3071	617-4071	617-5071	617-6071	617-7071	617-9071
0.50-1.00	0.01	51	617-3051	617-4051	617-5051	617-6051	617-7051	617-9051
1.01-2.00	0.01	100	617-3102	617-4102	617-5102	617-6102	617-7102	617-9102
2.01-3.00	0.01	100	617-3103	617-4103	617-5103	617-6103	617-7103	617-9103
3.01-4.00	0.01	100	617-3104	617-4104	617-5104	617-6104	617-7104	617-9104
4.01-5.00	0.01	100	617-3105	617-4105	617-5105	617-6105	617-7105	617-9105
5.01-6.00	0.01	100	617-3106	617-4106	617-5106	617-6106	617-7106	617-9106
6.01-7.00	0.01	100	617-3107	617-4107	617-5107	617-6107	617-7107	617-9107
7.01-8.00	0.01	100	617-3108	617-4108	617-5108	617-6108	617-7108	617-9108
8.01-9.00	0.01	100	617-3109	617-4109	617-5109	617-6109	617-7109	617-9109
9.01-10.00	0.01	100	617-3110	617-4110	617-5110	617-6110	617-7110	617-9110
1.01-10.00	0.01	900	617-3900	617-4900	617-5900	617-6900	617-7900	617-9900
0.30-2.00	0.02	86	617-3086	617-4086	617-5086	617-6086	617-7086	617-9086
2.02-4.00	0.02	100	617-3114	617-4114	617-5114	617-6114	617-7114	617-9114
4.02-6.00	0.02	100	617-3116	617-4116	617-5116	617-6116	617-7116	617-9116
6.02-8.00	0.02	100	617-3118	617-4118	617-5118	617-6118	617-7118	617-9118
8.02-10.00	0.02	100	617-3119	617-4119	617-5119	617-6119	617-7119	617-9119
0.30-5.00	0.05	95	617-3095	617-4095	617-5095	617-6095	617-7095	617-9095
5.05-10.00	0.05	100	617-3022	617-4022	617-5022	617-6022	617-7022	617-9022
0.30-5.00	0.10	48	617-3048	617-4048	617-5048	617-6048	617-7048	617-9048
0.30-10.00	0.10	98	617-3098	617-4098	617-5098	617-6098	617-7098	617-9098
1.00-5.00	0.10	41	617-3041	617-4041	617-5041	617-6041	617-7041	617-9041
1.00-10.00	0.01	91	617-3091	617-4091	617-5091	617-6091	617-7091	617-9091
10.01-11.00	0.01	100	617-3112	617-4112	617-5112	617-6112	617-7112	617-9112
11.01-12.00	0.01	100	617-3113	617-4113	617-5113	617-6113	617-7113	617-9113
10.00-20.00	0.01	101	617-3101	617-4101	617-5101	617-6101	617-7101	617-9101
0.50-20.00	0.50	40	617-3040	617-4040	617-5040	617-6040	617-7040	617-9040
1.00-20.00	1.00	20	617-3020	617-4020	617-5020	617-6020	617-7020	617-9020
0.30-1.525	0.025	50	617-3050	617-4050	617-5050	617-6050	617-7050	617-9050
1.55-6.275	0.025	190	617-3190	617-4190	617-5190	617-6190	617-7190	617-9190
6.30-9.775	0.025	140	617-3140	617-4140	617-5140	617-6140	617-7140	617-9140
9.80-12.525	0.025	110	617-3111	617-4111	617-5111	617-6111	617-7111	617-9111
13.00-19.00	0.100	61	617-3061	617-4061	617-5061	617-6061	617-7061	617-9061
1.01-10.00	0.1&0.1±0.01	273	617-3273	617-4273	617-5273	617-6273	617-7273	617-9273

Measuring Tools



RECTANGULAR GAGE BLOCK SETS

All sets are supplied in deluxe fitted wood cases

Meets federal specifications GGG-G-15C tolerances on length for inch gage blocks Tolerance grade.

Grade B blocks are guaranteed to be ± 0.000050 " from nominal in 1" and under

Nominal Size	Grade 2 (Grade A+)	Grade 3 (Grade A and B)
1" and less	+4, -2	+8-4
2	+8, -4	+16-8
3	+10, -5	+20-10
4	+12, -6	+24-12



81 PIECE RECTANGULAR SETS

81 piece sets include the following:

- 1 Block 0.050"
- 10 Blocks 0.1000"-0.1009" in 0.0001 steps
- 49 Blocks 0.101"-0.149" in 0.001" steps
- 17 Blocks 0.150"-0.950" in 0.050" steps
- 4 Blocks 1.000"-4.000" in 1.000" steps

Grade	81 Piece Steel Model No.	81 Piece Solid Carbide Model No.
2	630-4110	125-0812
3	630-4113	125-0813
B	630-4115	125-0814
B	630-4117 *	

Every grade is supplied with certificated of calibration traceable to NIST



36 PIECE RECTANGULAR SETS

36 Piece Steel Sets Include the Following:

- 1 Block 0.50"
- 10 Blocks 0.1000"-0.1009" in 0.0001" steps
- 9 Blocks 0.101"-0.109" in 0.001" steps
- 9 Blocks 0.110"-0.190" in 0.010" steps
- 4 Blocks 0.200"-0.500" in 0.100" steps
- 3 Blocks 1,2,4"

Grade	36 Piece Steel Model No.	36 Piece Solid Carbide Model No.
2	630-4100	125-0362
3	630-4103	125-0363
B	630-4105	125-0364

Every grade is supplied with certificated of calibration traceable to NIST

INDIVIDUAL RECTANGULAR BLOCK INCH

630-XXXX Steel 125-XXXX Carbide

Size	2 Grade Model No.	3Grade Model No.	B Grade Model No.	Size	2 Grade Model No.	3Grade Model No.	B Grade Model No.	Size	2 Grade Model No.	3Grade Model No.	B Grade Model No.
0.10005"	-2205	-3205	-B205	0.117"	-2117	-3117	-B117	0.144"	-2144	-3144	-B144
0.1001"	-2001	-3001	-B001	0.118"	-2118	-3118	-B118	0.145"	-2145	-3145	-B145
0.1002"	-2002	-3002	-B002	0.119"	-2119	-3119	-B119	0.146"	-2146	-3146	-B146
0.1003"	-2003	-3003	-B003	0.120"	-2120	-3120	-B120	0.147"	-2147	-3147	-B147
0.1004"	-2004	-3004	-B004	0.121"	-2121	-3121	-B121	0.148"	-2148	-3148	-B148
0.1005"	-2005	-3005	-B005	0.122"	-2122	-3122	-B122	0.149"	-2149	-3149	-B149
0.1006"	-2006	-3006	-B006	0.123"	-2123	-3123	-B123	0.05"	-2305	-3305	-B305
0.1007"	-2007	-3007	-B007	0.124"	-2124	-3124	-B124	0.10"	-2310	-3310	-B310
0.1008"	-2008	-3008	-B008	0.125"	-2125	-3125	-B125	0.15"	-2315	-3315	-B315
0.1009"	-2009	-3009	-B009	0.126"	-2126	-3126	-B126	0.20"	-2320	-3320	-B320
1"	-2100	-3100	-B100	0.127"	-2127	-3127	-B127	0.25"	-2325	-3325	-B325
0.1010"	-2101	-3101	-B101	0.128"	-2128	-3128	-B128	0.30"	-2330	-3330	-B330
0.102"	-2102	-3102	-B102	0.129"	-2129	-3129	-B129	0.35"	-2335	-3335	-B335
0.103"	-2103	-3103	-B103	0.130"	-2130	-3130	-B130	0.40"	-2340	-3340	-B340
0.104"	-2104	-3104	-B104	0.131"	-2131	-3131	-B131	0.45"	-2345	-3345	-B345
0.105"	-2105	-3105	-B105	0.132"	-2132	-3132	-B132	0.50"	-2350	-3350	-B350
0.106"	-2106	-3106	-B106	0.133"	-2133	-3133	-B133	0.55"	-2355	-3355	-B355
0.107"	-2107	-3107	-B107	0.134"	-2134	-3134	-B134	0.60"	-2360	-3360	-B360
0.108"	-2108	-3108	-B108	0.135"	-2135	-3135	-B135	0.65"	-2365	-3365	-B365
0.109"	-2109	-3109	-B109	0.136"	-2136	-3136	-B136	0.70"	-2370	-3370	-B370
0.110"	-2110	-3110	-B110	0.137"	-2137	-3137	-B137	0.75"	-2375	-3375	-B375
0.111"	-2111	-3111	-B111	0.138"	-2138	-3138	-B138	0.80"	-2380	-3380	-B380
0.112"	-2112	-3112	-B112	0.139"	-2139	-3139	-B139	0.85"	-2385	-3385	-B385
0.113"	-2113	-3113	-B113	0.140"	-2140	-3140	-B140	0.90"	-2390	-3390	-B390
0.114"	-2114	-3114	-B114	0.141"	-2141	-3141	-B141	0.95"	-2395	-3395	-B395
0.115"	-2115	-3115	-B115	0.142"	-2142	-3142	-B142	4"	-2400	-3400	-B400
0.116"	-2116	-3116	-B116	0.143"	-2143	-3143	-B143	2"	-2200	-3200	-B200



Measuring Tools



81 PIECE SQUARE GAGE BLOCK SETS

Grade 2 & 3 Sets Come With A Certificate Of Accuracy.

A certificate of accuracy, traceable to the National Bureau of Standards is furnished with each Grade 2 & 3 Set. It indicates the actual size of each block to the closest millionth. This certificate, a highly important part of gage block use, is automatically provided. Each block is manufactured and calibrated to specifications which meet or exceed Federal Specifications GGG-G-15D. Each block is serialized regardless of the grade so that it can be easily identified when the block is re-calibrated and certified at a later date.

Sets Include All of The Following	Grade	Model No.
1 Block 0.050"	2	630-4120
10 Blocks 0.1000 thru 0.1009" in 0.0001" steps	3	630-4123
49 Blocks 0.101 thru 0.149" in 0.001" steps	B	630-4125
17 Blocks 0.150 thru 0.950" in 0.050" steps		
4 Blocks 1.0 thru 0.40" in 1" steps		

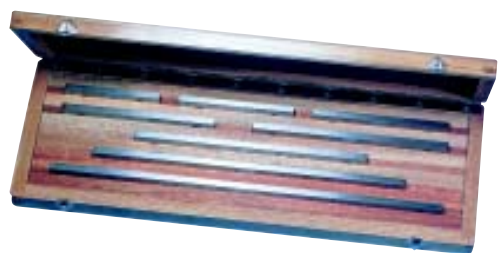
INCH CERAMIC GAGE BLOCK SETS



Grade	36 Piece Model No.	81 Piece Model No.
2	631-0362	631-0812
3	631-0363	631-0813
B	631-0364	631-0814

STEEL GAGE BLOCK SETS

Large Size



Piece/Set	Size	Grade 0 Model No.	Grade 1 Model No.	Grade 2 Model No.
5 Pcs/Set	600mm, 700mm, 800mm, 900mm, 1000mm	630-5000	630-5001	630-5002

Piece/Set	Size	Grade 0 Model No.	Grade 1 Model No.	Grade 2 Model No.
8 Pcs/Set	125mm, 150mm, 175mm, 200mm, 250mm, 300mm, 400mm, 500mm	630-8000	630-8001	630-8002

Piece/Set	Size	Grade 0 Model No.	Grade 1 Model No.	Grade 2 Model No.
8 Pcs/Set	25mm, 50mm, 75mm, 100mm, 125mm, 150mm, 175mm, 200mm	630-8200	630-8201	630-8202

Piece/Set	Size	Grade 2 (Grade A+) Model No.	Grade 3 (Grade A&B) Model No.	Grade B Model No.
8 Pcs/Set	5", 6", 7", 8", 10", 12", 16", 20"	630-8100	630-8101	630-8102

Piece/Set	Size	Grade 2 Model No.	Grade 1 Model No.	Grade 2 Model No.
12 Pcs/Set	25mm, 50mm, 75mm, 80mm, 105mm, 130mm, 155mm, 180mm, 205mm, 300mm	630-8300	630-8301	630-8302

SPACE BLOCK SETS

3/4" Diameter, 1/4-28 I.D. Thread

- Each block clearly marked for size
- Hardened and lapped
- 4 connecting screws included, make any length desired.
- Complete in fitted case.

Model No. 630-4050

3/4" Diameter, M6 Thread

Model No. 630-4051

0.0500	0.090	0.500	1.000	0.105	0.110	0.150
0.0600	0.100	0.600	0.101	0.106	0.120	0.160
0.0625	0.200	0.700	0.102	0.107	0.125	0.170
0.0700	0.300	0.800	0.103	0.108	0.130	0.180
0.0800	0.400	0.900	0.104	0.109	0.140	0.190
		1.00				



Measuring Tools



METRIC GAGE BLOCK SETS

Metric Gage Blocks meet GGG-G-15, DIN, & JIS Specifications are supplied as indicated in the table.



Piece/Set	Size(mm)	Steps(mm)	No.Of Blocks	Grade	Steel Model No.	Solid Carbide Model No.	Ceramic Model No.
122	1.0005	.....	1	0	630-1220		
	1.001-1.009	0.001	9	1	630-1221		
	1.01-1.49	0.01	49	2	630-1222		
	0.5-1.5	0.5	3	3	630-1223		
	1.6-1.9	0.1	4				
	2-25	0.5	47				
	30-70	10	5				
	75	.....	1				
116	80-100	10	3		630-1160		
	1.001-1.009	0.001	9	0	630-1161		
	1.01-1.49	0.01	49	1	630-1162		
	0.5-25	0.5	50	2	630-1163		
	30-100	10	8	3			
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	3	630-1123		
	25-100	25	4				
111	1.001-1.009	0.001	9	0	630-1110		
	1.01-1.49	0.01	49	1	630-1111		
	0.5-24.5	0.5	49	2	630-1112		
	25-100	25	4	3	630-1113		
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	3	630-1033		
91	1.001-1.009	0.001	9	0	630-0910		
	1.01-1.49	0.01	49	1	630-0911		
	1.6-1.9	0.1	4	2	630-0912		
	0.5-9.5	0.5	19	3	630-0913		
	10-100	10	10				
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	3	630-0883		
	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	3	630-0873		
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	3	630-0833		
	10-100	10	10				
79	1.005	.....	1	0	630-0790		
	1.01-1.49	0.01	49	1	630-0791		
	0.5-9.5	0.5	19	2	630-0792		
	10-100	10	10	3	630-0793		
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	3	630-0763		
	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	3	630-0477		
	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	3	630-0473		
	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	3	630-0463		
	10-100	10	10				
41	1.001-1.009	0.001	9	0	630-0410		
	1.01-1.09	0.01	9	1	630-0411		
	1.1-1.9	0.1	9	2	630-0412		
	1-9	1	9	3	630-0413		
	10,20,40,70,100mm	.....	5				



Measuring Tools

METRIC GAGE BLOCK SETS Continued

Piece/Set	Size(mm)	Steps(mm)	No.Of Blocks	Grade	Steel Model No.	Solid Carbide Model No.	Ceramic Model No.
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	3	630-0383		
	10-100	10	10				
33	1.005	.....	1	0	630-0330		
	1.01-1.09	0.01	9	1	630-0331		
	1.1-1.9	0.1	9	2	630-0332		
	1-9	1	9	3	630-0333		
	10,20,40,70,100mm	.....	5				
32	1.005	.....	1	0	630-0320		631-0320
	1.01-1.09	0.01	9	1	630-0321		631-0321
	1.1-1.9	0.1	9	2	630-0322		631-0322
	1-9	1	9	3	630-0323		
	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		
				2	630-0182		
				3	630-0183		
					630-0184		
18	1.001-1.009	0.001	9	0	630-0184		
	1.01-1.09	0.01	9	1	630-0185		
				2	630-0186		
				3	630-0187		
					630-0190		
18	1.005,1.01,1.02,1.03,1.06	.....	18	0	630-0191		
	1.1,1.2,1.3,1.6,1.2,3,6,			1	630-0192		
	10,20,30,60,100			2	630-0193		
				3	630-0130		631-0130
					630-0131		631-0131
13	2.5-12.9	2.6	5	0	630-0110		
	15-22.8	2.6	4	1	630-0111		
11	10,20,41,2,51,2,81,2,101,2			0	630-0100		631-0100
	121,5,121,8,125,175,250mm				630-0101		631-0101
10	2.5-12.9	2.6	5	1	630-0102		631-0102
	15-22.8	2.6	4	2			
9	1.001-1.009	0.001	9	0	630-0103		
				1	630-0090		
8				2	630-0091		
				3	630-0092		
8	10,20,41,2,51,2,81,2,101,2	.....	8	0	630-0093		
	121,5,121,8mm			1	630-0080		631-0080
					630-0081		631-0081

Individual Steel Rectangular Gage Block metric

Size	Grade 0 Model No.	Grade 1 Model No.	Grade 2 Model No.	Size	Grade 0 Model No.	Grade 1 Model No.	Grade 2 Model No.	Size	Grade 0 Model No.	Grade 1 Model No.	Grade 2 Model No.
1.0mm	632-0010	632-0011	632-0012	16.0mm	632-0160	632-0161	632-0161	100.0mm	632-1000	632-1001	632-1002
2.0mm	632-0020	632-0021	632-0022	17.0mm	632-0170	632-0171	632-0172	125.0mm	632-1250	632-1251	632-1252
3.0mm	632-0030	632-0031	632-0032	18.0mm	632-0180	632-0181	632-0182	150.0mm	632-1500	632-1501	632-1502
4.0mm	632-0040	632-0041	632-0042	19.0mm	632-0190	632-0191	632-0192	175.0mm	632-1750	632-1751	632-1752
5.0mm	632-0050	632-0051	632-0052	20.0mm	632-0200	632-0201	632-0202	200.0mm	632-2000	632-2001	632-2002
6.0mm	632-0060	632-0061	632-0062	25.0mm	632-0250	632-0251	632-0252	250.0mm	632-2500	632-2501	632-2502
7.0mm	632-0070	632-0071	632-0072	30.0mm	632-0300	632-0301	632-0302	300.0mm	632-3000	632-3001	632-3002
8.0mm	632-0080	632-0081	632-0082	40.0mm	632-0400	632-0401	632-0402	400.0mm	632-4000	632-4001	632-4002
9.0mm	632-0090	632-0091	632-0092	50.0mm	632-0500	632-0501	632-0502	500.0mm	632-5000	632-5001	632-5002
10.0mm	632-0100	632-0101	632-0102	60.0mm	632-0600	632-0601	632-0602	600.0mm	632-6000	632-6001	632-6002
11.0mm	632-0110	632-0111	632-0112	65.0mm	632-0650	632-0651	632-0652	700.0mm	632-7000	632-7001	632-7002
12.0mm	632-0120	632-0121	632-0122	70.0mm	632-0700	632-0701	632-0702	800.0mm	632-8000	632-8001	632-8002
13.0mm	632-0130	632-0131	632-0132	75.0mm	632-0750	632-0751	632-0752	900.0mm	632-9000	632-9001	632-9002
14.0mm	632-0140	632-0141	632-0142	80.0mm	632-0800	632-0801	632-0802	1000.0mm	632-9990	632-9991	632-9992
15.0mm	632-0150	632-0151	632-0152	90.0mm	632-0900	632-0901	632-0902				

Clamps

Capacity	Model No.
0-50mm	631-2050
0-100mm	631-2100
100-200mm	631-2200
300mm	631-2230
400mm	631-2250
500mm	631-2260

GAGE BLOCK ACCESSORIES

Base Blocks

50x60x25mm

Model No.631-2800

Radius Cylindrical Jaws

8x19x100mm Beveled Ends Jaw

100mm Straight Edge



Radius	Model No.
R2X10	631-2302
R2X15	631-2305
R10X40	631-2310

Model No.631-2400

Model No.638-7110

15mm Scriber Point

Center Point Dia.0.8x8mm

60mm Knife Edge Jaws

Model No.631-2700

Model No.631-2500

Model No.631-2600

Measuring Tools



GAGE BLOCK ACCESSORY SETS

Descriptions	10 Pcs/set Model No. 631-2910	11Pcs/set Model No. 631-2911	12Pcs/set Model No. 631-2912	15Pcs/set Model No. 631-2915	17Pcs/set Model No.631-2918
50mmClamp	1Piece	1Piece	1Piece	1Piece	1Piece
100mmClamp	1Piece	1Piece	1Piece	1Piece	1Piece
200mm Clamp	1Piece	1Piece	1Piece	1Piece	1Piece
2mm Radius Cylindrical Jaws	1Pair	1Pair	1Pair	1Pair	1Pair
5mm Radius Cylindrical Jaws	1Pair	1Pair	1Pair	1Pair	1Pair
10mm Radius Cylindrical Jaws		1Pair	1Pair	1Pair	1Pair
100mmBeveled Ends Jaws				1Pair	1Pair
100mmStraight Edge					1Piece
Scriber Point	1Piece	1Piece	1Piece	1Piece	1Piece
Center Point	1Piece		1Piece	1Piece	1Piece
Knife Edge Jaws				1Pair	1Pair
Base Block	1Piece	1Piece	1Piece		1Piece



PLANER AND SHAPER GAGES

Max. Range 1/4 - 6 - 1/4" with extension rod.

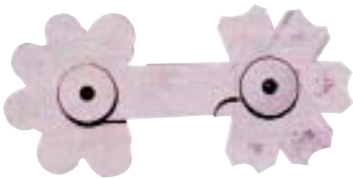
Model No.600-0049

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.

RADIUS GAGES



Blades	Blades		
Concave	Convex	Radius Range	Model No.
17	17	1.0-7.0mm, 1-3mm step by 0.25mm, 3.5-7.0mm step by 0.5mm	615-6550
16	16	7.5-15.0mm, step by 0.5mm	615-6555
16	16	15-25mm, step by 15-20mm step by 0.5mm 21-25mm step by 1.0mm	615-6560
15	15	1/32" - 1/4", step by 1/64"	615-6565
16	16	17/64" - 1/2", step by 1/64"	615-6570
16	16	17/32" - 1", step by 1/32"	615-6575

RADIUS GAGES SETS

Designed for checking radius, easier and faster, it can be used for inspection, layout, pattern making and all other machining job.

Satin chrome finished.

Each gage is marked with its individual size.

Each gage has five measuring surface for convex and concave radius.

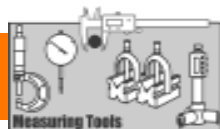


Range	Gages per set	Model No.
WITH holder 9/32" to 1/2" by 32nds	8Pcs	615-4008
WITH holder 9/16" to 1" by 16ths	8Pcs	615-4108
WITH holder 1-1/16" to 1-1/2" by 16ths	8Pcs	615-4208
WITHOUT holder 9/16" to 1" by 16ths	8Pcs	615-4308
WITHOUT holder 0.550 to 1" by 0.05"	10Pcs	615-4010
WITH holder 1/64" to 17/64" by 64ths	17Pcs	615-4017
WITHOUT holder 0.02" to 0.500"	19Pcs	615-4019
WITH holder 0.020" to 0.500"	19Pcs	615-4119
WITH holder 0.5-7mm by 0.5mm 8-15mm by 1mm	22Pcs	615-4022
WITH holder 1/64" to 17/64" by 64ths & 9/32 to 1/2 step by 32ths	25Pcs	615-4025
WITH holder 0.010" to 0.500"	26Pcs	615-4126
WITH holder 0.5-13.0mm by 0.5mm	26Pcs	615-4226

SCREW PITCH GAGES



Blades	Checking Range	Model No.	Blades	Checking Range	Model No.
14	0.35-3.0mm, METRIC 60°	615-6317	28	0.25-2.5mm, METRIC 60°	615-6339
20	0.4-6.0mm, METRIC 60°	615-6318	22	4-48TPI, INCH 55°	615-6322
	0.25-2.5mm, METRIC 60°	615-6320	10	13-40 TPI, METRIC 60°	615-6323
16	0.5-7.0mm METRIC 60°	615-6330	30	4-42TPI, INCH 55°	615-6324
18	0.25-2.5mm METRIC 60°	615-6332	30	4-42TPE, METRIC 60°	615-6342
18	0.4-7.0mm, METRIC 60°	615-6321	52	4-62TPI, INCH 55°	615-6348
				& 0.25-6mm,METRIC60°	
24	0.25-6.0mm, METRIC 60°	615-6340	51	4-84 TPI INCH 60°	615-6351
			30	6-60 TPI INCH 60°	615-6334



Measuring Tools

29° ACME SCREW THREAD GAGE

THREADS: 1, 1-1/3, 1-1/2, 1-3/4, 2, 2-1/2, 3, 4, 5, 6, 7, 8, 9, 10

Model No.615-6123



CENTER GAGE



Type	Model No.
Metric std. 60°	615-6260
Whitworth std. 55°	615-6255
U.S. std. 60°	615-6300

18 PCS ANGLE GAGE SET

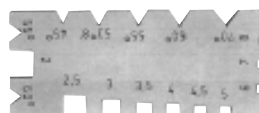
Stainless Steel

Model No.615-9180



Primary Angle	1/2Primary Angle	Complementary Angle	Primary Angle	1/2Primary Angle	Complementary Angle
5°	2°0"	175°	50°	25°	130°
10°	5°	170°	55°	27°30"	125°
15°	7°0"	165°	60°	30°	120°
20°	10°	160°	65°	32°30"	115°
25°	12°0"	155°	70°	35°	110°
30°	15°	150°	75°	37°30"	105°
35°	17°0"	145°	80°	40°	100°
40°	20°	140°	85°	42°30"	95°
45°	22°0"	135°	90°	45°	90°

UNIVERSAL THREAD CUTTER GAGES



Model No.615-7000

Square 2, 2.5, 3, 3.5, 4, 4.5, 5, 6, 7, 8

Angle 45°, 53°8', 55°, 60°, 70°6' 55°



Model No.615-7001

Din 103,

Tape 2, 3, 4, 5, 6, 7, 8, 9, 10, 12/ 30°



Model No.615-7002

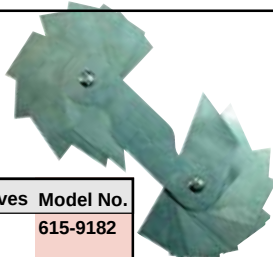
Tape 2, 3, 4, 5, 6, 7, 8, 9, 10, 12/ whitworth55°/Metrisch60° schnittwinkel 40°, 45°, 50°, 55°, 60°, 65°, 70°, 75°, 80°



Model No.615-7003

Tape 2, 3, 4, 5, 6, 7, 8, 9, 10, 12/ whitworth55°/Metrisch60°/ square 2, 2.5, 3, 3.5, 4, 4.5, 5, 6, 7, 8

ANGLE GAGES



RANGE	Leaves	Model No.
1°, 2°, 3°, 4°, 5°, 6°, 7°, 8°, 9°, 10°, 12°, 14°, 14-1/2°, 15°, 25°, 30°, 35°, 45°	18	615-9182
1°, 2°, 3°, 4°, 5°, 6°, 7°, 8°, 9°, 10°, 12°, 14°, 16°, 18°, 20°, 25°, 30°, 35°, 40°, 45°	20	615-9184

ANSI STANDARD THREAD GAGES



- The ANSI standard thread gauges are made in accordance with ANSI/ASME B1.2 - 1983.
- Series designation: UNC.

Standard Size Teeth per inch	Ring Gauge				Plug Gauge		
	2A		3A		GO & NO GO WITH HANDLE		
	GO Model No.	NO GO Model No.	GO Model No.	NO GO Model No.	1B Model No.	2B Model No.	3B Model No.
0.073-64	622-2001	622-4001	622-3001	622-5001	623-1001	623-2001	623-3001
0.086-56	622-2002	622-4002	622-3002	622-5002	623-1002	623-2002	623-3002
0.099-48	622-2003	622-4003	622-3003	622-5003	623-1003	623-2003	623-3003
0.112-40	622-2004	622-4004	622-3004	622-5004	623-1004	623-2004	623-3004
0.125-40	622-2005	622-4005	622-3005	622-5005	623-1005	623-2005	623-3005
0.138-32	622-2006	622-4006	622-3006	622-5006	623-1006	623-2006	623-3006
0.164-32	622-2007	622-4007	622-3007	622-5007	623-1007	623-2007	623-3007
0.190-24	622-2008	622-4008	622-3008	622-5008	623-1008	623-2008	623-3008
0.216-24	622-2009	622-4009	622-3009	622-5009	623-1009	623-2009	623-3009
0.250-20	622-2010	622-4010	622-3010	622-5010	623-1010	623-2010	623-3010
0.3125-18	622-2011	622-4011	622-3011	622-5011	623-1011	623-2011	623-3011
0.375-16	622-2012	622-4012	622-3012	622-5012	623-1012	623-2012	623-3012
0.4375-14	622-2013	622-4013	622-3013	622-5013	623-1013	623-2013	623-3013
0.500-13	622-2014	622-4014	622-3014	622-5014	623-1014	623-2014	623-3014
0.5625-12	622-2015	622-4015	622-3015	622-5015	623-1015	623-2015	623-3015
0.625-11	622-2016	622-4016	622-3016	622-5016	623-1016	623-2016	623-3016
0.750-10	622-2017	622-4017	622-3017	622-5017	623-1017	623-2017	623-3017
0.875-9	622-2018	622-4018	622-3018	622-5018	623-1018	623-2018	623-3018
1.000-8	622-2019	622-4019	622-3019	622-5019	623-1019	623-2019	623-3019
1.125-7	622-2020	622-4020	622-3020	622-5020	623-1020	623-2020	623-3020
1.250-7	622-2021	622-4021	622-3021	622-5021	623-1021	623-2021	623-3021
1.375-6	622-2022	622-4022	622-3022	622-5022	623-1022	623-2022	623-3022
1.500-6	622-2023	622-4023	622-3023	622-5023	623-1023	623-2023	623-3023
1.750-5	622-2024	622-4024	622-3024	622-5024	623-1024	623-2024	623-3024
2.000-4.5	622-2025	622-4025	622-3025	622-5025	623-1025	623-2025	623-3025



COMMON THREAD PLUG GAGES AND RING GAGES



The common thread ring gauge and plug gauge are used to calibrate the thread work pieces in GB-197-81 and ISO Standard. Please mark the specifications when you order them.

**Model No. is made by three parts, for example,
No.618-0011 means thread ring gage" go", 2.0x0.4mm.**

Model No.617-XXXX: Thread Plug Gage

Model No.618-XXXX: Thread Ring Gage Go

Model No.619-XXXX: Thread Ring Gage No Go

Nominal Diameter	Pitch 1 Model No.	Pitch 2 Model No.	Pitch 3 Model No.	Pitch 4 Model No.	Pitch 5 Model No.	Pitch 6 Model No.	Model No.
2.0	0.40	0.25					-001x
2.2	0.45	0.25					-002x
2.5	0.45	0.35					-003x
3.0	0.50	0.35					-004x
3.5	0.60	0.35					-005x
4.0	0.70	0.50					-006x
5.0	0.80	0.50					-007x
6.0	1.00	0.75	0.50				-008x
8.0	1.25	1.00	0.75	0.50			-009x
10.0	1.50	1.25	1.00	0.75	0.50		-010x
12.0	1.75	1.50	1.25	1.00	0.75	0.50	-011x
14.0	2.00	1.50	1.25	1.00	0.75	0.50	-012x
16.0	2.00	1.50	1.00	0.75	0.50		-013x
18.0	2.50	2.00	1.50	1.00	0.75	0.50	-014x
20.0	2.50	2.00	1.50	1.00	0.75	0.50	-015x
22.0	2.50	2.00	1.50	1.00	0.75	0.50	-016x
24.0	3.00	2.00	1.50	1.00	0.75	0.50	-017x
27.0	3.00	2.00	1.50	1.00	0.75	0.50	-018x
30.0	3.50	3.00	2.00	1.50	1.00	0.75	-019x
33.0	3.50	3.00	2.00	1.50	1.00	0.75	-020x
36.0	4.00	3.00	2.00	1.50	1.00		-021x
39.0	4.00	3.00	2.00	1.50	1.00		-022x
42.0	4.00	4.00	3.00	2.00	1.50	1.00	-023x
45.0	4.00	4.00	3.00	2.00	1.50	1.00	-024x
48.0	4.00	4.00	3.00	2.00	1.50	1.00	-025x
52.0	4.00	4.00	3.00	2.00	1.50	1.00	-026x
56.0	5.50	4.00	3.00	2.00	1.50	1.00	-027x
60.0	5.50	4.00	3.00	2.00	1.50	1.00	-028x
64.0	6.00	4.00	3.00	2.00	1.50	1.00	-029x
68.0	6.00	4.00	3.00	2.00	1.50	1.00	-030x
72.0	6.00	4.00	3.00	2.00	1.50	1.00	-031x
76.0	6.00	4.00	3.00	2.00	1.50	1.00	-032x
80.0	6.00	4.00	3.00	2.00	1.50	1.00	-033x
85.0	6.00	4.00	3.00	2.00	1.50		-034x
90.0	6.00	4.00	3.00	2.00	1.50		-035x
95.0	6.00	4.00	3.00	2.00	1.50		-036x
100.0	6.00	4.00	3.00	2.00	1.50		-037x
105.0	6.00	4.00	3.00	2.00	1.50		-038x
110.0	6.00	4.00	3.00	2.00	1.50		-039x
115.0	6.00	4.00	3.00	2.00	1.50		-040x
120.0	6.00	4.00	3.00	2.00	1.50		-041x
125.0	6.00	4.00	3.00	2.00	1.50		-042x
130.0	6.00	4.00	3.00	2.00	1.50		-043x
140.0	6.00	4.00	3.00	2.00	1.50		-044x



Measuring Tools

LIMIT PLUG GAGES DIN2245,GO/NO GO



- Made of hardened steel, Tolerance H7 and H6, go and not go

Size	H7 Model No.	H6 Model No.
1.8mm	620-3018	620-6018
2.0mm	620-3020	620-6020
2.5mm	620-3025	620-6025
3.0mm	620-3030	620-6030
3.5mm	620-3035	620-6035
4.0mm	620-3040	620-6040
4.5mm	620-3045	620-6045
5.0mm	620-3050	620-6050
6.0mm	620-3060	620-6060
7.0mm	620-3070	620-6070
8.0mm	620-3080	620-6080
9.0mm	620-3090	620-6090
10.0mm	620-3100	620-6100
11.0mm	620-3110	620-6110
12.0mm	620-3120	620-6120
13.0mm	620-3130	620-6130
14.0mm	620-3140	620-6140
15.0mm	620-3150	620-6150
16.0mm	620-3160	620-6160
17.0mm	620-3170	620-6170
18.0mm	620-3180	620-6180
19.0mm	620-3190	620-6190
20.0mm	620-3200	620-6200
21.0mm	620-3210	620-6210
22.0mm	620-3220	620-6220
23.0mm	620-3230	620-6230
24.0mm	620-3240	620-6240
25.0mm	620-3250	620-6250
26.0mm	620-3260	620-6260
27.0mm	620-3270	620-6270
28.0mm	620-3280	620-6280
29.0mm	620-3290	620-6290
30.0mm	620-3300	620-6300
31.0mm	620-3310	620-6310
32.0mm	620-3320	620-6320
33.0mm	620-3330	620-6330
34.0mm	620-3340	620-6340
35.0mm	620-3350	620-6350
36.0mm	620-3360	620-6360
37.0mm	620-3370	620-6370
38.0mm	620-3380	620-6380
39.0mm	620-3390	620-6390
40.0mm	620-3400	620-6400
41.0mm	620-3410	620-6410
42.0mm	620-3420	620-6420
43.0mm	620-3430	620-6430
44.0mm	620-3440	620-6440
45.0mm	620-3450	620-6450
46.0mm	620-3460	620-6460
47.0mm	620-3470	620-6470
48.0mm	620-3480	620-6480
49.0mm	620-3490	620-6490
50.0mm	620-3500	620-6500
51.0mm	620-3510	620-6510
52.0mm	620-3520	620-6520
53.0mm	620-3530	620-6530

Size	H7 Model No.	H6 Model No.
54.0mm	620-3540	620-6540
55.0mm	620-3550	620-6550
56.0mm	620-3560	620-6560
57.0mm	620-3570	620-6570
58.0mm	620-3580	620-6580
59.0mm	620-3590	620-6590
60.0mm	620-3600	620-6600
61.0mm	620-3610	620-6610
62.0mm	620-3620	620-6620
63.0mm	620-3630	620-6630
64.0mm	620-3640	620-6640
65.0mm	620-3650	620-6650
66.0mm	620-3660	620-6660
67.0mm	620-3670	620-6670
68.0mm	620-3680	620-6680
69.0mm	620-3690	620-6690
70.0mm	620-3700	620-6700
71.0mm	620-3710	620-6710
72.0mm	620-3720	620-6720
73.0mm	620-3730	620-6730
74.0mm	620-3740	620-6740
75.0mm	620-3750	620-6750
76.0mm	620-3760	620-6760
77.0mm	620-3770	620-6770
78.0mm	620-3780	620-6780
79.0mm	620-3790	620-6790
80.0mm	620-3800	620-6800
81.0mm	620-3810	620-6810
82.0mm	620-3820	620-6820
83.0mm	620-3830	620-6830
84.0mm	620-3840	620-6840
85.0mm	620-3850	620-6850
86.0mm	620-3860	620-6860
87.0mm	620-3870	620-6870
88.0mm	620-3880	620-6880
89.0mm	620-3890	620-6890
90.0mm	620-3900	620-6900
91.0mm	620-3910	620-6910
92.0mm	620-3920	620-6920
93.0mm	620-3930	620-6930
94.0mm	620-3940	620-6940
95.0mm	620-3950	620-6950
96.0mm	620-3960	620-6960
97.0mm	620-3970	620-6970
98.0mm	620-3980	620-6980
99.0mm	620-3990	620-6990
100.0mm	620-4000	620-7000
101.0mm	620-4010	620-7010
102.0mm	620-4020	620-7020
103.0mm	620-4030	620-7030
104.0mm	620-4040	620-7040
105.0mm	620-4050	620-7050
106.0mm	620-4060	620-7060
107.0mm	620-4070	620-7070
108.0mm	620-4080	620-7080

Size	H7 Model No.	H6 Model No.
109.0mm	620-4090	620-7090
110.0mm	620-4100	620-7100
111.0mm	620-4110	620-7110
112.0mm	620-4120	620-7120
113.0mm	620-4130	620-7130
114.0mm	620-4140	620-7140
115.0mm	620-4150	620-7150
116.0mm	620-4160	620-7160
117.0mm	620-4170	620-7170
118.0mm	620-4180	620-7180
119.0mm	620-4190	620-7190
120.0mm	620-4200	620-7200
121.0mm	620-4210	620-7210
122.0mm	620-4220	620-7220
123.0mm	620-4230	620-7230
124.0mm	620-4240	620-7240
125.0mm	620-4250	620-7250
126.0mm	620-4260	620-7260
127.0mm	620-4270	620-7270
128.0mm	620-4280	620-7280
129.0mm	620-4290	620-7290
130.0mm	620-4300	620-7300
131.0mm	620-4310	620-7310
132.0mm	620-4320	620-7320
133.0mm	620-4330	620-7330
134.0mm	620-4340	620-7340
135.0mm	620-4350	620-7350
136.0mm	620-4360	620-7360
137.0mm	620-4370	620-7370
138.0mm	620-4380	620-7380
139.0mm	620-4390	620-7390
140.0mm	620-4400	620-7400
141.0mm	620-4410	620-7410
142.0mm	620-4420	620-7420
143.0mm	620-4430	620-7430
144.0mm	620-4440	620-7440
145.0mm	620-4450	620-7450
146.0mm	620-4460	620-7460
147.0mm	620-4470	620-7470
148.0mm	620-4480	620-7480
149.0mm	620-4490	620-7490
150.0mm	620-4500	620-7500
151.0mm	620-4510	620-7510
152.0mm	620-4520	620-7520
153.0mm	620-4530	620-7530
154.0mm	620-4540	620-7540
155.0mm	620-4550	620-7550
156.0mm	620-4560	620-7560
157.0mm	620-4570	620-7570
158.0mm	620-4580	620-7580
159.0mm	620-4590	620-7590
160.0mm	620-4600	620-7600
161.0mm	620-4610	620-7610
162.0mm	620-4620	620-7620
163.0mm	620-4630	620-7630

Size	H7 Model No.	H6 Model No.
164.0mm	620-4640	620-7640
165.0mm	620-4650	620-7650
166.0mm	620-4660	620-7660
167.0mm	620-4670	620-7670
168.0mm	620-4680	620-7680
169.0mm	620-4690	620-7690
170.0mm	620-4700	620-7700
171.0mm	620-4710	620-7710
172.0mm	620-4720	620-7720
173.0mm	620-4730	620-7730
174.0mm	620-4740	620-7740
175.0mm	620-4750	620-7750
176.0mm	620-4760	620-7760
177.0mm	620-4770	620-7770
178.0mm	620-4780	620-7780
179.0mm	620-4790	620-7790
180.0mm	620-4800	620-7800
181.0mm	620-4810	620-7810
182.0mm	620-4820	620-7820
183.0mm	620-4830	620-7830
184.0mm	620-4840	620-7840
185.0mm	620-4850	620-7850
186.0mm	620-4860	620-7860
187.0mm	620-4870	620-7870
188.0mm	620-4880	620-7880
189.0mm	620-4890	620-7890
190.0mm	620-4900	620-7900
191.0mm	620-4910	620-7910
192.0mm	620-4920	620-7920
193.0mm	620-4930	620-7930
194.0mm	620-4940	620-7940
195.0mm	620-4950	620-7950
196.0mm	620-4960	620-7960
197.0mm	620-4970	620-7970
198.0mm	620-4980	620-7980
199.0mm	620-4990	620-7990
200.0mm	620-5000	620-8000
201.0mm	620-5010	620-8010
202.0mm	620-5020	620-8020
203.0mm	620-5030	620-8030
204.0mm	620-5040	620-8040
205.0mm	620-5050	620-8050
206.0mm	620-5060	620-8060
207.0mm	620-5070	620-8070
208.0mm	620-5080	620-8080
209.0mm	620-5090	620-8090
210.0mm	620-5100	620-8100
211.0mm	620-5110	620-8110
212.0mm	620-5120	620-8120
213.0mm	620-5130	620-8130
214.0mm	620-5140	620-8140
215.0mm	620-5150	620-8150
216.0mm	620-5160	620-8160
217.0mm	620-5170	620-8170
218.0mm	620-5180	620-8180
219.0mm	620-5190	620-8190

SETTING RING GAGES DIN2250

- Hardened ground and lapped

Size	Model No.
3.0mm	620-0030
3.5mm	620-0035
4.0mm	620-0040
4.5mm	620-0045
5.0mm	620-0050
6.0mm	620-0060
7.0mm	620-0070
8.0mm	620-0080
9.0mm	620-0090
10.0mm	620-0100
11.0mm	620-0110
12.0mm	620-0120
13.0mm	620-0130
14.0mm	620-0140
15.0mm	620-0150
16.0mm	620-0160
17.0mm	620-0170
18.0mm	620-0180
19.0mm	620-0190
20.0mm	620-0200
21.0mm	620-0210
22.0mm	620-0220
23.0mm	620-0230
24.0mm	620-0240
25.0mm	620-0250
26.0mm	620-0260
27.0mm	620-0270
28.0mm	620-0280
29.0mm	620-0290
30.0mm	620-0300
31.0mm	620-0310
32.0mm	620-0320
33.0mm	620-0330
34.0mm	620-0340
35.0mm	620-0350
36.0mm	620-0360
37.0mm	620-0370
38.0mm	620-0380
39.0mm	620-0390
40.0mm	620-0400
41.0mm	620-0410
42.0mm	620-0420
43.0mm	620-0430
44.0mm	620-0440
45.0mm	620-0450
46.0mm	620-0460
47.0mm	620-0470
48.0mm	620-0480
49.0mm	620-0490

Size	Model No.
50.0mm	620-0500
51.0mm	620-0510
52.0mm	620-0520
53.0mm	620-0530
54.0mm	620-0540
55.0mm	620-0550
56.0mm	620-0560
57.0mm	620-0570
58.0mm	620-0580
59.0mm	620-0590
60.0mm	620-0600
61.0mm	620-0610
62.0mm	620-0620
63.0mm	620-0630
64.0mm	620-0640
65.0mm	620-0650
66.0mm	620-0660
67.0mm	620-0670
68.0mm	620-0680
69.0mm	620-0690
70.0mm	620-0700
71.0mm	620-0710
72.0mm	620-0720
73.0mm	620-0730
74.0mm	620-0740
75.0mm	620-0750
76.0mm	620-0760
77.0mm	620-0770
78.0mm	620-0780
79.0mm	620-0790
80.0mm	620-0800
81.0mm	620-0810
82.0mm	620-0820
83.0mm	620-0830
84.0mm	620-0840
85.0mm	620-0850
86.0mm	620-0860
87.0mm	620-0870
88.0mm	620-0880
89.0mm	620-0890
90.0mm	620-0900
91.0mm	620-0910
92.0mm	620-0920
93.0mm	620-0930
94.0mm	620-0940
95.0mm	620-0950
96.0mm	620-0960
97.0mm	620-0970
98.0mm	620-0980

Size	Model No.
99.0mm	620-0990
100.0mm	620-1000
101.0mm	620-1010
102.0mm	620-1020
103.0mm	620-1030
104.0mm	620-1040
105.0mm	620-1050
106.0mm	620-1060
107.0mm	620-1070
108.0mm	620-1080
109.0mm	620-1090
110.0mm	620-1100
111.0mm	620-1110
112.0mm	620-1120
113.0mm	620-1130
114.0mm	620-1140
115.0mm	620-1150
116.0mm	620-1160
117.0mm	620-1170
118.0mm	620-1180
119.0mm	620-1190
120.0mm	620-1200
121.0mm	620-1210
122.0mm	620-1220
123.0mm	620-1230
124.0mm	620-1240
125.0mm	620-1250
126.0mm	620-1260
127.0mm	620-1270
128.0mm	620-1280
129.0mm	620-1290
130.0mm	620-1300
131.0mm	620-1310
132.0mm	620-1320
133.0mm	620-1330
134.0mm	620-1340
135.0mm	620-1350
136.0mm	620-1360
137.0mm	620-1370
138.0mm	620-1380
139.0mm	620-1390
140.0mm	620-1400
141.0mm	620-1410
142.0mm	620-1420
143.0mm	620-1430
144.0mm	620-1440
145.0mm	620-1450
146.0mm	620-1460
147.0mm	620-1470

Size	Model No.
148.0mm	620-1480
149.0mm	620-1490
150.0mm	620-1500
151.0mm	620-1510
152.0mm	620-1520
153.0mm	620-1530
154.0mm	620-1540
155.0mm	620-1550
156.0mm	620-1560
157.0mm	620-1570
158.0mm	620-1580
159.0mm	620-1590
160.0mm	620-1600
161.0mm	620-1610
162.0mm	620-1620
163.0mm	620-1630
164.0mm	620-1640
165.0mm	620-1650
166.0mm	620-1660
167.0mm	620-1670
168.0mm	620-1680
169.0mm	620-1690
170.0mm	620-1700
171.0mm	620-1710
172.0mm	620-1720
173.0mm	620-1730
174.0mm	620-1740
175.0mm	620-1750
176.0mm	620-1760
177.0mm	620-1770
178.0mm	620-1780
179.0mm	620-1790
180.0mm	620-1800
181.0mm	620-1810
182.0mm	620-1820
183.0mm	620-1830
184.0mm	620-1840

Size	Model No.
185.0mm	620-1850
186.0mm	620-1860
187.0mm	620-1870
188.0mm	620-1880
189.0mm	620-1890
190.0mm	620-1900
191.0mm	620-1910
192.0mm	620-1920
193.0mm	620-1930
194.0mm	620-1940
195.0mm	620-1950
196.0mm	620-1960
197.0mm	620-1970
198.0mm	620-1980
199.0mm	620-1990
200.0mm	620-2000
201.0mm	620-2010
202.0mm	620-2020
203.0mm	620-2030
204.0mm	620-2040
205.0mm	620-2050
206.0mm	620-2060
207.0mm	620-2070
208.0mm	620-2080
209.0mm	620-2090
210.0mm	620-2100
211.0mm	620-2110
212.0mm	620-2120
213.0mm	620-2130
214.0mm	620-2140
215.0mm	620-2150
216.0mm	620-2160
217.0mm	620-2170
218.0mm	620-2180
219.0mm	620-2190
220.0mm	620-2220





Measuring Tools

PRECISION FEELER GAGES



Metric

Blade Pcs	Range (mm)	Feeler Blade Thickness	Length 100mm	Length 150mm	Length 200mm	Length 300mm	Length 75mm
6	0.10-0.15-0.20-0.25-0.30-0.40						615-6006
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	
14	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	0.05-0.10-0.15-0.20-0.25-0.30-0.35-0.40-0.45-0.50-0.55-0.60-0.65-0.70-0.75-0.80-0.85-0.90-0.95-1.0		615-6481	615-6482	615-6483	615-6484	
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	
Blade Pcs	Range (mm)	Feeler Blade Thickness	Length 500mm	Length 800mm	Length 1000mm		
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		615-6513	615-6514	615-6515		
20	0.05-0.10-0.15-0.20-0.25-0.30-0.35-0.40-0.45-0.50-0.55-0.60-0.65-0.70-0.80-0.85-0.90-0.95-1.00		615-6516	615-6517	615-6518		

Inch

Piece	Range	Length	Model No.
9	0.002-0.003-0.004-0.005-0.006-0.008-0.010-0.015-0.020-	3"	615-6203
9	0.002-0.003-0.004-0.006-0.008-0.012-0.013-0.020-0.025-	3"	615-6204
12	0.008-0.010-0.012-0.013-0.014-0.015-0.016-0.018-0.019-0.020-0.025-0.026-	4"	615-6205
15	0.002-0.003-0.004-0.005-0.006-0.008-0.011-0.012-0.013-0.014-0.016-0.018-0.020-0.022-0.025-	3-1/2"	615-6206
8	0.015-0.018-0.020-0.025-0.028-0.030-0.035-0.040-		615-6207
26	0.0015-0.002-0.0025-0.003-0.004-0.005-0.006-0.007-0.008-0.009-0.010-0.011-0.012-0.013-0.014-0.015-0.016-0.017-0.018-0.019-0.020-0.021-0.022-0.023-0.024-0.025-	3-1/2"	615-6208
32	0.0015-0.002-0.0025-0.003-0.004-0.005-0.006-0.007-0.008-0.009-0.010-0.011-0.012-0.013-0.014-0.015-0.016-0.017-0.018-0.019-0.020-0.021-0.022-0.023-0.024-0.025-0.026-0.028-0.030-0.032-0.035-	3-1/2"	615-6209
16	0.010-0.012-0.013-0.015-0.016-0.017-0.018-0.020-0.022-0.024-0.025-0.026-0.028-0.030-0.032-0.035-	1-1/2"	615-6210

Measuring Tools



INSIDE & OUTSIDE DIAL CALIPER GAGES

Scale Model 0-100-200
Graduation: 0.01mm

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

METRIC

Inside

Range	A	B	L	Model 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

Outside

Range	A	B	L	Model 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

Inside

Range	Grad.	A	B	L	Model No.
0.6-1.4"	0.0005"	0.118"	0.118"	1.9"	612-8105
1.4-2.2"	0.0005"	0.236	0.118	3.1	612-8110
2.2-3.0"	0.0005"	0.315	0.118	3.1	612-8115
3.0-3.8"	0.0005"	0.315	0.118	3.9	612-8120
0.6-1.4"	0.001"	0.118	0.118	1.9	612-8106
1.4-2.2"	0.001"	0.236	0.118	3.1	612-8111
2.2-3.0"	0.001"	0.315	0.118	3.1	612-8116
3.0-3.8"	0.001"	0.315	0.118	3.9	612-8121

Outside

Range	Grad.	A	B	L	Model No.
0-0.8"	0.0005"	0.236	0.118	2.3	612-8135
0.8-1.6"	0.0005"	0.236	0.118	2.3	612-8140
1.6-2.4"	0.0005"	0.236	0.118	2.1	612-8145
2.4-3.2"	0.0005"	0.236	0.118	2.1	612-8150
3.2-4.0"	0.0005"	0.236	0.118	2.1	612-8155
0-0.8"	0.001"	0.236	0.118	2.3	612-8136
0.8-1.6"	0.001"	0.236	0.118	2.3	612-8141
1.6-2.4"	0.001"	0.236	0.118	2.1	612-8146
2.4-3.2"	0.001"	0.236	0.118	2.1	612-8151
3.2-4.0"	0.001"	0.236	0.118	2.1	612-8156

SMALL HOLE GAGE SETS



- 4 Pcs with fitted case
- X-long-for gaging deep and shallow holes, slots and similar work. Gauge is 1/8" thru 1/2".
- Heat treated and precision ground.
- Gaging surface is a full round with a flat bottom.
- Hole size is obtained by measuring over the contact points with a micrometer.
- Knurled knob at end of handle is used for size adjustment.

Range	Model No.
0.125"-0.500" half ball type	615-6250
0.125"-0.500" full ball type	615-6251

TELESCOPING GAGES

Range: 8-150mm or 5/16"-6"



Set Model No. 615-6610

Inch Range	Inch Length	Metric Range	Metric Length	Model No.
5/16 - 1/2"	4"	8-12.7mm	102mm	615-6611
1/2 - 3/4"	4"	12.7-19mm	102mm	615-6612
3/4 - 1-1/4"	4"	19-32mm	102mm	615-6613
1-1/4 - 2-1/8"	5"	32-54mm	127mm	615-6614
2-1/8" - 3-9/16"	5"	54-90mm	127mm	615-6615
3-9/16 - 6"	5"	90-150mm	127mm	615-6616

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.
- Handbook H 28. Gives proper sizes & measurement over wires.



Model No. 600-0500



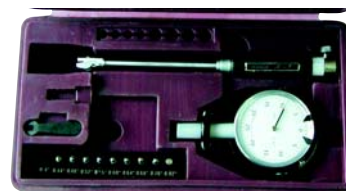
Measuring Tools

DIAL BORE GAGE SETS



Metric Size, Grad. 0.01mm

Range	Depth	Model No.	Range	Depth	Model 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



Inch Size

Range	Depth	0.001" Model No.	0.0005" Model No.	.0001" Model No.	Package
0.24-0.4"	1.57"	612-5906	612-5900	612-5902	Plastic Case
0.4-0.7"	4"	612-5907	612-5905	612-5904	Plastic Case
0.7-1.5"	5"	612-5908	612-5910	612-5909	Plastic Case
1.4-2.4"	6"	612-5912	612-5915	612-5914	Plastic Case
2-4"	6"	612-5918	612-5916	612-5917	Plastic Case
2-6"	6"	612-5919	612-5920	612-5921	Plastic Case
6-10"	16"	612-5930	612-5925	612-5927	Wooden Case
10-16"	16"	612-5940	612-5935	612-5937	Wooden Case
1.4-2.4"	19.7"	612-6906	612-6900	612-6903	Wooden Case
1.4-2.4"	39.4"	612-6915	612-6910	612-6917	Wooden Case
1.4-2.4"	59.1"	612-6925	612-6920	612-6923	Wooden Case
2-4(6)	19.7"	612-6935	612-6930	612-6933	Wooden Case
2-4(6)	39.4"	612-6945	612-6940	612-6943	Wooden Case
2-4(6)	59.1"	612-6955	612-6950	612-6953	Wooden Case
6-10"	19.7"	612-6965	612-6960	612-6963	Wooden Case
6-10"	39.4"	612-6975	612-6970	612-6973	Wooden Case
6-10"	59.1"	612-6985	612-6980	612-6983	Wooden Case
10-16"	19.7"	612-6995	612-6990	612-6991	Wooden Case
10-16"	59.1"	612-6999	612-6998	612-6993	Wooden Case

DIAL MICRON INDICATOR

- Peach sharp mechanical body
- Adjustable steel dia ring.
- Anti-dirty screw rises while lifting measuring spindle
- With adjustable tolerance markers
- With dial locking screw

Range	Graduation	Dial Face	Flat Back Model No.	Lug Back Model No.
0-1mm	0.001mm	40mm	605-4100	605-4200
0-1mm	0.001mm	57mm	605-4101	605-4201
0-12.7mm	0.002mm	57mm	605-4102	605-4202
0-0.5"	0.0001"	57mm		605-4001
0-0.05"	0.0001"	57mm		605-4000



DIAL MICRON INDIC WITH MM/INCH SCALE

- Round mechanical body
- Adjustable steel dia ring.



Range	Graduation	Dial Face ¢	Flat Back Model No.	Lug Back Model No.
0-1.27mm/0-0.05"	0.002mm/0.0001"	57mm	605-4250	605-4255

DIAL COMPARATORS

- With adjustable tolerance markers
- With dial locking screw



Range	Graduation	Dial Face ¢	Model No.
±0.4mm	0.01mm	57mm	605-4230

DIAL INDICATORS



Metric, Graduation 0.01mm

Range	Dial Face	Flat Back Model No.	Lug Back Model No.
0-3.0mm	40mm	605-4120	605-4110
0-3.0mm	58mm	605-4132	605-4134
0-5.0mm	40mm	605-4140	605-4141
0-5.0mm	58mm	605-4115	605-4130
0-6.0mm	40mm	605-4116	605-4117
0-8.0mm	40mm	605-4145	605-4108
0-10.0mm	58mm	605-4125	605-4151
0-15.0mm	58mm	605-4149	605-4150
0-20.0mm	58mm	605-4155	605-4190
0-25.0mm	58mm	605-4160	605-4161
0-30.0mm	58mm	605-4175	605-4165
0-50.0mm	76mm	605-4180	605-4170

Inch, all with lug back, Graduation 0.0005"

Range	Dial Face	Revolution Counter	Model No.
0-0.25"	2.28"	Without	605-4005
0-0.25"	2.28"	With	605-4006
0-0.5"	2.28"	With	605-4060
0-1"	2.28"	With	605-4071
0-0.25"	1-37/64"	Without	605-4040
0-0.25"	2.28"	With	605-4030
0-0.4"	2.28"	With	605-4045
0-0.5"	2.28"	With	605-4050
0-1"	2.28"	With	605-4070
0-1"(Black face)	2.28"	With	605-4080

DIAL INDICATOR WITH CONCENTRIC DOUBLE FINGERS



Range	Graduation	Dial Face	Flat Back Model No.	Lug Back Model No.
0-30mm	0.01mm	58mm	605-4183	605-4283
0-50mm	0.01mm	58mm	605-4185	605-4285
0-80mm	0.01mm	58mm	605-4188	605-4288
0-100mm	0.01mm	78mm	605-4189	605-4289
0-2"	0.001"	2.28"		605-4205
0-2"(Black face)	0.001"	2.28"		605-4206



DOUBLE FACE DIAL INDICATORS

- Double face for indication, easy and convenient for reading
- Black and white bezel
- Steel body and jeweled bearing

0-10mmx0.01mm. Model No. 605-4220



SHOCKPROOF DIAL INDICATORS

- With jeweled bearing and rack shockproof
- Inside tolerance hand (outside tolerance hand available)
- Semi-seal cap

Range	Graduation	Dial Face	Flat Back Model No.	Lug Back Model No.
0-3mm	0.01mm	58mm	605-4310	605-4311
0-5mm	0.01mm	58mm	605-4330	605-4331
0-10mm	0.01mm	58mm	605-4350	605-4316

DIAL TEST INDICATOR WITH DOUBLE "MM/INCH" SCALE



Range	Graduation	Dial Face	Model No.
0-0.6mm/0.03"	0.01mm/0.0005"	38mm	605-3034



Measuring Tools

DIGITAL TEST INDICATOR



- Power on/off key, Zero setting key, Metric/Inch key, Tolerance key.
- Contact Point Dia.: 2.5mm
- Accuracy: $\pm 0.02\text{mm}$



Range: $\pm 0.5\text{mm}/0.02''$

Grad.: $0.01\text{mm}/0.0005''$

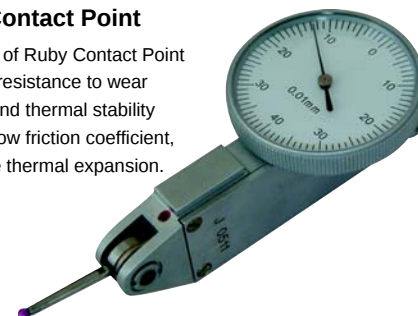
Model No. 605-0002

DIAL TEST INDICATOR

with Ruby Contact Point

The characters of Ruby Contact Point

- Hardness, resistance to wear
- Chemical and thermal stability
- extremely low friction coefficient,
- neglectable thermal expansion.



Range	Reading	Face $\phi 39\text{mm}$	Face $\phi 32\text{mm}$
		Model No.	Pocket Model No.
0.03"	0.001"	605-5701	605-5901
0.03"	0.0005"	605-5710	605-5910
0.008"	0.0001"	605-5705	605-5905
0.8 mm	0.01 mm	605-5713	605-5913
0.2 mm	0.002 mm	605-5711	605-5911
0.12 mm	0.001 mm	605-5712	605-5912

DIAL TEST INDICATOR

Range	Reading	Vertical Face $\phi 32\text{mm}$
		Model No.
0.03"	0.001"	605-4801
0.03"	0.0005"	605-4810
0.008"	0.0001"	605-4805
0.8 mm	0.01 mm	605-4813
0.2 mm	0.002 mm	605-4811
0.12 mm	0.001 mm	605-4812



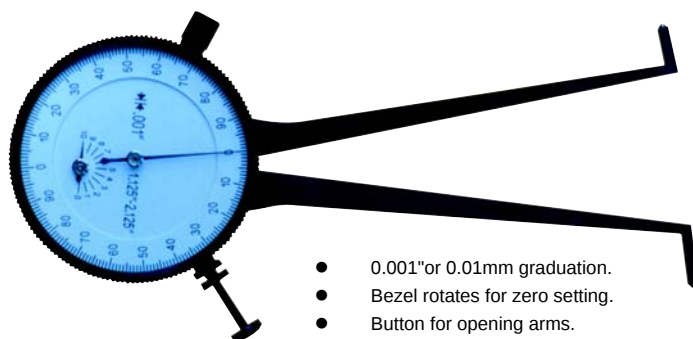
Vertical



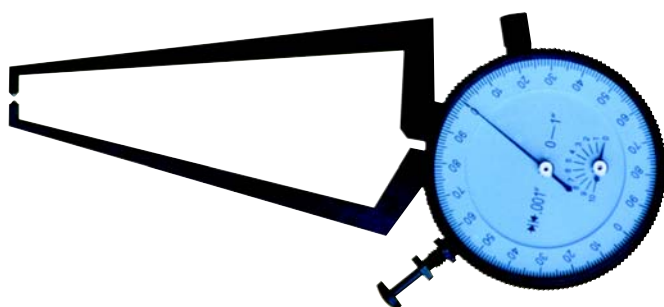
Horizontal

Range	Reading	Face $\phi 32\text{mm}$	Face $\phi 39\text{mm}$
		Model No.	Model No.
0.03"	0.001"	605-4701	605-4901
0.03"	0.0005"	605-4710	605-4910
0.008"	0.0001"	605-4705	605-4905
0.2 mm	0.002 mm	605-4711	605-4911
0.12 mm	0.001 mm	605-4712	605-4912
0.8 mm	0.01 mm	605-4713	605-4913

INTERNAL & EXTERNAL DIAL CALIPER GAGES



- 0.001" or 0.01mm graduation.
- Bezel rotates for zero setting.
- Button for opening arms.



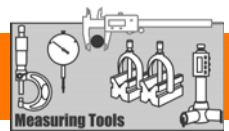
Inch	
Size	Internal Model No.
0.375-1.375"	612-0005
0.750-1.750"	612-0010
1.125-2.125"	612-0015
1.500-2.500"	612-0020
1.875-2.875"	612-0025
2.250-3.250"	612-0030
2.875-3.875"	612-0035
3.250-4.250"	612-0040
3.625-4.625"	612-0045
4.000-5.000"	612-0050

Metric	
Size	Internal Model No.
10-35mm	612-0305
20-45mm	612-0310
30-55mm	612-0315
40-65mm	612-0320
50-75mm	612-0325
60-85mm	612-0330
75-100mm	612-0335
85-110mm	612-0340
95-120mm	612-0345
100-125mm	612-0350

Inch	
Size	External Model No.
0-1"	612-0105
0.375-1.375"	612-0110
0.750-1.750"	612-0115
1.125-2.125"	612-0120
1.500-2.500"	612-0125
1.875-2.875"	612-0130
2.250-3.250"	612-0135
2.875-3.875"	612-0140
3.250-4.250"	612-0145
3.625-4.625"	612-0150

Metric	
Size	External Model No.
0-25mm	612-0205
10-35mm	612-0210
20-45mm	612-0215
30-55mm	612-0220
40-65mm	612-0225
50-75mm	612-0230
60-85mm	612-0235
75-100mm	612-0240
85-110mm	612-0245
95-120mm	612-0250

Measuring Tools



INSIDE CALIPER GAUGE

Electronic Digital Inside Caliper Gauge

- Suitable for measuring bores, internal grooves and other hard-to-read inside dimension.
- RS232 data output. Connecting cable: P0101 (optional)



10mm Travel

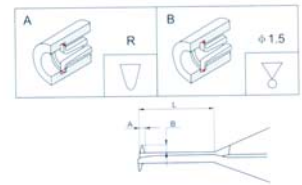
Range	Graduation	A Type Point	B Type Point
		Model No.	Model No.
5-15mm/0.2-0.6"	0.01mm/0.0005"	612-1001	612-1011
10-20mm/0.4-0.8"	0.01mm/0.0005"	612-1002	612-1012
20-30mm/0.8-1.2"	0.01mm/0.0005"	612-1003	612-1013
30-40mm/1.2-1.6"	0.01mm/0.0005"	612-1004	612-1014
40-50mm/1.6-2"	0.01mm/0.0005"	612-1005	612-1015

20mm Travel

Range	Graduation	A Type Point	B Type Point
		Model No.	Model No.
5-25mm/0.2-1"	0.01mm/0.0005"	612-1021	612-1031
10-30mm/0.4-1.2"	0.01mm/0.0005"	612-1022	612-1032
20-40mm/0.8-1.6"	0.01mm/0.0005"	612-1023	612-1033
30-50mm/1.2-2"	0.01mm/0.0005"	612-1024	612-1034
40-60mm/1.6-2.4"	0.01mm/0.0005"	612-1025	612-1035

Inside Dial Caliper Gauge

- Suitable for measuring bores, internal grooves and other hard-to-read inside dimension.



10mm Travel

Metric

Range	Graduation	A Type Point	B Type Point
		Model No.	Model No.
5-15mm	0.01mm	612-1201	612-1211
10-20mm	0.01mm	612-1202	612-1212
20-30mm	0.01mm	612-1203	612-1213
30-40mm	0.01mm	612-1204	612-1214
40-50mm	0.01mm	612-1205	612-1215

Inch

Range	Graduation	A Type Point	B Type Point
		Model No.	Model No.
0.2-0.6"	0.00005"	612-1221	612-1231
0.4-0.8"	0.00005"	612-1222	612-1232
0.8-1.2"	0.00005"	612-1223	612-1233
1.2-1.6"	0.00005"	612-1224	612-1234
1.6-2"	0.00005"	612-1225	612-1235

20mm Travel

Metric

Range	Graduation	A Type Point	B Type Point
		Model No.	Model No.
5-25mm	0.01mm	612-1301	612-1311
10-30mm	0.01mm	612-1302	612-1312
20-40mm	0.01mm	612-1303	612-1313
30-50mm	0.01mm	612-1304	612-1314
40-60mm	0.01mm	612-1305	612-1315

Inch

Range	Graduation	A Type Point	B Type Point
		Model No.	Model No.
0.2-1"	0.00005"	612-1321	612-1331
0.4-1.2"	0.00005"	612-1322	612-1332
0.8-1.6"	0.00005"	612-1323	612-1333
1.2-2"	0.00005"	612-1324	612-1334
1.6-2.4"	0.00005"	612-1325	612-1335

OUTSIDE CALIPER GAUGE

Electronic Digital Outside Caliper Gauge

- Suitable for measuring bores, internal grooves and other hard-to-read inside dimension.
- RS232 data output. Connecting cable: P0101 (optional)



10mm Travel

Range	Graduation	A Type Point	B Type Point
		Model No.	Model No.
0-10mm/0-0.4"	0.01mm/0.0005"	612-1101	612-1111
10-20mm/0.4-0.8"	0.01mm/0.0005"	612-1102	612-1112
20-30mm/0.8-1.2"	0.01mm/0.0005"	612-1103	612-1113
30-40mm/1.2-1.6"	0.01mm/0.0005"	612-1104	612-1114
40-50mm/1.6-2"	0.01mm/0.0005"	612-1105	612-1115

20mm Travel

Range	Graduation	A Type Point	B Type Point
		Model No.	Model No.
0-20mm/0-0.8"	0.01mm/0.0005"	612-1121	612-1131
10-30mm/0.4-1.2"	0.01mm/0.0005"	612-1122	612-1132
20-40mm/0.8-1.6"	0.01mm/0.0005"	612-1123	612-1133
30-50mm/1.2-2"	0.01mm/0.0005"	612-1124	612-1134
40-60mm/1.6-2.4"	0.01mm/0.0005"	612-1125	612-1135



Measuring Tools

OUTSIDE CALIPER GAUGE

Outside Dial Caliper Gage

Suitable for measuring bores, internal grooves and other hard-to-read inside dimension.

10mm Travel



Metric

Range	Graduation	A Type Point	B Type Point
		Model No.	Model No.
0-10mm	0.01mm	612-1401	612-1411
10-20mm	0.01mm	612-1402	612-1412
20-30mm	0.01mm	612-1403	612-1413
30-40mm	0.01mm	612-1404	612-1414
40-50mm	0.01mm	612-1405	612-1415

Inch

Range	Graduation	A Type Point	B Type Point
		Model No.	Model No.
0-0.4"	0.00005"	612-1421	612-1431
0.4-0.8"	0.00005"	612-1422	612-1432
0.8-1.2"	0.00005"	612-1423	612-1433
1.2-1.6"	0.00005"	612-1424	612-1434
1.6-2"	0.00005"	612-1425	612-1435

20mm Travel

Metric

Range	Graduation	A Type Point	B Type Point
		Model No.	Model No.
0-20mm	0.01mm	612-1501	612-1511
10-30mm	0.01mm	612-1502	612-1512
20-40mm	0.01mm	612-1503	612-1513
30-50mm	0.01mm	612-1504	612-1514
40-60mm	0.01mm	612-1505	612-1515

Inch

Range	Graduation	A Type Point	B Type Point
		Model No.	Model No.
0-0.8"	0.00005"	612-1521	612-1531
0.4-1.2"	0.00005"	612-1522	612-1532
0.8-1.6"	0.00005"	612-1523	612-1533
1.2-2"	0.00005"	612-1524	612-1534
1.6-2.4"	0.00005"	612-1525	612-1535



CENTERING INDICATORS

- All points and feelers included free precision measuring indicator.
- Designed for centering a work piece of fixture.
- Operates at any angle.
- Use vertical or horizontal.
- Uses internal or external.
- While spindle rotates, the centering indicator always faces the operator.

All feelers included: Free restraining rod
Center point feeler
4" straight feeler, 8" straight feeler, 12" straight feeler
4" curved feeler, 8" curved feeler, 12" curved feeler
Model No. 607-4904 supplied complete includes:
restraining rod center point feeler, 4" straight feeler,
8" straight feeler, 12" straight feeler, 4" curved feeler,
8" curved feeler, 12" curved feeler.

Fitted Plastic Case.

Inch Model No.607-4904

Specifications	
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"

Inch Accessories

Range	Description	Model No.
4.25"	Feeler, outside diameter carbide	607-4910
4.25"	Feeler, inside diameter carbide	607-4911
8"	Feeler, outside diameter carbide	607-4912
8"	Feeler, inside diameter carbide	607-4913
12"	Feeler, inside diameter carbide	607-4914
12"	Feeler, outside diameter (857-6)	607-4915
	Retaining rod	607-4920
	Assembly (853) center point feeler	607-4950

Metric Model No.607-4905

Specifications	
Range	0-3mm
Length of Straight Feeler	45,100,154mm
Length of Centre Point Feeler	52.5mm
Length of Curved Feeler	46,100,154mm

3D-TASTER



The 3D(3 dimension) -Taster is a precision measuring instrument and used together with machine tools, such as milling machine, boring machine, numerically-controlled machine tool and electromachining machine tool. It is mainly used for locating, centering and measuring of the high precision machining workpiece, and has advantage of convenience, rapidity and accuracy. In order to assure that you can rightly use the 3 D-Taster.

- The range diameter: $\phi 20\text{mm}$
- The measuring feeler diameter: $\phi 4\text{mm}$
- The division of the dial: Radial 0.01mm / Axial 0.0032mm
- The measuring range of the feeler: Radial 0-10mm / Axial 0.0032mm
- The error: 0.008

Model No.605-2005

ELECTRONIC DIGITAL INDICATOR

3-Key Electronic Digital Indicators



Range	Resolution	Model No.
0-25mm/1.0"	0.001mm/0.0005"	605-2025
0-30mm/1.2"	0.001mm/0.0005"	605-2030
0-50mm/2"	0.001mm/0.0005"	605-2050

7-Key Electronic Digital Indicators



0-1/2"/13mm
0.0005"/0.01mm
Model No. 605-2000

In plastic case

- On/Off button.
- Absolute button
- SPC out put
- Preset, Zero Set, Inch/mm, and Tolerance Set.
- Large LCD Screen.

Electronic Digital Thickness Gages

0.01mm/0.0005" Resolution
0.01mm/0.0005" Repeatability



Range	Model No.
0-15mm/0.6"	615-6350
0-25mm/1"	615-6355



5-Key Electronic Digital Indicators (TYPE 540-110)

Range	Resolution	Accuracy	Model No.
12.7mm/0.5"	0.01mm/0.0005"	0.03mm	605-2013
12.7mm/0.5"	0.001mm/0.00005"	0.009mm	605-2313

6-Key Electronic Digital Indicator (TYPE 546-110)

Range	Resolution	Accuracy	Model No.
0-12.7mm/0.5"	0.001mm/0.00005"	0.005mm	605-2405
0-12.7mm/0.5"	0.005mm/0.00005"	0.009mm	605-2415

- With digital display and electronic scales
- The LCD display and cover can be rotated to any degrees
- With multifunctions
- With data output interface
- The time of auto power off can be set at will
- Metric/Inch system conversion at any position



3-Key Electronic Digital Indicator (TYPE 540-100)

- With data output interface

Range	Resolution	Accuracy	Model No.
0-5mm/0.2"	0.01mm/0.0005"	0.03mm	605-6625
0-5mm/0.2"	0.001mm/0.00005"	0.003mm	605-6635



3-Key Electronic Digital Indicator (TYPE 540-105)

- With data output interface

Range	Resolution	Accuracy	Model No.
0-10mm/0.4"	0.01mm/0.0005"	0.03mm	605-2010
0-10mm/0.4"	0.001mm/0.00005"	0.003mm	605-2210



5-Key Electronic Digital Indicator (TYPE 314-602)

- Two display: analog and digital
- The time of automatic power-off can be self-set
- Max/Min memory and Max-Min
- Data output
- Two way measurement: Absolute or relative.
- Measuring direction conversion(inside switch)
- Face swivels 360° to mount various angles



Range	Resolution	Accuracy	Model No.
0-12.7mm/0.5"	0.001mm/0.00005"	0.005mm	605-2425

5-Key Electronic Digital Indicator (TYPE 314-802)

- Two way measurement: Absolute or relative.
- Measuring direction conversion(inside switch)
- Tolerance setting and OK(Go) or ±NG discrimination
- Data output
- Water and dust proof



Range	Resolution	Accuracy	Model No.
0-12.7mm/0.5"	0.001mm/0.00005"	0.005mm	605-2610

5-Key Electronic Digital Indicator (TYPE 314-810)

- Features same as type 314-802

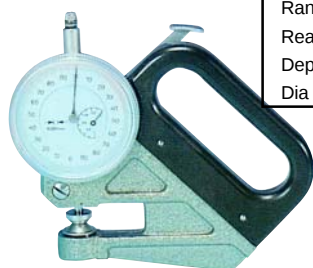


Range	Resolution	Accuracy	Model No.
0-25mm/1"	0.001mm/0.00005"	0.04mm	605-2525
0-25mm/1"	0.001mm/0.00005"	0.009mm	605-2526
0-50mm/2"	0.001mm/0.00005"	0.05mm	605-2550
0-50mm/2"	0.001mm/0.00005"	0.012mm	605-2551
0-100mm/4"	0.001mm/0.00005"	0.06mm	605-2560
0-100mm/4"	0.001mm/0.00005"	0.016mm	605-2561



Measuring Tools

FOIL-THICKNESS GAGE



Model No.	615-6385
Range:	0-1 mm
Reading:	0.001 mm
Depth:	25 mm
Dia	6 mm

DIAL THICKNESS GAUGES



Range	Reading	A	L	D	Model No.
0-10mm	0.01mm	20mm	30mm	6.0mm	615-6210
0-1.0"	0.01"				615-6214
0-0.4"	0.001"				615-6215
0-10mm	0.01mm	21.3mm	26mm	10.0mm	615-6216
0-0.05"	0.0001"				615-6225

LENS CENTER THICKNESS GAGE



Model No.	615-6365	615-6360
Range:	0-10 mm	0-10 mm
Reading:	0.01 mm	0.01 mm
Max Dia	58 mm	120 mm
Distance of 2 points	25 mm	55 mm

DIAL THICKNESS GAGE FOR PIPE



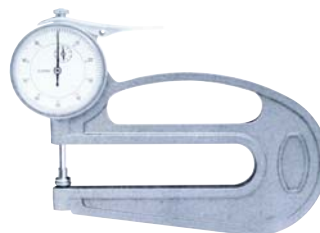
Model No.	615-6395
Range:	0-10 mm
Reading:	0.01 mm
Inside dia. of pipe:	>4.0mm

ROLLER TYPE THICKNESS GAGE



Model No.	615-6380
Range:	0-10 mm
Reading:	0.01 mm
Dimension: (mm)	
42.5 (A)	22 (B)
7 (C)	100(L)

DIAL THICKNESS GAGE

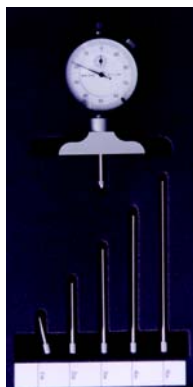


Model No.	615-6390	615-6375
Range:	0-10 mm	0-10 mm
Reading:	0.01 mm	0.01 mm
Dimension		
A	27	36
B	120	200
C	10	65

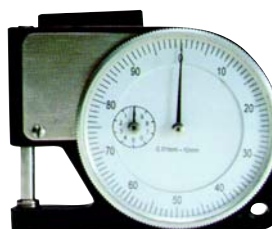
DIAL DEPTH GAGE SET

- Base size 63.5mm/2-1/2"
- Dial measuring range 0-25mm/0-1"

Range	Measuring rods	Model No.
0-150mm	5pcs:25,50,75,100,125mm	612-2150
0-300mm	11pcs:25,50,75,100,125,150,175,200,225,250,275mm	612-2300
0-6"	5pcs:1",2",3",4",5"	612-2006
0-12"	11pcs:1",2",3",4",5",6",7",8",9",10",11"	612-2012



POCKET THICKNESS GAGE



Easy zero point adjustment bezel.

Model No.	615-5205	615-5210	615-5215
Range:	0-0.5"	0-0.5"	0-10 mm
Reading:	0.0005"	0.001"	0.01 mm

22 PC. INDICATOR POINT SETS

In plastic case

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



Model No. 605-0022

SHORE A/D DUROMETER

- Widely used in measuring the hardness of the plastic and rubber products
- Set to zero before operation
- Select three points to measure and take the average data.



Shore Type	Hardness Range	Measuring tip Range	Pressure of the Measuring tip end	Model No.
Shore A	2090HA	0-25mm	0.55-8.06N (56-821g)	639-2905
Shore D	0-90HD	0-25mm	0-44.5N (0-4450g)	639-2910



FLEXIBLE STEM WITH LOCKING PLIER

- Dial Indicator
- Flexible stem dial holder
- Locking plier base

Model No. 625-0620

Including metric dial indicator 0-10mm

Model No. 625-0621

Including inch dial indicator 0-1"



Plastic Box, Model No. 135-CP28

UNIVERSAL INDICATOR HOLDERS

- 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.



Model No. 625-8522

MAGNETIC DRESSER



- This is used with other machine to dress the grinding wheel
- Magnetic power is 60KG
- The base size is 55x50x63mm
- With a diamond per

Model No.

625-0640, with diamond pen

Model No.

625-0645, without diamond pen

MAGNETIC OPERATION



- With ON/OFF switch
- This unit is used to lift small tools, parts. It is very handy to be used in family workshop.

Magnetic Force	Base Size(HxWxL)	Model No.
60KG	55x50x63mm	625-0700
80KG	55x50x69mm	625-0705
100KG	55x50x88mm	625-0710
120KG	55x50x118mm	625-0715

HYDRAULIC UNIVERSAL MAGNETIC BASE HOLDER



- Unique hydraulic clamping system.
- Can hold all style dial indicators and dial test indicators.
- On-off switch base.
- Indicator not included

Magnetic Pull	Working Stem	Base Dimension	Model No.
60kg	380mm	63x50x55mm	625-1360
80kg	380mm	70x50x55mm	625-1380

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.

Square Base

Model No. 625-0510

Circular Pot Base

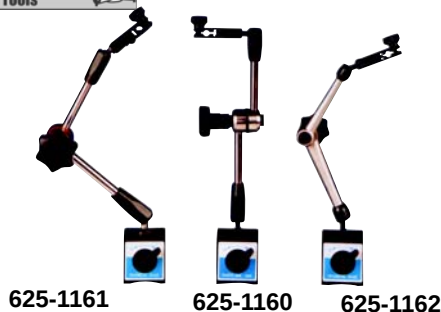
Model No. 625-0520





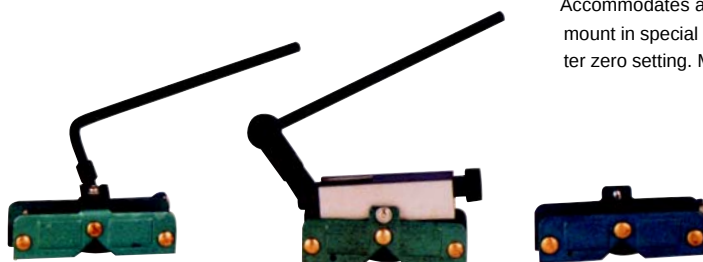
Measuring Tools

UNIVERSAL ON-OFF MAGNETIC STAND



Magnetic			Steel Arm	Steel Arm With AL-Alloy Joint	All-Alloy Arm
Power	Base Size	Working Stem			Model No.
40 kgs	63x50x55	320mm	625-1140	625-1141	625-1142
60kgs	63x50x55	350mm	625-1160	625-1161	625-1162
80kgs	83x50x55	330mm	625-1180	625-1181	625-1182

MAGNETIC BASE INDICATOR HOLDER



Accommodates almost any type test and dial indicator. Large 1/4" lug back type indicators mount in special links for more flexible in position Precision lateral adjustment enables better zero setting. Magnetic pull-over 50lbs.

Descriptions	Type	Model No.
Base 3-1/2x1-1/8x1" with Side Arm	B	625-0471
3-1/2x1-1/8x1" without Arm	A	625-0470
3-1/2x1-1/8x1" with Centre Arm	C	625-0472
3-1/2x1-1/8x1-1/2" with Attachments		625-0473

MAGNETIC STANDS



- Accept all A.G.D dial indicators with lug backs.
- Accept 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.
- Quick adjustment clamp.
- Universal adjustment in horizontal and vertical planes.

With Fine Adjustment Base

Magnetic			Base	With Fine Adjustment
Pull	Working Stem	Base Size	Model No.	Model No.
40kg	176mm/12mm	63x50x55mm	625-0300	625-0340
60kg	176mm/12mm	63x50x55mm	625-0301	625-0341
80kg	176mm/12mm	70x50x55mm	625-0302	625-0342
40kg	225mm/16mm	63x50x55mm	625-3300	625-3340
60kg	225mm/16mm	63x50x55mm	625-3301	625-3341
80kg	225mm/16mm	70x50x55mm	625-3302	625-3342
100kg	360mm/20mm	83x50x55mm		625-0360

Base Only with On/Off Switch

Magnetic			Model No.
Pull	Dimensions		
40kg	63x50x55mm M8		625-0940
60kg	63x50x55mm M8		625-0960
60kg	70x45x65mm M10		625-0961
80kg	75x60x80mm M12		625-0962
80kg	70x50x55mm M8		625-0980
80kg	70x50x55mm M10		625-0981
100kg	83x50x55mm M10		625-0982

MAGNETIC STANDS

Germany Style



Magnetic		Assistant		
power	Base Size	Main Stem	Stem	Model No.
60kgs	70x45x65	230x16M10	260x16	625-0343
80kgs	70x60x80	412x20M12	260x16	625-0344

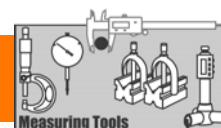
- Model No. 625-0201, Skack Only for 60kgs(625-0343)
- Model No. 625-0205, Skack Only for 80kgs(625-0344)

PUSH-BUTTON STYLE MAG. STANDS



- Provided with ON/OFF push button.
- Especially designed for use with dial gages, to work on surface plate and machine table.
- Complete with powerful magnet.

Description	Model No.
Standard type	625-0905
W/F.Adjustment	625-0910



UNIVERSAL STAND

- Base size 220x60x40mm
Main stem size 220x14mm
- Diameter of hole is 8.0+0.02mm
- Work angle is 135°

Base
Model No.
625-1262



With Fine Adjustment
Model No.
625-1264



MAGNETIC SQUARE BLOCK



Work Magnetic Force		Base Dimension	Model No.
V-mould Plane	Parallels Plane		
25kg	50kg	100x100x100mm	625-0600
50kg	140kg	150x150x150mm	625-0650

MINI UNIVERSAL MAGNETIC STAND



625-0581



625-0582

- Base Size 30x30x30mm
- Working Stem 150mm
- **Model No. 625-0581**, Push-Button-switch ON/OFF, magnetic power 17kg
- **Model No. 625-0582**, Rotary-switch ON/OFF, magnetic power 30kg

MAGNETIC BASE LIGHTING UNIT



- Portable.
- Attaches quickly to machine or fixture.
- Body size: 2 x 2 x 2 -1/2".
- Height: 9-3/4"
- "UL" or "CE" Plug and wire

Power	Model No.
40kg	625-1240
60kg	625-1260

MAGNETIC STAND QUICK-LOCK COOLANT HOSE SYSTEMS



- Quickly attach to any metallic surface.
- Strong holding power.
- 1/4" dia flexible coolant hoses attached to on-off magnetic base.

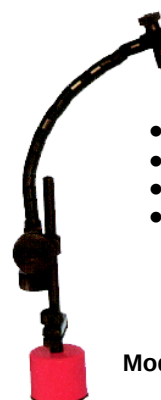
Base Power	Coolant Hose & length	Base Size	Model. No
110lbs	1 x 14"	2-1/2 x 2 x 2-7/8"	625-0402
175lbs	1 x 14"	2-3/4 x 2 x 2-7/8"	625-0404
110lbs	2 x 14"	2-1/2 x 2 x 2-7/8"	625-0406
175lbs	2 x 14"	2-3/4 x 2 x 2-7/8"	625-0408
110lbs	3 x 15"	2-1/2 x 2 x 2-7/8"	625-0410
175lbs	3 x 15"	2-3/4 x 2 x 2-7/8"	625-0412

FLEXIBLE STEM MAGNETIC STAND

- Work angle 150°
- W/F adjustable
- With a scribe
- Magnetic force is 60kg
- Base size is 55x50x63mm
- Length of stem is 270mm



Model No. 625-0800



- Work angle 150°
- Magnetic force is 15kg
- Base size is 30x28mm
- Length of stem is 270mm

Model No. 625-0850



Measuring Tools

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	Model No.
6 x 6 x 2" granite base only.	625-8504
frame only.	625-8508
6 x 6 x 2" base and frame	625-8510
625-8510 with 1" indicator	625-8511



STEEL DIAL COMPARATOR STANDS

- 5-1/2x4-1/8" working surface.

Model No. 625-8520

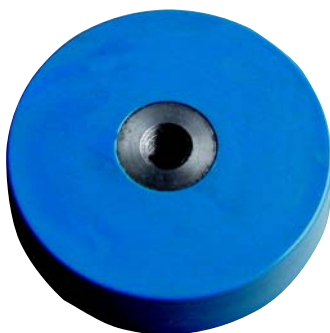
Indicator Not Included



"UNI-MAG" DIRECT MOUNT MAGNETIC BASE

- Permanent magnet.
- Fits all A.G.D. indicators

Size	Model No.
Ø2-1/4 x 9/16"	625-0451
Ø1-3/4 x 5/16"	625-0452



HYDRAULIC UNIVERSAL MAGNETIC STAND

Dial Indicator Not Include



Magnetic Working			
Pull	Stem	Base Dimension	Model No.
60kg	330mm	63x50x55mm	625-1361
60kg	380mm	63x50x55mm	625-1362
80kg	330mm	70x50x55mm	625-1381
80kg	380mm	70x50x55mm	625-1382



MAGNETIC BASE INDICATOR HOLDERS

Versatile , Powerful, Compact & Rugged

- Powerful magnetic pull.
- 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.
- 4"x1"x1".

Descriptions	Model No.
Tiny-Titan Base	625-0450
Base plus 605-4070 1" travel indicator	625-0455
Base plus 605-4205 2" travel indicator	625-0460



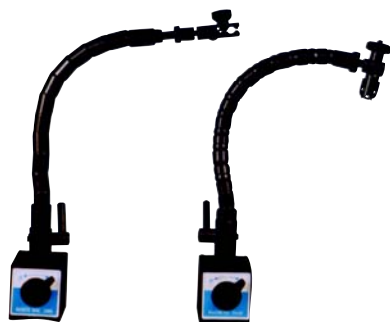
POT MAGNETS

- For use as magnetic fasteners.
- Comes with plated keeper.

Outside Diameter	Height	Hole	Model 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

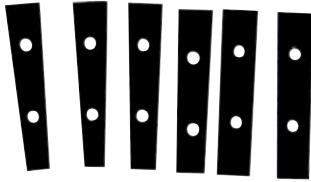
FLEXIBLE STEM MAGNETIC BASE HOLDERS

- Stem flexes almost 360°
- Locks into exact position with a cam lever-operated cable and tension adjustment.
- Accept all AGD type indicator



Magnetic Power	Base Size	Model No.
40 kgs	2-1/2x2x2-1/8"	625-1040
60kgs	2-3/4x2x2-1/8"	625-1060
80kgs	2-3/4x2x2-1/8"	625-1080

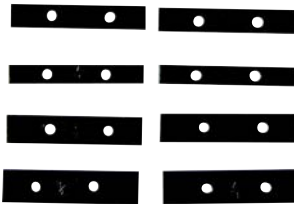
THIN ANGLE BLOCK SET



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.

Consist of	Model No.
1/2°, 1- 5° by 1° 6pcs set	630-4258
6 -10° by 1° 5pcs set	630-4259

ECONOMY THIN PARALLEL SET



Useful for fast setting of work pieces to needed height in vise jaws. Made of hardened and precision ground steel.

Width	Length	Hole	Model No.
4 pairs 1/2", 5/8", 3/4", 7/8",	3-1/2"	1/4"	630-4257
5 pairs 1/2", 5/8", 3/4", 7/8", 1"	3-1/2"	1/4"	630-4255

WAVY PARALLEL SET

FEATURES:

- Made of high-quality spring steel, hardened, stress-relieved and precision-ground.
- New concept, practical and reliable for the precise vertical positioning of work pieces.
- Thin and fragile work pieces can be secured without damage by utilizing the spring pressure of these parallels.
- 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 ± 0.002 ".



Range	Description	Wooden Case Model No.
1/2"-1-1/2"	Set of 9 Pairs	637-7400
9-23mm	Set of 8 pairs by 2mm	637-7451
25-39mm	Set of 8 pairs by 2mm	637-7461

Height	Model No.
1/2"	637-7401
5/8"	637-7402
3/4"	637-7403
7/8"	637-7404
1"	637-7405
1-1/8"	637-7406
1-1/4"	637-7407
1-3/8"	637-7408
1-1/2"	637-7409

6 PIECES ADJUSTABLE PARALLEL SETS

Set Model No. 637-7508

FEATURES:

- 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.



Size	Model 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

17 PIECES ANGLE BLOCK SET

Set Model No. 630-4275

FEATURES:

- Provides quick set-up for angles from 1/4 to 45 degree.
- Eliminates time dressing angles.
- Made from hardened steel.
- Supplied in a fitted wood case.
- Accuracy: 0.003"

Set include: 1/4°, 1/2°, 1°, 2°, 3°, 4°, 5°, 10°, 1°, 20°, 25°, 30°, 35°, 40°, 45° & 2 riser blocks.





Measuring Tools



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°.

Model No. 630-4270

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
Set includes:
3PCS V-block: 10°, 15°, 30°.
5PCS Angle blocks: 1°, 2°, 3°, 4°, 5°.

Model No. 630-4265

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
Set includes:
3PCS V-blocks: 10°, 15°, 30°.
5PCS Angle blocks: 1°, 2°, 3°, 4°, 5°.

PRECISION ANGLE BLOCKS SET

- 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

SET MODEL NO. 630-4260 10pcs(From 1°- 30°),

SET MODEL NO.630-4261 12pcs(Include 630-4260 plus 1/4° and 1/2°)

Individual Angle Block



Optional	Model No.	Optional	Model No.	Optional	Model 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

SOLID ANGLE PLATES AND SETS

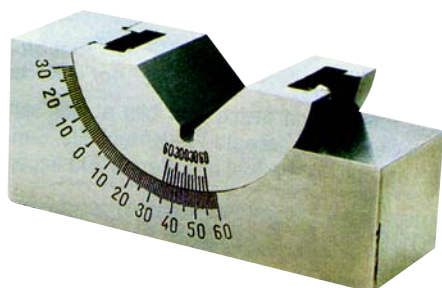


- Hardened Steel
- Precision Ground Angles
- Each Block is 1/4" Thick

Dimensions	Angle	Model No.
3 x 3 x 5/16"	45°/45°/90°	418-4800
2 x 3-3/8 x 5/16"	30°/60°/90°	418-4810

Model No. 418-4820 include 418-4800 and 418-4810

PRECISION 0°- 60° ANGLE BLOCKS



- 0°- 60° Adjustable angle by locking the hex screw on the bottom.
- Squariness 0.0004" 0.01mm
- Angle of Vee 90°

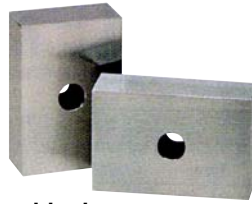
Dimension	Model No.
1-3/16 x 1-13/16 x 4"	418-4940
1-13/16 x 1-13/16 x 4"	418-4950
7/8 x 1-1/4 x 3"	418-4960
25 x 32 x 75mm	630-4225
30 x 48 x 102mm	630-4230
46 x 48 x 102mm	630-4246

Measuring Tools



PRECISION 1-2-3 BLOCKS

Tolerance within 0.0001" for squareness per inch.
Parallel: .0001" to .0002".
Blocks are matched and measure 1"x2"x3".
Complete in 2 PCS set.



Model No. 630-4005 with one hole per block
Model No. 630-4006 with 23 holes per block

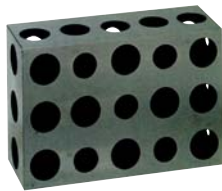
1-2-3 BLOCK SET

0.0001" Grad, Plastic Case
5 piece 3/8"-16 Socket Head Cap Screws
1 piece Hex key

Model No. 630-4000



1-2-3 and 2-4-6 BLOCK



- Precision ground and hardened on all Side.
- Ideal for mounting work for precision grounding and lay out.
- Dimension 0.0001" to 0.00003"
- Flatness 0.0001"
- Parallelism 0.0003".
- Hardness HRC 56-60.

Specification	Grad.	Hole	Model No.
1-2-3	0.0001"	1	630-4005
1-2-3	0.0001"	23	630-4006
1-2-3	0.0001"	NO	630-4007
1-2-3	±0.0002"	NO	630-4008
1-2-3	±0.0002"	1	630-4009
1-2-3	±0.0002"	23	630-4010
1-2-3	0.0001"	11	630-4011
25-50-75mm	±0.0050mm	23	630-4012
25-50-100mm	±0.0050mm	23	630-4013
50-100-150mm	±0.010mm		630-4014
2-3-4	±0.002"	23	630-4016
2-4-6	±0.0005"	23	630-4020

INSPECTION PARALLELS

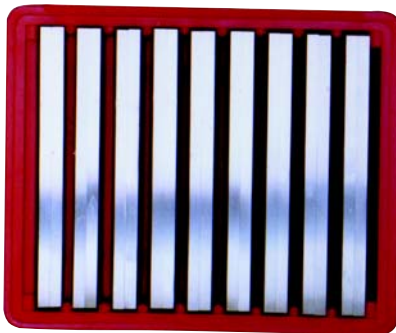
Made of high grade tool steel, stabilized and thoroughly hardened to HRC 58, surface finish RMS 16 or better.



Dimensions	Model No.	Dimensions	Model No.	Dimensions	Model 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

METRIC PRECISION PARALLEL SETS

Complete in Wooden Case



8 Pairs Sets

120mm Length Model No. 637-7972
160mm Length Model No. 637-7974
200mm Length Model No. 637-7976

- Parallel: ±0.005mm.
- Hardened and ground HRC 60-61
- Set Include: 8x(12, 17, 22, 25, 28, 32, 36, 38mm)

8 Pairs Sets

200mm Length Model No. 637-7976

- Parallel: ±0.005mm.
- Hardened and ground HRC 60-61
- Set Include: 8x(17, 22, 25, 28, 32, 36, 38, 43mm)

9 Pairs Sets

100mm Length Model No. 637-7968
160mm Length Model No. 637-7970

- Parallel: ±0.005mm.
- Hardened and ground HRC 60-61
- Set Include: 4x(10, 14, 18, 22, 26, 30, 34, 38, 42mm)

10 pairs

Model No. 637-7959

- Parallel: ±0.005mm.
- 10x150mm
- 14 to 32mm by 2mm

12 pairs

Model No. 637-7962

- Parallel: ±0.005mm.
- 10x120mm
- 14 to 32mm by 2mm plus 35mm, 40mm

14 pairs

Model No. 637-7960

- Parallel: ±0.005mm.
- Hardened and ground HRC 60-61
- Length: 150mm
- Set Include: 10x(14-32)mm step by 2mm
- 10x(35-50)mm step by 5mm

20 pairs

Model No. 637-7964

- Accuracy: ±0.01mm.
- Hardened and ground HRC 60-61
- Length: 100mm
- Set include: 2x(5-20)mm step by 5mm
- 3x(6-21)mm step by 5mm
- 4x(7-22)mm step by 5mm
- 5x(8-23)mm step by 5mm
- 6x(9-24)mm step by 5mm

24 pairs

Length 150mm Model No. 637-7966
Length 125mm Model No. 637-7967

- Accuracy: ±0.01mm.
- Hardened and ground HRC 60-61
- Length: 150mm
- Set include: 8x(11-36)mm step by 5mm
- 10x(13-38)mm step by 5mm
- 12x(15-40)mm step by 5mm
- 14x(17-42)mm step by 5mm

Model No. 637-7777 7 pairs

- Parallel: ±0.005mm
- Hardened and ground HRC 40-45
- Set Include:

Dimensions	Model No.
8.5 x 10 x 150mm	637-7710
8.5 x 15 x 150	637-7715
8.5 x 20 x 150	637-7720
8.5 x 24 x 150	637-7724
8.5 x 30 x 150	637-7730
12.6 x 38 x 150	637-7738
12.6 x 44 x 150	637-7744



Measuring Tools

PRECISION THIN PARALLELS



Thin style, 0.125 Thick, Matched pairs, Made of high grade alloy steel, hardened and ground, 2 hole in each parallel. Accuracy 0.0002" parallelism in height, 0.001" to size in height.

Set of 10 pair	
Description	Model No.
Plastic case	637-7030
Wooden case	637-7530

Dimensions	Hole Size	Model 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

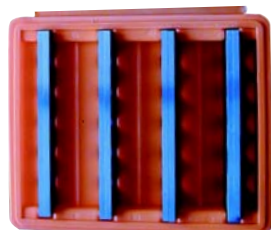
Tolerance: Parallel 0.0003" on 2 sides, top and bottom.

Dimensions: Within 0.001" allowance.

Hardness: Case hardened to RC 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

Set of 4 pairs	
Descriptions	Model No.
Wooden case	637-7532
Plastic case	637-7032

3/16" Individual	
Dimension	Model 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

1/2" , 4 Pairs

Set of 4 Pairs	
Descriptions	Model No.
Wooden case	637-7536
Plastic case	637-7036

1/2" Individual	
Dimension	Model 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

3/16" & 1/2" , 4 Pairs

Set of 4 pairs	
Descriptions	Model No.
Wooden case	637-7538
Plastic case	637-7038

3/16" & 1/2" Individual	
Dimension	Model 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

6" 4 Pairs

Model No. 637-7000

1/2"x3/8", 3/4"x1/4", 7/8"x3/16", 1x1/8"

6" 4 Pairs

Model No. 637-7001

3/4"x3/8", 1"x1/4", 1-1/8"x3/16", 1-3/16"x1/8"

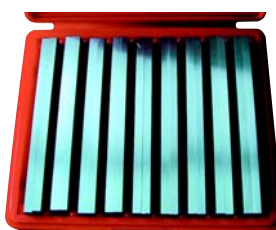
8 Pairs



Set of 8 Pairs	
Description	Model No.
Plastic Case	637-7034
Wooden Case	637-7534

8 Pairs		
Dimensions	Hole Size	Individual Model 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

9 Pairs



Set of 9 Pairs	
Descriptions	Model No.
Plastic Case	637-7035
Wooden Case	637-7535

9 Pairs		
Dimensions	Hole Size	Individual Model 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



20 pair set

Model No.637-9132

1/32" thin, 1/2" through 1-11/16" heights in 1/16", 0.0001" parallels

Blue Finished
Model No.637-9032

Black Finished
Model No.637-9033

Measuring Tools



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.
- Smooth "Ball-Bearing" surface.
- Resists dust and abrasives, Non-magnetic.

GGG-P-463C-73

INSPECTION GRADE "A"

Size	Thickness	Overall Accuracy	0-Ledge Model No.	2-Ledge Model No.
9x12"	3"	0.000050"	640-0400	640-0402
12x12"	3"	0.000050"	640-0410	640-0412
12x18"	3"	0.000050"	640-0420	640-0422
18x18"	3"	0.000050"	640-0430	640-0432
18x24"	3"	0.000075"	640-0440	640-0442
24x24"	3"	0.000075"	640-0450	640-0452
24x36"	4"	0.0001"	640-0470	640-0472
36x48"	4"	0.0002"	640-0473	640-0482
36x48"	6"	0.0002"	640-0480	640-0483
36x60"	6"	0.00025"	640-0490	640-0492

LABORATORY GRADE "AA"

Size	Thickness	Overall Accuracy	0-Ledge Model No.	2-Ledge Model No.
9x12"	3"	0.000025"	640-0600	640-0602
12x18"	3"	0.000025"	640-0620	640-0622
18x24"	4"	0.000037"	640-0640	640-0642
24x36"	6"	0.000050"	640-0660	640-0662
36x48"	6"	0.0001"	640-0680	640-0682

DIN 876-83

Size	Grade 0 Model No.	Grade 00 Model No.
300x200x50mm	641-0001	641-0070
300x300x50mm	641-0005	641-0075
400x250x50mm	641-0010	641-0080
400x400x100mm	641-0015	641-0085
500x315x70mm	641-0016	641-0086
630x400x80mm	641-0018	641-0088
630x400x100mm	641-0020	641-0090
630x630x100mm	641-0022	641-0092
630x630x130mm	641-0025	641-0095
800x500x100mm	641-0028	641-0098
800x500x130mm	641-0030	641-0100
1000x630x100mm	641-0034	641-0104
1000x630x150mm	641-0035	641-0105
1000x750x150mm	641-0040	641-0110
1000x1000x150mm	641-0045	641-0115
1200x800x150mm	641-0047	641-0117
1200x800x160mm	641-0048	641-0118
1600x1000x180mm	641-0049	641-0119
1600x1000x200mm	641-0050	641-0120
1500x1000x200mm	641-0051	641-0121
2000x1000x250mm	641-0055	641-0125
2000x1600x300mm	641-0060	641-0130
2500x1600x300mm	641-0065	641-0135
3000x1000x400mm	641-0066	641-0136
3000x2000x400mm	641-0067	641-0137

TOOLROOM GRADE "B"

Size	Thickness	Overall Accuracy	0-Ledge Model No.	2-Ledge Model No.
5x6"	2"	0.0001"	640-0070	640-0177
6x8"	2"	0.0001"	640-0080	640-0188
8x12"	2"	0.0001"	640-0090	640-0199
9x12"	2"	0.0001"	640-0101	640-0103
9x12"	3"	0.0001"	640-0100	640-0102
12x12"	3"	0.0001"	640-0110	640-0112
12x18"	3"	0.0001"	640-0120	640-0122
12x18"	4"	0.0001"	640-0125	640-0126
18x18"	3"	0.0001"	640-0130	640-0132
18x24"	3"	0.0001"	640-0140	640-0142
18x24"	4"	0.00015"	640-0145	640-0146
24x24"	3"	0.00015"	640-0150	640-0152
24x36"	4"	0.0002"	640-0160	640-0162
24x48"	4"	0.0003"	640-0170	640-0172
36x48"	4"	0.0004"	640-0180	640-0182
36x48"	6"	0.0004"	640-0184	640-0186
36x60"	6"	0.0005"	640-0190	640-0192
36x72"	6"	0.0006"	640-0200	640-0202
48x60"	6"	0.0005"	640-0210	640-0212
48x72"	6"	0.0007"	640-0220	640-0222
48x84"	8"	0.0007"	640-0230	640-0233
48x96"	12"	0.0008"	640-0240	640-0241

JISB 7510-78

Size	Grade 1 Model No.	Grade 0 Model 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



Plate not included.

GRANITE SURFACE PLATE STANDS

- Overall working height 36"
- With 4 leveling screws.
- Support all grade surface plates

Leveling Screw

Size	0-ledge	2-ledge
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

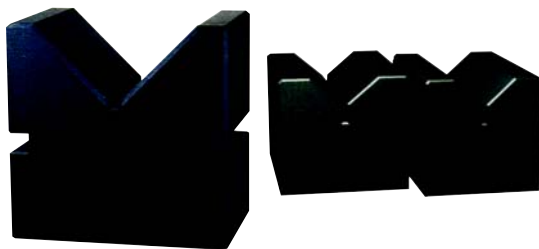
Metric Angle Iron Stands

Size	Model No.	Size	Model 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



Measuring Tools

GRANITE V-BLOCKS



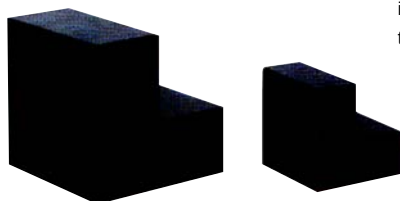
Master grade tolerance: 0.0001"/6".

- 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	Model No.
3x3x3"	640-0001
4x4x4"	640-0002
6x6x6"	640-0003

Size	Grade 0 Model No.	Grade 00 Model No.
63x63x63mm	641-6101	641-6001
100x100x100mm	641-6103	641-6003
160x160x100mm	641-6105	641-6005
250x250x160mm	641-6107	641-6007

GRANITE ANGLE PLATES



Furnished with two finished faces or four finished faces. Finished square and flat to master grade tolerance: 0.00005"/6". When four

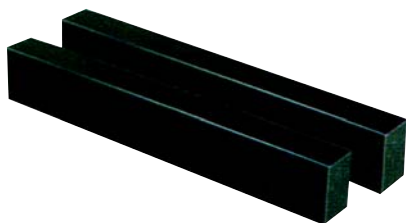
faces are finished, they are the 2 faces, back and bottom of the angle plate. Two faces models have only back and bottom finished.

Size	2Faces Model No.	4Faces Model No.
4x4x4"	640-0004	640-0044
6x6x6"	640-0006	640-0066
6x9x12"	640-0009	640-0069

Size	2 Faces grade 0 Model No.	2 Faces grade 00 Model No.	4 Faces grade 0 Model No.	4 Faces grade 00 Model 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 PARALLELS

Two Faces

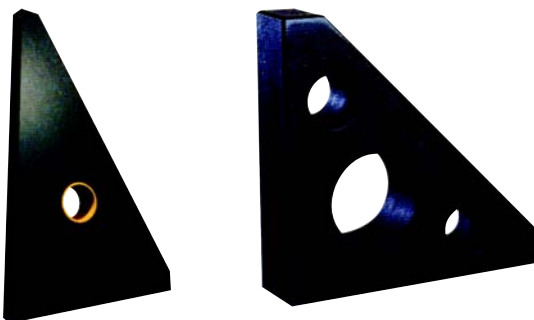


Elevate work above the surface plate, so that parts with steps and shoulders can be inspected quickly and easily. Include matched pairs held parallel on the top and bottom. **Supplied in pairs.**

Size	Tolerance	Model No.
3/4x1x6"	0.000060"	640-0011
1x2x12"	0.000100"	640-0022
1-1/2x3x18"	0.000300"	640-0033
2x4x24"	0.000500"	640-0040
2x4x30"	0.000500"	640-0050

Size	Grade 0 Model No.	Grade 00 Model 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 SQUARE

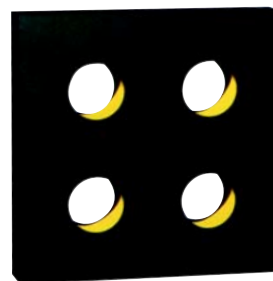


Size	Grade 00 Model No.	Grade 0 Model No.
100x63x16mm	641-2001	641-2111
160x100x20mm	641-2002	641-2112
250x160x25mm	641-2003	641-2113
400x250x40mm	641-2004	641-2114
630x400x80mm	641-2005	641-2115
1000x630x80mm	641-2006	641-2116

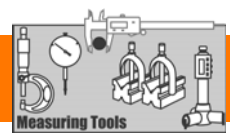
For inspecting machine spindle and else squareness of work pieces.
Round hole for size over 250x160mm.

GRANITE SQUARE RULERS

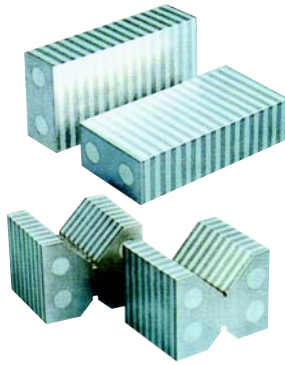
On inspection of verticality and parallelism as well as absolute 90° measuring base.



Size	Grade 00 Model No.	Grade 0 Model No.
100x100x20mm	641-2101	641-2111
160x160x25mm	641-2102	641-2112
200x200x25mm	641-2103	641-2113
250x250x30mm	641-2104	641-2114
300x300x30mm	641-2105	641-2115
400x400x40mm	641-2106	641-2116
500x500x50mm	641-2107	641-2117



MAGNETIC V-BLOCKS AND PARALLELS



- Precision ground on all surfaces.
- Integrally aluminum cast into one solid piece.
- Hold in any direction on the magnetic chuck.

Combination Set

Contents	Model No.
285-2050 and 285-2060	285-2100
285-2050 and 285-2070	285-2110

V-Blocks

Dimensions	In Pair Model No.	Individual Model No.
1-7/8" HX2-3/8"WX2"L	285-2060	285-2065
1-7/8" HX2-3/8"WX4-3/8"L	285-2070	285-2075

Parallels

Dimensions	In Pair Model No.	Individual Model No.
1" H x 2" W x 4" L	285-2050	285-2055

MAGNETIC V-BLOCKS

FEATURES:

Ideal for holding round and irregular shapes for scribing, grinding, measuring and machining.
Fine precision ground finish for user as an inspection device.

Centered 90° -V



Dimension H	Dimension W	Dimension L	Dimension L1	Mag. Power	Model No.
2-7/8"	2-3/8"	2-3/4"	1-3/4"	150lbs	285-2405
3-11/16"	2-5/8"	4"	2"	260lbs	285-2410

VEE BLOCKS WITH FLAT-CAPS

All V-Blocks are parallel, square and centered within 0.0002. Completely hardened and ground tool steel, Wooden case.



90° V-BLOCK

Max. Dimension	Vee Capacity	Individual Model No.	In Pair Model 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	420-5410	420-5411
4x3x3	2-1/2	420-5412	420-5450
4x6x6	4-3/8	420-5413	420-5460

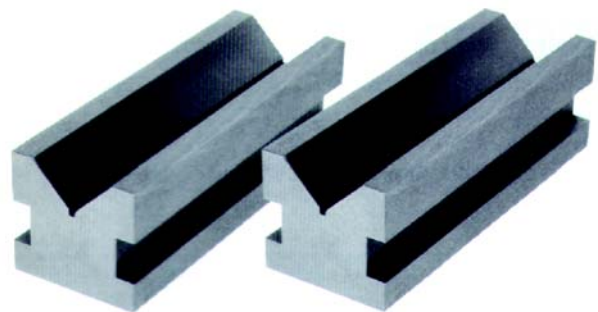
60° V-BLOCK

Max. Dimension	Vee Capacity	Individual Model No.	In Pair Model No.
2-1/2 x 2-1/2 x 2	1-3/8"	420-5415	420-5414
3 x 4 x 3	2-1/2"	420-5417	420-5416

1-V-BLOCK DIN876/1

- Made of special steel
- with 1 pc 90° V- grooves
- Accuracy 0.008mm

Dimension(LxWxH)	for shaftØ	In Pair Model No.	Individual Model No.
75x40x40mm	4-40mm	420-5201	420-5211
100x45x45mm	6-45mm	420-5202	420-5212
150x55x55mm	8-55mm	420-5203	420-5213
200x70x70mm	8-70mm	420-5204	420-5214
250x85x85mm	12-85mm	420-5205	420-5215
300x105x105mm	15-120mm	420-5206	420-5216



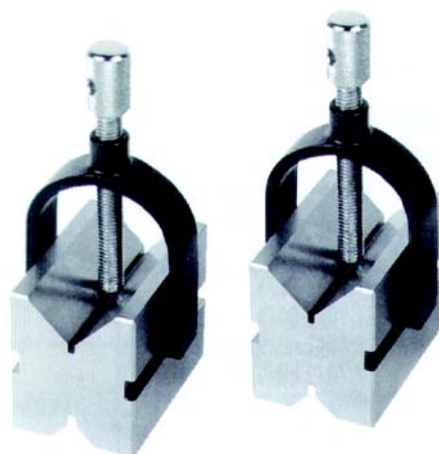


Measuring Tools

2-V-BLOCKS DIN876/1,with C-Cap

- Made of special steel
- with 2 pcs 90° V- grooves
- Accuracy 0.005mm

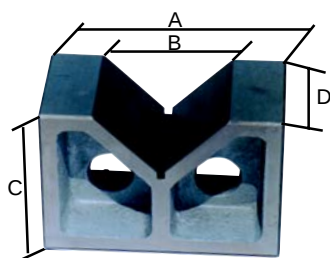
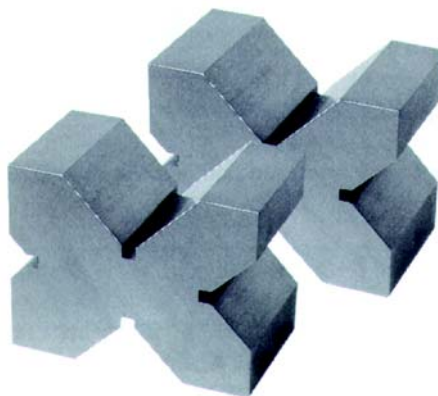
Dimension(LxWxH)	C-range	In Pairs Model No.	Individual Model No.
42x32x32mm	5-20mm	420-5483	420-5473
45x40x36mm	5-25mm	420-5484	420-5474
70x45x40mm	5-30mm	420-5485	420-5475
60x50x40mm	5-25mm	420-5486	420-5476
70x63x45mm	5-35mm	420-5487	420-5477
125x90x70mm	5-50mm	420-5488	420-5478
1-5/8x1-3/4x2-3/4"	1-1/2"	420-5481	420-5471
4-7/8x3-1/2x2-3/4"	2-1/8"	420-5482	420-5472



4-V-Blocks DIN876/1

- Made of special steel
- with 4 pcs 90° V- grooves
- Accuracy 0.008mm

Dimension(LxWxH)	for shaftΦ	In Pair Model No.	Individual Model No.
42x42x50mm	5-30mm	420-5101	420-5111
60x60x50mm	5-40mm	420-5102	420-5112
75x75x50mm	5-50mm	420-5103	420-5113
100x80x60mm	6-60mm	420-5104	420-5114
120x90x60mm	8-80mm	420-5105	420-5115
150x100x65mm	10-120mm	420-5106	420-5116
200x150x80mm	12-160mm	420-5107	420-5117



STEEL "V" BLOCKS

- Supplied in matched and numbered pairs.
- Vee blocks are manufactured from high quality castings. Properly seasoned against distortion.
- Blocks are accurately machined square and parallel

Dimensions: A-OAL Length, B-Vee Length, C-Height , D-Thickness

A	B	C	D	Weight	Model No.
3"	1-3/4"	2-3/8"	1-5/16"	2-1/2	420-5700
4"	2-1/4"	2-5/8"	1-5/8"	5	420-5702
5"	2-1/2"	3-1/8"	2"	8	420-5704
6"	3-1/8"	3-1/2"	2-1/2"	13	420-5706
7"	3-1/2"	4-1/2"	3"	27	420-5708
8"	4"	5-1/2"	4"	44	420-5710
10"	5"	6-5/8"	5"	73	420-5712
12"	6"	8"	7"	135	420-5714

RATCHET COUNTER

WITH RESET KNOB

- 5 digital Counter
- Base 2-1/8"x1-3/4"
- Counter 1-1/4" High



Model No. 840-1610

HAND COUNTER

- 4 Digital counter.
- 2" Height x 1-3/4" Width.
- Chrome plated.
- Finger ring for Convenient.



Model No. 840-1615

Measuring Tools



MEASURING LASER LEVEL



Model No.831-0002(3pcs/sex cineling Laser Level,Rotary base and tripod)

Use SCAN LASER together with rotary base and tripod, you can not only measure but also aline at any height.

Model No.831-0003(measuring leaer level only)

6018.400mm TYPE CJL62

Model No.831-0012(Rotary Base TYPE "D" only)

Model No.831-0020(Triped only,6118,leagth38-102cm)

Model No.831-0021(Triped only,5025,leagth47.5-124cm)

LASER LEVEL



Spec	Model No.
16"/40cm	831-0140
20"/50cm	831-0150
24"/60cm	831-0160

LASER LEVEL WITH LINE & PLUMB POINT LENS



Spec	Model No.
24"/60cm	831-0260

SCAN LASER LEVEL



Model No.831-0001(set in plastic box, unduding Scan laser Level,tripad 4pcs Bsueries are 6v-changer)

Use SCAN LASER together with tripod, you can precisely and conveniently aline at any height.

Model No.831-0005,(Scan laser level only)

ANGLE SPIRIT LEVEL



Model No.831-8118

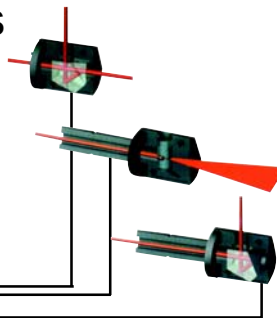
With round angle gage

Powder coat finish

With 2 vials

Length 45 cm

LENS



Plumb Point Lens

Model No.831-0016

Line Lens

Model No.831-0017

Split Lens

Model No.831-0018

ENHANCEMENT GLASSES



Model No.831-0013

LASER LEVEL WITH ENHANDCEMENT GLASSES



Spec	Model No.
20"/50cm	831-0350
24"/60cm	831-0360

LASER LEVEL WITH ROTARY BASE TYPE D



Base can be rotated through 360°



Spec	Model No.
12"/30cm	831-0430
16"/40cm	831-0440
24"/60cm	831-0460

LASER LEVEL KIT 8110



LASER LEVEL 40CM

Complete in blow mould case with Die cast rotary base type E, Tripod,

Line lens, Plumb point lens

Spec	Model No.
16"/40cm	831-0540

Model No.831-0011,die cast notary Base only type "c"

LASER LEVEL KIT 6110



LASER LEVEL 40CM

Complete in blow mould case with ABS rotary base type D, Tripod,

Line lens, Plumb point lens

Spec	Model No.
16"/40cm	831-0640



Measuring Tools

LASER LEVEL

LASER LEVEL KIT 9210



Laser Level 40CM
Complete in blow mould case with die cast rotary base type E, Tripod, Copper line lens, Copper plumb point lens, Target plate with folding rule, 2 AAA batteries

Spec	Model No.
16"/40cm	831-0740



LASER LEVEL KIT 5210

Laser Level 30CM
Complete in blow mould case with ASB rotary base type D, line lens, Plumb point lens, Enhancement glasses.

Spec	Model No.
12"/30cm	831-0830

MINI LASER LEVEL KIT

Mini Laser Level Kit 5052



Mini Laser Level 135mm
With magnet
Complete in double blister pack with tripod and pouch



Spec	Model No.
135mm	831-0135

Mini Laser Level Kit 5053

MINI LASER LEVEL 135mm
With magnet
Complete in double blister pack with 2 AAA batteries and pouch



Spec	Model No.
135mm	831-1135

SPIRIT LEVEL



LD-2001B



LD-2001-1B



DP-97-3B



DP-2002-1B

Material thickness: 1.5mm

LD-2001B Model No.	LD-2001B Model No.	DP-97-3B Model No.	DP-2002-1B Model No.	Size (cm)
831-7306	831-7706	831-7806	831-7906	60
831-7308	831-7708	831-7808	831-7908	80
831-7310	831-7710	831-7810	831-7910	100
831-7312	831-7712	831-7812	831-7912	120
831-7315	831-7715	831-7815	831-7915	150
831-7320	831-7720	831-7820	831-7920	200

SPIRIT LEVEL



DP-98B



LD-2002B

Material thickness: 2.0mm

DP-2002B Model No.	LD-98B Model No.	Size (cm)
831-7103		30
831-7104	831-7204	40
831-7105		50
831-7106	831-7206	60
831-7108	831-7208	800
831-7110	831-7210	100
831-7112	831-7212	120
831-7115	831-7215	150
831-7120	831-7220	200

SPIRIT LEVEL



DP-97-1B

DP-2000B

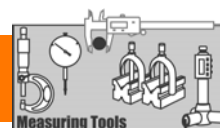


DP-97B

Material thickness: 1.5mm

DP-97-1B Model No.	DP-97B Model No.	DP-2000B Model No.	Size (cm)
831-7406	831-7506	831-7606	60
831-7408	831-7508	831-7608	80
831-7410	831-7510	831-7610	100
831-7412	831-7512	831-7612	120
831-7415	831-7515	831-7615	150
831-7420	831-7520	831-7620	200

Measuring Tools



MAGNETIC SPIRIT LEVEL 98SB

Box-profile of extruded aluminium Powder coat finish
With 3 vials and magnet



Spec	Model No.
160/40cm	831-3040
200/50cm	831-3050
240/60cm	831-3060
320/80cm	831-3080
400/100cm	831-3100

TELESCOPIC SPIRIT LEVEL

Box-profile of extruded aluminium Silver anodized surface With 3 vials



Spec	Model No.
56-80cm	831-4080
60-80cm	831-4180
60-90cm	831-4090
70-100cm	831-4100
76-120cm	831-4120
80-120cm	831-4220
96-120cm	831-4320

ANGLE SPIRIT LEVEL



Model No. 831-8120

DISTANCE MEASURING WHEELS



Dia (mm)	measuring range (m)	Model No.
318	0-9999	831-8860

ROTARY SCAN LASER LEVEL

It is one type of integrated instrument of light, mechanism and electricity, you may have easy measurement or set of a level reference surface by it's auto-rotating laser beam. It is widely used in the construction work or measurement both indoor and outdoor.

Accuracy: $\pm 5\text{mm}/10\text{m}$
Long vial accuracy: $0.05^\circ = 0.87\text{mm}/\text{m}$
Wavelength of the laser: 650nm
Power output of the laser: $\leq 1\text{mW}$
Power: DC 6V



Model No. 831-0004

set in plastic box.including rotary laser, tripod
580-1530mm, glasses & 4 pcs batteries



TOWER TAPE

Size (m)	Model No.
3	831-8873
5	831-8875
8	831-8878



ANGLE FINDER

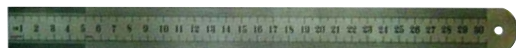
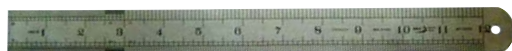


Model No. 831-8850



Measuring Tools

STAINLESS STEEL RULER



Range	Thickness x Width	Model No.
100x4"	0.5x13mm	638-9041
150x6"	0.75x19mm	638-9061
150x6"	1.0x19mm	638-9062
150x6"	0.5x13mm	638-9063
200x8"	0.75x19mm	638-9081
200x8"	1.0x19mm	638-9082
200x8"	0.5x13mm	638-9083
250x10"	0.75x19mm	638-9101
250x10"	1.0x19mm	638-9102
250x10"	0.5x13mm	638-9103
300x12"	0.75x30mm	638-9121
300x12"	1.0x30mm	638-9122
300x12"	0.5x13mm	638-9123
400x16"	0.75x30mm	638-9161
400x16"	1.0x30mm	638-9162
400x16"	0.5x13mm	638-9163
500x20"	0.75x30mm	638-9201
500x20"	1.0x30mm	638-9202

Range	Thickness x Width	Model No.
500x20"	0.5x13mm	638-9203
600x24"	0.75x30mm	638-9241
600x24"	1.0x30mm	638-9242
600x24"	0.5x13mm	638-9243
1000x40"	1.0x30mm	638-9401
1000x40"	2.0x30mm	638-9402
1000x40"	2.0x40mm	638-9403
1000x20"	0.5x24mm	638-9404
1200x48"	1.0x30mm	638-9481
1200x48"	2.0x30mm	638-9482
1200x48"	2.0x40mm	638-9483
1200x48"	0.5x24mm	638-9484
1500x60"	1.0x30mm	638-9601
1500x60"	2.00x30mm	638-9602
1500x60"	2.00x40mm	638-9603
2000x80"	1.0x30mm	638-9801
2000x80"	2.0x30mm	638-9802
2000x80"	2.0x40mm	638-9803

LOCKING STEEL TAPE



Series 92



Series 90



Series 86



Series 79

Size (m x mm)	Series 92 Model No.	Series 90 Model No.	Series 86 Model No.	Series 79 Model No.
2x13	810-1302	810-1202	810-1102	810-1002
3x13	810-1303	810-1203	810-1103	810-1003
5x19	810-1305	810-1205	810-1105	810-1005
7.5x25	810-1307	810-1207	810-1107	810-1007
10x25	810-1310	810-1210	810-1110	810-1010

FIBRE GLASS TAPE



Series 09



Series 12



Series 01



Series J1



Series J2



Series P08

Size (m)	Series09 Model No.	Series 12 Model No.	Series 01 Model No.	Series P08 Model No.	Series J1 Model No.	Series J2 Model No.
10		810-2210				
15	810-2015			810-2315		
20	810-2020	810-2220	810-2120	810-2320	810-2420	810-2520
30	810-2030	810-2230	810-2130		810-2430	810-2530
50	810-2050	810-2250	810-2150		810-2450	810-2550

LONG STEEL TAPE



Series G11



Series G09



Series GJ08



Series GJ07

Size (m x mm)	Series G11 Model No.	Series G09 Model No.	Series GJ08 Model No.	Series GJ07 Model No.
20x13	810-1920	810-1820	810-1620	810-1520
30x13	810-1930	810-1830	810-1630	810-1530
50x13		810-1850	810-1650	810-1550