

Vernier Caliper

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"	.02mm/.001"	103-1501	403-1501
0-200mm/8"	.02mm/.001"	103-2001	403-2001
0-300mm/12"	.02mm/.001"	103-3001	403-3001
0-6"	.001"/1/128"	103-1503	403-1503
0-150mm/6"	.05mm/.001"	103-1509	403-1509
0-200mm/8"	.05mm/.001"	103-2009	403-2009
0-150mm/6"	.05mm/1/128"	103-1508	403-1508
0-200mm/8"	.05mm/1/128"	103-2008	403-2008
0-300mm/12"	.05mm/1/128"	103-3008	403-3008

Metric Only

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

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"	.02mm/.001"	104-1501	404-1501
0-200mm/8"	.02mm/.001"	104-2001	404-2001
0-300mm/12"	.02mm/.001"	104-3001	404-3001
0-150mm/6"	.05mm/.001"	104-1503	404-1503
0-150mm/6"	.05mm/1/128"	104-1508	404-1508
0-200mm/8"	.05mm/1/128"	104-2008	404-2008
0-300mm/12"	.05mm/1/128"	104-3008	404-3008

Metric Only

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

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"	.02mm/.001"	105-1501	405-1501
0-200mm/8"	.02mm/.001"	105-2001	405-2001
0-300mm/8"	.02mm/.001"	105-3001	405-3001
0-150mm/6"	.05mm/1/128"	105-1508	405-1508
0-200mm/8"	.05mm/1/128"	105-2008	405-2008
0-300mm/8"	.05mm/1/128"	105-3008	405-3008

Metric Only

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

Type 3, with Fine Adjustment

- With up scriber jaws.
- With Circular inside jaws.

- 2 way measurement.
- Made of High quality Tool Steel.



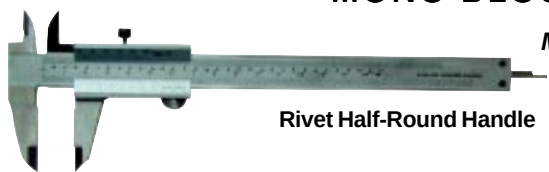
Metric & Inch		Jaw	
Range	Graduations	Length	Model No.
0-200mm/8"	.02mm/.001"	60mm	102-1202
0-200mm/8"	.02mm/.001"	90mm	102-1203
0-300mm/12"	.02mm/.001"	60mm	102-1302
0-300mm/12"	.02mm/.001"	90mm	102-1303
0-200mm/8"	.05mm/1/128"	60mm	102-1205
0-200mm/8"	.05mm/1/128"	90mm	102-1206
0-300mm/12"	.05mm/1/128"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

Metric Only

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

Vernier Caliper

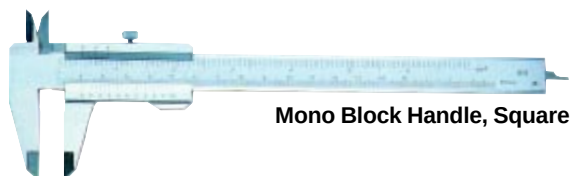
MONO-BLOCK VERNIER CALIPERS



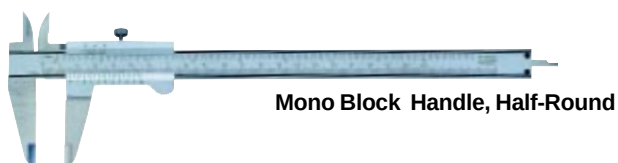
Rivet Half-Round Handle

Mono-Block with Screw Lock

- 4 Way measurement.
- Made of Stainless Steel.



Mono Block Handle, Square



Mono Block Handle, Half-Round

Range	Graduations	Rivet Half-Round Handle	Mono Block Square Handle	Mono Block Half-Round Handle
		Model No.	Model No.	Model No.
0-150mm	.02mm	817-0802	817-0902	817-4002
0-200mm	.02mm	817-0822	817-0922	817-4022
0-150mm	.05mm	817-0805	817-0905	817-4005
0-200mm	.05mm	817-0825	817-0925	817-4025
0-150mm/6"	.02mm/.001"	817-0801	817-0901	817-4001
0-200mm/8"	.02mm/.001"	817-0821	817-0921	817-4021
0-150mm/6"	.05mm/1/128"	817-0808	817-0908	817-4008
0-200mm/8"	.05mm/1/128"	817-0828	817-0928	817-4028

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	.02mm	827-0202
0-200mm	.05mm	827-0205

Mono-Block, with Plane Looking

- Made of stainless steel.
- 4 way measurement.

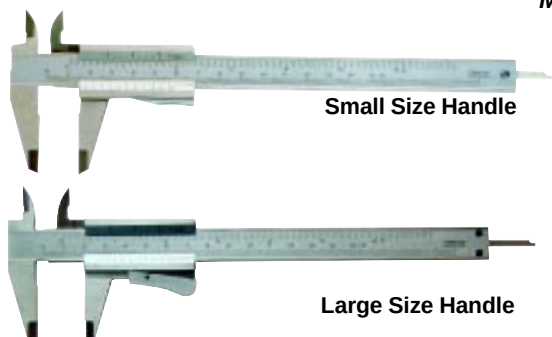


Range	.02mm/.001".05mm/1/128"		Range	.02mm .05mm	
	Model No.	Model No.		Model No.	Model No.
0-150mm/6"	817-1501	817-1508	0-150mm	817-1502	817-1505
0-200mm/8"	817-2001	817-2008	0-200mm	817-2002	817-2005
0-300mm/12"	817-3001	817-3008	0-300mm	817-3002	817-3005

Vernier Caliper

MONO-BLOCK VERNIER CALIPERS

Mono-Block with Auto Clamp



Small Size Handle

Large Size Handle

- 4 Way measurement.
- Made of Stainless Steel.

Range	Graduations	Large Size Handle Model No.	Small Size Handle Model No.
0-150mm	.02mm	818-0152	818-1152
0-200mm	.02mm	818-0202	818-1202
0-150mm	.05mm	818-0155	818-1155
0-200mm	.05mm	818-0205	818-1205
0-150mm/6"	.02mm/.001"	818-0151	818-1151
0-200mm/8"	.02mm/.001"	818-0201	818-1201
0-150mm/6"	.05mm/1/128"	818-0158	818-1158
0-200mm/8"	.05mm/1/128"	818-0208	818-1208

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/1/1000"	818-2151
150mm/6"	0.05mm/1/128"	818-2158

Mono-Block, Self-locking with Small Lock

Handle & Round Depth Bar

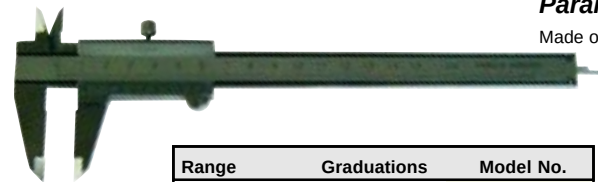
Made of Stainless Steel



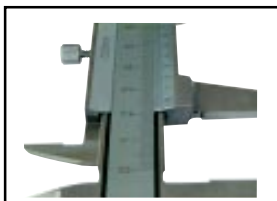
Range	Graduations	Model No.
150mm	0.02mm	818-3152
150mm	0.05mm	818-3155
150mm/6"	0.02mm/1/1000"	818-3151
150mm/6"	0.05mm/1/128"	818-3158

Parallexe Free Mono-Block

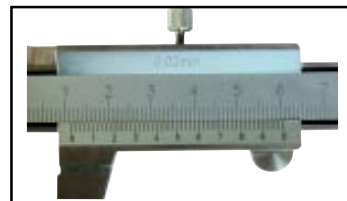
Made of Stainless Steel



Range	Graduations	Model No.
0-150mm	.02mm	815-1901
0-150mm	.05mm	815-1902
0-150mm/6"	.02mm/.001"	815-1905
0-150mm/6"	.05mm/1/128"	815-1908

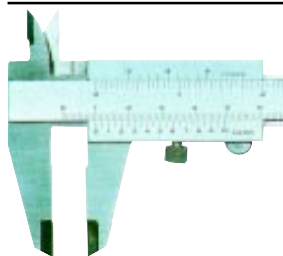


Parallexe Free



Vernier

PARALLEXE FREE CALIPER



Basic Model

- Made of Stainless Steel.
- 4 way measurement.



Range	Graduations	Auto Clamp Model No.	Screw Lock Model No.
0-150mm	.02mm	815-1602	815-1502
0-150mm	.05mm	815-1605	815-1505
0-150mm/6"	.02mm/.001"	815-1601	815-1501
0-150mm/6"	.05mm/1/128"	815-1608	815-1508

Mono-Block Type

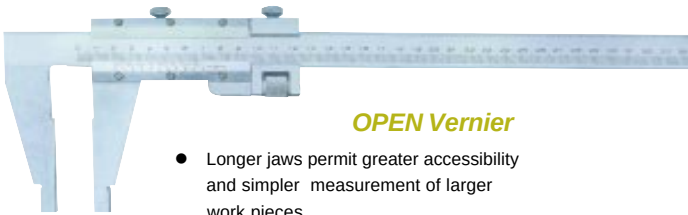
Range	Graduations	Screw Lock Model No.
0-150mm	.02mm	815-1702
0-150mm	.05mm	815-1705
0-150mm/6"	.02mm/.001"	815-1701
0-150mm/6"	.05mm/1/128"	815-1708

Mono-Block & Double Prism Type

Range	Graduations	Screw Lock Model No.
0-150mm	.02mm	815-1802
0-150mm	.05mm	815-1805
0-150mm/6"	.02mm/.001"	815-1801
0-150mm/6"	.05mm/1/128"	815-1808

Vernier Caliper

HEAVY DUTY VERNIER CALIPERS



OPEN Vernier

- Longer jaws permit greater accessibility and simpler measurement of larger work pieces.
- With fine adjustment.

Metric Only

Range	Jaw Length	.02mm Carbon Steel Model No.	.02mm Stainless Steel Model No.	.05mm Carbon Steel Model No.	.05mm Stainless Steel Model No.
0-300mm	75mm	611-3005	611-3205	611-3405	611-3605
0-450mm	100mm	611-3010	611-3210	611-3410	611-3610
0-500mm	100mm	611-3015	611-3215	611-3415	611-3615
0-500mm	125mm	611-3020	611-3220	611-3420	611-3620
0-500mm	150mm	611-3025	611-3225	611-3425	611-3625
0-600mm	125mm	611-3030	611-3230	611-3430	611-3630
0-600mm	150mm	611-3035	611-3235	611-3435	611-3635
0-800mm	150mm	611-3040	611-3240	611-3440	611-3640
0-800mm	200mm	611-3045	611-3245	611-3445	611-3645
0-1000mm	150mm	611-3050	611-3250	611-3450	611-3650
0-1000mm	200mm	611-3055	611-3255	611-3455	611-3655
0-1500mm	150mm	611-3060	611-3260	611-3460	611-3660
0-1500mm	200mm	611-3065	611-3265	611-3465	611-3665
0-1500mm	250mm	611-3070	611-3270	611-3470	611-3670
0-1500mm	300mm	611-3075	611-3275	611-3475	611-3675
0-2000mm	150mm	611-3080	611-3280	611-3480	611-3680
0-2000mm	200mm	611-3085	611-3285	611-3485	611-3685
0-2500mm	150mm	611-3090	611-3290	611-3490	611-3690
0-2500mm	200mm	611-3095	611-3295	611-3495	611-3695
0-2500mm	250mm	611-3100	611-3300	611-3500	611-3700
0-2500mm	300mm	611-3105	611-3305	611-3505	611-3705
0-3000mm	150mm	611-3110	611-3310	611-3510	611-3710
0-3000mm	200mm	611-3115	611-3315	611-3515	611-3715
0-3000mm	250mm	611-3120	611-3320	611-3520	611-3720
0-3000mm	300mm	611-3125	611-3325	611-3525	611-3725
0-4000mm	200mm	611-3130	611-3330	611-3530	611-3730
0-4000mm	250mm	611-3135	611-3335	611-3535	611-3735
0-4000mm	300mm	611-3140	611-3340	611-3540	611-3740

Metric & Inch

Range	Jaw Length	.02mm/.001" Carbon Steel Model No.	.02mm/.001" Stainless Steel Model No.
0-12"/300mm	2.5"/65mm	611-4305	611-4405
0-12"/300mm	3.5"/90mm	611-4310	611-4410
0-12"/300mm	5"/125mm	611-4315	611-4415
0-12"/300mm	6"/150mm	611-4320	611-4420
0-16"/400mm	4"/100mm	611-4325	611-4425
0-16"/400mm	5"/125mm	611-4330	611-4430
0-16"/400mm	6"/150mm	611-4335	611-4435
0-16"/400mm	8"/200mm	611-4340	611-4440
0-20"/500mm	4"/100mm	611-4345	611-4445
0-20"/500mm	6"/150mm	611-4350	611-4450
0-20"/500mm	8"/200mm	611-4355	611-4455
0-20"/500mm	10"/250mm	611-4360	611-4460
0-24"/600mm	4"/100mm	611-4365	611-4465
0-24"/600mm	6"/150mm	611-4370	611-4470
0-24"/600mm	8"/200mm	611-4375	611-4475
0-24"/600mm	10"/250mm	611-4380	611-4480
0-24"/600mm	12"/300mm	611-4385	611-4485

Inch Only

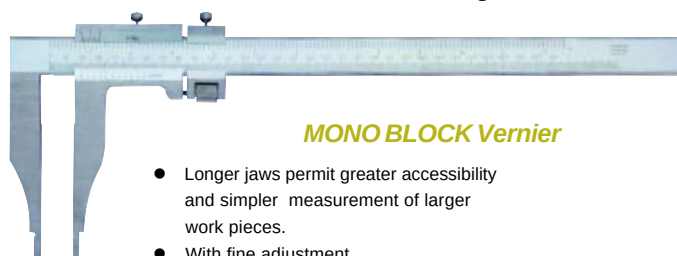
Range	Jaw Length	.001" Carbon Steel Model No.	.001" Stainless Steel Model No.
0-12"	2.5"	611-3805	611-4105
0-12"	3.5"	611-3810	611-4110
0-12"	5"	611-3815	611-4115
0-12"	6"	611-3820	611-4120
0-16"	4"	611-3825	611-4125
0-16"	5"	611-3830	611-4130
0-16"	6"	611-3835	611-4135
0-16"	8"	611-3840	611-4140
0-18"	4"	611-3845	611-4145
0-20"	4"	611-3850	611-4150
0-20"	6"	611-3855	611-4155
0-20"	8"	611-3860	611-4160
0-20"	10"	611-3865	611-4165
0-24"	4"	611-3870	611-4170
0-24"	6"	611-3875	611-4175
0-24"	8"	611-3880	611-4180
0-24"	10"	611-3885	611-4185
0-24"	12"	611-3890	611-4190
0-32"	6"	611-3895	611-4195
0-32"	8"	611-3900	611-4200
0-32"	10"	611-3905	611-4205
0-32"	12"	611-3910	611-4210
0-40"	6"	611-3915	611-4215
0-40"	8"	611-3920	611-4220
0-40"	10"	611-3925	611-4225
0-40"	12"	611-3930	611-4230
0-60"	6"	611-3935	611-4235
0-60"	8"	611-3940	611-4240
0-60"	10"	611-3945	611-4245
0-60"	12"	611-3950	611-4250
0-80"	6"	611-3955	611-4255
0-80"	8"	611-3960	611-4260
0-80"	10"	611-3965	611-4265
0-80"	12"	611-3970	611-4270
0-100"	6"	611-3975	611-4275
0-100"	8"	611-3980	611-4280
0-100"	10"	611-3985	611-4285
0-100"	12"	611-3990	611-4290

Metric & Inch

Range	Jaw Length	.02mm/.001" Carbon Steel Model No.	.02mm/.001" Stainless Steel Model No.
0-32"/800mm	6"/150mm	611-4505	611-4605
0-32"/800mm	8"/200mm	611-4510	611-4610
0-32"/800mm	10"/250mm	611-4515	611-4615
0-32"/800mm	12"/300mm	611-4520	611-4620
0-40"/1000mm	6"/150mm	611-4525	611-4625
0-40"/1000mm	8"/200mm	611-4530	611-4630
0-40"/1000mm	10"/250mm	611-4535	611-4635
0-40"/1000mm	12"/300mm	611-4540	611-4640
0-60"/1500mm	6"/150mm	611-4545	611-4645
0-60"/1500mm	8"/200mm	611-4550	611-4650
0-60"/1500mm	10"/250mm	611-4555	611-4655
0-60"/1500mm	12"/300mm	611-4560	611-4660
0-80"/2000mm	6"/150mm	611-4565	611-4665
0-80"/2000mm	8"/200mm	611-4570	611-4670
0-80"/2000mm	10"/250mm	611-4575	611-4675
0-80"/2000mm	12"/300mm	611-4580	611-4680

Vernier Caliper

HEAVY DUTY VERNIER CALIPERS



MONO BLOCK Vernier

- Longer jaws permit greater accessibility and simpler measurement of larger work pieces.
- With fine adjustment.

Metric Only

Range	Jaw Length	.02mm Carbon Steel Model No.	.02mm Stainless Steel Model No.	.05mm Carbon Steel Model No.	.05mm Stainless Steel Model No.
0-300mm	75mm	611-7005	611-7205	611-7405	611-7605
0-450mm	100mm	611-7010	611-7210	611-7410	611-7610
0-500mm	100mm	611-7015	611-7215	611-7415	611-7615
0-500mm	125mm	611-7020	611-7220	611-7420	611-7620
0-500mm	150mm	611-7025	611-7225	611-7425	611-7625
0-600mm	125mm	611-7030	611-7230	611-7430	611-7630
0-600mm	150mm	611-7035	611-7235	611-7435	611-7635
0-800mm	150mm	611-7040	611-7240	611-7440	611-7640
0-800mm	200mm	611-7045	611-7245	611-7445	611-7645
0-1000mm	150mm	611-7050	611-7250	611-7450	611-7650
0-1000mm	200mm	611-7055	611-7255	611-7455	611-7655
0-1500mm	150mm	611-7060	611-7260	611-7460	611-7660
0-1500mm	200mm	611-7065	611-7265	611-7465	611-7665
0-1500mm	250mm	611-7070	611-7270	611-7470	611-7670
0-1500mm	300mm	611-7075	611-7275	611-7475	611-7675
0-2000mm	150mm	611-7080	611-7280	611-7480	611-7680
0-2000mm	200mm	611-7085	611-7285	611-7485	611-7685
0-2500mm	150mm	611-7090	611-7290	611-7490	611-7690
0-2500mm	200mm	611-7095	611-7295	611-7495	611-7695
0-2500mm	250mm	611-7100	611-7300	611-7500	611-7700
0-2500mm	300mm	611-7105	611-7305	611-7505	611-7705
0-3000mm	150mm	611-7110	611-7310	611-7510	611-7710
0-3000mm	200mm	611-7115	611-7315	611-7515	611-7715
0-3000mm	250mm	611-7120	611-7320	611-7520	611-7720
0-3000mm	300mm	611-7125	611-7325	611-7525	611-7725
0-4000mm	200mm	611-7130	611-7330	611-7530	611-7730
0-4000mm	250mm	611-7135	611-7335	611-7535	611-7735
0-4000mm	300mm	611-7140	611-7340	611-7540	611-7740

Metric & Inch

Range	Jaw Length	.02mm/.001" Carbon Steel Model No.	.02mm/.001" Stainless Steel Model No.
0-12"/300mm	2.5"/65mm	611-8305	611-8405
0-12"/300mm	3.5"/90mm	611-8310	611-8410
0-12"/300mm	5"/125mm	611-8315	611-8415
0-12"/300mm	6"/150mm	611-8320	611-8420
0-16"/400mm	4"/100mm	611-8325	611-8425
0-16"/400mm	5"/125mm	611-8330	611-8430
0-16"/400mm	6"/150mm	611-8335	611-8435
0-16"/400mm	8"/200mm	611-8340	611-8440
0-20"/500mm	4"/100mm	611-8345	611-8445
0-20"/500mm	6"/150mm	611-8350	611-8450
0-20"/500mm	8"/200mm	611-8355	611-8455
0-20"/500mm	10"/250mm	611-8360	611-8460
0-24"/600mm	4"/100mm	611-8365	611-8465
0-24"/600mm	6"/150mm	611-8370	611-8470
0-24"/600mm	8"/200mm	611-8375	611-8475
0-24"/600mm	10"/250mm	611-8380	611-8480
0-24"/600mm	12"/300mm	611-8385	611-8485

Inch Only

Range	Jaw Length	.001" Carbon Steel Model No.	.001" Stainless Steel Model No.
0-12"	2.5"	611-7805	611-8105
0-12"	3.5"	611-7810	611-8110
0-12"	5"	611-7815	611-8115
0-12"	6"	611-7820	611-8120
0-16"	4"	611-7825	611-8125
0-16"	5"	611-7830	611-8130
0-16"	6"	611-7835	611-8135
0-16"	8"	611-7840	611-8140
0-18"	4"	611-7845	611-8145
0-20"	4"	611-7850	611-8150
0-20"	6"	611-7855	611-8155
0-20"	8"	611-7860	611-8160
0-20"	10"	611-7865	611-8165
0-24"	4"	611-7870	611-8170
0-24"	6"	611-7875	611-8175
0-24"	8"	611-7880	611-8180
0-24"	10"	611-7885	611-8185
0-24"	12"	611-7890	611-8190
0-32"	6"	611-7895	611-8195
0-32"	8"	611-7900	611-8200
0-32"	10"	611-7905	611-8205
0-32"	12"	611-7910	611-8210
0-40"	6"	611-7915	611-8215
0-40"	8"	611-7920	611-8220
0-40"	10"	611-7925	611-8225
0-40"	12"	611-7930	611-8230
0-60"	6"	611-7935	611-8235
0-60"	8"	611-7940	611-8240
0-60"	10"	611-7945	611-8245
0-60"	12"	611-7950	611-8250
0-80"	6"	611-7955	611-8255
0-80"	8"	611-7960	611-8260
0-80"	10"	611-7965	611-8265
0-80"	12"	611-7970	611-8270
0-100"	6"	611-7975	611-8275
0-100"	8"	611-7980	611-8280
0-100"	10"	611-7985	611-8285
0-100"	12"	611-7990	611-8290

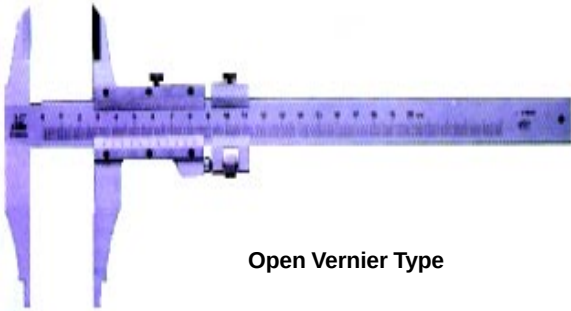
Metric & Inch

Range	Jaw Length	.02mm/.001" Carbon Steel Model No.	.02mm/.001" Stainless Steel Model No.
0-32"/800mm	6"/150mm	611-8505	611-8605
0-32"/800mm	8"/200mm	611-8510	611-8610
0-32"/800mm	10"/250mm	611-8515	611-8615
0-32"/800mm	12"/300mm	611-8520	611-8620
0-40"/1000mm	6"/150mm	611-8525	611-8625
0-40"/1000mm	8"/200mm	611-8530	611-8630
0-40"/1000mm	10"/250mm	611-8535	611-8635
0-40"/1000mm	12"/300mm	611-8540	611-8640
0-60"/1500mm	6"/150mm	611-8545	611-8645
0-60"/1500mm	8"/200mm	611-8550	611-8650
0-60"/1500mm	10"/250mm	611-8555	611-8655
0-60"/1500mm	12"/300mm	611-8560	611-8660
0-80"/2000mm	6"/150mm	611-8565	611-8665
0-80"/2000mm	8"/200mm	611-8570	611-8670
0-80"/2000mm	10"/250mm	611-8575	611-8675
0-80"/2000mm	12"/300mm	611-8580	611-8680

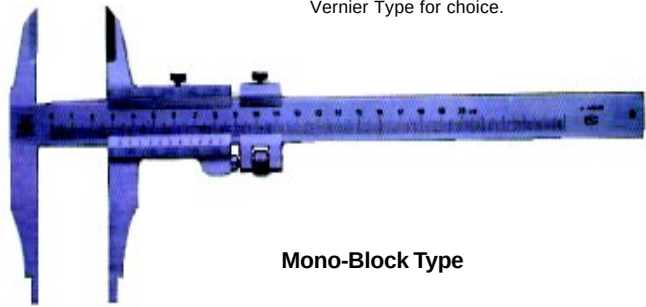
Vernier Caliper

With External Upper Jaws

- Made of Stainless Steel
- With fine adjustment.
- Open vernier Type and Mono-Block Vernier Type for choice.



Open Vernier Type



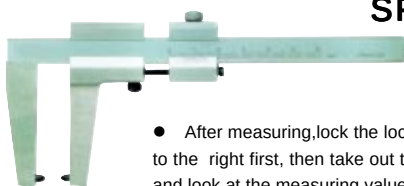
Mono-Block Type

Metric Only		Open Vernier		Mono-Block	
Range	Jaw Length	.02mm Model No.	.05mm Model No.	.02mm Model No.	.05mm Model No.
0-300mm	60mm	610-4000	610-4100	610-4200	610-4300
0-300mm	90mm	610-4002	610-4102	610-4202	610-4302
0-300mm	100mm	610-4004	610-4104	610-4204	610-4304
0-300mm	125mm	610-4006	610-4106	610-4206	610-4306
0-400mm	100mm	610-4008	610-4108	610-4208	610-4308
0-400mm	125mm	610-4010	610-4110	610-4210	610-4310
0-400mm	150mm	610-4012	610-4112	610-4212	610-4312
0-500mm	100mm	610-4014	610-4114	610-4214	610-4314
0-500mm	150mm	610-4016	610-4116	610-4216	610-4316
0-500mm	200mm	610-4018	610-4118	610-4218	610-4318
0-600mm	100mm	610-4020	610-4120	610-4220	610-4320
0-600mm	150mm	610-4022	610-4122	610-4222	610-4322
0-600mm	200mm	610-4024	610-4124	610-4224	610-4324
0-800mm	150mm	610-4026	610-4126	610-4226	610-4326
0-800mm	200mm	610-4028	610-4128	610-4228	610-4328
0-800mm	250mm	610-4030	610-4130	610-4230	610-4330
0-1000mm	150mm	610-4032	610-4132	610-4232	610-4332
0-1000mm	200mm	610-4034	610-4134	610-4234	610-4334
0-1000mm	250mm	610-4036	610-4136	610-4236	610-4336
0-1000mm	300mm	610-4038	610-4138	610-4238	610-4338
0-1500mm	150mm	610-4040	610-4140	610-4240	610-4340
0-1500mm	200mm	610-4042	610-4142	610-4242	610-4342
0-1500mm	250mm	610-4044	610-4144	610-4244	610-4344
0-1500mm	300mm	610-4046	610-4146	610-4246	610-4346
0-2000mm	150mm	610-4048	610-4148	610-4248	610-4348
0-2000mm	200mm	610-4050	610-4150	610-4250	610-4350
0-2000mm	250mm	610-4052	610-4152	610-4252	610-4352
0-2000mm	300mm	610-4054	610-4154	610-4254	610-4354
0-2500mm	150mm	610-4056	610-4156	610-4256	610-4356
0-2500mm	200mm	610-4058	610-4158	610-4258	610-4358
0-2500mm	250mm	610-4060	610-4160	610-4260	610-4360
0-2500mm	300mm	610-4062	610-4162	610-4262	610-4362
0-3000mm	150mm	610-4064	610-4164	610-4264	610-4364
0-3000mm	200mm	610-4066	610-4166	610-4266	610-4366
0-3000mm	250mm	610-4068	610-4168	610-4268	610-4368
0-3000mm	300mm	610-4070	610-4170	610-4270	610-4370

Metric & Inch		Open Vernier		Mono-Block	
Range	Jaw Length	.02mm/.001" Model No.	.05mm/1/128" Model No.	.02mm/.001" Model No.	.05mm/1/128" Model No.
0-300mm/12"	60mm	610-4400	610-4500	610-4600	610-4700
0-300mm/12"	90mm	610-4402	610-4502	610-4602	610-4702
0-300mm/12"	100mm	610-4404	610-4504	610-4604	610-4704
0-300mm/12"	125mm	610-4406	610-4506	610-4606	610-4706
0-400mm/16"	100mm	610-4408	610-4508	610-4608	610-4708
0-400mm/16"	125mm	610-4410	610-4510	610-4610	610-4710
0-400mm/16"	150mm	610-4412	610-4512	610-4612	610-4712
0-500mm/20"	100mm	610-4414	610-4514	610-4614	610-4714
0-500mm/20"	150mm	610-4416	610-4516	610-4616	610-4716
0-500mm/20"	200mm	610-4418	610-4518	610-4618	610-4718
0-600mm/24"	100mm	610-4420	610-4520	610-4620	610-4720
0-600mm/24"	150mm	610-4422	610-4522	610-4622	610-4722
0-600mm/24"	200mm	610-4424	610-4524	610-4624	610-4724
0-800mm/32"	150mm	610-4426	610-4526	610-4626	610-4726
0-800mm/32"	200mm	610-4428	610-4528	610-4628	610-4728
0-800mm/32"	250mm	610-4430	610-4530	610-4630	610-4730
0-1000mm/40"	150mm	610-4432	610-4532	610-4632	610-4732
0-1000mm/40"	200mm	610-4434	610-4534	610-4634	610-4734
0-1000mm/40"	250mm	610-4436	610-4536	610-4636	610-4736
0-1000mm/40"	300mm	610-4438	610-4538	610-4638	610-4738
0-1500mm/60"	150mm	610-4440	610-4540	610-4640	610-4740
0-1500mm/60"	200mm	610-4442	610-4542	610-4642	610-4742
0-1500mm/60"	250mm	610-4444	610-4544	610-4644	610-4744
0-1500mm/60"	300mm	610-4446	610-4546	610-4646	610-4746
0-2000mm/80"	150mm	610-4448	610-4548	610-4648	610-4748
0-2000mm/80"	200mm	610-4450	610-4550	610-4650	610-4750
0-2000mm/80"	250mm	610-4452	610-4552	610-4652	610-4752
0-2000mm/80"	300mm	610-4454	610-4554	610-4654	610-4754
0-2500mm/100"	150mm	610-4456	610-4556	610-4656	610-4756
0-2500mm/100"	200mm	610-4458	610-4558	610-4658	610-4758
0-2500mm/100"	250mm	610-4460	610-4560	610-4660	610-4760
0-2500mm/100"	300mm	610-4462	610-4562	610-4662	610-4762
0-3000mm/120"	150mm	610-4464	610-4564	610-4664	610-4764
0-3000mm/120"	200mm	610-4466	610-4566	610-4666	610-4766
0-3000mm/120"	250mm	610-4468	610-4568	610-4668	610-4768
0-3000mm/120"	300mm	610-4470	610-4570	610-4670	610-4770

Vernier Caliper

SPECIALTY VERNIER CALIPERS

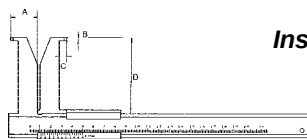


With Points

- After measuring, lock the locking screw and move the slider to the right first, then take out the caliper from the work piece and look at the measuring value, which can avoid damaging the measured surface

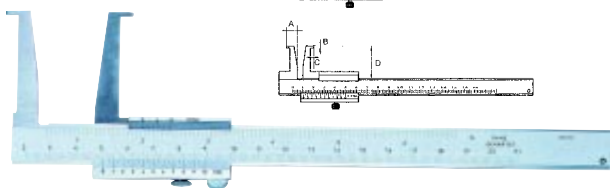
- Suitable for the measurements in dim place.
- Made of Stainless Steel.

Range	Graduation	Length of Jaws	Model No.
0-50mm	.1mm	51.5	610-5501
0-60mm	.1mm	55	610-5502
0-60mm	.1mm	80	610-5503
0-90mm	.1mm	120	610-5504



Inside Groove Vernier Caliper

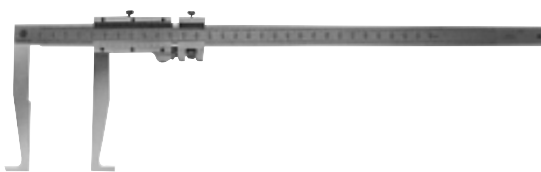
- Mono-Block.
- Made of stainless steel.
- With upper Jaws.



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

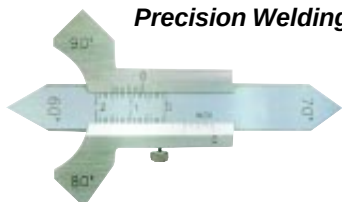
For Inside Groove Measurements

- Prolongation Jaws.
- With fine adjustment



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
40-340mm/0-300mm	0.02mm/0.001	95x40mm	610-6307
60-560mm/0-500mm	0.02mm/0.001	150x60mm	610-6507
40-340mm/0-300mm	0.05mm/1/128	95x40mm	610-6309
60-560mm/0-500mm	0.05mm/1/128	150x60mm	610-6509

Precision Welding Seam Gage



Model No. 102-5500

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

Digital Welding Gage

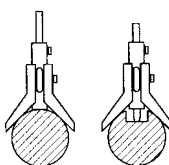


Model No. 101-5600

- Graduation: .01mm/.0005"
- Range: 12.5mm/0.5"
- 60°, 70°, 80°, 90°

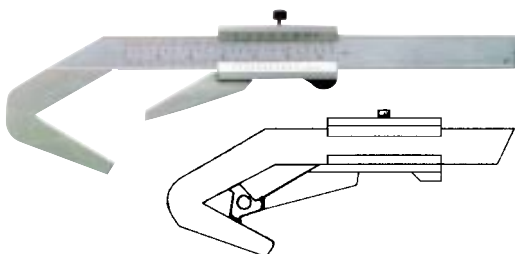
Spline Gages

Made of Stainless Steel

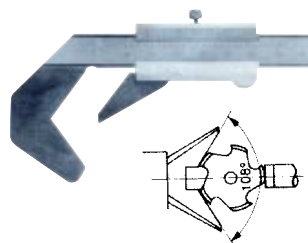


Range	Graduation	Model No.
5-80mm	0.05mm	102-9105
6-120mm	0.05mm	102-9106
7-160mm	0.05mm	102-9107
8-200mm	0.05mm	102-9108

V-Measuring Face Vernier Caliper



60° Three Flute



108° Five Flute

60° Three Flute

Range	Graduation	Model No.
5-40mm	.05mm	102-2040
20-75mm	.05mm	102-2075

108° Five Flute

Range	Graduation	Model No.
1-40mm	.05mm	102-2140

Vernier Caliper

SPECIALTY VERNIER CALIPERS



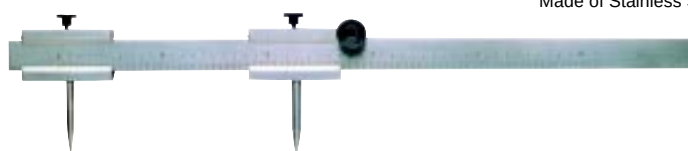
T- Type Marking Vernier Caliper

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



Marking Vernier Caliper

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



Steel Marking Gages with Double Needles

Made of Stainless Steel

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



Steel Marking Gages

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

Range	Model No.
200mm	102-5200
250mm	102-5250
300mm	102-5300

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



Steel Marking Gages with Round Rod

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



Steel Marking Gages with Round Rod & Fine Adjustment

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



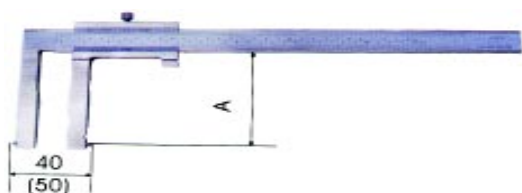
Steel Marking Gages Compass

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

Vernier Caliper

SPECIALTY VERNIER CALIPERS

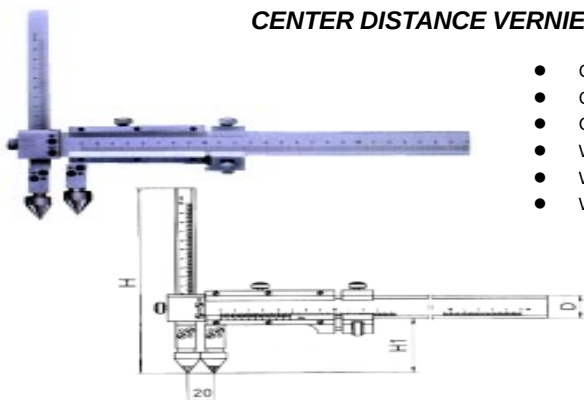
Brake-Block Vernier Caliper



- Used to measure brake-block or similar products.

Range	Graduation	Carbon Model No.	Stainless Model No.
40-340mm	.02mm	102-0100	102-0200
50-550mm	.02mm	102-0101	102-0201

CENTER DISTANCE VERNIER CALIPERS WITH AWL ANVILS



- Center distance between two holes can be easily obtained by moving slider .
- Center distance between two step holes can be obtained too.
- Can be used to measure the diameter of big hole.
- With external measurement.
- With step measurement.
- With carbide tipped awl anvils for scribing

Range	Graduation	H(mm)	H1(mm)	D(mm)	Model No.
20-150mm	.02mm	180	50	16	102-0400
20-200mm	.02mm	180	50	16	102-0402
20-300mm	.02mm	180	50	17	102-0406
20-500mm	.02mm	216.5	61.5	25	102-0408
20-1000mm	.02mm	400	70	32	102-0410
20-2000mm	.02mm	625	108	48	102-0412

Knife-point inside groove vernier caliper



- Facilitate measurement of a diameter of a narrow groove in a hole through thinner jaws
- Made of stainless steel

Range	Graduation	Stainless Model No.
15-125mm	.02mm	102-0600
18-150mm	.02mm	102-0601

Gear tooth vernier caliper



- Facilitate measurement of gear thickness
- Made of stainless steel

Range	Graduation	Stainless Model No.
m1-25	.02mm	102-0605

DIAL CALIPERS



6" TIN COATED DIAL CALIPER

Model No. 101-0002
0.001 Graduation
0.100 per revolution

Inch White Face

Range	Graduations	0-100 Revolution Carbon Steel Model No.	0-100 Revolution Stainless Steel Model No.	0-100-0 Revolution Carbon Steel Model No.	0-100-0 Revolution Stainless Steel Model No.
0-4"	.001"	10W-C004	10W-S004	20W-C004	20W-S004
0-6"	.001"	10W-C006	10W-S006	20W-C006	20W-S006
0-8"	.001"	10W-C008	10W-S008	20W-C008	20W-S008
0-12"	.001"	10W-C012	10W-S012	20W-C012	20W-S012
0-6"/150mm	.001"/.01mm	10W-C106	10W-S106	20W-C106	20W-S106
0-8"/200mm	.001"/.01mm	10W-C108	10W-S108	20W-C108	20W-S108

Dial Caliper



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"	.001"	10B-C004	10B-S004	20B-C004	20B-S004
0-6"	.001"	10B-C006	10B-S006	20B-C006	20B-S006
0-8"	.001"	10B-C008	10B-S008	20B-C008	20B-S008
0-12"	.001"	10B-C012	10B-S012	20B-C012	20B-S012
0-6"/150mm	.001"/.01mm	10B-C106	10B-S106	20B-C106	20B-S106
0-8"/200mm	.001"/.01mm	10B-C108	10B-S108	20B-C108	20B-S108



Metric White Face

Range	.01mm Model No.	.02mm Model No.	.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	.01mm Model No.	.02mm Model No.	.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"	.001"	102-0006
0-8"	.001"	102-0008
0-12"	.001"	102-0012

Metric		
Range	.01mm Model No.	.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	.001"/.02mm	10W-1506
0-8"/0-200mm	.001"/.02mm	10W-2008
0-12"/0-300mm	.001"/.02mm	10W-3012

Inside Groove dial caliper

Stainless Steel



- Facilitate measurement of a diameter of a narrow groove in a hole
- Reading clear and visual
- The adjustable dial face can be fastened by a clamping screw

Range	Graduation	Range/rev	Model No.
25-150mm	0.02mm	0.02mm	102-0610
20-200mm	0.02mm	0.02mm	102-0612
25-200mm	0.02mm	0.02mm	102-0614

Dial Caliper

Point dial caliper

Stainless Steel

- The narrow tip jaws fit into very small grooves and tracks, making many previously difficult outside measurement far easier to obtain
- Slider displacements are amplified by a rack and pinion mechanism and indicated on the dial
- An adjustable dial face can be fastened by a clamping screw



Range	Graduation	Range/rev	Model No.
0-150mm	0.02mm	2mm	102-0620
0-200mm	0.02mm	2mm	102-0622
0-300mm	0.02mm	2mm	102-0624

Offset dial caliper

Stainless Steel

- Main scale jaw can be slid up and down to facilitate measurement of stepped sections
- Slider displacements are amplified by a rack and pinion mechanism and indicated on the dial
- With an adjustable dial face which can be fastened by a clamping screw



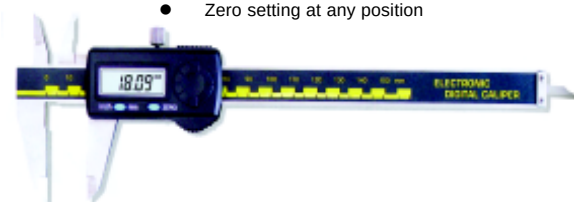
Range	Graduation	Range/rev	Model No.
0-150mm	0.02mm	2mm	102-0630
0-200mm	0.02mm	2mm	102-0632

DIGITAL CALIPERS

Two-Key Auto ON/OFF

- Two keys
- Four-way measurements.
- Without thumb wheel for range 75mm and 100mm
- Auto power off
- Zero setting at any position

- Metric/Inch system conversion at any position
- With data output interface



Range	Graduation	Without Roller Model No.
150mm/6"	.01mm/.0005"	101-4906
200mm/8"	.01mm/.0005"	101-4908
300mm/12"	.01mm/.0005"	101-4912

Auto ON/OFF

- Without thumb wheel for range 75mm and 100mm
- Auto power off
- Zero setting at any position

- Four-way measurements.
- Metric/Inch system conversion at any position
- With data output interface



Range	Graduation	With Roller Model No.	Without Roller Model No.	Large LCD Model No.
75mm/3"	.01mm/.0005"	101-0075	101-0077	101-0079
150mm/6"	.01mm/.0005"	101-0150	101-0153	101-0152
200mm/8"	.01mm/.0005"	101-0200	101-0203	101-0202
300mm/12"	.01mm/.0005"	101-0300	101-0303	101-0302

- Carbide tipped measuring faces
- Four-way measurement
- Manual power on/off
- Metric/Inch system conversion at any position

With Carbide Tipped Measuring Faces

- With data output interface



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

Digital Caliper

DIGITAL CALIPERS



3-Key Type

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

Range	Jaw Length	Open vernier Model No.	Close Vernier Model No.
75mm/3"	30mm	101-3503	101-3603
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
300mm/12"	90mm	101-3513	101-3613

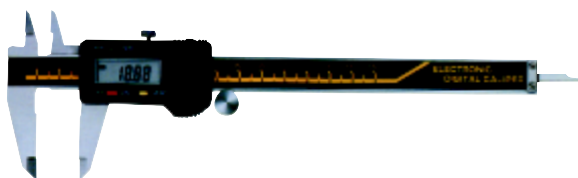
With Fine Adjustment



Range	Graduation	Jaw Length	Open Vernier Model No.	Close Vernier Model No.
150mm/6"	.01mm/.0005"	40mm	101-3206	101-3306
200mm/8"	.01mm/.0005"	50mm	101-3208	101-3308
300mm/12"	.01mm/.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"	.01mm/.0005"	101-3906
200mm/8"	.01mm/.0005"	101-3908
300mm/12"	.01mm/.0005"	101-3912

With Round Depth Bar

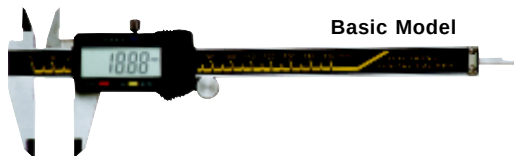


Range	Graduation	Jaw Length	Open Vernier Model No.	Close Vernier Model No.
150mm/6"	.01mm/.0005"	40mm	101-2806	101-2906
200mm/8"	.01mm/.0005"	50mm	101-2808	101-2908
300mm/12"	.01mm/.0005"	60mm	101-2812	101-2912

Auto Lock Model



Basic Model



Extra Large LCD

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

ABS Key Type

- Auto power off
- Zero setting at any position
- Units conversion
- Absolute and incremental measurement mode switching
- Data output



Range	Graduation	Model No.
150mm/6"	.01mm/.0005"	101-5006
200mm/8"	.01mm/.0005"	101-5008
300mm/12"	.01mm/.0005"	101-5012

Digital Caliper

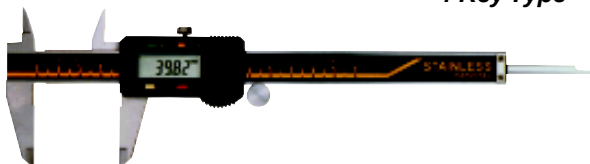
Rhombus Type Slider



- Four-way measurements
- Power on/off
- Zero setting at any position
- Units conversion
- With data output interface

Range	Graduation	Model No.
150mm/6"	.01mm/.0005"	101-5106
200mm/8"	.01mm/.0005"	101-5108
300mm/12"	.01mm/.0005"	101-5112

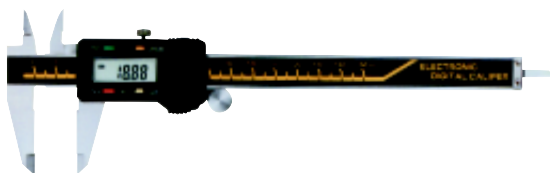
4-Key Type



TOL-KEY TYPE

- Four-way measurements
- Absolute measurement and comparison measurement conversion at any position
- Zero setting at any position
- Metric/Inch system conversion at any position
- With data output interface

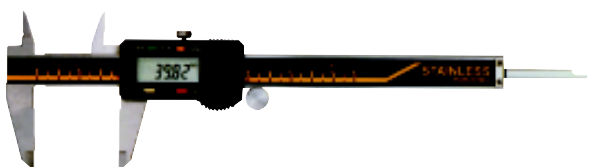
Jaw		
Range	Length	Model No.
150mm/6"	40mm	101-4506
200mm/8"	50mm	101-4508
300mm/12"	60mm	101-4512



ABS-KEY TYPE

- Four-way measurements
- Absolute measurement and comparison measurement conversion at any position
- Manual power on/off
- Zero setting at any position
- Metric/Inch system conversion at any position
- With data output interface

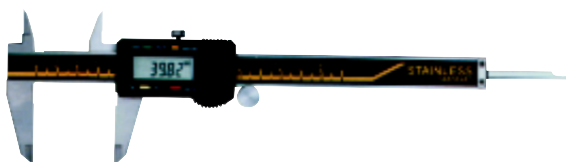
Jaw		
Range	Length	Model No.
150mm/6"	40mm	101-4706
200mm/8"	50mm	101-4708
300mm/12"	60mm	101-4712



HOLD-KEY TYPE

- Four-way measurements
- Data hold function
- Manual power on/off
- Zero setting at any position
- Metric/Inch system conversion at any position
- With data output interface

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



MODE-KEY TYPE

- Four-way measurements
- Fast tracing of maximum or minimum value during measurement
- Data hold function
- Manual power on/off
- Zero setting at any position
- Metric/Inch system conversion at any position
- With data output interface

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

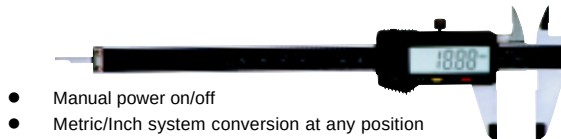
4-Key Type



- Data hold function
- Manual power on/off
- Zero setting at any position
- Metric/Inch system conversion at any position
- With data output interface
- Speedy display model (During which data can be hold)
- Fast tracking MAX/MIN value during measurement
- Tolerance setting and OK(GO) or +/- discrimination
- Absolute and incremental measurement mode switching

Range	Graduation	Model No.
150mm/6"	.01mm/.0005"	101-5116
200mm/8"	.01mm/.0005"	101-5118
300mm/12"	.01mm/.0005"	101-5122

Left Hand Type



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

Range	Graduation	Jaw Length	Model No.
150mm/6"	.01mm/.0005"	40mm	101-3520
200mm/8"	.01mm/.0005"	50mm	101-3537
300mm/12"	.01mm/.0005"	60mm	101-3538

Digital Caliper



Pointed Jaw Type

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

- The narrow tip jaws fit into very small grooves or tracks, making many previously difficult outside measurements easier to obtain.
- Without thumb wheel for range 75mm and 100mm.

Range	Graduation	Jaw Length	Model No.
75mm/3"	.01mm/.0005"	30mm	101-3975
100mm/4"	.01mm/.0005"	30mm	101-4100
150mm/6"	.01mm/.0005"	40mm	101-4150
200mm/8"	.01mm/.0005"	50mm	101-4200
300mm/12"	.01mm/.0005"	60mm	101-4300



Solar Carbon Fiber Composite

This digital caliper has double power. When light brightness is over 200 LUX, the battery cell CR2016 won't work and the solar board will supply power. When light brightness is under 200 LUX, the solar board won't work and the battery cell CR2016 will supply power.

- Large LCD display for easy reading.
- Zero setting at any position.
- Metric/inch system conversion at any position.
- Power: CR2016 3V battery.

Range	Resolution	Accuracy	Model No.
0~150mm/6"	0.1mm/0.01"	±0.2mm	101-0003

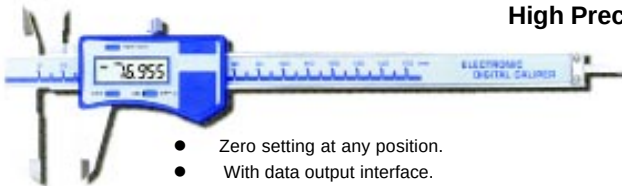


Metal Casing

- Manual power on/off
- Metric/Inch system conversion at any position

- Zero setting at any position.
- With data output interface.
- Absolute and incremental measurement mode switching

Range	Graduation	Model No.
150mm/6"	.01mm/.0005"	101-3566
200mm/8"	.01mm/.0005"	101-3568
300mm/12"	.01mm/.0005"	101-3572



High Precision Type

- Zero setting at any position.
- With data output interface.
- Absolute and incremental measurement mode switching
- Resolution: 0.005mm

- Manual power on/off
- Metric/Inch system conversion at any position

Range	Graduation	Permissible Error	Model No.
150mm/6"	0.005mm	+/-0.020mm	101-4006
200mm/8"	0.005mm	+/-0.025mm	101-4008
300mm/12"	0.005mm	+/-0.035mm	101-4012



Vernier- Digital Type

- With both vernier reading and digital reading

Range	Graduation	Permissible Error	Model No.
150mm/6"	.01mm/.0005"	+/-0.03mm	101-4916
200mm/8"	.01mm/.0005"	+/-0.03mm	101-4918
300mm/12"	.01mm/.0005"	+/-0.03mm	101-4922



101-140X

Splash-Proof Digital Caliper

IP54 Level

- With on/off button and data output interface
- Metric/Inch system conversion at any position
- Zero setting at any position.
- It can work when cleaning the splashed water on it. The degree of protection is IP54



101-150X

Range	Graduation	Model No.
150mm/6"	.01mm/.0005"	101-140A
200mm/8"	.01mm/.0005"	101-140B
150mm/6"	.01mm/.0005"	101-150A
200mm/8"	.01mm/.0005"	101-150B

Digital Caliper

Water Proof Digital Caliper

IP54 Level



Fractional system

- **DIN862, IP54 water proof.**
- **With durable and premium metal display housing.**
- Large LCD display for easy reading.
- Zero setting at any position.
- Metric/inch system conversion at any position.
- Power: 3V CR2032 battery.
- Fractional system: 1/32", 1/64", 1/128", 1/256" is available.

Range	Resolution	Model No.
0~150mm/6"	0.01mm/0.0005"	101-3701
0~150mm/6"	0.01mm/0.0005"/ 1/32"	101-3702
0~150mm/6"	0.01mm/0.0005"/ 1/64"	101-3703
0~150mm/6"	0.01mm/0.0005"/ 1/128"	101-3704
0~150mm/6"	0.01mm/0.0005"/ 1/256"	101-3705
0~200mm/8"	0.01mm/0.0005"	101-3706
0~200mm/8"	0.01mm/0.0005"/ 1/32"	101-3707
0~200mm/8"	0.01mm/0.0005"/ 1/64"	101-3708
0~200mm/8"	0.01mm/0.0005"/ 1/128"	101-3709
0~200mm/8"	0.01mm/0.0005"/ 1/256"	101-3710
0~300mm/12"	0.01mm/0.0005"	101-3711
0~300mm/12"	0.01mm/0.0005"/ 1/32"	101-3712
0~300mm/12"	0.01mm/0.0005"/ 1/64"	101-3713
0~300mm/12"	0.01mm/0.0005"/ 1/128"	101-3714
0~300mm/12"	0.01mm/0.0005"/ 1/256"	101-3715

IP65 Level



- Conform to IP65 Level and can be used in cutting liquid conditions

Range	Graduation	Permissible Error	Model No.
150mm/6"	0.01mm	+/-0.03mm	101-4106

IP67 Level



- New patented conductive sensor and measuring syst.
- Conform to IP67 and can be used in cutting liquid conditions
- 10G-X is Metal Casing style

Range	Graduation	Model No.
150mm/6"	.01mm/.0005"	101-1800
200mm/8"	.01mm/.0005"	101-1801
150mm/6"	.01mm/.0005"	10G-1800
200mm/8"	.01mm/.0005"	10G-1801



- **DIN862, IP67 water proof.**
- One button: ABS/INC mode and mm/IN mode; Power on, zero setting, inch and mm conversion.
- Manual power off or auto power off.
- Battery: CR2032 3V

Range	Resolution	Model No.
0~150mm/6"	0.01mm/0.0005"	101-3801
0~200mm/8"	0.01mm/0.0005"	101-3802
0~300mm/12"	0.01mm/0.0005"	101-3803

Full Screen Digital Caliper



Fractional system

- **DIN862.**
- **Full screen** = Super large LCD display for easy reading.
- Display when move, auto power off.
- Zero setting at any position.
- Metric/inch system conversion at any position.
- Power: 1.5V battery.
- Fractional system: 1/32", 1/64", 1/128", 1/256" is available.

Range	Resolution	Model No.
0~150mm/6"	0.01mm/0.0005"	101-5401
0~150mm/6"	0.01mm/0.0005"/ 1/32"	101-5402
0~150mm/6"	0.01mm/0.0005"/ 1/64"	101-5403
0~150mm/6"	0.01mm/0.0005"/ 1/128"	101-5404
0~150mm/6"	0.01mm/0.0005"/ 1/256"	101-5405
0~200mm/8"	0.01mm/0.0005"	101-5406
0~200mm/8"	0.01mm/0.0005"/ 1/32"	101-5407
0~200mm/8"	0.01mm/0.0005"/ 1/64"	101-5408
0~200mm/8"	0.01mm/0.0005"/ 1/128"	101-5409
0~200mm/8"	0.01mm/0.0005"/ 1/256"	101-5410
0~300mm/12"	0.01mm/0.0005"	101-5411
0~300mm/12"	0.01mm/0.0005"/ 1/32"	101-5412
0~300mm/12"	0.01mm/0.0005"/ 1/64"	101-5413
0~300mm/12"	0.01mm/0.0005"/ 1/128"	101-5414
0~300mm/12"	0.01mm/0.0005"/ 1/256"	101-5415

Digital Caliper

Color LCD Digital Electronic Caliper

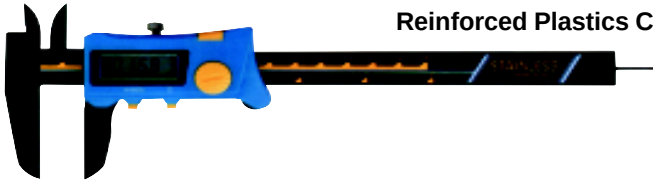


- Patented extra large color LCD display
- Resolution: 0.0005"/0.01mm
- Made of stainless steel and hardened
- True inch/mm conversion

- On/off button
- Zero reset
- Tol function
- Power supply: 3V CR2025 battery

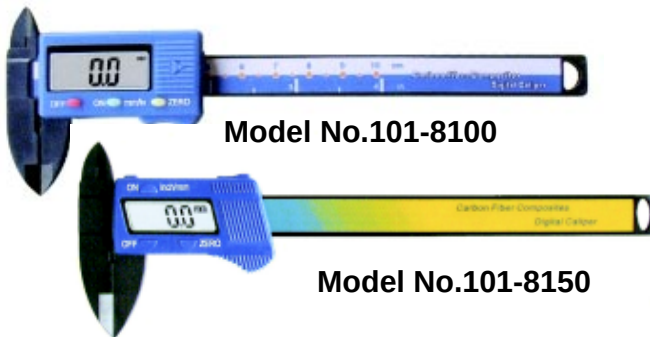
		Model No.
150mm/6"	0.02mm/0.001"	101-6205
200mm/8"	0.02mm/0.001"	101-6210
300mm/12"	0.02mm/0.001"	101-6215

Digital Carbon Fiber Reinforced Plastics Caliper



- Light weight and will not scratch any workpieces
- Automatic power on/off
- Units conversion
- Zero-setting at any position

Range	Graduation	Model No.
150mm/6"	.1mm/.005"	101-7015



Model No.101-8100

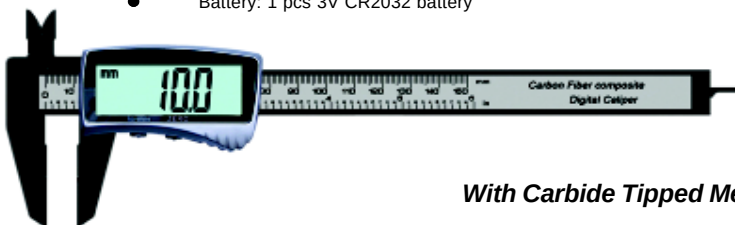
Model No.101-8150

- Made of extra strong carbon fiber composites, light weight and durable to use
- Wide ly range of usage: a teaching tool, familial tool, a tool of carpenter, in the laboratory, in the breeding farm, etc
- Unique switch design, flexible and efficiency

Range	Graduation	Model No.
0-100/4"mm	0.1mm/0.005"	101-8100
0-150/6"mm	0.1mm/0.005"	101-8150

Digital Carbon Fiber Composite Caliper

- Lightweight Carbon Fiber Composite Material
- Can be used in schools, laboratories, carpentry, farms and DIY at home
- Can be used to measure magnetic objects Free of hurting when measuring
- Zero setting at any position Metric/inch system conversion at any position
- Fractional system is available
- Battery: 1 pcs 3V CR2032 battery



Range	Resolution	Model No.
0~150mm/6"	0.1mm/0.01"	101-5901
0~150mm/6"	0.01mm/0.0005"/ 1/32"	101-5902
0~150mm/6"	0.01mm/0.0005"/ 1/64"	101-5903
0~150mm/6"	0.01mm/0.0005"/ 1/128"	101-5904
0~150mm/6"	0.01mm/0.0005"/ 1/256"	101-5905

With Carbide Tipped Measuring Faces

- Carbide tipped measuring faces
- With data presetting function
- Absolute measurement and comparison measurement conversion at any position
- Metric/Inch system conversion at any position



	100mm	125mm	150mm	200mm	300mm
Range	Jaw Length	Jaw Length	Jaw Length	Jaw Length	Jaw Length
500/20"	101-0400		101-0700	101-0800	
600/24"	101-0401		101-0701	101-0801	
1000/40"		101-0602	101-0702	101-0802	
1500/60"		101-0603	101-0703	101-0803	
2000/80"			101-0704	101-0804	101-0904
2500/100"			101-0705	101-0805	101-0905
3000/120"			101-0706	101-0806	101-0906

Digital Caliper

Digital Brake Drum Gauges

- Metric/Inch system conversion at any position
- Four-way measurement
- Manual power in/off



- Zero setting at any position
- With data output interface
- To measure the wear dimension of the automobile brake drum

Range	Graduation	Basic Model No.
300mm/12"	.01mm/.0005"	101-2030
500mm/20"	.01mm/.0005"	101-2050



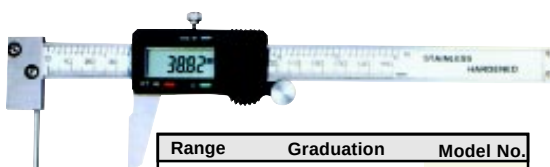
- Metric/Inch system conversion at any position.
- With data output interface.

Jaw Offset Type

- The main scale jaw can be slid up and down to facilitate measurement of stepped sections
- Zero setting at any position.

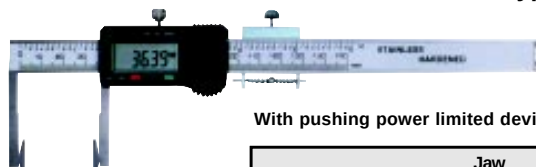
Range	Graduation	Jaw Size	Model No.
150mm/6"	.01mm/.0005"	40x110mm	101-5150
200mm/8"	.01mm/.0005"	50x120mm	101-5200
300mm/12"	.01mm/.0005"	60x130mm	101-5300
500mm/20"	.01mm/.0005"	100x210mm	101-5500

Tube Type



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

Plate Anvil Type



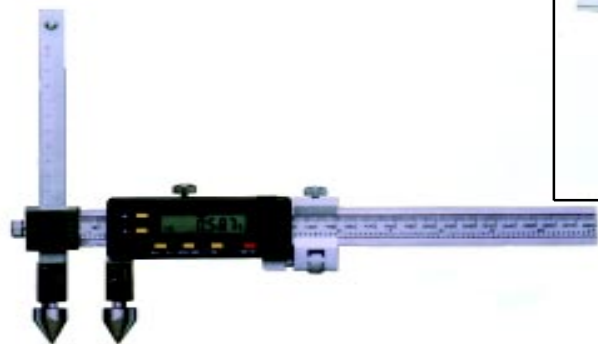
With pushing power limited device.

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

Range	Graduation	Jaw Length	Plate Dia.	Model No.
50mm/2"	.01mm/.0005"	100mm	20mm	101-4406
80mm/3.2"	.01mm/.0005"	150mm	30mm	101-4408
100mm/4"	.01mm/.0005"	200mm	50mm	101-4412

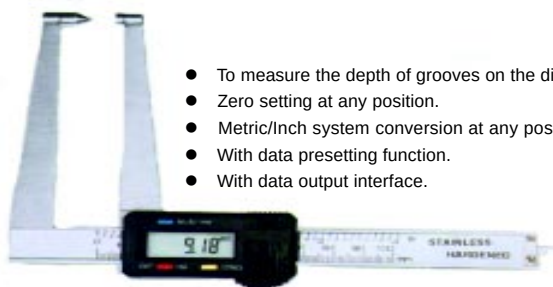
Center Distance Digital calipers with awl anvils

- LCD display for easy reading.
- Zero setting at any position.
- Metric/Inch system conversion at any position.
- With data presetting function.
- With data output interface.
- Absolute measurement and comparison measurement conversion at any position.



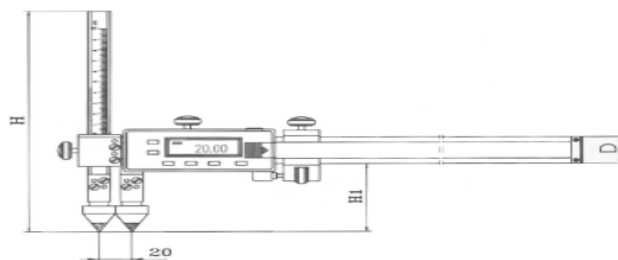
Range	Graduation	H(mm)	H1(mm)	D(mm)	Model No.
20-500mm	.01mm/.0005"	216.5	61.5	25	102-0500
20-1000mm	.01mm/.0005"	400	70	32	102-0501
20-2000mm	.01mm/.0005"	625	108	48	102-0502

Disc Brake Digital Caliper



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

Range	Graduation	Model No.
75mm/3"	.01mm/.0005"	102-2201
100mm/4"	.01mm/.0005"	102-2202
150mm/6"	.01mm/.0005"	102-2203



Digital Caliper

Digital Thickness Caliper



- Facilitate measurement of thickness of a workpiece which is hard to reach for regular measuring instruments
- Inch/mm conversion (.01mm/.0005")
- Zero setting at any position
- With data output interface

Range	Graduation	Jaw Length	Model No.
0-50mm/2"	.01mm/.0005"	50mm	101-5202
0-50mm/2"	.01mm/.0005"	80mm	101-5204
0-50mm/2"	.01mm/.0005"	100mm	101-5206
0-50mm/2"	.01mm/.0005"	150mm	101-5208
0-50mm/2"	.01mm/.0005"	200mm	101-5210
0-80mm/3.2"	.01mm/.0005"	50mm	101-5212
0-80mm/3.2"	.01mm/.0005"	80mm	101-5214
0-80mm/3.2"	.01mm/.0005"	100mm	101-5216
0-80mm/3.2"	.01mm/.0005"	150mm	101-5218
0-80mm/3.2"	.01mm/.0005"	200mm	101-5220

Digital Universal Groove Caliper



- Power on/off
- Inch/mm conversion (.01mm/.0005")
- Zero setting at any position
- With data output interface

- Groove width can be obtained by moving the slider
- Distance between two edges of an internal groove can also be obtained

Range	Graduation	Model No.
0-125mm/5"	.01mm/.0005"	101-5302
0-150mm/6"	.01mm/.0005"	101-5304
0-200mm/8"	.01mm/.0005"	101-5306
0-300mm/12"	.01mm/.0005"	101-5308

- Easy to clamp
- The jaws have round measuring faces for accurate inside measurement
- Power on/off

Digital Caliper With Thumb Roller(Lower Jaw Type)



- Inch/mm conversion (.01mm/.0005")
- Zero setting at any position
- With data output interface

- Groove width can be obtained by moving the slider
- Distance between two edges of an internal groove can also be obtained

Range	Graduation	Model No.
0-100mm/4"	.01mm/.0005"	101-5404



Digital Gear Tooth Caliper

- Facilitate measurement of gear thickness
- Inch/mm conversion (.01mm/.0005")
- Zero setting at any position
- With data output interface

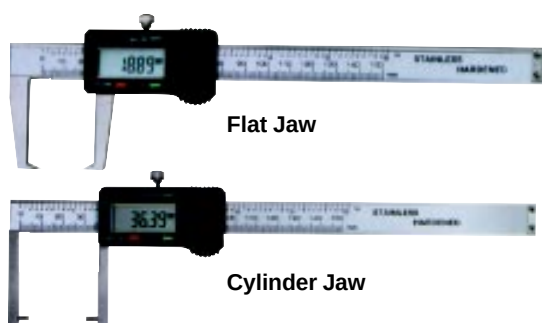
Range	Graduation	Model No.
m1-25	.01mm/.0005"	101-5502
m5-50	.01mm/.0005"	101-5505

Arc Outside Type



Range	Graduation	Model No.
R3-150mm	.01mm/.0005"	101-5700

Digital Caliper



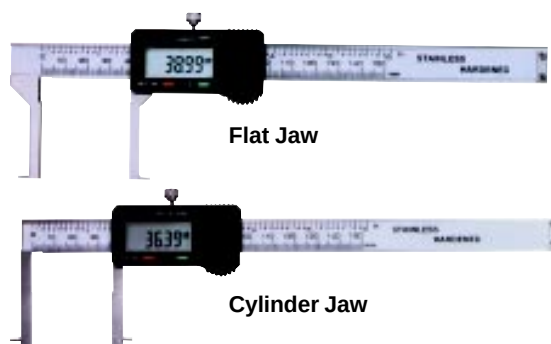
Flat Jaw

Cylinder Jaw

Outside Groove Type

- Specially designed for measuring outside groove which is hard to reach
- Inch/mm conversion (.01mm/.0005")
- Zero setting at any position
- With data output interface

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



Flat Jaw

Cylinder Jaw

Inside Groove Type

- Specially designed for measuring inside groove which is hard to reach
- Inch/mm conversion (.01mm/.0005")
- Zero setting at any position
- With data output interface

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

Inside Groove Type with Small Point Jaws

- Manual power on/off.
- Inch/mm conversion (.01mm/.0005").
- Zero setting at any position.
- To measure the width of inside grooves



Range	Graduation	Model No.
125mm/12"	.01mm/.0005"	101-2705
150mm/6"	.01mm/.0005"	101-2706
200mm/8"	.01mm/.0005"	101-2708
300mm/12"	.01mm/.0005"	101-2712

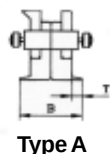
Center Distance Type, with Awl Anvils



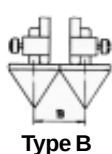
Easy measurement solution of hole center to hole center
Diameter of holes are between 1mm and 10mm

Range	Graduation	Model No.
5mm/0.2"-150mm/6"	.01mm/.0005"	101-1705
5mm/0.2"-200mm/8"	.01mm/.0005"	101-1706
5mm/0.2"-300mm/12"	.01mm/.0005"	101-1708

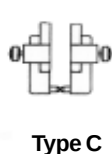
Inside & Outside Combined Digital Calipers



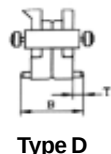
Type A



Type B



Type C



Type D

- Manual power on/off.
- Inch/mm conversion (.01mm/.0005").
- Zero setting at any position.
- With data output interface
- With interchangeable anvils

Range	Graduation	Model No.
150mm/6"	.01mm/.0005"	101-2406
200mm/8"	.01mm/.0005"	101-2408
300mm/12"	.01mm/.0005"	101-2412

Digital Caliper

DIGITAL CALIPERS

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 (.01mm/.0005").
- Manual power on/off.
- Zero setting at any position.
- SPC out put.

100-300 mm Jaw

Range	100mm Jaw Length Model No.	150mm Jaw Length Model No.	200mm Jaw Length Model No.	300mm Jaw Length 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

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

Heavy Duty Type

With Fine Adjustment

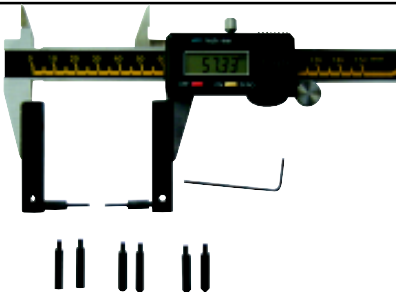


- Manual power on/off.
- Inch/mm conversion (.01mm/.0005").
- Zero setting at any position.
- Data hold function.
- Fast tracing of maximum or minimum value.
- SPC out put.

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

CALIPER ACCESSORY KIT

Model No.101-0020



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

Digital Scale Units



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	.375"	2.195"	.155"	101-0008
For 10",12" calipers	.500"	2.750"	.188"	101-0012

DIGITAL SCALE UNITS

Horizontal or Vertical Type(Type I)



Vertical



Horizontal



Horizontal
Over 500mm/20"

- Made of stainless steel.
- Graduation: .01mm/.0005"
- Each specification of Vertical Scale has Predetermination Function. Horizontal Scale Units, Over 500mm/20" range, have Predetermination Function.

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

Horizontal or Vertical Type (Type II)



Vertical



Horizontal

Range	Horizontal Reading Model No.	Vertical Reading Model No.
100mm/4"	100-8010	100-0810
150mm/6"	100-8015	100-0815
200mm/8"	100-8020	100-0820
300mm/12"	100-8030	100-0830
400mm/16"	100-8040	100-0840
450mm/18"	100-8045	100-0845

Range	Horizontal Reading Model No.	Vertical Reading Model No.
500mm/20"	100-8050	100-0850
600mm/24"	100-8060	100-0860
750mm/30"	100-8075	100-0875
800mm/32"	100-8080	100-0880
1000mm/40"	100-8100	100-0900
1500mm/60"	100-8150	100-0950
2000mm/80"	100-8200	100-0920

DIGITAL SCALE UNIT READOUT



- Zero key and On/Off key
- Its display features ABS and INC mode as a hold key
- Both displays read independently of each other.
- 1.5m data cable
- Support one or two scale

Digital scale unit not include

The readout only fit Type II scale Unit

One input Model No. 100-0911

Two input Model No. 100-0912

Depth Gage

DIGITAL DEPTH GAGE



With Hook



Without Hook

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

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"	.01/.0005"	100mm	110-2150	110-0150	110-3150	110-1150
0-200mm /8"	.01/.0005"	100mm	110-2200	110-0200	110-3200	110-1200
0-300mm /12"	.01/.0005"	100mm	110-2300	110-0300	110-3300	110-1300
0-500mm /20"	.01/.0005"	120mm	110-2500	110-0500	110-3500	110-1500
0-150mm /6"	.01/.0005"	150mm	110-2151	110-0151	110-3151	110-1151
0-200mm /8"	.01/.0005"	150mm	110-2201	110-0201	110-3201	110-1201
0-300mm /12"	.01/.0005"	150mm	110-2301	110-0301	110-3301	110-1301
0-500mm /20"	.01/.0005"	150mm	110-2501	110-0501	110-3501	110-1501
0-500mm /20"	.01/.0005"	200mm	110-2502	110-0502	110-3502	110-1502

DIGITAL TREAD DEPTH GAUGES



FEATURES

- Made of carbon fiber composite material.
- Large LCD for easy reading.
- ON/OFF switch.
- Metric/inch conversion.
- Zero setting.
- Power: CR2032 3V battery.
- Optional: Denominator unchanged.

Range	Resolution	Accuracy	Model No.
0~25mm	0.01mm/0.0005"	±0.2mm	112-1900
0~25mm	0.01mm/0.0005"/ 1/32"	±0.2mm	112-1901
0~25mm	0.01mm/0.0005"/ 1/64"	±0.2mm	112-1902
0~25mm	0.01mm/0.0005"/ 1/128"	±0.2mm	112-1903
0~25mm	0.01mm/0.0005"/ 1/256"	±0.2mm	112-1904

CARBON FIBER COMPOSITE DIGITAL DEPTH GAUGES



- Made of carbon fiber composite material.
- Spindle made of stainless steel.
- Zero setting at any position.
- Metric/inch system conversion.
- Power: CR2032 3V battery.

Range	Resolution	Bridge length	Measuring pin	Accuracy	Model No.
0~25.4mm/1"	0.01mm/0.0005"	60	φ2	±0.1mm	112-1700

DIGITAL DEPTH GAUGES



- Indicator range: 0-25.4mm/1"
- On/off switch; Zero setting at any position; Metric/inch system conversion.
- With data output.
- Interchangeable rods can be inspecting depths 0~300mm.
- Power: 1.5V battery.

Range	Resolution	Bridge length	Accuracy	Model No.
0~25.4mm/1"	0.001mm/.00005"	63mm	±0.009mm	112-1800
0~150mm/6"	0.01mm/.0005"	100mm	±0.03mm	112-1801
0-300mm/12"	0.01mm/.0005"	100mm	±0.04mm	112-1802

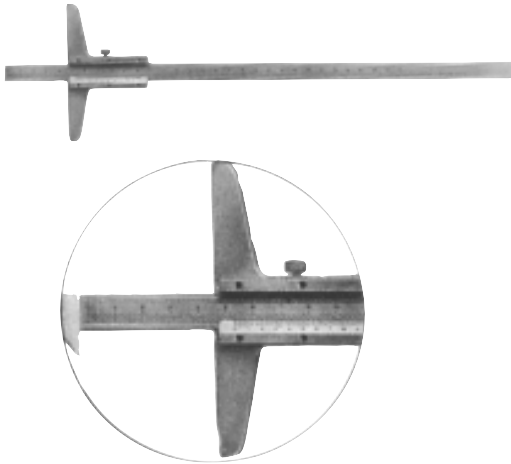


Measure				
Range	Resolution	Range	Base Size	Model No.
0-10mm	0.01mm	0-230mm	16x50 16x50	605-6710

Depth Gauge

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"	.001"	3"	111-0060	112-0060		
0-8"	.001"	4"	111-0084	112-0084	111-1084	112-1084
0-12"	.001"	4"	111-0124	112-0124	111-1124	112-1124
0-20"	.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	.001"/.02mm	4"	111-0620	112-0620	111-1620	112-1620
0-12"/300mm	.001"/.02mm	4"	111-0621	112-0621	111-1621	112-1621

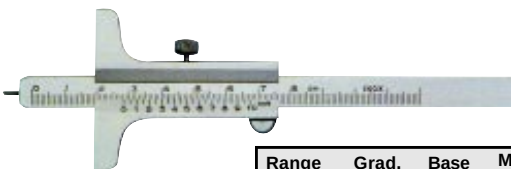
Metric Only			Without Hook		With Hook	
Range	Grad.	Base	Carbon Steel Model No.	Stainless Steel Model No.	Carbon Steel Model No.	Stainless Steel Model No.
0-150mm	.02mm	80mm	111-0152	112-0152		
0-200mm	.02mm	100mm	111-0202	112-0202	111-1202	112-1202
0-300mm	.02mm	100mm	111-0302	112-0302	111-1302	112-1302
0-500mm	.02mm	100mm	111-0502	112-0502	111-1502	112-1502
0-150mm	.05mm	80mm	111-0155	112-0155		
0-200mm	.05mm	100mm	111-0205	112-0205	111-1205	112-1205
0-300mm	.05mm	100mm	111-0305	112-0305	111-1305	112-1305
0-500mm	.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	.02mm	80mm	111-2152	112-2152
0-200mm	.02mm	100mm	111-2202	112-2202
0-300mm	.02mm	100mm	111-2302	112-2302
0-300mm	.02mm	150mm		112-2303
0-400mm	.02mm	100mm	111-2402	112-2402
0-400mm	.02mm	150mm		112-2403
0-500mm	.02mm	100mm	111-2502	112-2502
0-500mm	.02mm	150mm		112-2503
0-150mm	.05mm	80mm	111-2155	112-2155
0-200mm	.05mm	100mm	111-2205	112-2205
0-300mm	.05mm	100mm	111-2305	112-2305
0-300mm	.05mm	150mm		112-2306
0-400mm	.05mm	100mm	111-2405	112-2405
0-400mm	.05mm	150mm		112-2406
0-500mm	.05mm	100mm	111-2505	112-2505
0-500mm	.05mm	150mm		112-2506

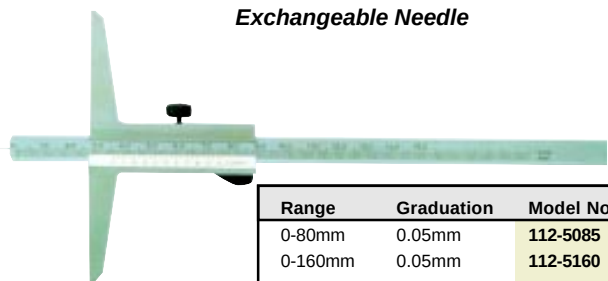
Small Measuring Point



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

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

Exchangeable Needle



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

Two End Using & Large Base

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



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

Height Gage

PRECISION VERNIER HEIGHT GAGES



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

Metric Only		
Range	.02mm Model No.	.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: .02mm/.001".
- Include: Straight steel scriber.
Offset steel scriber.
Square holding bar.
Magnifying glass.

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

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

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"	.001"	621-7506	621-7606
0-8"	.001"	621-7508	621-7608
0-12"	.001"	621-7512	621-7612
0-150mm	.01mm	621-7115	621-7215
0-200mm	.01mm	621-7120	621-7220
0-300mm	.01mm	621-7130	621-7230
0-150mm	.02mm	621-7315	621-7415
0-200mm	.02mm	621-7320	621-7420
0-300mm	.02mm	621-7330	621-7430
150mm/6"	.02mm/.001"	621-7806	621-7906
200mm/8"	.02mm/.001"	621-7808	621-7908
300mm/12"	.02mm/.001"	621-7812	621-7912

ELECTRONIC DIGITAL DOUBLE BEAM HEIGHT GAGES

- Made of stainless steel.

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



ELECTRONIC DIGITAL HEIGHT GAGES

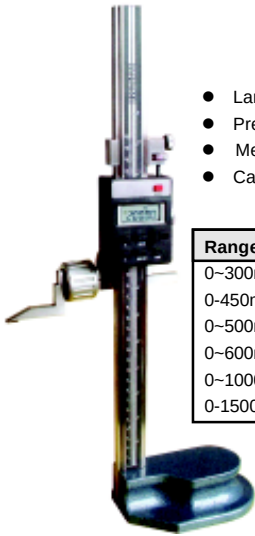
- Switchable Inch/Metric high contrast LCD with fine adjustment device and carbide tipped scriber.
- Made of hardened steel, precision ground and micro-lapped base. Has 2000 hours battery life.
- Two standard 1.5 Volt batteries.

Ranged	Graduation	Model No.
0-12"/0-300mm	.01mm/.0005"	621-8390
0-24"/0-600mm	.01mm/.0005"	621-8394
0-20"/0-500mm	.01mm/.0005"	621-8395
0-40"/0-1000mm	.01mm/.0005"	621-8396



Height Gauge

DIGITAL HEIGHT GAUGES



- Large display screen
- Preset memorizing function
- Metric/inch system conversion at any position.
- Cast iron base

Range	Resolution	Accuracy	Model No.
0~300mm/12"	0.01mm/0.0005"	±0.04mm	621-7813
0-450mm/18"	0.01mm/0.0005"	±0.05mm	621-7814
0~500mm/20"	0.01mm/0.0005"	±0.05mm	621-7815
0~600mm/24"	0.01mm/0.0005"	±0.05mm	621-7816
0~1000mm/40"	0.01mm/0.0005"	±0.07mm	621-7817
0-1500mm/60"	0.01mm/0.0005"	±0.07mm	621-7818



- Carbide tipped scriber.
- With fine adjustment.
- Large LCD display for easy reading.
- With data presetting function.
- With data output.

Range	Resolution	Accuracy	Model No.
0~200mm/8"	0.01mm/0.0005"	±0.03mm	621-6101
0~300mm/12"	0.01mm/0.0005"	±0.04mm	621-6102
0~500mm/20"	0.01mm/0.0005"	±0.05mm	621-6103
0~600mm/24"	0.01mm/0.0005"	±0.07mm	621-6104
0~1000mm/40"	0.01mm/0.0005"	±0.07mm	621-6105

DOUBLE BEAM DIGITAL COUNTER HEIGHT GAGES



- .001" graduation, .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"	.001"	621-8412
0-18"	.001"	621-8418
0-20"	.001"	621-8420
0-24"	.001"	621-8424
0-300mm	.01mm	621-8530
0-450mm	.01mm	621-8545
0-500mm	.01mm	621-8550
0-600mm	.01mm	621-8560

2-AXIS VERNIER HEIGHT GAUGES

- The vertical scale can set zero at any position for comparison measurements
- With scriber for height measurement and scribbling.
- Indicators or Dial Test Indicators can be fixed on for comparison measurement.
- With magnifier for easy reading.
- Provided with a feed wheel for easy coarse feeding.



Vertical Range (mm)	Horizontal Range (mm)	Grad. (mm)	Model No.
100-500	0-200	0.02	621-6201
100-600	0-300	0.02	621-6202
100-1000	0-300	0.02	621-6203

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 indicator0.03x.0005"(625-8550&4070)	625-8555
9" & 12" Spindles	625-8560
Surface gage 9&12" with Test indicator0.03x.0005"(625-8560&4070)	625-8565
12" & 18" Spindles	625-8570
Surface gage 12&18" with Test indicator0.03x.0005"(625-8570&4070)	625-8575



THREE BEAM DIGITAL COUNTER HEIGHT GAGES

- Made of stainless steel.

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

Micrometer

SLIM OUTSIDE MICROMETERS



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 Model No.	Chrome-plated Model No.
0-25mm	.001mm	600-5025	601-5025
25-50mm	.001mm	600-5050	601-5050
50-75mm	.001mm	600-5075	601-5075
75-100mm	.001mm	600-5100	601-5100
0-25mm	.01mm	600-4025	601-4025
25-50mm	.01mm	600-4050	601-4050
50-75mm	.01mm	600-4075	601-4075
75-100mm	.01mm	600-4100	601-4100
100-125mm	.01mm	600-4125	601-4125
125-150mm	.01mm	600-4150	601-4150
150-175mm	.01mm	600-4175	601-4175
175-200mm	.01mm	600-4200	601-4200
200-225mm	.01mm	600-4225	
225-250mm	.01mm	600-4250	
250-275mm	.01mm	600-4275	
275-300mm	.01mm	600-4300	

Inch

Range	Painted			Chrome -Plated		
	.001" Model No.	.0001" Model No.	.00005" Model No.	.001" Model No.	.0001" Model No.	.00005" Model No.
0-1"	600-0001	600-0111	600-0051	601-0001	601-0111	601-0051
1-2"	600-0002	600-0112	600-0052	601-0002	601-0112	601-0052
2-3"	600-0003	600-0113	600-0053	601-0003	601-0113	601-0053
3-4"	600-0004	600-0114	600-0054	601-0004	601-0114	601-0054
4-5"	600-0005	600-0115		601-0005	601-0115	
5-6"	600-0006	600-0116		601-0006	601-0116	
6-7"	600-0007	600-0117		601-0007	601-0117	
7-8"	600-0008	600-0118		601-0008	601-0118	
8-9"	600-0009	600-0119				
9-10"	600-0010	600-0210				
10-11"	600-0011	600-0211				
11-12"	600-0012	600-0212				



SLIM OUTSIDE MICROMETER SETS

Features:

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

Metric

Range	Grad.	Description	Painted Model No.	Chrome-plated Model No.
0-75mm	.01mm	3PCs/SET	600-1023	601-1023
0-100mm	.01mm	4PCs/SET	600-1024	601-1024
0-150mm	.01mm	6PCs/SET	600-1026	601-1026
150-300mm	.01mm	6PCs/SET	600-1029	
0-300mm	.01mm	12PCs/SET	600-1212	

Inch

Range	Description	Painted		Chrome -Plated	
		.001" Model No.	.0001" Model No.	.001" Model No.	.0001" Model No.
0-3"	3PCs/SET	600-1003	600-1013	601-1003	601-1013
0-4"	4PCs/SET	600-1004	600-1014	601-1004	601-1014
0-6"	6PCs/SET	600-1006	600-1016	601-1006	601-1016
6-12"	6PCs/SET	600-1009	600-1019		
0-12"	12PCs/SET	600-1012	600-1122		



- 6V0-Painted 6V1-Chrome Plated.

SETS

With Horizontal Packing

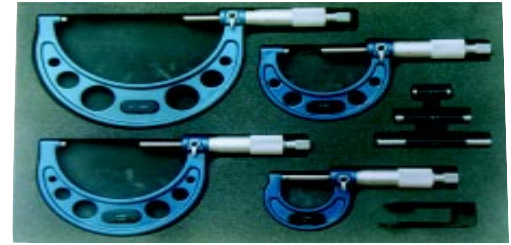
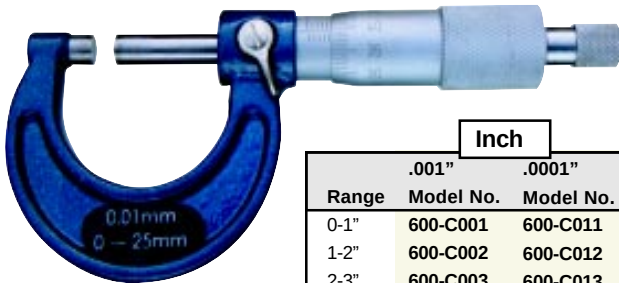
SLIM OUTSIDE MICROMETER

Range	Gradua-	Description	Model No.	Model No.
Inch				
0-3"	.001"	3PCs/set	600-H003	601-H003
0-4"	.001"	4PCs/set	600-H004	601-H004
0-3"	.0001"	3PCs/set	600-H013	601-H013
0-4"	.0001"	4PCs/set	600-H014	601-H014
Metric				
0-75mm	.01mm	3PCs/set	600-H023	601-H023
0-100mm	.01mm	4PCs/set	600-H024	601-H024

Micrometer

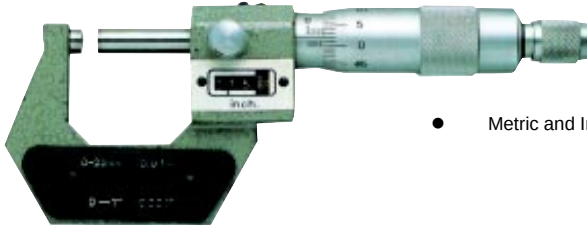
C-TYPE OUTSIDE MICROMETER

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



Inch			Metric		Sets			
Range	.001" Model No.	.0001" Model No.	Range	.01mm Model No.	Range	Grad.	Description	Model No.
0-1"	600-C001	600-C011	0-25mm	600-C025	0-75mm	.01mm	3Pcs/set	600-C303
1-2"	600-C002	600-C012	25-50mm	600-C050	0-100mm	.01mm	4Pcs/set	600-C304
2-3"	600-C003	600-C013	50-75mm	600-C070	0-150mm	.01mm	6Pcs/set	600-C306
3-4"	600-C004	600-C014	75-100mm	600-C100	0-3"	.0001"	3Pcs/set	600-C403
4-5"	600-C005	600-C015	100-125mm	600-C125	0-4"	.0001"	4Pcs/set	600-C404
5-6"	600-C006	600-C016	125-150mm	600-C150	0-6"	.0001"	6Pcs/set	600-C406

INCH & METRIC DIGITAL OUTSIDE MICROMETERS



- Metric and Inch Graduation.

Range	Graduation	Model No.
0-25mm/0-1"	.01mm/.001"	600-3061

I-DIGITAL OUTSIDE MICROMETER SETS



Inch			Metric	
Range	Desc.	.0001" Model No.	Range	Desc.
0- 3"	3-pc set		0-75mm	3-pc set
0-4"	4-pc set	603-3214	0-100mm	4-pc set
0-6"	6-pc set	603-3216	0-150mm	6-pc set
6-12"	6-pc set	603-3217	150-300mm	6-pc set
0-12"	12-pc set	603-3218	0-300mm	12-pc set

DIGITAL OUTSIDE MICROMETERS

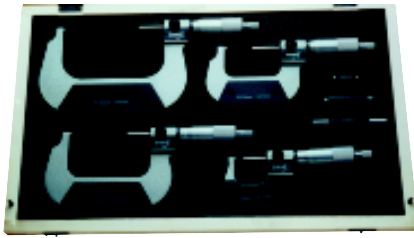


- Ratchet stop(friction thimble or ratchet friction thimble available).
- Carbide measuring face.
- Positive locking unit.
- Clear graduations on satin chrome finished thimble.
- Spanner wrench furnished with each micrometer.

Inch				Metric		
Range	.001" Model No.	.0001" Model No.	.00005" Model No.	Range	.01mm Model No.	.001mm Model No.
0-1"	600-3001	600-3011	601-9201	0-25mm	600-3025	601-9225
1-2"	600-3002	600-3012	601-9202	25-50mm	600-3050	601-9250
2-3"	600-3003	600-3013	601-9203	50-75mm	600-3075	601-9275
3-4"	600-3004	600-3014	601-9204	75-100mm	600-3100	601-9300
4-5"	600-3005	600-3015		100-125mm	600-3125	
5-6"	600-3006	600-3016		125-150mm	600-3150	
6-7"	600-3007	600-3017		150-175mm	600-3175	
7-8"	600-3008	600-3018		175-200mm	600-3200	
8-9"	600-3009	600-3019		200-225mm	600-3225	
9-10"	600-3010	600-3020		225-250mm	600-3250	
10-11"	600-3111	600-3021		250-275mm	600-3270	
11-12"	600-3112	600-3022		275-300mm	600-3272	

Micrometer

DIGITAL OUTSIDE MICROMETER SETS



Inch				Metric			
		Wooden Case		Plastic Case		Wooden Case	
		.001"		.0001"		.01mm	
Range	Desc.	Model No.	Model No.	Model No.		Model No.	Model No.
0-3"	3-pc set	600-3203		600-3213		600-3275	
0-4"	4-pc set	600-3204		600-3214		600-3300	
0-6"	6-pc set	600-3206	600-3216			600-3350	
6-12"	6-pc set	600-3207	600-3217			600-3355	
0-12"	12-pc set	600-3208	600-3218			600-3360	

OUTSIDE MICROMETERS(FOR LEFT AND RIGHT HAND)



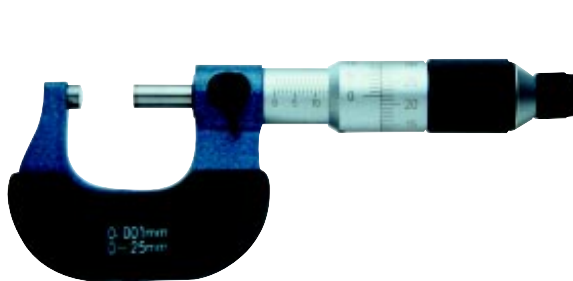
Feature:

- Two group graduations for right and left hand using.
- Carbide measuring faces. Chrome-plated frame.
- Resolution: 0.01mm(Metric); 0.0001"(Inch)

Range	Accuracy	Model No.
0-25mm	0.004mm	604-0131
25-50mm	0.004mm	604-0132
50-75mm	0.005mm	604-0133
75-100mm	0.005mm	604-0134
100-125mm	0.006mm	604-0135
125-150mm	0.006mm	604-0136
150-175mm	0.007mm	604-0137
175-200mm	0.007mm	604-0138

Range	Accuracy	Model No.
0-1"	0.004mm	604-0141
1-2"	0.004mm	604-0142
2-3"	0.005mm	604-0143
3-4"	0.005mm	604-0144
4-5"	0.006mm	604-0145
5-6"	0.006mm	604-0146
6-7"	0.007mm	604-0147
7-8"	0.007mm	604-0148

PARALLAX FREE OUTSIDE MICROMETERS



- No-parallax venire scale.
- Ratchet friction thimble.

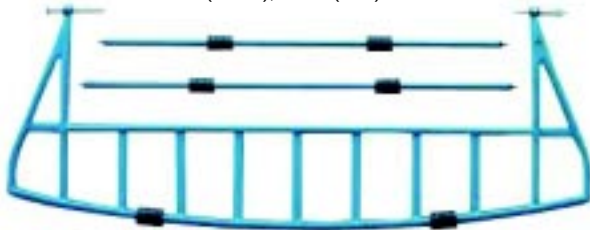
Inch		Chrome-Plated	
		Painted .0001"	Chrome-Plated .00005"
Range	Model No.	Model No.	Model No.
0-1"	600-9141	601-9141	601-9101
1-2"	600-9142	601-9142	601-9112
2-3"	600-9143	601-9143	601-9123
3-4"	600-9144	601-9144	
4-5"	600-9145	601-9145	
5-6"	600-9146	601-9146	
6-7"	600-9147	601-9147	
7-8"	600-9148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

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

Feature:

- Similar to caliper in outside measurement.
- Caliper-type pipe combined frame for light weight and high rigidity.
- Wide measuring range with adjustable anvil. High accuracy standard collars enable that reading does not have to be reset when changing collars.
- Travel of micrometer head: 50mm/2"; Micrometer thread pitch: 1mm/0.025"; Throat depth: 350mm/14".
- Standard collars: 50mm/2", 100mm/4".
- Carbide measuring faces. Ratchet stop.
- Resolution: 0.01mm(Metric); 0.001"(Inch).

MICROMETERS WITH ADJUSTABLE ANVIL (CALIPER TYPE)



Range	Accuracy	Model No.
1000-1200mm	0.020mm	604-0150
1200-1400mm	0.024mm	604-0151
1400-1600mm	0.028mm	604-0152
1600-1800mm	0.031mm	604-0153
1800-2000mm	0.034mm	604-0154
2000-2200mm	0.040mm	604-0155
2200-2400mm	0.044mm	604-0156
2400-2600mm	0.048mm	604-0157
2600-2800mm	0.052mm	604-0158
2800-3000mm	0.056mm	604-0159

Range	Accuracy	Model No.
40-48"	0.020mm	604-0160
48-56"	0.024mm	604-0161
56-64"	0.028mm	604-0162
64-72"	0.031mm	604-0163
72-80"	0.034mm	604-0164
80-88"	0.040mm	604-0165
88-96"	0.044mm	604-0166
96-104"	0.048mm	604-0167
104-112"	0.052mm	604-0168
112-120"	0.056mm	604-0169

Micrometer

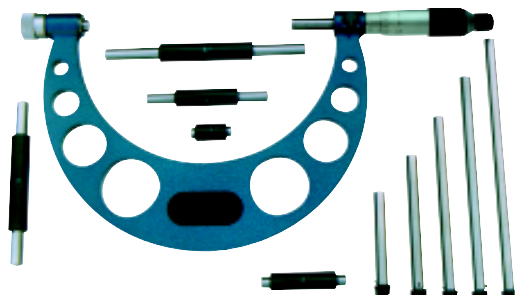
INTERCHANGEABLE ANVIL OUTSIDE MICROMETERS

Basic Model

Features:

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

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



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"	.001"	600-9412
2-4"	.001"	600-9417
2-6"	.001"	600-9418
0-4"	.001"	600-9414
4-8"	.001"	600-9419
0-6"	.001"	600-9416
6-12"	.001"	600-9300
8-12"	.001"	600-9410

Metric		
Range	Grad.	Model No.
0-50mm	.01mm	600-9403
50-100mm	.01mm	600-9405
50-150mm	.01mm	600-9409
0-150mm	.01mm	600-9406
150-300mm	.01mm	600-9000
0-100mm	.01mm	600-9404
100-200mm	.01mm	600-9407
200-300mm	.01mm	600-9408
200-250mm	.01mm	600-9021
250-300mm	.01mm	600-9022

Digital Electronic Interchangeable Anvil Micrometer

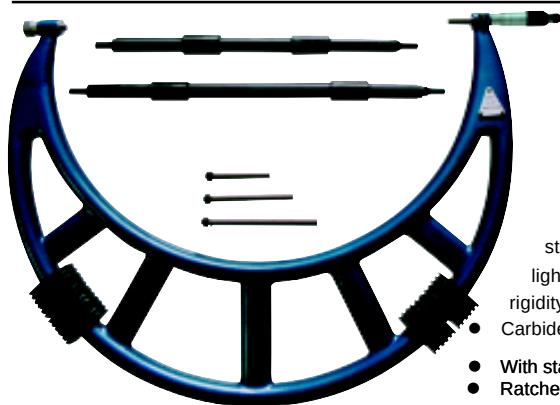
Same Features as Basic Model:



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

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

Over 12"/300mm Long Range Model



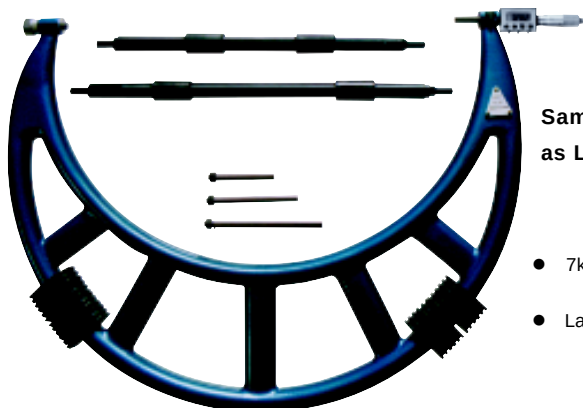
Features:

- 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"	.001"	600-9301
16-20"	.001"	600-9302
20-24"	.001"	600-9303
24-28"	.001"	600-9304
28-32"	.001"	600-9305
32-36"	.001"	600-9306
36-40"	.001"	600-9307

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

Digital Electronic Over 12"/300mm Long Range Model



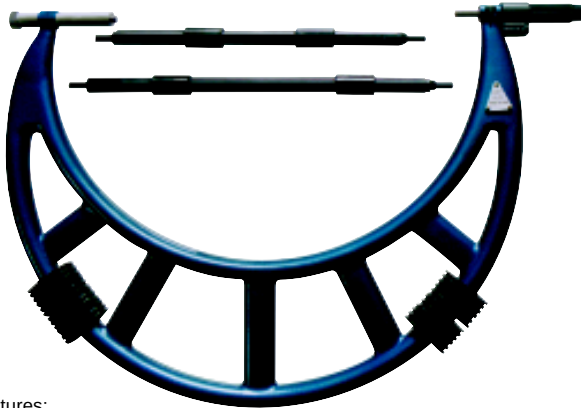
Same Features as Long Range Model:

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

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

Micrometer

OUTSIDE MICROMETER With Extension Anvil Collars



Features:

- Ratchet and lock nut
- Extension collars: 25mm/1", 50mm/2" (Within 1000mm/40")
- Carbide tipped
- Pipe combined frame for light weight and high rigid

Inch

Range	.0001" Model No.
12-16"	600-9901
16-20"	600-9902
20-24"	600-9903
24-28"	600-9904
28-32"	600-9905
32-36"	600-9906
36-40"	600-9907
40-48"	600-9908
48-56"	600-9909
56-64"	600-9910
64-72"	600-9911
72-80"	600-9912
80-88"	600-9913
88-96"	600-9914
96-104"	600-9915
104-112"	600-9916
112-120"	600-9917

Metric

Range	.01mm Model No.
300-400mm	600-9801
400-500mm	600-9802
500-600mm	600-9803
600-700mm	600-9804
700-800mm	600-9805
800-900mm	600-9806
900-1000mm	600-9807
1000-1200mm	600-9808
1200-1400mm	600-9809
1400-1600mm	600-9810
1600-1800mm	600-9811
1800-2000mm	600-9812
2000-2200mm	600-9813
2200-2400mm	600-9814
2400-2600mm	600-9815
2600-2800mm	600-9816
2800-3000mm	600-9817

DIGITAL ELECTRONIC OUTSIDE MICROMETER



Micrometers Sets

Range	Pieces	Model No.	Range	Pieces	Model No.
0-75mm	3	600-5501	0-3"	3	600-5801
0-100mm	4	600-5502	0-4"	4	600-5802
0-150mm	6	600-5503	0-6"	6	600-5803

Feature:

- Protection level IP54.
- Display data is origin data of absolute measurement after changing battery.
- Painted frame. Carbide measuring faces.
- Criterion: DIN863/1, DIN40050/IEC529.
- Resolution of digit:
0.001mm(Metric); 0.00005"(Inch).
- Resolution of micrometer heads:
0.01mm(Metric); 0.0001"(Inch).

Metric/inch conversion	11
Origin data set	11
Battery	SR44
Power consumption	≤35 mA
Auto power off	11

Range	Accuracy	Model No.
0-25mm	0.004mm	600-5301
25-50mm	0.004mm	600-5302
50-75mm	0.005mm	600-5303
75-100mm	0.005mm	600-5304
100-125mm	0.006mm	600-5305
125-150mm	0.006mm	600-5306
150-175mm	0.007mm	600-5307
175-200mm	0.007mm	600-5308
200-225mm	0.008mm	600-5309

Range	Accuracy	Model No.
0-1"	0.004mm	600-5401
1-2"	0.004mm	600-5402
2-3"	0.005mm	600-5403
3-4"	0.005mm	600-5404
4-5"	0.006mm	600-5405
5-6"	0.006mm	600-5406
6-7"	0.007mm	600-5407
7-8"	0.007mm	600-5408
8-9"	0.008mm	600-5409

Feature:

- Easy operation.
- Display data is origin data of absolute measurement after changing battery.
- Painted frame. Carbide measuring faces.
- Ratchet friction thimble.
- Criterion: DIN863/1, DIN40050/IEC529.
- Resolution: 0.001mm(Metric); 0.00005"(Inch).

1 key Model

Ratchet friction thimble

Power ON/OFF	11
Origin data set	11
Battery	SR44
Auto power off	11
Power consumption	≤35 mA

Micrometers Sets

Range	Pieces	Model No.	Range	Pieces	Model No.
0-75mm	3	600-6401	0-3"	3	600-6701
0-100mm	4	600-6402	0-4"	4	600-6702
0-150mm	6	600-6403	0-6"	6	600-6703



Range	Accuracy	Resolution	Model No.
0-25mm	0.004mm	0.001mm	600-6101
25-50mm	0.004mm	0.001mm	600-6102
50-75mm	0.005mm	0.001mm	600-6103
75-100mm	0.005mm	0.001mm	600-6104
100-125mm	0.006mm	0.001mm	600-6105
125-150mm	0.006mm	0.001mm	600-6106
150-175mm	0.007mm	0.001mm	600-6107
175-200mm	0.007mm	0.001mm	600-6108

Range	Accuracy	Resolution	Model No.
0-1"	0.004mm	0.001mm	600-6301
1-2"	0.004mm	0.001mm	600-6302
2-3"	0.005mm	0.001mm	600-6303
3-4"	0.005mm	0.001mm	600-6304
4-5"	0.006mm	0.001mm	600-6305
5-6"	0.006mm	0.001mm	600-6306
6-7"	0.007mm	0.001mm	600-6307
7-8"	0.007mm	0.001mm	600-6308

Micrometer

2 keys Model

Feature:

- Easy operation.
- Display data is origin data of absolute measurement after changing battery.
- Painted frame. Carbide measuring faces.
- Ratchet friction thimble.
- Criterion: DIN863/1, DIN40050/IEC529.
- Resolution: 0.001mm(Metric); 0.00005"(Inch).

Power ON/OFF	⏻ ⏻
Abs. and inc. conversion	⏻ ⏻
Metric/inch conversion	⏻ ⏻
Origin data set	⏻ ⏻
Battery	SR44
Auto power off	⏻ ⏻
Power consumption	≤35 μA



Micrometers Sets

Range	Pieces	Model No.	Range	Pieces	Model No.
0-75mm	3	600-7101	0-3"	3	600-8501
0-100mm	4	600-7102	0-4"	4	600-8502
0-150mm	6	600-7103	0-6"	6	500-8503



Range	Accuracy	Resolution	Model No.
0-25mm	0.004mm	0.001mm	600-6801
25-50mm	0.004mm	0.001mm	600-6802
50-75mm	0.005mm	0.001mm	600-6803
75-100mm	0.005mm	0.001mm	600-6804
100-125mm	0.006mm	0.001mm	600-6805
125-150mm	0.006mm	0.001mm	600-6806
150-175mm	0.007mm	0.001mm	600-6807
175-200mm	0.007mm	0.001mm	600-6808

Range	Accuracy	Resolution	Model No.
0-1"	0.004mm	0.001mm	600-6901
1-2"	0.004mm	0.001mm	600-6902
2-3"	0.005mm	0.001mm	600-6903
3-4"	0.005mm	0.001mm	600-6904
4-5"	0.006mm	0.001mm	600-6905
5-6"	0.006mm	0.001mm	600-6906
6-7"	0.007mm	0.001mm	600-6907
7-8"	0.007mm	0.001mm	600-6908

2 keys Model



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

Range	Graduation	Model No.
0-1"/0-25mm	.00005"/.001mm,	600-2600
1-2"/25-50mm	.00005"/.001mm,	600-2602
2-3"/50-75mm	.00005"/.001mm,	600-2603
3-4"/75-100mm	.00005"/.001mm,	600-2604



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

Range	Graduation	Model No.
0-1"/0-25mm	.00005"/.001mm,	600-2610
1-2"/25-50mm	.00005"/.001mm,	600-2612
2-3"/50-75mm	.00005"/.001mm,	600-2613
3-4"/75-100mm	.00005"/.001mm,	600-2614

7-KEY Model



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

Range	Graduation	Model No.
0-1"/0-25mm	.00005"/.001mm	600-8031
1-2"/25-50mm	.00005"/.001mm	600-8032
2-3"/50-75mm	.00005"/.001mm	600-8033
3-4"/75-100mm	.00005"/.001mm	600-8034

Micrometer

IP 54 Level

Water Resistant

2 keys Model



- Carbide tipped measuring faces. Origin shown when it's on.
- Protection grade IP54.
- Metric/inch system conversion at any position.
- With data output.
- With functions of absolute and relative measurement.
- With hold function.
- High rigid steel frame.

Range (mm/in)	Resolution (mm/in)	Accuracy (mm)	Model No.
0-25/ 0-1"	0.001/0.00005"	±0.002	600-3501
25-50/ 1-2"	0.001/0.00005"	±0.002	600-3502
50-75/ 2-3"	0.001/0.00005"	±0.003	600-3503
75-100/ 3-4"	0.001/0.00005"	±0.003	600-3504

IP 54 Level

2 keys Model



- Water Resistant
- .001mm/.00005" resolution.
- Automatic switch off.
- Carbide Faces, Friction Thimble, Spindle Lock.
- Large LCD.
- an ergonomic shape.

Range	Accuracy	Model No.
0-25mm/0-1"	.004mm	600-8101
25-50mm/1-2"	.004mm	600-8102
50-75mm/2-3"	.005mm	600-8103
75-100mm/3-4"	.005mm	600-8104
100-125mm/4-5"	.006mm	600-8105
125-150mm/5-6"	.006mm	600-8106
150-175mm/6-7"	.007mm	600-8107
175-200mm/7-8"	.007mm	600-8108
200-225mm/8-9"		600-8109
225-250mm/9-10"		600-8110
250-275mm/10-11"		600-8111
275-300mm/11-12"		600-8112

Painted frame

Ratchet friction thimble

Feature:

- Protection level IP54.
- Display data is origin data of absolute measurement after changing battery.
- Chrome-plated or painted frame.
- Carbide measuring faces.
- Criterion: DIN863/1, DIN40050/IEC529.
- Resolution: 0.001mm(Metric); 0.00005"(Inch).

IP 54 Level

2 keys Model



Power ON/OFF	⏻
Abs. and inc. conversion	↔
Metric/inch conversion	↔
Data output	⏻
Origin data set	⏻
Battery	SR44
Auto power off	⏻
Power consumption	<35 μA
RS232 output port	⏻
Connecting cable(Optional)	604-P1102

Range	Accuracy	Model No.	
		Chrome-plated frame	Painted frame
Ratchet friction thimble			
0-25mm	0.004mm	600-8501	600-8701
25-50mm	0.004mm	600-8502	600-8702
50-75mm	0.005mm	600-8503	600-8703
75-100mm	0.005mm	600-8504	600-8704
100-125mm	0.006mm	600-8505	600-8705
125-150mm	0.006mm	600-8506	600-8706
150-175mm	0.007mm	600-8507	600-8707
175-200mm	0.007mm	600-8508	600-8708

Range	Accuracy	Model No.	
		Chrome-plated frame	Painted frame
Ratchet friction thimble			
0-1"	0.004mm	600-9601	604-0001
1-2"	0.004mm	600-9602	604-0002
2-3"	0.005mm	600-9603	604-0003
3-4"	0.005mm	600-9604	604-0004
4-5"	0.006mm	600-9605	604-0005
5-6"	0.006mm	600-9606	604-0006
6-7"	0.007mm	600-9607	604-0007
7-8"	0.007mm	600-9608	604-0008

Micrometers Sets

Range	Pieces	Model	No.
		Chrome-plated frame	Painted frame
Ratchet friction thimble			
0-75mm	3	604-0011	604-0021
0-100mm	4	604-0012	604-0022
0-150mm	6	604-0013	604-0023

Range	Pieces	Model	No.
		Chrome-plated frame	Painted frame
Ratchet friction thimble			
0-3"	3	604-0031	604-0041
0-4"	4	604-0032	604-0042
0-6"	6	604-0033	604-0043



Micrometer

2 keys Model

IP 54 Level



Double Display

Fine Cast Frame

Fine cast frame/Ratchet friction thimble

Range	Accuracy	Model No.
0-30mm	0.004mm	604-0051
20-50mm	0.004mm	604-0052
45-75mm	0.005mm	604-0053
70-100mm	0.005mm	604-0054
95-125mm	0.006mm	604-0055
120-150mm	0.006mm	604-0056
145-175mm	0.007mm	604-0057
170-200mm	0.007mm	604-0058
195-225mm	0.008mm	604-0059
220-250mm	0.008mm	604-0060
245-275mm	0.009mm	604-0061
270-300mm	0.009mm	604-0062

Range	Accuracy	Model No.
0-1.2"	0.004mm	604-0071
0.8-2"	0.004mm	604-0072
1.8-3"	0.005mm	604-0073
2.8-4"	0.005mm	604-0074
3.8-5"	0.006mm	604-0075
4.8-6"	0.006mm	604-0076
5.8-7"	0.007mm	604-0077
6.8-8"	0.007mm	604-0078
7.8-9"	0.008mm	604-0079
8.8-10"	0.008mm	604-0080
9.8-11"	0.009mm	604-0081
10.8-12"	0.009mm	604-0082

4 keys Model

IP 54 Level



- With interchangeable anvils for wide range measurements.
- Micrometers need not be set zero again after precision anvils are interchanged.
- Zero setting at any position.
- With data output interface.
- Origin setting.

Range (mm/in)	Resolution (mm/in)	Accuracy (mm)	Model No.
0-25mm/ 0-1"	0.001/0.00005"	±0.002	600-3601
25-50mm/ 1-2"	0.001/0.00005"	±0.002	600-3602
50-75mm/ 2-3"	0.001/0.00005"	±0.003	600-3603
75-100mm/ 3-4"	0.001/0.00005"	±0.003	600-3604

5 keys Model

IP 54 Level



- 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(RS232).

Range	Graduation	Model No.
0-1"/0-25mm	.00005"/.001mm	600-8005
1-2"/25-50mm	.00005"/.001mm	600-8006
2-3"/50-75mm	.00005"/.001mm	600-8007
3-4"/75-100mm	.00005"/.001mm	600-8008
4-5"/100-125mm	.00005"/.001mm	600-8015
5-6"/125-150mm	.00005"/.001mm	600-8016
6-7"/150-175mm	.00005"/.001mm	600-8017
7-8"/175-200mm	.00005"/.001mm	600-8018
8-9"/200-225mm	.00005"/.001mm	600-8019
9-10"/225-250mm	.00005"/.001mm	600-8020
10-11"/250-275mm	.00005"/.001mm	600-8021
11-12"/275-300mm	.00005"/.001mm	600-8022

Micrometers Sets

Range	Pieces	Model No.
		Chrome-plated frame Painted frame
Double measuring forces		
0-75mm	3	600-8023 600-8027
0-100mm	4	600-8024 600-8028
0-150mm	6	600-8025 600-8029
0-200mm	8	600-8026 600-8030

Range	Pieces	Model No.
		Chrome-plated frame Painted frame
Ratchet friction thimble		
0-3"	3	600-8040 600-8044
0-4"	4	600-8041 600-8045
0-6"	6	600-8042 600-8046
0-8"	8	600-8043 600-8047

Micrometer

INDICATOR SNAP MICROMETERS



A Type

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

Range	Graduation	Model No.
Inch		
0-1"	.00005"	600-0501
1-2"	.00005"	600-0502
Metric		
0-25mm	.001mm	600-0511
25-50mm	.001mm	600-0512



B Type

- Retractable anvil with indicator for three-wire
- Measurements of pitch diameter of precision screws, roundness and parallelism measurement.
- Mainly for comparative measurement..
- Carbide tipped measuring faces.
- Supporting bar can be provided as per request.
- Equipped with a precision dial indicator for easier operation.
- With left and right pushing bars for choice.

Range of Micrometer head	Range of Indicator	Grad.		Accuracy		Model No.
		Micrometer head	Indicator	Indicator	Indercating Micrometer	
0-25mm	0.06mm	0.01mm	0.001mm	0.001mm	0.001mm	601-1501
0-25mm	0.04mm	0.01mm	0.001mm	0.001mm	0.001mm	601-1502
0-25mm	0.03mm	0.01mm	0.001mm	0.001mm	0.001mm	601-1503
25-50mm	0.06mm	0.01mm	0.001mm	0.001mm	0.001mm	601-1504
25-50mm	0.04mm	0.01mm	0.001mm	0.001mm	0.001mm	601-1505
25-50mm	0.03mm	0.01mm	0.001mm	0.001mm	0.001mm	601-1506
0-25mm	0.06mm	0.01mm	0.002mm	0.002mm	0.002mm	601-1507
25-50mm	0.06mm	0.01mm	0.002mm	0.002mm	0.002mm	601-1508
50-75mm	0.06mm	0.01mm	0.001mm	0.001mm	0.001mm	601-1509
50-75mm	0.04mm	0.01mm	0.001mm	0.001mm	0.001mm	601-1510
50-75mm	0.03mm	0.01mm	0.001mm	0.001mm	0.001mm	601-1511
75-100mm	0.06mm	0.01mm	0.001mm	0.001mm	0.001mm	601-1512
75-100mm	0.04mm	0.01mm	0.001mm	0.001mm	0.001mm	601-1513
75-100mm	0.03mm	0.01mm	0.001mm	0.001mm	0.001mm	601-1514
0-1"	0.0023"	0.001"	0.0001"	0.0001"	0.00015"	601-1515
1-2"	0.0023"	0.001"	0.0001"	0.0001"	0.00015"	601-1516
0-1"	0.0025"	0.001"	0.0001"	0.0001"	0.00015"	601-1517
1-2"	0.0025"	0.001"	0.00005"	0.00005"	0.00015"	601-1518



C Type

Range of micrometer head	Range of Indicator	Grad.		Indicating Micrometer	Model No.
		Micrometer head	Indicator		
0-25mm	0.07mm	0.01mm	0.001mm	0.001mm	601-1601
25-50mm	0.07mm	0.01mm	0.001mm	0.001mm	601-1602
50-75mm	0.07mm	0.01mm	0.001mm	0.001mm	601-1603
75-100mm	0.07mm	0.01mm	0.001mm	0.001mm	601-1604

D Type



Feature:

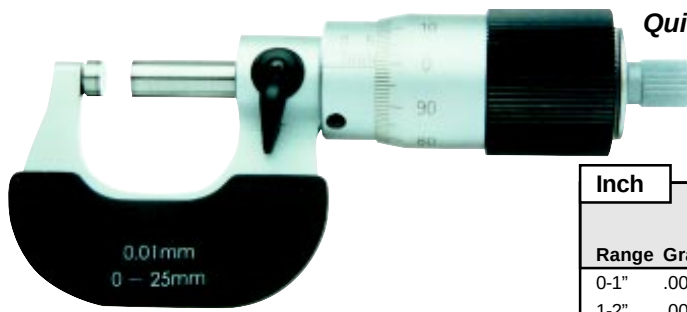
- Protection level IP54.
- Carbide measuring faces: ± 0.10 .
- Direct GO/NG judgment for mass-produced parts.
- Measuring-force: 5-10N.
- Painted frame.
- Indicator Range: 0.04mm(Metric); 0.0015"(Inch).
- Indicator resolution: 0.001mm / 0.0005".

Range	Accuracy	Model No.
0-25mm	0.001mm	604-0231
25-50mm	0.001mm	604-0232
50-75mm	0.001mm	604-0233
75-100mm	0.001mm	604-0234

Range	Accuracy	Model No.
0-1"	0.001mm	604-0241
1-2"	0.001mm	604-0242
2-3"	0.001mm	604-0243
3-4"	0.001mm	604-0244

Micrometer

SPECIALTY MICROMETER



Quick Feeding Outside Micrometers

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

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

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

Screw Thread Micrometers

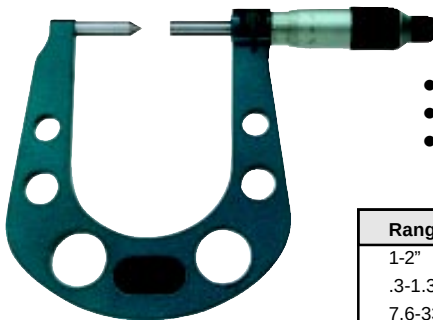


- Ratchet friction thimble (ratchet stop or friction thimble available).
- Laser engraved graduations.
- Enamel frame.

Inch		.001"	.0001"
Range	Model No.	Model No.	
0-1"	600-7801	600-7811	
1-2"	600-7802	600-7812	
2-3"	600-7803	600-7813	
3-4"	600-7804	600-7814	
4-5"	600-7805	600-7815	
5-6"	600-7806	600-7816	

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

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)

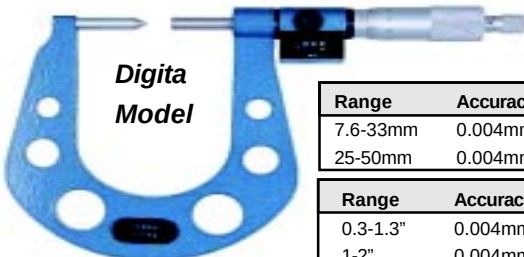
Range	Graduation	Model No.
1-2"	.0001"	600-7080
.3-1.3"	.0001"	600-7099
7.6-33mm	.01mm	600-7082
25-50mm	.01mm	600-7084

Feature:

- For measuring the depth of grooves on the disc of brake systems.
- Carbide measuring face with 60° point. Painted frame.
- Resolution: 0.01(Metric); 0.0001"(Inch).
- Counter readout: 0.01mm(Metric); 0.001"(Inch).

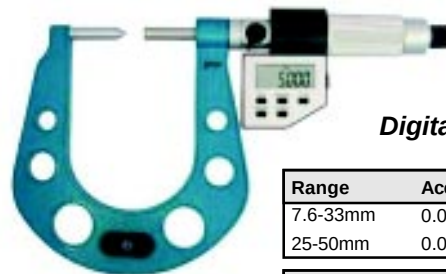
Feature:

- For measuring the depth of grooves on the disc of brake systems.
- Carbide measuring face with 60° point. Painted frame.
- Protection level IP54. Criterion: DIN40050/IEC529.



Range	Accuracy	Model No.
7.6-33mm	0.004mm	604-0411
25-50mm	0.004mm	604-0412

Range	Accuracy	Model No.
0.3-1.3"	0.004mm	604-0421
1-2"	0.004mm	604-0422



Digital Model

Range	Accuracy	Model No.
7.6-33mm	0.004mm	604-0391
25-50mm	0.004mm	604-0392

Range	Accuracy	Model No.
0.3-1.3"	0.004mm	604-0401
1-2"	0.004mm	604-0402

Micrometer

SPECIALTY MICROMETER

V-Anvil Micrometers

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



60 mm V-Anvil micrometer 3 flute

Inch		
	.001"	.0001"
Range	Model No.	Model No.
.04 to .6"	600-9111	600-9121
.2 to .8"	600-9112	600-9122
.8 to 1.4"	600-9113	600-9123
1.4 to 2"	600-9114	600-9124
2 to 2.6"	600-9115	600-9125
2.6 to 3.2"	600-9116	600-9126

Metric		
Range	Graduation	Model No.
1-15mm	.01mm	600-9101
5-20mm	.01mm	600-9102
20-35mm	.01mm	600-9103
35-50mm	.01mm	600-9104
50-65mm	.01mm	600-9105
65-80mm	.01mm	600-9106

108 mm V-Anvil micrometer 5 flute

Inch		
	.001"	.0001"
Range	Model No.	Model No.
.2 to 1"	600-9117	600-9127
1 to 1.8"	600-9118	600-9128
1.8 to 2.6"	600-9119	600-9129
2.6 to 3.4"	600-9120	600-9140

Metric		
Range	Graduation	Model No.
5-25mm	.01mm	600-9107
25-45mm	.01mm	600-9108
45-65mm	.01mm	600-9109
65-85mm	.01mm	600-9110

128 mm V-Anvil micrometer 7 flute

Inch		
	.001"	.0001"
Range	Model No.	Model No.
.2 to 1"	600-9150	600-9160
1 to 1.8"	600-9151	600-9161
1.8 to 2.6"	600-9152	600-9162
2.6 to 3.4"	600-9153	600-9163

Metric		
Range	Graduation	Model No.
5-25mm	.01mm	600-9170
25-45mm	.01mm	600-9171
45-65mm	.01mm	600-9172
65-85mm	.01mm	600-9173

Digital V-Anvil Micrometers

60 mm V-Anvil micrometer 3 flute

Range	Accuracy	Model No.
1-15mm	0.004mm	604-0591
5-20mm	0.004mm	604-0592
20-35mm	0.005mm	604-0593
35-50mm	0.005mm	604-0594
50-65mm	0.006mm	604-0595
65-80mm	0.006mm	604-0596
80-95mm	0.007mm	604-0597
2.3-25mm	0.004mm	604-0598
25-50mm	0.005mm	604-0599

Range	Accuracy	Model No.
0.04-0.6"	0.004mm	604-0601
0.2-0.8"	0.004mm	604-0602
0.8-1.4"	0.005mm	604-0603
1.4-2.0"	0.005mm	604-0604
2.0-2.6"	0.006mm	604-0605
2.6-3.2"	0.006mm	604-0606
3.2-3.8"	0.007mm	604-0607
0.09-1"	0.004mm	604-0608
1-2"	0.005mm	604-0609

Double measuring forces
(Ratchet stop and Ratchet friction thimble)

Feature:

- Measuring diameter of cylinder with an odd number flutes, such as taps, reamers, end mills.
- Carbide measuring faces.
- Protection level IP54. Criterion: DIN40050/IEC529.
- Painted frame.



108 mm V-Anvil micrometer 5 flute

Range	Accuracy	Model No.
5-25mm	0.004mm	604-0611
25-45mm	0.005mm	604-0612
45-65mm	0.006mm	604-0613
65-85mm	0.007mm	604-0614
85-105mm	0.008mm	604-0615

Range	Accuracy	Model No.
0.2-1.0"	0.004mm	604-0621
1.0-1.8"	0.005mm	604-0622
1.8-2.6"	0.006mm	604-0623
2.6-3.4"	0.007mm	604-0624
3.4-4.2"	0.008mm	604-0625

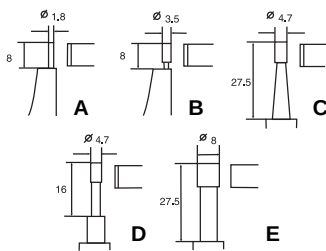
128 mm V-Anvil micrometer 7 flute

Range	Accuracy	Model No.
5-25mm	0.004mm	604-0631
25-45mm	0.005mm	604-0632
45-65mm	0.006mm	604-0633
65-85mm	0.007mm	604-0634

Range	Accuracy	Model No.
0.2-1.0"	0.004mm	604-0641
1.0-1.8"	0.005mm	604-0642
1.8-2.6"	0.006mm	604-0643
2.6-3.4"	0.007mm	604-0644

Micrometer

SPECIALTY MICROMETER



Tubing Type Micrometers

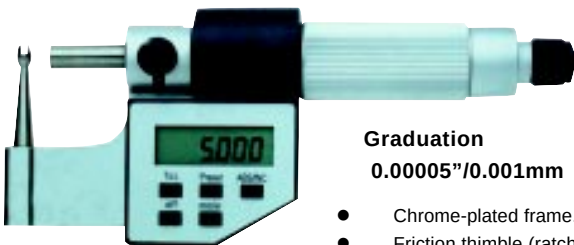
- Ratchet stop (friction thimble or ratchet friction thimble available).
- Carbide-tipped spindle.

- Different diameter on cylindrical.
- Laser engraved graduations.
- Enamel frame.

Inch			
Range	Dia. on cylindrical	.001" Grad. Model No.	.0001 Grad. Model No.
0-1"	.07"Dia. A	600-7632	600-7626
1-2"	.07"Dia. A	600-7635	600-7629
0-1"	.14"Dia. B	600-7633	600-7627
1-2"	.14"Dia. B	600-7636	600-7630
0-1"	.19"Dia. C	600-7634	600-7628
1-2"	.19"Dia. C	600-7637	600-7631
0-1"	.19"Dia. D	600-7640	600-7650
1-2"	.19"Dia. D	600-7641	600-7651
0-1"	.31"Dia. E	600-7642	600-7652
1-2"	.31"Dia. E	600-7643	600-7653

Metric			
Range	Dia. on cylindrical	.01mm Grad. Model No.	.001mm Grad. Model No.
0-25mm	1.8mm Dia. A	600-6220	
25-50mm	1.8mm Dia. A	600-6223	
0-25mm	3.5mm Dia. B	600-7621	
25-50mm	3.5mm Dia. B	600-7624	
0-25mm	4.7mm Dia. C	600-7622	
25-50mm	4.7mm Dia. C	600-7625	
0-25mm	4.7mm Dia. D	600-7664	
25-50mm	4.7mm Dia. D	600-7665	
0-25mm	8mm Dia. E	600-7666	
25-50mm	8mm Dia. E	600-7667	

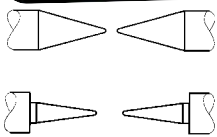
Digital Electronic Tubing Type Micrometers



Graduation
0.00005"/0.001mm

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

Range	Dia. On Cylindrical	Model No.
0-1"/0-25mm	.07"/1.8mm A	600-7690
1-2"/25-50mm	.07"/1.8mm A	600-7691
0-1"/0-25mm	.14"/3.5mm B	600-7692
1-2"/25-50mm	.14"/3.5mm B	600-7693
0-1"/0-25mm	.19"/4.7mm C	600-7694
1-2"/25-50mm	.19"/4.7mm C	600-7695
0-1"/0-25mm	.19"/4.7mm D	600-7696
1-2"/25-50mm	.19"/4.7mm D	600-7697
0-1"/0-25mm	.31"/8mm E	600-7698
1-2"/25-50mm	.31"/8mm E	600-7699



A: 30° point
SR0.3mm tip

D: 15° point
SR0.3mm tip

Point Micrometers

- Designed to measure the small recess of an electrical wire connector.
- Enamel frame.
- Positive lever locking clamp.

Inch			
Range	.001"	.0001"	
	30° Point Model No.	30° Point Model No.	15° Point Model No.
0-1"	600-6601	600-6611	600-6681
1-2"	600-6602	600-6612	600-6682
2-3"	600-6603	600-6613	600-6683
3-4"	600-6604	600-6614	600-6684

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

Digital Electronic Point Micrometers



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

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

Micrometer

SPECIALTY MICROMETER

Feature:

- 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.
- Resolution: 0.01mm(Metric); 0.0001"(Inch).

Single Point Micrometer



Range	Accuracy	Model No.	
		Chrome-plated frame	Painted frame
0-25mm	0.004mm	604-0271	604-0281
25-50mm	0.004mm	604-0272	604-0282
50-75mm	0.005mm	604-0273	604-0283
75-100mm	0.005mm	604-0274	604-0284

Range	Accuracy	Model No.	
		Chrome-plated frame	Painted frame
0-1"	0.004mm	604-0291	604-0301
1-2"	0.004mm	604-0292	604-0302
2-3"	0.005mm	604-0293	604-0303
3-4"	0.005mm	604-0294	604-0304

Digital Single Point Micrometer



Double measuring Forces
(Ratchet stop and Ratchet friction thimble)

Feature:

- 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.
- Chrome-plated frame.
- Protection level IP54. Criterion: DIN40050/IEC529.

Range	Accuracy	Model No.
0-25mm	0.004mm	604-0251
25-50mm	0.004mm	604-0252
50-75mm	0.005mm	604-0253
75-100mm	0.005mm	604-0254

Range	Accuracy	Model No.
0-1"	0.004mm	604-0261
1-2"	0.004mm	604-0262
2-3"	0.005mm	604-0263
3-4"	0.005mm	604-0264

Spline Micrometers



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

Tip 2x5mm(DiaXL)			Tip 3x10mm(DiaXL)		
Inch	.001"	.0001"	Inch	.001"	.0001"
Range	Model No.	Model No.	Range	Model No.	Model No.
0-1"	600-1301	600-1311	0-1"	600-1341	600-1351
1-2"	600-1302	600-1312	1-2"	600-1342	600-1352
2-3"	600-1303	600-1313	2-3"	600-1343	600-1353
3-4"	600-1304	600-1314	3-4"	600-1344	600-1354
4-5"	600-1305	600-1315	4-5"	600-1345	600-1355
5-6"	600-1306	600-1316	5-6"	600-1346	600-1356
6-7"	600-1307	600-1317	6-7"	600-1347	600-1357

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

Digital Electronic Spline Micrometers

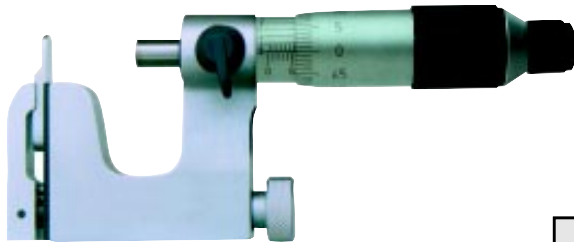


- Friction thimble (Ratchet friction thimble available).
- Chrome-plated frame.
- With 5 keys Deluxe Model micrometer head.
- Graduation .00005"/.001mm

Range	Measuring tip	
	@2x5mm	@3x5mm
Model NO.	Model NO.	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

Micrometer

SPECIALTY MICROMETER



Multi-Anvil Micrometers

- Chrome-Plated frame.
- Carbide-tipped spindle.
- Friction thimble for exact repetitive readings.

Accessory

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

- Interchangeable anvils permit quick accurate measurement of tubing, cylindrical walls, from a hole or slot to an edge, and manyhard-to-reach locations.

Inch			Metric		
Range	.001" Model No.	.0001" Model No.	Range	Graduation	Model No.
0-1"	600-1501	600-1511	0-25mm	.01mm	600-1525
1-2"	600-1502	600-1512	25-50mm	.01mm	600-1550

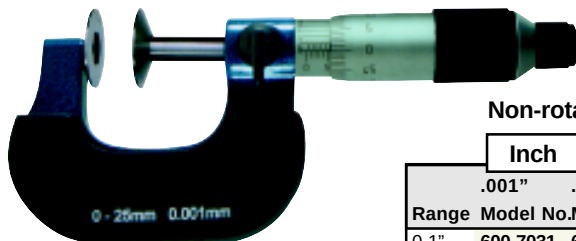
Digital Electronic Multi-Anvil Micrometers



- Chrome-Plated frame.
- With 5 keys Deluxe 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

Disc Micrometers



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

Non-rotating

Inch		
Range	.001" Model No.	.0001" Model No.
0-1"	600-7031	600-7041
1-2"	600-7032	600-7042
2-3"	600-7033	600-7043
3-4"	600-7034	600-7044
4-5"	600-7035	600-7045
5-6"	600-7036	600-7046
6-7"	600-7037	600-7047
7-8"	600-7038	600-7048

Rotating Spindle

Inch		
Range	.001" Model No.	.0001" Model No.
0-1"	600-7001	600-7011
1-2"	600-7002	600-7012
2-3"	600-7003	600-7013
3-4"	600-7004	600-7014
4-5"	600-7005	600-7015
5-6"	600-7006	600-7016
6-7"	600-7007	600-7017
7-8"	600-7008	600-7018

Metric

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

Digital Electronic Disc Micrometers



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

Large Disc Micrometers



Feature:

- Non-rotating spindle.
- Large disk measuring faces.
- Disk diameter: $\varnothing 60$ mm.
- Resolution: 0.01mm(Metric); 0.001"(Inch).

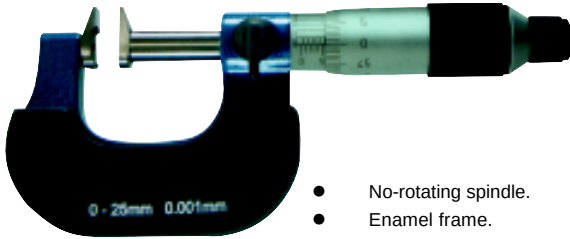
Range	Accuracy	Model No.
0-25mm	0.008mm	604-0311
25-50mm	0.008mm	604-0312
50-75mm	0.010mm	604-0313
75-100mm	0.010mm	604-0314

Range	Accuracy	Model No.
0-1"	0.008mm	604-0321
1-2"	0.008mm	604-0322
2-3"	0.010mm	604-0323
3-4"	0.010mm	604-0324

Micrometer

SPECIALTY MICROMETER

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		
	.001"	.0001"
Range	Model No.	Model No.
0-1"	600-7401	600-7411
1-2"	600-7402	600-7412
2-3"	600-7403	600-7413
3-4"	600-7404	600-7414
4-5"	600-7405	600-7415
5-6"	600-7406	600-7416
6-7"	600-7407	600-7417
7-8"	600-7408	600-7418

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

Digital Electronic Jaw Type Micrometers



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

Blade Micrometers



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

Inch		
	.001"	.0001"
Range	Model No.	Model No.
0-1"	600-1801	600-1811
1-2"	600-1802	600-1812
2-3"	600-1803	600-1813
3-4"	600-1804	600-1814
4-5"	600-1805	600-1815
5-6"	600-1806	600-1816
6-7"	600-1807	600-1817

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

Digital Electronic

Blade Micrometers



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

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

Micrometer

SPECIALTY MICROMETER

Gear Root Diameter Micrometer



Ratchet stop



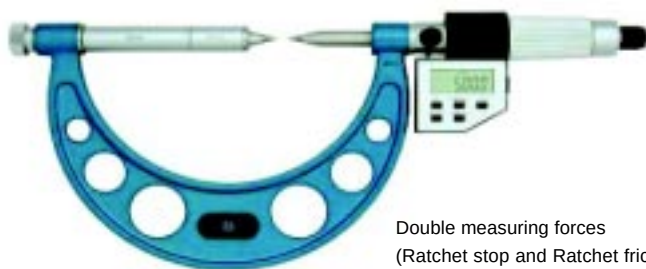
Feature:

- Wide measuring range with adjustable anvil.
- High accuracy interchangeable anvils enable that reading does not have to be reset when changing anvils.
- Painted frame. Carbide-tipped measuring faces.
- Pipe combined frame for light weight and high rigidity (over 200mm/8" range).
- Resolution: 0.01mm (Metric); 0.001" (Inch).

Range	Accuracy	Model No.
5-100mm	0.005mm	604-0371
100-200mm	0.007mm	604-0372
200-300mm	0.009mm	604-0373
300-400mm	0.011mm	604-0374
400-500mm	0.013mm	604-0375
500-600mm	0.015mm	604-0376
600-700mm	0.016mm	604-0377
700-800mm	0.018mm	604-0378
800-900mm	0.020mm	604-0379

Range	Accuracy	Model No.
0.2-4"	0.005mm	604-0381
4-8"	0.007mm	604-0382
8-12"	0.009mm	604-0383
12-16"	0.011mm	604-0384
16-20"	0.013mm	604-0385
20-24"	0.015mm	604-0386
24-28"	0.016mm	604-0387
28-32"	0.018mm	604-0388
32-36"	0.020mm	604-0389

Digital Gear Root Diameter Micrometer

Double measuring forces
(Ratchet stop and Ratchet friction thimble)

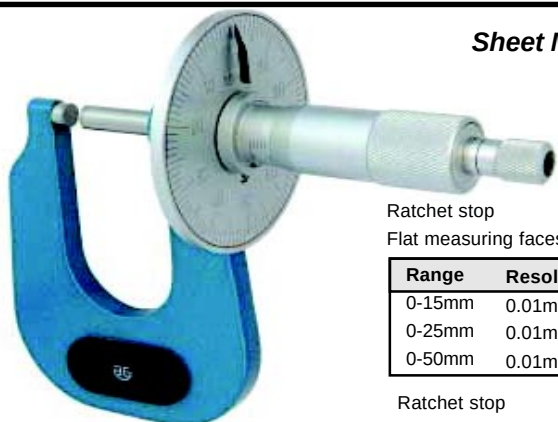
Feature:

- Wide measuring range with adjustable anvil.
- High accuracy interchangeable anvils enable that reading does not have to be reset when changing anvils.
- Painted frame. Carbide-tipped measuring faces.
- Pipe combined frame for light weight and high rigidity (over 200mm/8" range).
- Protection level IP54. Criterion: DIN40050/IEC529.

Range	Accuracy	Point	Model No.
5-100mm	0.005mm	SR0.4mm	604-0351
100-200mm	0.007mm	SR0.5mm	604-0352
200-300mm	0.009mm	SR0.7mm	604-0353
300-400mm	0.011mm	SR0.7mm	604-0354
400-500mm	0.013mm	SR0.7mm	604-0355
500-600mm	0.015mm	SR0.7mm	604-0356
600-700mm	0.016mm	SR0.7mm	604-0357
700-800mm	0.018mm	SR0.7mm	604-0358
800-900mm	0.020mm	SR0.7mm	604-0359

Range	Accuracy	Point	Model No.
0.2-4"	0.005mm	SR0.4mm	604-0361
4-8"	0.007mm	SR0.5mm	604-0362
8-12"	0.009mm	SR0.7mm	604-0363
12-16"	0.011mm	SR0.7mm	604-0364
16-20"	0.013mm	SR0.7mm	604-0365
20-24"	0.015mm	SR0.7mm	604-0366
24-28"	0.016mm	SR0.7mm	604-0367
28-32"	0.018mm	SR0.7mm	604-0368
32-36"	0.020mm	SR0.7mm	604-0369

Sheet Metal Micrometer



Feature:

- A dial is attached to the sleeve for making easy and quick reading of sheet metal thickness.
- Carbide measuring faces.

Ratchet stop
Flat measuring faces

Range	Resolution	Accuracy	Model No.
0-15mm	0.01mm	0.004mm	604-0431
0-25mm	0.01mm	0.004mm	604-0432
0-50mm	0.01mm	0.005mm	604-0433

Range	Resolution	Accuracy	Model No.
0-0.6"	0.01mm	0.004mm	604-0434
0-1"	0.01mm	0.004mm	604-0435
0-2"	0.01mm	0.005mm	604-0436

Ratchet stop
Flat measuring faces

Range	Resolution	Accuracy	Model No.
0-15mm	0.01mm	0.004mm	604-0441
0-25mm	0.01mm	0.004mm	604-0442
0-50mm	0.01mm	0.005mm	604-0443

Range	Resolution	Accuracy	Model No.
0-0.6"	0.01mm	0.004mm	604-0444
0-1"	0.01mm	0.004mm	604-0445
0-2"	0.01mm	0.005mm	604-0446

Micrometer

SPECIALTY MICROMETER

Gear Micrometer



Ratchet stop
640-F0702 Anvils



Feature:

- Interchangeable ball tips for various gear modules(0.6-3.5) are available.
- Resolution: 0.01mm(Metric); 0.001"(Inch)

Ratchet stop
Painted frame

Range	Accuracy	Model No.
0-25mm	0.004mm	604-0471
25-50mm	0.004mm	604-0472
50-75mm	0.005mm	604-0473
75-100mm	0.005mm	604-0474
100-125mm	0.006mm	604-0475
125-150mm	0.006mm	604-0476
150-175mm	0.007mm	604-0477

Range	Accuracy	Model No.
0-1"	0.004mm	604-0481
1-2"	0.004mm	604-0482
2-3"	0.005mm	604-0483
3-4"	0.005mm	604-0484
4-5"	0.006mm	604-0485
5-6"	0.006mm	604-0486
6-7"	0.007mm	604-0487



Digital Gear Micrometer

Double measuring forces
(Ratchet stop and Ratchet friction thimble)
604-F0701 Anvils

Feature:

- Interchangeable ball tips for various gear modules(0.6-3.5) are available.
- Chrome-plated frame.

Range	Accuracy	Model No.
0-25mm	0.004mm	604-0451
25-50mm	0.004mm	604-0452
50-75mm	0.005mm	604-0453
75-100mm	0.005mm	604-0454
100-125mm	0.006mm	604-0455
125-150mm	0.006mm	604-0456
150-175mm	0.007mm	604-0457

Range	Accuracy	Model No.
0-1"	0.004mm	604-0461
1-2"	0.004mm	604-0462
2-3"	0.005mm	604-0463
3-4"	0.005mm	604-0464
4-5"	0.006mm	604-0465
5-6"	0.006mm	604-0466
6-7"	0.007mm	604-0467

Interchangeable Tips

Ball dia.	Module	Diametral pitch	Model No.
1mm	0.6-0.65	45	604-F0701
1.5mm	0.9-1.0	28-26	604-F0702
2.0mm	1.25	22	604-F0703
2.5mm	1.5	17	604-F0704
3.0mm	1.75	15	604-F0705
3.5mm	2	13	604-F0706
4.0mm	2.25	11	604-F0707
4.5mm	2.5	10	604-F0708
5.0mm	2.75	9	604-F0709
6.0mm	3.5	7	604-F0710
10pcs Set			604-F0700

Large Anvil Micrometer

Feature:

- Large anvil for measuring tooth width of side milling cutter.
- Resolution: 0.01mm(Metric); 0.001"(Inch).



Digital Large Anvil Micrometer



Feature:

- Large anvil for measuring tooth width of side milling cutter.
- Chrome-plated frame.
- Protection level IP54. Criterion: DIN40050/IEC529.

Double measuring forces(Ratchet stop and Ratchet friction thimble)

Range	Accuracy	Model No.
0-25mm	0.004mm	604-0551
25-50mm	0.004mm	604-0552

Range	Accuracy	Model No.
0-1"	0.004mm	604-0561
1-2"	0.004mm	604-0562

Range	Accuracy	Model No.	
		Chrome-plated frame	Painted frame
0-25mm	0.004mm	604-0571	604-0573
25-50mm	0.004mm	604-0572	604-0574

Range	Accuracy	Model No.	
		Chrome-plated frame	Painted frame
0-1"	0.004mm	604-0581	604-0583
1-2"	0.004mm	604-0582	604-0584

Micrometer

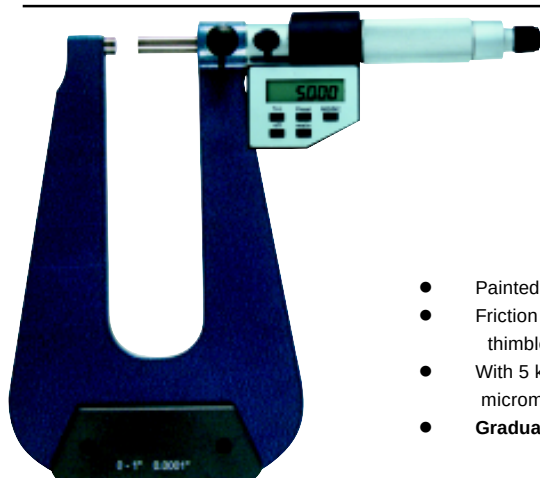
SPECIALTY MICROMETER



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				Metric			
Range	Throat Depth	.001" Model No.	.0001" Model No.	Range	Grad.	Throat Depth	Model No.
0-1"	2"	600-1701	600-1711	0-25mm	.01mm	50mm	600-1721
1-2"	2"	600-1702	600-1712	25-50mm	.01mm	50mm	600-1722
0-1"	4"	600-1703	600-1713	0-25mm	.01mm	100mm	600-1723
1-2"	4"	600-1704	600-1714	25-50mm	.01mm	100mm	600-1724
0-1"	6"	600-1705	600-1715	0-25mm	.01mm	150mm	600-1725
1-2"	6"	600-1706	600-1716	25-50mm	.01mm	150mm	600-1726
0-1"	8"	600-1707	600-1717	0-25mm	.01mm	300mm	600-1727
1-2"	8"	600-1708	600-1718	25-50mm	.01mm	300mm	600-1728



Digital Electronic Deep Throat Micrometers

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

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



Ball Micrometers

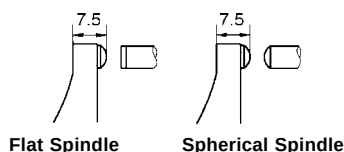
- Enamel frame.
- Carbide-tipped spherical anvil.
- Ratchet stop (friction thimble or ratchet friction thimble available).

Inch				Metric			
Range	Flat Top Spindle		Spherical Top Spindle	Range	Grad.	Flat Top Spindle	Spherical Top Spindle
	.001" Model No.	.0001" Model No.				Model No.	Model No.
0-1"	600-7644	600-7654	600-7660	0-25mm	.01mm	600-7681	600-7685
1-2"	600-7645	600-7655	600-7661	25-50mm	.01mm	600-7682	600-7686
2-3"	600-7646	600-7656	600-7662	50-75mm	.01mm	600-7683	600-7687
3-4"	600-7647	600-7657	600-7663	75-100mm	.01mm	600-7684	600-7688

Digital Electronic Ball Micrometers



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



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

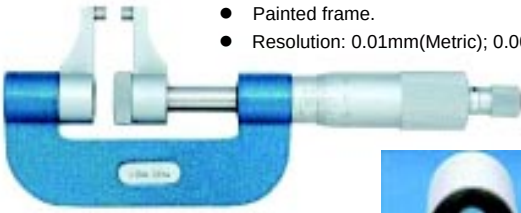
Micrometer

SPECIALTY MICROMETER

Caliper Type Micrometers

Feature:

- This outside micrometers enables the measuring of hard-to-reach parts.
- Carbide measuring faces.
- Painted frame.
- Resolution: 0.01mm(Metric); 0.001"(Inch).



Range	Accuracy	Model No.	
		Chrome-plated frame	Painted frame
0-25mm	0.005mm	604-0671	604-0681
25-50mm	0.006mm	604-0672	604-0682
50-75mm	0.007mm	604-0673	604-0683
75-100mm	0.008mm	604-0674	604-0684

Range	Accuracy	Model No.	
		Chrome-plated frame	Painted frame
0-1"	0.005mm	604-0691	604-0701
1-2"	0.006mm	604-0692	604-0702
2-3"	0.007mm	604-0693	604-0703
3-4"	0.008mm	604-0694	604-0704

Digital Caliper Type Micrometers

Feature:

- This outside micrometers enables the measuring of hard-to-reach parts.
- Carbide measuring faces.
- Painted frame.

Double measuring forces
(Ratchet stop and Ratchet friction thimble)



Range	Accuracy	Model No.
0-25mm	0.005mm	604-0651
25-50mm	0.006mm	604-0652
50-75mm	0.007mm	604-0653
75-100mm	0.008mm	604-0654

Range	Accuracy	Model No.
0-1"	0.005mm	604-0661
1-2"	0.006mm	604-0662
2-3"	0.007mm	604-0663
3-4"	0.008mm	604-0664

Hub Micrometers

Feature:

- Measuring hub thickness and shoulders inside a bore.
- Carbide measuring faces. Painted frame.
- Ratchet stop.



Ratchet stop



Range	Accuracy	Resolution	Model No.
0-25mm	0.004mm	0.001mm	604-0711
25-50mm	0.004mm	0.001mm	604-0712
50-75mm	0.005mm	0.001mm	604-0713
75-100mm	0.005mm	0.001mm	604-0714

Range	Accuracy	Resolution	Model No.
0-1"	0.004mm	0.001mm	604-0721
1-2"	0.004mm	0.001mm	604-0722
2-3"	0.005mm	0.001mm	604-0723
3-4"	0.005mm	0.001mm	604-0724

Hot Sheet Micrometers

Feature:

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



Ratchet stop



Range	Accuracy	Resolution	Model No.
0-15mm	0.05mm	0.05mm	604-0731
15-30mm	0.05mm	0.05mm	604-0732
30-45mm	0.05mm	0.05mm	604-0733
45-60mm	0.05mm	0.05mm	604-0734
60-75mm	0.05mm	0.05mm	604-0735
75-90mm	0.05mm	0.05mm	604-0736
90-105mm	0.05mm	0.05mm	604-0737

Range	Accuracy	Resolution	Model No.
0-0.6"	0.05mm	0.05mm	604-0741
0.6-1.2"	0.05mm	0.05mm	604-0742
1.2-1.8"	0.05mm	0.05mm	604-0743
1.8-2.4"	0.05mm	0.05mm	604-0744
2.4-3.0"	0.05mm	0.05mm	604-0745
3.0-3.6"	0.05mm	0.05mm	604-0746
3.6-4.2"	0.05mm	0.05mm	604-0747

Micrometer

SPECIALTY MICROMETER

UNIVERSAL MICROMETERS

Feature:

- With 7 pieces of interchangeable anvils (Flat, Spherical, Spline, Disk, Blade, Point and Knife-edge), for a wide range of applications.
- Resolution: 0.01mm(Metric); 0.001"(Inch).



Range	Accuracy	Model No.	
		Chrome-plated frame	Painted frame
0-25mm	0.004mm	604-0511	604-0521
25-50mm	0.004mm	604-0512	604-0522
50-75mm	0.005mm	604-0513	604-0523
75-100mm	0.005mm	604-0514	604-0524
100-125mm	0.006mm	604-0515	604-0525
125-150mm	0.006mm	604-0516	604-0526
150-175mm	0.007mm	604-0517	604-0527
175-200mm	0.007mm	604-0518	604-0528

Range	Accuracy	Model No.	
		Chrome-plated frame	Painted frame
0-1"	0.004mm	604-0531	604-0541
1-2"	0.004mm	604-0532	604-0542
2-3"	0.005mm	604-0533	604-0543
3-4"	0.005mm	604-0534	604-0544
4-5"	0.006mm	604-0535	604-0545
5-6"	0.006mm	604-0536	604-0546
6-7"	0.007mm	604-0537	604-0547
7-8"	0.007mm	604-0538	604-0548

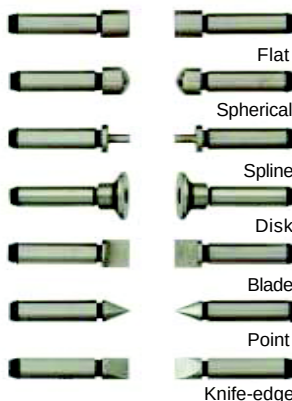
DIGITAL UNIVERSAL MICROMETERS



Ratchet stop Painted frame

Range	Accuracy	Model No.
0-25mm	0.004mm	604-0491
25-50mm	0.004mm	604-0492
50-75mm	0.005mm	604-0493
75-100mm	0.005mm	604-0494
100-125mm	0.006mm	604-0495
125-150mm	0.006mm	604-0496
150-175mm	0.007mm	604-0497
175-200mm	0.007mm	604-0498

Range	Accuracy	Model No.
0-1"	0.004mm	604-0501
1-2"	0.004mm	604-0502
2-3"	0.005mm	604-0503
3-4"	0.005mm	604-0504
4-5"	0.006mm	604-0505
5-6"	0.006mm	604-0506
6-7"	0.007mm	604-0507
7-8"	0.007mm	604-0508



Universal Anvils

Anvils	Model No.
Flat	604-F0501
Spherical	604-F0502
Spline	604-F0503
Disk	604-F0504
Blade	604-F0505
Point(60 $\frac{1}{2}$ " (55 $\frac{1}{2}$ "	604-F0506 604-F0606
Knife-edge(60 $\frac{1}{2}$ " (55 $\frac{1}{2}$ "	604-F0507 604-F0607
60 $\frac{1}{2}$ "pcs Set	604-F0500
55 $\frac{1}{2}$ "pcs Set	604-F0600

MICROMETERS WITH DIAL INDICATOR

Feature:

- Direct GO/NG judgment for mass-produced parts.
- Anvil retracting range: 8mm.
- Carbide measuring faces.
- Resolution of micrometer head: 0.01mm(Metric); 0.0001"(Inch).
- Resolution of dial indicator: 0.01mm(Metric); 0.0005"(Inch).



Painted frame
Ratchet friction thimble



Range	Accuracy	Model No.	
		Chrome-plated frame	Painted frame
0-25mm	0.004mm	604-0171	604-0181
25-50mm	0.004mm	604-0172	604-0182
50-75mm	0.005mm	604-0173	604-0183
75-100mm	0.005mm	604-0174	604-0184
100-125mm	0.006mm	604-0175	604-0185
125-150mm	0.006mm	604-0176	604-0186
150-175mm	0.007mm	604-0177	604-0187

Range	Accuracy	Model No.	
		Chrome-plated frame	Painted frame
0-1"	0.004mm	604-0191	604-0201
1-2"	0.004mm	604-0192	604-0202
2-3"	0.005mm	604-0193	604-0203
3-4"	0.005mm	604-0194	604-0204
4-5"	0.006mm	604-0195	604-0205
5-6"	0.006mm	604-0196	604-0206
6-7"	0.007mm	604-0197	604-0207

Three Point Micrometer

THREE-POINT INTERNAL MICROMETER

Feature:

- Range 2-6mm without extension rods.
- Measurement can be taken closer to the bottom of the blind bore, and can be taken into a deep hole with an extension rod.
- Highly durable because of carbide-tipped contact points.
- Ratchet stop.
- Within 100mm/4": Supplied with setting rings.
- Range 2-6mm/0.08-0.28": Two Point Models for Very Small Holes.
- Range 6-12mm/0.275-0.5": Without carbide-tipped contact points, Over 12mm/0.5": Titanium plated, anvils optional.
- Resolution:
 - Within 12mm/0.5": 0.001mm (Metric) ; 0.0001" (Inch).
 - Over 12mm/0.5": 0.005mm (Metric) ; 0.0002" (Inch).



Range: 2-6mm/0.08-0.28"

Range	Accuracy	Setting rings	Model No.
2-2.5mm	0.004mm	0.025mm	604-0931
2.5-3mm	0.004mm	0.025mm	604-0932
3-4mm	0.004mm	0.025mm	604-0933
4-5mm	0.004mm	0.025mm	604-0934
5-6mm	0.004mm	0.025mm	604-0935

Range	Accuracy	Setting rings	Model No.
0.08-0.1"	0.00016"	0.1"	604-0941
0.1-0.12"	0.00016"	0.1"	604-0942
0.12-0.16"	0.00016"	0.16"	604-0943
0.16-0.2"	0.00016"	0.16"	604-0944
0.2-0.24"	0.00016"	0.24"	604-0945
0.24-0.28"	0.00016"	0.28"	604-0946



Range: 6-12mm/0.275-0.5"

Range	Accuracy	Setting rings	Extension rods	Model No.
6-8mm	0.004mm	0.06mm	100mm	604-0951
8-10mm	0.004mm	0.08mm	100mm	604-0952
10-12mm	0.004mm	0.10mm	100mm	604-0953

Range	Accuracy	Setting rings	Extension rods	Model No.
0.275-0.35"	0.00016"	0.16"	4"	604-0961
0.35-0.425"	0.00016"	0.16"	4"	604-0962
0.425-0.5"	0.00016"	0.16"	4"	604-0963



Range: 6-100mm/0.275-4"

Range	Accuracy	Setting rings	Extension rods	Model No.
6-8mm	0.004mm	0.06mm	100mm	604-0971
8-10mm	0.004mm	0.08mm	100mm	604-0972
10-12mm	0.004mm	0.10mm	100mm	604-0973
12-16mm	0.004mm	0.16mm	150mm	604-0974
16-20mm	0.004mm	0.16mm	150mm	604-0975
20-25mm	0.004mm	0.25mm	150mm	604-0976
25-30mm	0.004mm	0.25mm	150mm	604-0977
30-40mm	0.004mm	0.40mm	150mm	604-0978
40-50mm	0.005mm	0.40mm	150mm	604-0979
50-63mm	0.005mm	0.62mm	150mm	604-0980
62-75mm	0.005mm	0.62mm	150mm	604-0981
75-88mm	0.005mm	0.87mm	150mm	604-0982
87-100mm	0.005mm	0.87mm	150mm	604-0983

Range	Accuracy	Setting rings	Extension rods	Model No.
0.275-0.35"	0.00016"	0.275"	4"	604-0991
0.35-0.42"	0.00016"	0.35"	4"	604-0992
0.425-0.5"	0.00016"	0.5"	4"	604-0993
0.5-0.65"	0.00016"	0.65"	6"	604-0994
0.65-0.8"	0.00016"	0.65"	6"	604-0995
0.8-1"	0.00016"	1"	6"	604-0996
1-1.2"	0.00016"	1"	6"	604-0997
1.2-1.6"	0.00016"	1.6"	6"	604-0998
1.6-2"	0.0002"	1.6"	6"	604-0999
2-2.5"	0.0002"	2.5"	6"	604-1001
2.5-3"	0.0002"	2.5"	6"	604-1002
3-3.5"	0.0002"	3.5"	6"	604-1003
3.5-4"	0.0002"	3.5"	6"	604-1004

Three Point Micrometer

THREE-POINT INTERNAL MICROMETER SET

Feature:

- Over 100mm/4": Setting rings optional.
- Over 100mm/4": Measuring heads are interchangeable.
- Ratchet stop.
- Aluminium body.



604-1019

Chrome-plated surface/ Metric size

Range	Setting rings	Extension rods	Model No.
2-2.5, 2.5-3mm	0.2, 5mm	/	604-1011
3-4, 4-5, 5-6mm	0.4, 5, 6mm	/	604-1012
6-8, 8-10, 10-12mm	0.6, 8, 10mm	100mm	604-1013
6-8, 8-10, 10-12mm	0.6, 8, 10mm	100mm	604-1014
12-16, 16-20mm	0.1, 6mm	150mm	604-1015
20-25, 25-30, 30-40mm	0.2, 5, 10mm	150mm	604-1016
20-25, 25-30, 30-40, 40-50mm	0.2, 5, 10mm	150mm	604-1017
40-50, 50-63, 62-75, 75-88, 87-100mm	0.2, 5, 10, 15, 20mm	150mm	604-1018
50-63, 62-75, 75-88, 87-100mm	0.2, 5, 10mm	150mm	604-1019



604-1012

Chrome-plated surface/ Inch size

Range	Setting rings	Extension rods	Model No.
0.08-0.1", 0.1-0.12"	0.1"	/	604-1021
0.12-0.16", 0.16-0.2", 0.2-0.24", 0.24-0.28"	0.16", 0.24"	/	604-1022
0.275-0.35", 0.35-0.425", 0.425-0.5"	0.275", 0.35", 0.5"	4"	604-1023
0.275-0.35", 0.35-0.425", 0.425-0.5"	0.275", 0.35", 0.5"	4"	604-1024
0.5-0.65", 0.65-0.8"	0.65"	6"	604-1025
0.8-1", 1-1.2", 1.2-1.6", 1.6-2"	1", 1.6"	6"	604-1026
2-2.5", 2.5-3", 3-3.5", 3.5-4"	2.5", 3.5"	6"	604-1027

Painted surface

Range	Setting rings	Extension rods	Model No.
50-63, 62-75, 75-88, 87-100mm	0.2, 5, 10mm	150mm	604-1031

Range	Setting rings	Extension rods	Model No.
2-2.5", 2.5-3", 3-3.5", 3.5-4"	2.5", 3.5"	6"	604-1041

Anticathode-oxidation surface

Range	Setting rings	Extension rods	Model No.
50-63, 62-75, 75-88, 87-100mm	0.2, 5, 10mm	150mm	604-1032

Range	Setting rings	Extension rods	Model No.
2-2.5", 2.5-3", 3-3.5", 3.5-4"	2.5", 3.5"	6"	604-1042



ELECTRONIC THREE-POINT INTERNAL MICROMETERS

Feature:

- Range 2-6mm without extension rods.
- Measurement can be taken closer to the bottom of the blind bore, and can be taken into a deep hole with an extension rod.
- Highly durable because of carbide-tipped contact points. Ratchet stop.
- Protection level IP54.
- Criterion: DIN40050/IEC529.
- Within 100mm/4", Supplied with setting rings.
- Range 2-6mm/0.08-0.28": Two Point Models for Very Small Holes.
- Range 6-12mm/0.275-0.5": Without carbide-tipped contact points.



Range: 2-6mm/0.08-0.28"

Range	Accuracy	Setting rings	Model No.
2-2.5mm	0.004mm	0.2, 5mm	604-1051
2.5-3mm	0.004mm	0.2, 5mm	604-1052
3-4mm	0.004mm	0.4mm	604-1053
4-5mm	0.004mm	0.5mm	604-1054
5-6mm	0.004mm	0.6mm	604-1055

Range	Accuracy	Setting rings	Model No.
0.08-0.1"	0.00016"	0.1"	604-1061
0.1-0.12"	0.00016"	0.1"	604-1062
0.12-0.16"	0.00016"	0.16"	604-1063
0.16-0.2"	0.00016"	0.16"	604-1064
0.2-0.24"	0.00016"	0.24"	604-1065
0.24-0.28"	0.00016"	0.24"	604-1066

Three Point Micrometer

ELECTRONIC THREE-POINT INTERNAL MICROMETERS

Range: 6-12mm/0.275-0.5"



Range	Accuracy	Setting rings	Extension rods	Model No.
6-8mm	0.004mm	0.5mm	100mm	604-1071
8-10mm	0.004mm	0.8mm	100mm	604-1072
10-12mm	0.004mm	1.0mm	100mm	604-1073

Range	Accuracy	Setting rings	Extension rods	Model No.
0.275-0.35"	0.00016"	0.275"	4"	604-1081
0.35-0.425"	0.00016"	0.35"	4"	604-1082
0.425-0.5"	0.00016"	0.5"	4"	604-1083



Range: 6-100mm/0.275-4"

Range	Accuracy	Setting rings	Extension rods	Model No.
6-8mm	0.004mm	0.5mm	100mm	604-1091
8-10mm	0.004mm	0.8mm	100mm	604-1092
10-12mm	0.004mm	1.0mm	100mm	604-1093
12-16mm	0.004mm	1.6mm	150mm	604-1094
16-20mm	0.004mm	1.6mm	150mm	604-1095
20-25mm	0.004mm	2.5mm	150mm	604-1096
25-30mm	0.004mm	2.5mm	150mm	604-1097
30-40mm	0.004mm	3.0mm	150mm	604-1098
40-50mm	0.005mm	4.0mm	150mm	604-1099
50-63mm	0.005mm	6.2mm	150mm	604-1100
62-75mm	0.005mm	6.2mm	150mm	604-1101
75-88mm	0.005mm	8.7mm	150mm	604-1102
87-100mm	0.005mm	8.7mm	150mm	604-1103

Range	Accuracy	Setting rings	Extension rods	Model No.
0.275-0.35"	0.00016"	0.275"	4"	604-1111
0.35-0.425"	0.00016"	0.35"	4"	604-1112
0.425-0.5"	0.00016"	0.5"	4"	604-1113
0.5-0.65"	0.00016"	0.65"	6"	604-1114
0.65-0.8"	0.00016"	0.65"	6"	604-1115
0.8-1"	0.00016"	1"	6"	604-1116
1-1.2"	0.00016"	1"	6"	604-1117
1.2-1.6"	0.00016"	1.6"	6"	604-1118
1.6-2"	0.0002"	1.6"	6"	604-1119
2-2.5"	0.0002"	2.5"	6"	604-1120
2.5-3"	0.0002"	2.5"	6"	604-1121
3-3.5"	0.0002"	3.5"	6"	604-1122
3.5-4"	0.0002"	3.5"	6"	604-1123

ELECTRONIC THREE-POINT INTERNAL MICROMETERS SETS

Feature:

- Over 100mm/4": Setting rings optional.
- Measuring heads are interchangeable.
- Retract stop.
- Aluminium body.



Chrome-plated surface

Range	Setting rings	Extension rods	Model No.
2-2.5, 2.5-3mm	0.25mm	/	604-1131
3-4, 4-5, 5-6mm	0.4, 5, 6mm	/	604-1132
6-8, 8-10, 10-12mm	0.6, 8, 10mm	100mm	604-1133
6-8, 8-10, 10-12mm	0.6, 8, 10mm	100mm	604-1134
12-16, 16-20mm	1.6mm	150mm	604-1135
20-25, 25-30, 30-40mm	0.25, 40mm	150mm	604-1136
20-25, 25-30, 30-40, 40-50mm	0.25, 40mm	150mm	604-1137
40-50, 50-63, 62-75, 75-88, 87-100mm	0.40, 62, 87mm	150mm	604-1138
50-63, 62-75, 75-88, 87-100mm	0.62, 87mm	150mm	604-1139

Range	Setting rings	Extension rods	Model No.
0.08-0.1", 0.1-0.12"	0.1"	/	604-1141
0.12-0.16", 0.16-0.2", 0.2-0.24", 0.24-0.28"	0.16", 0.2"	/	604-1142
0.275-0.35", 0.35-0.425", 0.425-0.5"	0.16", 0.2"	/	604-1143
0.275-0.35", 0.35-0.425", 0.425-0.5"	0.275", 0.35", 0.5"	4"	604-1144
0.5-0.65", 0.65-0.8"	0.275", 0.35", 0.5"	4"	604-1145
0.8-1", 1-1.2", 1.2-1.6"	0.65"	6"	604-1146
0.8-1", 1-1.2", 1.2-1.6", 1.6-2"	1", 1.6"	6"	604-1147
1.6-2", 2-2.5", 2.5-3", 3-3.5", 3.5-4"	1", 1.6"	6"	604-1148
2-2.5", 2.5-3", 3-3.5", 3.5-4"	1.6", 2.5", 3.5"	6"	604-1149

Three Point Micrometer

THREE POINT INSIDE MICROMETERS



- Three point self-centering heads.
- Ratchet stop

Inch		
Range	Grad.	Model No.
.24-.3"	.0002"	600-9501
.3-.39"	.0002"	600-9502
.39-.47"	.0002"	600-9503
.43-.55"	.0002"	600-9504
.55-.66"	.0002"	600-9505
.66-.78"	.0002"	600-9506
.78-.98"	.0002"	600-9507
.98-1.18"	.0002"	600-9508
1.18-1.37"	.0002"	600-9509
1.37-1.57"	.0002"	600-9510
1.57-1.97"	.0002"	600-9511
1.97-2.36"	.0002"	600-9512
2.36-2.76"	.0002"	600-9513
2.76-3.15"	.0002"	600-9514
3.15-3.54"	.0002"	600-9515
3.54-3.94"	.0002"	600-9516

Metric		
Range	Grad.	Model No.
6-8mm	.005mm	600-9201
8-10mm	.005mm	600-9202
10-12mm	.005mm	600-9203
11-14mm	.005mm	600-9204
14-17mm	.005mm	600-9205
17-20mm	.005mm	600-9206
20-25mm	.005mm	600-9207
25-30mm	.005mm	600-9208
30-35mm	.005mm	600-9209
35-40mm	.005mm	600-9210
40-50mm	.005mm	600-9211
50-60mm	.005mm	600-9212
60-70mm	.005mm	600-9213
70-80mm	.005mm	600-9214
80-90mm	.005mm	600-9215
90-100mm	.005mm	600-9216

THREE POINT INSIDE MICROMETERS FOR BLIND HOLE

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



Inch		
Range	Grad.	Model No.
.24-.3"	.0002"	600-2501
.3-.39"	.0002"	600-2502
.39-.47"	.0002"	600-2503
.43-.55"	.0002"	600-2504
.55-.66"	.0002"	600-2505
.66-.78"	.0002"	600-2506
.78-.98"	.0002"	600-2507
.98-1.18"	.0002"	600-2508
1.18-1.37"	.0002"	600-2509
1.37-1.57"	.0002"	600-2510
1.57-1.97"	.0002"	600-2511
1.97-2.36"	.0002"	600-2512
2.36-2.76"	.0002"	600-2513
2.76-3.15"	.0002"	600-2514
3.15-3.54"	.0002"	600-2515
3.54-3.94"	.0002"	600-2516

Metric		
Range	Grad.	Model No.
6-8mm	.005mm	600-2201
8-10mm	.005mm	600-2202
10-12mm	.005mm	600-2203
11-14mm	.005mm	600-2204
14-17mm	.005mm	600-2205
17-20mm	.005mm	600-2206
20-25mm	.005mm	600-2207
25-30mm	.005mm	600-2208
30-35mm	.005mm	600-2209
35-40mm	.005mm	600-2210
40-50mm	.005mm	600-2211
50-60mm	.005mm	600-2212
60-70mm	.005mm	600-2213
70-80mm	.005mm	600-2214
80-90mm	.005mm	600-2215
90-100mm	.005mm	600-2216

DIGITAL ELECTRONIC BORE GAGES



- Three point self-centering heads.
- Patent structure.
- Large measuring range.
- Carbide-tipped contact anvil.
- Large and clear LCD.
- 7keys digital electronic multifunction micrometer head.
- SPC output.

Range	Graduation	Model No.
2-2.8"/50-70mm	.00005"/.001mm	600-9701
2.8-4"/70-100mm	.00005"/.001mm	600-9702
4-6"/100-150mm	.00005"/.001mm	600-9703
6-10"/150-250mm	.00005"/.001mm	600-9704
8-12"/200-300mm	.00005"/.001mm	600-9705
10-14"/250-350mm	.00005"/.001mm	600-9706

Three Point Micrometer



THREE POINT INSIDE MICROMETER SETS

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

Inch				
Range	Grad.	Desc.	Model No.	
.24-.48	.0002"	3 heads	600-9520	
.44-.80	.0002"	3 heads	600-9530	
.80-1.6	.0002"	4 heads	600-9540	
1.6-4.0	.0002"	6 heads	600-9560	

Metric				
Range	Grad.	Desc.	Model No.	
6-12mm	.005mm	3 heads	600-9220	
11-20mm	.005mm	3 heads	600-9230	
20-40mm	.005mm	4 heads	600-9240	
40-100mm	.005mm	6 heads	600-9260	

THREE POINT INSIDE MICROMETER SETS FOR BLIND HOLE

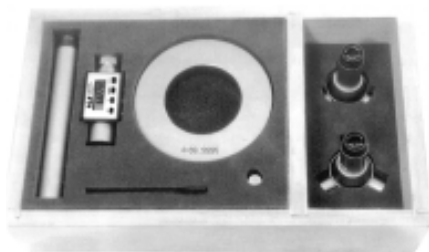


- Including Internal Ring gage .
- Arbor & Arbor Socket not Included.

Inch				
Range	Grad.	Desc.	Model No.	
.24-.48	.0002"	3 heads	600-2520	
.44-.80	.0002"	3 heads	600-2530	
.80-1.6	.0002"	4 heads	600-2540	
1.6-4.0	.0002"	6 heads	600-2560	

Metric				
Range	Grad.	Desc.	Model No.	
6-12mm	.005mm	3heads	600-2220	
11-20mm	.005mm	3 heads	600-2230	
20-40mm	.005mm	4 heads	600-2240	
40-100mm	.005mm	6 heads	600-2260	

DIGITAL ELECTRONIC BORE GAGE SETS



Range	Description	Model No.
2-4"/50-100mm	2 heads, 1ring	600-9711
4-10"/100-250mm	2 heads, 1ring	600-9712

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

Range	Arbor& Socket Model No.	Wrench Model No.
For .24-.48"	600-9521	600-9523
For .44-.80"	600-9531	600-9533
For .80-1.6"	600-9541	600-9543
For 1.6-4.0"	600-9561	600-9563

Range	Arbor & Socket 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

Two Point Micrometer

TWO-POINT INTERNAL MICROMETERS



Feature:

- Measurement can be taken closer to the bottom of the blind bore, and can be taken into a deep hole with an extension rod.
- Large measuring range due to the patent structure.
- Highly durable because of carbide-tipped contact points.
- Ratchet stop.
- Supplied with setting rings for zero adjust.
- Resolution: 0.001mm/0.0001".

Range	Accuracy	Setting rings	Model No.
50-70mm	0.006mm	Ø50mm	604-1231
70-100mm	0.006mm	Ø70mm	604-1232
100-150mm	0.007mm	Ø100mm	604-1233
150-250mm	0.010mm	Ø150mm	604-1234
200-300mm	0.010mm	Optional	604-1235

Range	Accuracy	Setting rings	Model No.
2-2.8"	0.00024"	2"	604-1241
2.8-4"	0.00024"	2.8"	604-1242
4-6"	0.00028"	4"	604-1243
6-10"	0.0004"	6"	604-1244
8-12"	0.0004"	Optional	604-1245

TWO-POINT INTERNAL MICROMETERS SETS



Range	Individual range	Setting rings	Extension rods	Model No.
50-100mm	50-70,70-100mm	Ø70mm	150mm	604-1271
100-250mm	100-150,150-250mm	Ø150mm	150mm	604-1272

Range	Individual range	Setting rings	Extension rods	Model No.
2-4"	2-2.8",2.8-4"	2.8"	4"	604-1281
4-10"	4-6",6-10"	6"	4"	604-1282

ELECTRONIC TWO-POINT INTERNAL MICROMETERS



Feature:

- Protection level IP54.
Criterion: DIN 40050/IEC529
- Connecting cable: 640-P1102(optional)

Range	Accuracy	Setting rings	Model No.
50-70mm	0.006mm	Ø50mm	604-1251
70-100mm	0.006mm	Ø70mm	604-1252
100-150mm	0.007mm	Ø100mm	604-1253
150-250mm	0.010mm	Ø150mm	604-1254
200-300mm	0.010mm	Optional	604-1255

Range	Accuracy	Setting rings	Model No.
2-2.8"	0.00024"	2"	604-1261
2.8-4"	0.00024"	2.8"	604-1262
4-6"	0.00028"	4"	604-1263
6-10"	0.0004"	6"	604-1264
8-12"	0.0004"	Optional	604-1265

ELECTRONIC TWO-POINT INTERNAL MICROMETERS SETS



Range	Individual range	Setting rings	Extension rods	Model No.
50-100mm	50-70,70-100mm	Ø70mm	150mm	604-1401
100-250mm	100-150,150-250mm	Ø150mm	150mm	604-1402

Range	Individual range	Setting rings	Extension rods	Model No.
2-4"	2-2.8",2.8-4"	2.8"	4"	604-1501
4-10"	4-6",6-10"	6"	4"	604-1502

Three Point Micrometer

PISTOL-GRIP THREE-POINT BORE GAGES

Feature:

- Single-hand operation, right-hand and left-hand viewing flexibility.
- Self-centering 3-point for accurate measurement of internal diameters.
Measurement can be taken closer to the bottom of the blind bore, and can be taken into a deep hole with an extension rod.
- Highly durable because of carbide-tipped contact points.
Supplied with setting rings for zero adjust(Over 100mm/4", setting rings optional).
- Dial indicator is supplied by user.
- Fixing dimension of dial indicator: $\varnothing 8\text{mm}$ or $3/8"$ ($\varnothing 9.525\text{mm}$).



Range	Accuracy	Setting rings	Model No.
6-8mm	0.004mm	$\varnothing 6\text{mm}$	604-1291
8-10mm	0.004mm	$\varnothing 8\text{mm}$	604-1292
10-12mm	0.004mm	$\varnothing 10\text{mm}$	604-1293
12-16mm	0.004mm	$\varnothing 16\text{mm}$	604-1294
16-20mm	0.004mm	$\varnothing 20\text{mm}$	604-1295
20-25mm	0.004mm	$\varnothing 25\text{mm}$	604-1296
25-30mm	0.004mm	$\varnothing 30\text{mm}$	604-1297
30-40mm	0.004mm	$\varnothing 40\text{mm}$	604-1298
40-50mm	0.005mm	$\varnothing 50\text{mm}$	604-1299
50-63mm	0.005mm	$\varnothing 63\text{mm}$	604-1300
62-75mm	0.005mm	$\varnothing 75\text{mm}$	604-1301
75-88mm	0.005mm	$\varnothing 88\text{mm}$	604-1302
87-100mm	0.005mm	$\varnothing 100\text{mm}$	604-1303
100-125mm	0.005mm	$\varnothing 125\text{mm}$	604-1304
125-150mm	0.005mm	$\varnothing 150\text{mm}$	604-1305
150-175mm	0.005mm	$\varnothing 175\text{mm}$	604-1306

Range	Accuracy	Setting rings	Model No.
0.275-0.35"	0.00016"	$\varnothing .275"$	604-1311
0.35-0.425"	0.00016"	$\varnothing .35"$	604-1312
0.425-0.5"	0.00016"	$\varnothing .5"$	604-1313
0.5-0.65"	0.00016"	$\varnothing .65"$	604-1314
0.65-0.8"	0.00016"	$\varnothing .8"$	604-1315
0.8-1"	0.00016"	$1"$	604-1316
1-1.2"	0.00016"	$1.2"$	604-1317
1.2-1.6"	0.00016"	$1.6"$	604-1318
1.6-2"	0.0002"	$2"$	604-1319
2-2.5"	0.0002"	$2.5"$	604-1320
2.5-3"	0.0002"	$3"$	604-1321
3-3.5"	0.0002"	$3.5"$	604-1322
3.5-4"	0.0002"	$4"$	604-1323
4-5"	0.0002"	$5"$	604-1324
5-6"	0.0002"	$6"$	604-1325
6-7"	0.0002"	$7"$	604-1326

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 includes.



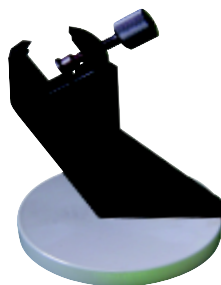
MICROMETER STANDS

- 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 "C"

Model No.600 - 1002



Type "D"

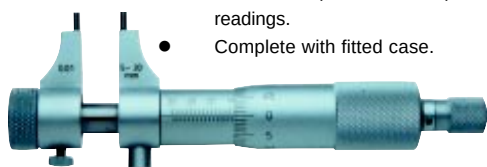
Model No.600 - 1007

Inside Micrometer

INSIDE MICROMETERS

Basic Model

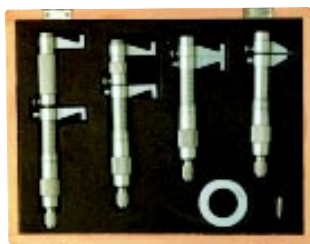
- Grad: 0.001"
- Caliper type jaws.
- Chrome-plated.
- Carbide measuring faces.
- Ratchet stop for exact repetitive readings.
- Complete with fitted case.



Inch		.001"	.0001"
Range	Accuracy	0.	Model No. Model No.
0.2-1.2"	0.0002"		600-5005 600-5105
1-2"	0.00024"		600-5010 600-5110
2-3"	0.00028"		600-5015 600-5115
3-4"	0.00032"		600-5020 600-5120
4-5"	0.00036"		600-5026 600-5126
5-6"	0.00036"		600-5030 600-5130
6-7"	0.0004"		600-5035 600-5135
7-8"	0.0004"		600-5040 600-5140
8-9"			600-5045 600-5145
9-10"			600-5046 600-5146
10-11"			600-5047 600-5147
11-12"			600-5048 600-5148

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

INSIDE MICROMETER SETS



Inch		Range	Grad.	Description	Model No.
		.2 to 3	.0001"	3PCs/set	600-5021
		.2 to 4	.0001"	4PCs/set	600-5022
		.2" to 3"	.0001"	3PCs/set	600-5121
		.2" to 4"	.0001"	4PCs/set	600-5122

Metric		Range	Grad.	Desc.	Model No.
		5 to 75mm	.01mm	3PCs/set	600-4021
		5 to 100mm	.01mm	4PCs/set	600-4022

INSIDE MICROMETERS(TWO SIDES OF CALIPERS)

Feature:

- For all kinds of inside measurement.
- Large measuring range with two sides of calipers.
- Bidirectional graduation for easy reading in both directions.
- Supplied with setting ring(Ø30mm / 1.2").



Ratchet Stop

Range	Accuracy	Setting rings	Model No.
5-30mm	0.006mm	Ø30mm	604-0911
30-55mm	0.006mm	Ø30mm	604-0912

Range	Accuracy	Setting rings	Model No.
0.2-1.2"	0.00024"	1.2"	604-0921
1.2-2.2"	0.00024"	1.2"	604-0922

Digital Inside Micrometers



- Grad: 0.001"
- Chrome-plated.
- Carbide measuring faces.
- Laser engraved graduations.
- Mechanical digital counter for quick and error-free reading.
- Caliper type jaws.

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

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

Digital Electronic Inside Micrometers



- With 5 keys Deluxe Model micrometer head
- Graduation .00005"/.001mm

Setting		
Range	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		600-5103
3-4"/75-100mm		600-5104
4-5"/100-125mm		600-5106
5-6"/125-150mm		600-5107

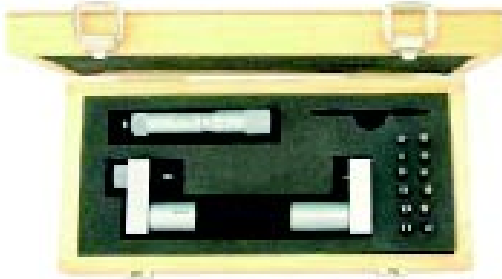
Range	Model No.
6-7"/150-175mm	600-5108
7-8"/175-200mm	600-5109
8-9"/200-225mm	600-5111
9-10"/225-250mm	600-5112
10-11"/250-275mm	600-5113
11-12"/275-300mm	600-5114

Inside Micrometer

Feature:

- 60 or 55 V-shaped and cone-shaped anvils (interchangeable) are optional.
- Dimensions of anvil-tail: $\pm 0.05 \text{ mm}$.
- Supplied with a standard caliper gage for zero setting.
- Resolution: 0.01 mm (Metric); $0.001''$ (Inch).
- Steel ball tipped anvils (interchangeable) also are optional for measuring overpin diameters of internal gears.

INSIDE MICROMETER WITH INTERCHANGEABLE ANVILS



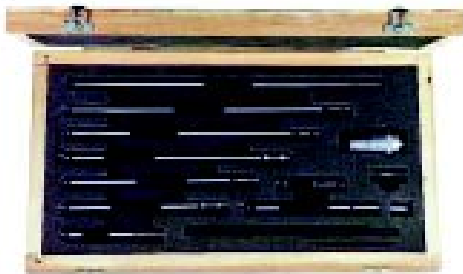
Range	Accuracy	Model No.
75-100mm	0.03mm	604-0751
100-125mm	0.03mm	604-0752
125-150mm	0.03mm	604-0753
150-175mm	0.03mm	604-0754
175-200mm	0.04mm	604-0755
200-225mm	0.04mm	604-0756
225-250mm	0.04mm	604-0757
250-275mm	0.04mm	604-0758
275-300mm	0.05mm	604-0759

Range	Accuracy	Model No.
3-4"	0.03mm	604-0761
4-5"	0.03mm	604-0762
5-6"	0.03mm	604-0763
6-7"	0.03mm	604-0764
7-8"	0.04mm	604-0765
8-9"	0.04mm	604-0766
9-10"	0.04mm	604-0767
10-11"	0.04mm	604-0768
11-12"	0.05mm	604-0769

Feature:

- The interchangeable extension rods provide a wide measuring range.
- Each interchangeable rod is marked range, for easy operation.
- Resolution: 0.01 mm (Metric); $0.001''$ (Inch).
- Accuracy: Metric ($6+L/50$) $\pm 1 \text{ mm}$, Inch $0.0003+0.00005(L/2)''$.
($L = \text{mm}$ extension rod measuring length (mm) (Inch)).

INSIDE MICROMETER SETS



Range	Extension rods	Model No.
Micrometer head 25mm		
25-32mm	Micrometer head	604-0771
25-50mm	2	604-0772
Micrometer head 50mm		
50-63mm	Micrometer head	604-0773
50-200mm	6	604-0774
50-300mm	10	604-0775
Micrometer head 200mm		
200-225mm	Micrometer head	604-0776
200-500mm	3	604-0777
200-1000mm	8	604-0778

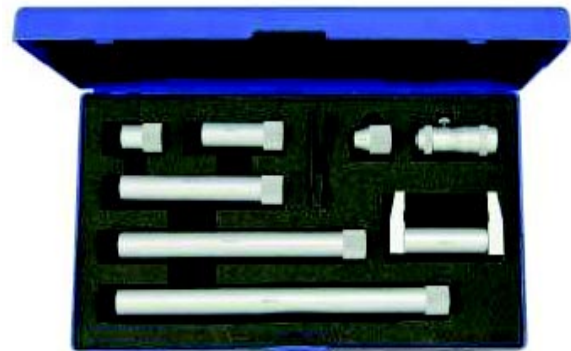
Range	Extension rods	Model No.
Micrometer head 1"		
1-1.25"		604-0781
1-2"	2	604-0782
Micrometer head 2"		
2-2.5"	Micrometer head	604-0783
2-8"	6	604-0784
2-12"	10	604-0785
Micrometer head 200mm		
8-9"	Micrometer head	604-0786
8-20"	3	604-0787
8-40"	8	604-0788

INSIDE DIAMETER MICROMETERS

Small Range Tubular Type

Feature:

- The combination of extension rods provides a wide measuring range.
- Supplied with a standard caliper gage for zero setting.
- Resolution: 0.01 mm (Metric); $0.001''$ (Inch).
- Cylindrical measuring faces.
- Diameter of extension rods: $\pm 0.015 \text{ mm}$.
- Accuracy: Metric ($6+L/50$) $\pm 1 \text{ mm}$, Inch $0.0005(6+L/2)''$.
($L = \text{mm}$ before rod, $L = \text{mm}$ extension rod measuring length (mm) (Inch)).



Range	Extension rods	Model No.
50-63mm	Micrometer head	600-6532
50-100mm	13mm, 25mm	600-6508
50-150mm	13mm, 25mm, 50mm	600-6533
50-300mm	13mm, 25mm, 50mm(2 pcs), 100mm	600-6534
50-500mm	13mm, 25mm, 50mm(2 pcs), 100mm, 200mm	600-6535
50-1000mm	13mm, 25mm, 50mm, 100mm(2 pcs), 150mm, 200mm, 300mm	600-6536
50-1500mm	13mm, 25mm, 50mm, 100mm(2 pcs), 150mm, 200mm(2 pcs), 300mm(2 pcs)	600-6537
50-75mm	13mm	600-6507
50-175mm	13mm, 25mm(2 pcs), 50mm	600-6509
50-250mm	13mm, 25mm, 50mm, 100mm	600-6510
50-600mm	13mm, 25mm, 50mm, 100mm, 150mm, 200mm	600-6511

Range	Extension rods	Model No.
2-2.5"	Micrometer head	600-6701
2-4"	0.5", 1"	600-6702
2-6"	0.5", 1", 2"	600-6703
2-12"	0.5", 1", 2"(2 pcs.), 4"	600-6605
2-20"	0.5", 1", 2"(2 pcs.), 4", 8"	600-6704
2-40"	0.5", 1", 2", 4"(2 pcs.), 6", 8", 12"	600-6705
2-60"	0.5", 1", 2", 4"(2 pcs.), 6", 8"(2 pcs.), 12"(2 pcs.)	600-6706
2-3"	0.5"	600-6707
2-7"	0.5", 1"(2 pcs.), 2"	600-6708
2-10"	0.5", 1", 2", 4"	600-6600
2-24"	0.5", 1", 2", 4", 6", 8"	600-6709

Inside Micrometer

INSIDE DIAMETER MICROMETERS

Large Range Tubular Type

Feature:

- The combining of extension rods provides a wide measuring range.
- Carbide measuring faces.
- Resolution: 0.01mm (Metric); 0.001" (Inch).

- Diameter of extension rods: $\varnothing 22\text{mm}$.
- Accuracy: Metric $(\pm 0.0005 (L/50))$ in, Inch $(\pm 0.0005 (L/16))$; (L = sum bar of rod, L = measuring length in mm) (Inch).

Travel of micrometer head: 25mm/1"

Range	Extension rods	Model No.
100-125mm	Micrometer head	604-0831
100-500mm	25mm, 50mm, 100mm, 200mm	604-0832
100-900mm	25mm, 50mm, 100mm, 200mm, 400mm	604-0833
100-1300mm	25mm, 50mm, 100mm, 200mm, 400mm (2pcs.)	604-0834
100-1700mm	25mm, 50mm, 100mm, 200mm, 400mm (3pcs.)	604-0835
100-2100mm	25mm, 50mm, 100mm, 200mm, 400mm (4pcs.)	604-0836



Range	Extension rods	Model No.
4-5"	Micrometer head	604-0841
4-20"	1", 2", 4", 8"	604-0842
4-36"	1", 2", 4", 8", 16"	604-0843
4-52"	1", 2", 4", 8", 16" (2 pcs.)	604-0844
4-68"	1", 2", 4", 8", 16" (3 pcs.)	604-0845
4-84"	1", 2", 4", 8", 16" (4 pcs.)	604-0846

- Diameter of extension rods: $\varnothing 28\text{mm}$.
- Accuracy: Metric $(\pm 0.0005 (L/50))$ in, Inch $(\pm 0.0005 (L/16))$; (L = sum bar of rod, L = measuring length in mm) (Inch).

Travel of micrometer head: 50mm/2"

Range	Extension rods	Model No.
1000-1050mm	Micrometer head	604-0851
1000-2000mm	50mm, 100mm (2pcs.), 200mm, 500mm	604-0852
1000-3000mm	50mm, 100mm (2pcs.), 200mm, 500mm, 1000mm	604-0853
1000-4000mm	50mm, 100mm (2pcs.), 200mm, 500mm, 1000mm (2pcs.)	604-0854
1000-5000mm	50mm, 100mm (2pcs.), 200mm, 500mm, 1000mm (3pcs.)	604-0855



Range	Extension rods	Model No.
40-42"	Micrometer head	604-0861
40-80"	2", 4" (2 pcs.), 8", 20"	604-0862
40-120"	2", 4" (2pcs.), 8", 20", 40"	604-0863
40-160"	2", 4" (2pcs.), 8", 20", 40" (2pcs.)	604-0864
40-200"	2", 4" (2pcs.), 8", 20", 40" (3pcs.)	604-0865

Feature:

- The combining of extension rods provides a wide measuring range.
- Carbide measuring faces.
- Supplied with a standard calliper gage for zero setting.
- Diameter of extension rods: $\varnothing 22\text{mm}$.
- Accuracy: Metric $(\pm 0.0005 (L/50))$ in, Inch $(\pm 0.0005 (L/16))$; (L = sum bar of rod, L = measuring length in mm) (Inch).
- Resolution: 0.01mm (Metric); 0.001" (Inch).

Range	Extension rods	Model No.
150-175mm	Micrometer head	604-0871
150-1400mm	25mm, 50mm (2pcs.), 100mm, 200mm, 400mm (2pcs.)	604-0872
150-2000mm	25mm, 50mm (2pcs.), 100mm, 200mm (2pcs.), 400mm (3pcs.)	604-0873
150-2100mm	25mm, 50mm (2pcs.), 100mm (2pcs.), 200mm (2pcs.), 400mm (3pcs.)	604-0874



Range	Extension rods	Model No.
6-7"	Micrometer head	604-0881
6-56"	1", 2" (2pcs.), 4", 8", 16" (2pcs.)	604-0882
6-80"	1", 2" (2pcs.), 4", 8" (2pcs.), 16" (3pcs.)	604-0883
6-84"	1", 2" (2pcs.), 4" (2pcs.), 8" (2pcs.), 16" (3pcs.)	604-0884

Tubular Type & Single Body



- Chrome-plated.
- Carbide measuring faces.
- Laser engraved graduations.

Metric

Range	Grad.	Model No.
100-125mm	.01mm	600-6512
125-150mm	.01mm	600-6513
150-175mm	.01mm	600-6514
175-200mm	.01mm	600-6515
200-225mm	.01mm	600-6516
225-250mm	.01mm	600-6517
250-275mm	.01mm	600-6518
275-300mm	.01mm	600-6519

Micrometer Head

MICROMETER HEADS

Ratchet Stop Micrometer Heads



Metric

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

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

Inch

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

Ratchet Friction Thimble Micrometer Heads



Metric

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

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

Inch

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

Read Out Micrometer Heads



- Direct digital reading.
- Carbide measuring faces.

Range	Graduations	Model No.
0-1"	.00005"	600-7951
0-2"	.00005"	600-7952
0-25mm	.001mm	600-7925
0-50mm	.001mm	600-7950

Mini-Micrometer Heads



0-5mm(0-.2")



0-6.5mm(0-.25")

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



0-13mm(0-.5")



0-13mm(0-.5")-Spherical Face

Metric

Range	Grad.	Install Dimension	Total Length	Spindle Diameter	Model No.
0-5mm	.01mm	3.5x5mm	32mm	2mm	601-9105
0-5mm	.01mm	3.5x5mm	32mm	2mm	601-9106
0-6.5mm	.01mm	6x6mm	37mm	3.5mm	601-9165
0-6.5mm	.01mm	6x6mm	37mm	3.5mm	601-9166
0-13mm	.01mm	9.5x9.5mm	58.5mm	5mm	601-9113
0-13mm	.01mm	9.5x9.5mm	58.5mm	5mm	601-9114
0-15mm	.01mm	9.5x9.5mm	61mm	5mm	601-9115

Inch

Range	Grad.	Install Dimension	Total Length	Spindle Diameter	Model No.
0-.2"	.001"	3.5x5mm	32mm	2mm	601-9120
0-.2"	.001"	3.5x5mm	32mm	2mm	601-9121
0-.25"	.001"	6x6mm	37mm	3.5mm	601-9125
0-.25"	.001"	6x6mm	37mm	3.5mm	601-9126
0-.5"	.001"	9.5x9.5mm	58.5mm	5mm	601-9150
0-.5"	.001"	9.5x9.5mm	58.5mm	5mm	601-9151
0-.6"	.001"	9.5x9.5mm	61mm	5mm	601-9160
0-.6"	.001"	9.5x9.5mm	61mm	5mm	601-9161

Inside Micrometer

MICROMETER HEADS Continued

Quick Feeding Micrometer Heads

Ratchet Stop

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



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

Quick Feeding Micrometer Heads

Ratchet Friction Thimble

- Carbide measuring faces
- Laser engraved graduations.



- Flat or spherical measuring faces.

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

Non-Rotating Spindle Micrometer Heads

Ratchet Stop



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

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

Non-Rotating Spindle Micrometer Heads

Ratchet Friction Thimble



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

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

Parallax Free Micrometer Heads

Ratchet Stop



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

- Carbide measuring faces

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

Parallax Free Micrometer Heads

Ratchet Friction Thimble



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

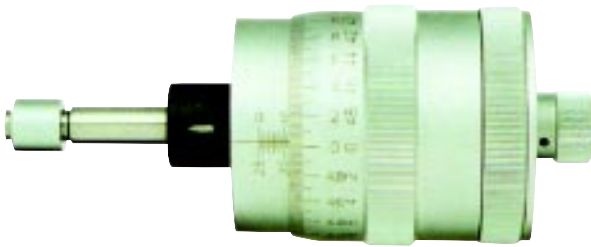
- Carbide measuring faces

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

Micrometer Head

MICROMETER HEADS Continued

Fine Reading Micrometer Heads



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

- 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"	.0001"	18x14mm	119mm	601-9701	601-9711	601-9721	601-9731
0-2"	.0001"	18x14mm	148mm	601-9702	601-9712	601-9722	601-9732
0-25mm	.002mm	18x14mm	119mm	601-9705	601-9715	601-9725	601-9735
0-50mm	.002mm	18x14mm	148mm	601-9706	601-9716	601-9726	601-9736

Digital Micrometer Heads Ratchet Stop

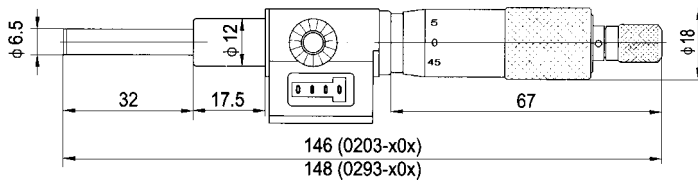


- Mechanical digital counter for quick and error-free reading.

- Carbide measuring faces
- Flat or spherical measuring faces.

Range	Grad.	Install Dimension	Install Dimension	Model No.
0-1"	.0001"	12x17mm	12x17mm	601-9766
0-25mm	.01mm	12x17mm	12x17mm	601-9765

Digital Micrometer Heads Ratchet Friction Thimble



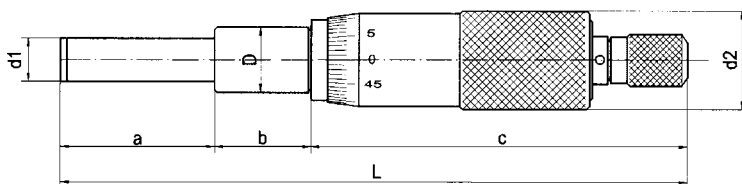
- Mechanical digital counter for quick and error-free reading.

- Carbide measuring faces
- Flat or spherical measuring faces.

Range	Grad.	Install Dimension	Total Length	Model No.
0-1"	.0001"	12x17mm	148mm	601-9776
0-25mm	.01mm	12x17mm	148mm	601-9775

Micron Micrometer Heads

- Ratchet stop.

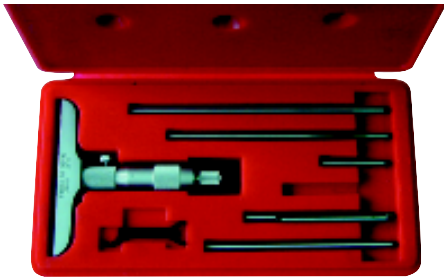


Range	Graduation	Model No.
0-1"	.00005"	600-7551
0-2"	.00005"	600-7552
0-50mm	.001mm	600-7550

Depth Micrometer

DEPTH MICROMETERS

A Type



- Spherical end (flat end available).
- High accuracy interchangeable rods.

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

- Ratchet stop (friction thimble or ratchet friction thimble available).

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

B Type



- Ratchet stop (friction thimble or ratchet friction thimble available).

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

- Spherical end (flat end available).
- High accuracy interchangeable rods.

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

Digit Depth Micrometer

Features:

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



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

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

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

Digital Electronic Depth Micrometers

Features:

- With 5 keys Deluxe Model micrometer head.
- Spherical end (flat end available).
- High accuracy interchangeable rods.
- Friction thimble (Ratchet friction thimble available).
- .00005"/.001mm.



		No. Of		4"/101.5mm	2-1/2" / 63mm
Range		Rods	Model No.	Model No.	
0-1"/0-25mm		1	602-3311	602-3301	
0-2"/0-50mm		2	602-3312	602-3302	
0-4"/0-100mm		4	602-3314	602-3304	
0-6"/0-150mm		6	602-3316	602-3306	
0-8"/0-200mm		8	602-3318	602-3308	
0-12"/0-300mm		12	602-3319	602-3309	

Digit Depth Micrometer



		No. Of		2-1/2" Base	4" Base
Range	Grad.	Rods	Model No.	Model No.	
0-1"	.0001"	1	603-3401	603-3411	
0-2"	.0001"	2	603-3402	603-3412	
0-4"	.0001"	4	603-3404	603-3414	
0-6"	.0001"	6	603-3406	603-3416	
0-8"	.0001"	8	603-3408	603-3418	
0-12"	.0001"	12	603-3409	603-3419	

		No. Of		63mm Base	101.5mm Base
Range	Grad.	Rods	Model No.	Model No.	
0-25mm	.002mm	1	603-3421	603-3431	
0-50mm	.002mm	2	603-3422	603-3432	
0-100mm	.002mm	4	603-3424	603-3434	
0-150mm	.002mm	6	603-3426	603-3436	
0-200mm	.002mm	8	603-3428	603-3438	
0-300mm	.002mm	12	603-3429	603-3439	

Depth Micrometer & Parts

DIGITAL DEPTH MICROMETERS



- With interchangeable anvils for wide range measurements.
- Micrometers need not be set zero again after precision anvils are interchanged.
- Zero setting at any position.
- With data output interface.
- Origin setting.

Range (mm)	Resolution (mm)	L (mm)	Accuracy (mm)	Anvil pieces	Model No.
0-25	0.001	63	±0.004	1	602-1025
0-50	0.001	100	±0.005	2	602-1050
0-75	0.001	100	±0.006	3	602-1075
0-100	0.001	100	±0.006	4	602-1100
0-150	0.001	100	±0.007	6	602-1150
0-200	0.001	100	±0.007	8	602-1200
0-300	0.001	100	±0.008	12	602-1300

DIAL DEPTH GAGES



FEATURES

- With several different measuring rods, can measure in a large range.

Grad.	Range	L	Model No.
0.01mm	0-100mm	With 9 rods 10-90mm, step by 10mm	605-0010
0.001"	0-6"	With 5 rods, step by 1in	605-0012
0.001"	0-12"	With 11 rods, step by 1in	605-0014

Standards for Interchangeable Anvil Micrometers



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

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



USB Convert to serial port(RS232)

- Cable length 2m
- Use to connect SPC connecting cable

Model No. 604-P1201

Square

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: .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: .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

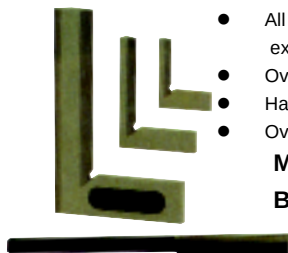
With Bevel Edge, Accuracy Class H



- **Accuracy: .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



- 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**

CYLINDRICAL SQUARES



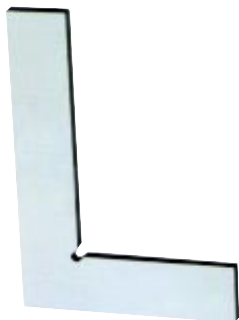
- Use in surface plates as 90° reference angle
- Used for checking square, height gages and many instruments
- The square are hardened and the ends are lapped to 90° angular accuracy with the cylinders as follows: 6" square to 0.0001" and 12" square to +/-0.00015"

Dimensions	Height	Squarness	Model No.
3"	6"	+/-0.00010"	418-1903
4"	12"	+/-0.00015"	418-1904

Square

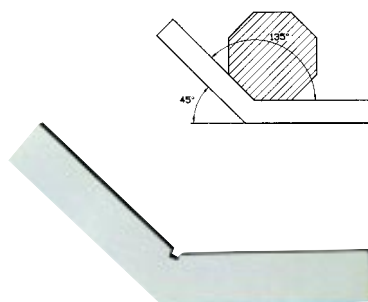
DIN 875 SQUARES

90° FLAT SQUARES



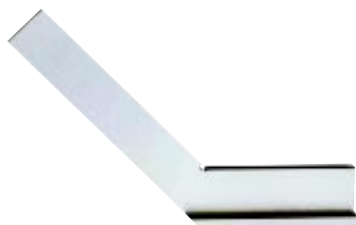
Range	Grade 0		Grade 1		Grade 2	
	Carbon Steel	Stainless Steel	Carbon Steel	Stainless Steel	Carbon Steel	Stainless Steel
	Model No.	Model No.	Model No.	Model No.	Model No.	Model No.
50x40mm	639-4105	638-4105	639-4205	638-4205	639-4305	638-4305
75x50mm	639-4110	638-4110	639-4210	638-4210	639-4310	638-4310
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



Range	135°				120°			
	Grade 1 Carbon Steel	Grade 1 Stainless Steel	Grade 2 Carbon Steel	Grade 2 Stainless Steel	Grade 1 Carbon Steel	Grade 1 Stainless Steel	Grade 2 Carbon Steel	Grade 2 Stainless Steel
	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



Range	135°				120°			
	Grade 1 Carbon Steel	Grade 1 Stainless Steel	Grade 2 Carbon Steel	Grade 2 Stainless Steel	Grade 1 Carbon Steel	Grade 1 Stainless Steel	Grade 2 Carbon Steel	Grade 2 Stainless Steel
	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



Range							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
	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

Square

DIN 875 SQUARES 90° KNIFE EDGE SQUARES

Black Chrome-Plated
Measuring Face



	00Grade Carbon Steel	00Grade Stainless Steel	0Grade Carbon Steel	0Grade Stainless Steel	00Grade Carbon Steel	0Grade Carbon Steel
Range	Model No.	Model No.	Model No.	Model No.	Model No.	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



	0Grade Carbon Steel	0Grade Stainless Steel	1Grade Carbon Steel	1Grade Stainless Steel	2Grade Carbon Steel	2Grade Stainless Steel
Range	Model No.	Model No.	Model No.	Model No.	Model No.	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

90° HEAVY BASE SQUARES



	0Grade Carbon Steel	0Grade Stainless Steel	1Grade Carbon Steel	1Grade Stainless Steel	2Grade Carbon Steel	2Grade Stainless Steel
Range	Model No.	Model No.	Model No.	Model No.	Model No.	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°			
	1Grade Carbon Steel	1Grade Stainless Steel	2Grade Carbon Steel	2Grade Stainless Steel	1Grade Carbon Steel	1Grade Stainless Steel	2Grade Carbon Steel	2Grade Stainless Steel
Range	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

Square

DIN 875 SQUARES

45° & 60° SQUARES WITH WIDE BASE



	45°				60°			
	1Grade Carbon Steel	1Grade Stainless Steel	2Grade Carbon Steel	2Grade Stainless Steel	1Grade Carbon Steel	1Grade Stainless Steel	2Grade Carbon Steel	2Grade Stainless Steel
Range	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

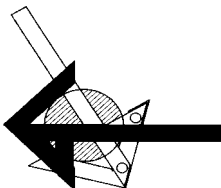
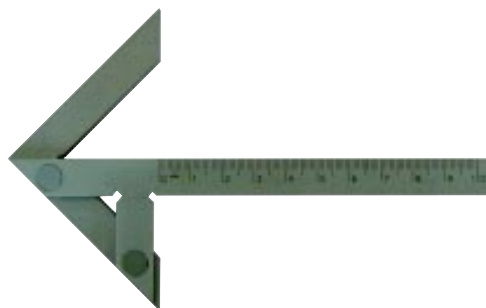
STRAIGHT EDGE RULERS, DIN874

Black Chrome-Plated Measuring Face



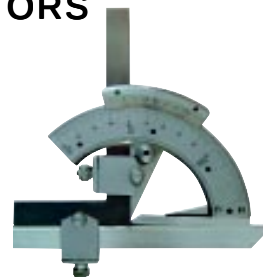
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Range	Model No.	Model No.	Model No.	Model No.	Model No.	Model No.
50mm	639-7003	638-7003	639-7103	638-7103	639-7053	639-7153
75mm	639-7005	638-7005	639-7105	638-7105	639-7055	639-7155
100mm	639-7010	638-7010	639-7110	638-7110	639-7060	639-7160
125mm	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



	Carbon Steel	Stainless Steel
Range	Model No.	Model No.
100x70mm	639-2410	638-2410
150x130mm	639-2415	638-2415
200x150mm	639-2420	638-2420
250x160mm	639-2425	638-2425
300x180mm	639-2430	638-2430

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	Stainless Steel
Dia. of Protractor	Length of Blade	Model No.	Model No.
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



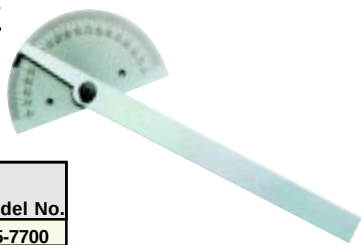
		Chrome- Plated Tool Steel	Stainless Steel
Dia. of Protractor	Length of Blade	Model No.	Model No.
80mm	120mm	635-8010	635-8110
120mm	150mm	635-8015	635-8115
150mm	200mm	635-8020	635-8120
200mm	300mm	635-8025	635-8125

Square

LOCKING TYPE PROTRACTORS

Carbon Steel

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



BEVEL PROTRACTORS

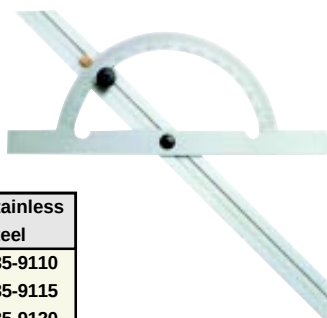
Stainless Steel

Range	Model No.
0-180°	635-7800



ADJUSTABLE PROTRACTORS

Measuring Range: 10-170°

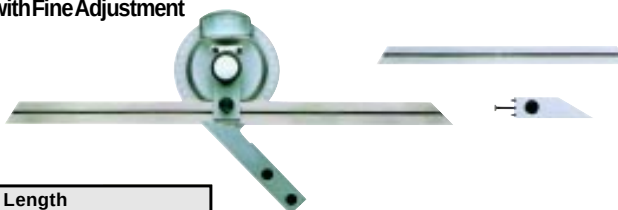


Range	Chrome-Plated Tool Steel	Stainless Steel
100-150mm	635-9010	635-9110
150-300mm	635-9015	635-9115
200-400mm	635-9020	635-9120
250-500mm	635-9025	635-9125
300-600mm	635-9030	635-9130

PARALLAX LESS UNIVERSAL BEVEL PROTRACTORS

Stainless Steel, Measuring Range 0-360°

with Fine Adjustment



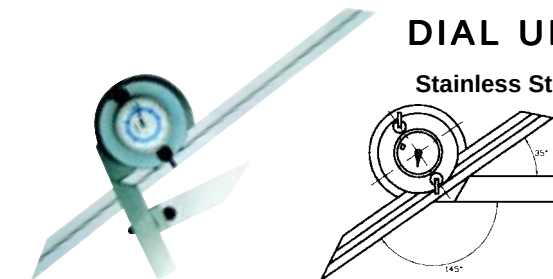
Length of Blade	Model No.
150mm/6"	635-6552
200mm/8"	635-6554
300mm/12"	635-6557

Sets

Descriptions	Model No.
150, 200, 300mm Additional Blade	635-6508

DIAL UNIVERSAL BEVEL PROTRACTORS

Stainless Steel, Measuring Range 0-360°



Set

Description	Model No.
150, 200, 300mm Additional Blade	635-6604

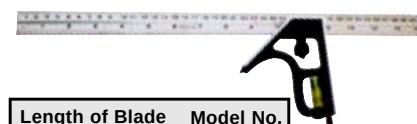
Length of Blade	Model No.
150mm/6"	635-6601
200mm/8"	635-6602
300mm/12"	635-6603

COMBINATION SQUARES

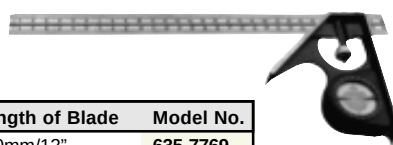
2PC/set, Stainless Steel Blade, Measuring Range 0-180°

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

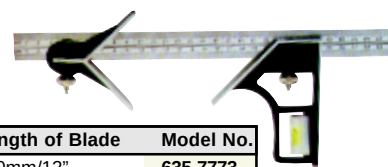
3PC/set, Stainless Steel Blade, Measuring Range 0-180°



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



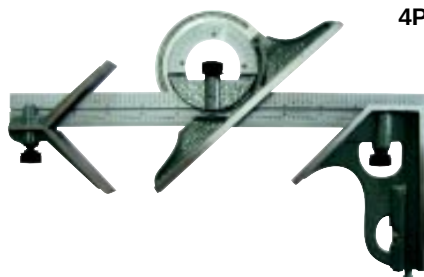
Length of Blade	Model No.
300mm/12"	635-7769
500mm/20"	635-7770
300mm	635-7771
500mm	635-7772



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.
12"	Double-Side with 4 grad: 1/8, 1/16, 1/32 & 1/64"	638-7756
300mm	Single-Side with 2 grad: 0.5mm/1.0mm	638-7763
500mm	Single-Side with 2 grad: 0.5mm/1.0mm	638-7760
300mm/12"	Single-Side with 2 grad: 0.5mm/1/32"	638-7761
300mm/12"	Double-Side with 4 grad: 1.0mm/1/64" and 0.5mm/1/32"	638-7754
500mm/20"	Single-Side with 2 grad: 0.5mm/1/32"	638-7762
500mm/20"	Double-Side with 4 grade: 1.0mm/1/64" and 0.5mm/1/32"	638-7764

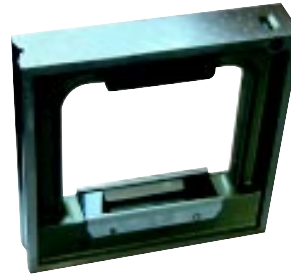
MASTER PRECISION LEVELS

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 .0002" per 10", .0005" per 10", .02mm per 1000mm, .05mm per 1000mm.
- 2 Side with flat bearing surfaces and 2 sides with flat plus Vee bearing surfaces.
- Heat insulating top handle.

Inch			Metric		
	.0002" per 10"	.0005" per 10"		.02mm per 1000mm	.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



OPTICAL COMPOSITE IMAGE LEVEL

The optical composite image level is widely used in measuring the gradients of flat surface and cylindrical surface to horizontal direction, the planeness and straightness of slideway or base of machine tool or optical mechanical instrument as well as the correctness of installing position of equipment.

Specification	Measuring Capacity	Graduation value	Model No.
165x47mm	0-10mm	0.01mm	639-3850

- Waterproof: IP54
- Measuring plane containing disk magnet can stick to the surface measured
- Automatic shut off after 5 minutes
- Compact Dimension (2"x2"x1.3")

BEVEL BOX

Whole metal shell Model No. 700-0015

Plastic panel Model No. 700-0025



Specifications

Resolution	0.1 mm
Repeatability	0.1 mm
Measuring Range	180° (0-360°)
Working current	<100 mA
Work temperature	+5°C ~ +50°C
Work humidity	85%RH
Power	3V Cr2032 Lithium battery
Battery Life	more than 2000 hours

LEVEL BOX

- Conversion between absolute measurement and relative measurement
- Hold function to freeze measurements
- Automatic shut off after 5 minutes
- In horizontal measuring, the accuracy is more higher with the highly accurate bobble
- Easy to calibrate with highly accurate bobble
- Compact structure, easy to expand the measuring range by combining with other tools

Specifications

Resolution	0.1 mm
Repeatability	0.1 mm
Accuracy of level bubble	2'/6"
Range	180° (0-360°)
Working current	<100 mA
Work temperature	+5°C ~ +50°C
Work humidity	85%RH
Power	3V Cr2032 Lithium battery
Battery Life	more than 2000 hours



Whole metal shell Model No. 700-0010

Plastic panel Model No. 700-0020

Digital Protractor

MINI DIGITAL PROTRACTOR

- Full 360° range (90° x 4)
- Resolution: 0.05°/0.01%
- With magnets in measuring face
- Large LCD display reads upright at any angle
- Degree/slope conversion
- Absolute measurement and reference measurement conversion
- Measure data holding
- Battery type: 3V CR2032x3
- Working temp.: 0-40°C



Type A
Accuracy: $\pm 0.1^\circ$
Model No. 700-0006



Type B
Accuracy: $\pm 0.1^\circ$
Model No. 700-0007



Type C
Accuracy: $\pm 0.05^\circ$
Model No. 700-0008

DIGITAL PROTRACTOR

Type A



Alluminum Framework Model No. 700-0001
Stainless Steel Model No. 700-0002



- Full 360° range (90° x 4)
- Easy to read LCD display which intelligently flips over when the unit is upside down
- Stainless steel frame
- Unit can be recalibrated without special tools
- 3-in-1 measuring tool, angle finder, protractor, level

Specifications

Resolution	0.1°
Accuracy	0° and 90° $\pm 0.1^\circ$ the rest $\pm 0.2^\circ$
Range	4x90° (0-360°)
Working current	<100 mA
Work temperature	+5°C ~ +50°C
Work humidity	85% RH
Power	3V CR2032 Lithium battery
Battery Life	more than 2000 hours

- Full 360° range (90° x 4)
- Accuracy: $\pm 0.05^\circ$
- Resolution: 0.05°/0.01%
- Large LCD display reads upright at any angle
- With backlight and buzzer
- Degree/slope conversion
- Absolute measurement and reference measurement conversion
- Measure data holding
- Battery type: 3V CR2032x3
- Working temp.: 0-40°C
- Auto power off



Type B
Model No. 700-0030



Type C
Flat basic, with magnets
Model No. 700-0031



Type D
V- basic, with magnets
Model No. 700-0032

DIGITAL LEVEL MODULE

Specifications

Resolution	0.1°
Accuracy	0° and 90° $\pm 0.1^\circ$ the rest $\pm 0.2^\circ$
Range	4x90° (0-360°)
Working current	<100 mA
Work temperature	+5°C ~ +50°C
Work humidity	85% RH
Power	3V CR2032 Lithium battery
Battery Life	more than 2000 hours



The bottom is stainless steel plate and has screw on the center

- Measuring range: 0-180°
- Hold function to freeze measurements;
- Backlight function;
- Conversion between absolute measurement and relative measurement
- Automatic shut off after 5 minutes

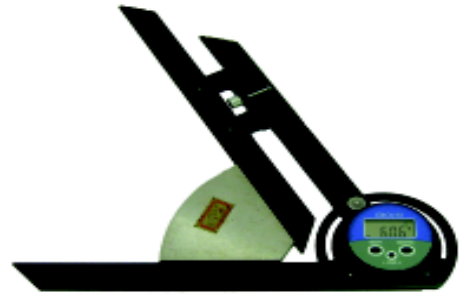
Model No. 700-0005

D ANGLE FINDER

Specifications	
Resolution	0.1°
Repeatability	0.1°
Working current	<100 mA
Work temperature	+5°C~+50°C
Work humidity	≤85%RH
Power	3V Cr2032 Lithium battery
Battery Life	more than 2000 hours

Model No. 635-0210

- Measuring range: 0-180°
- Waterproof: IP54
- Lock the blade in any angle during measuring
- Hold function to freeze measurements



UNIVERSAL DIGITAL PROTRACTOR

Specifications	
Accuracy	±5'
Material	Stainless steel throughout
The blade	150mm, 300mm
Contact force	1.5N or less
Work temperature	+5°C~+50°C
Power	3V Cr2032 Lithium battery
Battery Life	more than 2000 hours

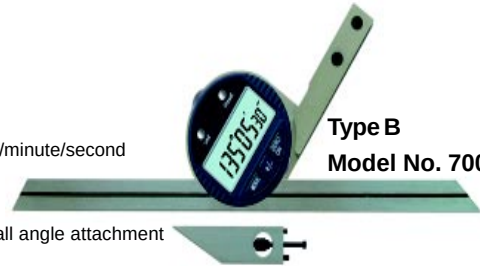
- Measuring range 0-360°
- Double resolutions 0.001°/30"
- Made of stainless steel throughout
- All measuring faces is finished
- With fine-adjustment
- With acute angle attachment

Type A
Model No. 635-0200



Blade Length	Range	Resolution	Model No.
150mm	1x360°	30" (0.08°)	639-0220
200mm	2x180°	30" (0.08°)	639-0225
300mm	4x90°	30" (0.08°)	639-0230

- Display in degree and degree/minute/second
- Measure data holding
- Zero setting at any angle
- With fine-adjustment and small angle attachment
- Repeatability: 1°
- Working Temp. 0-40°C



Type B
Model No. 700-0030

DIGITAL LEVEL

- Measuring range: 0-180°
- Hold function to freeze measurements;
- Backlight function;
- Conversion between absolute measurement and relative measurement
- Automatic shut off after 5 minutes



Specifications	
Resolution	0.1°
Accuracy	0.1° and 90° ±0.1° the rest ±0.2°
Range	4x90° (0-360°)
Working current	<100 mA
Work temperature	+5°C~+50°C
Work humidity	≤85%RH
Power	3V (1.5Vx2) alkaline battery

	Without Laser	With Laser
Length	Model No.	Model No.
600mm	638-0206	639-0206
800mm	638-0208	639-0208
1000mm	638-0210	639-0210
1200mm	638-0212	639-0212

Angle Tools

ELECTRONIC SPIRIT LEVEL

- Large LCD; Backlight for easy reading in darkness place.
- Beeper will sound at 0° 10° 20° 30° 40° 50° 60° 70° 80° 90°
- Display always reads upright, no matter which way the unit is turned.
- Manual ON/OFF, auto power off.
- Degree and slope conversion.
- Absolute /relative measurement conversion.
- Measure data holding
- Low battery warning.
- Battery Type: one 9V battery(included)
- Working temp.: 40°C

Resolution: 0.05°/0.01%

Length	Model No.
400mm	638-0304
600mm	638-0306
800mm	638-0308
1000mm	638-0310
1200mm	638-0312



DUAL DISPLAY ELECTRONIC SPIRIT LEVEL

- Large LCD display reads upright at any angle
- With backlight and buzzer
- Absolute measurement and reference measurement conversion
- Degree/slope conversion
- Measure data holding
- Degree, mm/m and slope conversion with data storage capabilities.
- Resolution: 0.05°/0.01%/0.01mm/m, basic length: 150mm
- Battery type: 3v CR2032x3



Model No. 700-0033

ANGLE FINDER

Specifications

Resolution	0.05°/3'
Accuracy	0.1°
Measuring Range	360°
Working Current	<80 mA
Work Temperature	+5°C~+45°C
Work Humidity	<85%RH
Length	254mm(10")
Waterproof	IP54
Power	3V CR2032 Lithium battery
Battery Life	more than 2000 hours

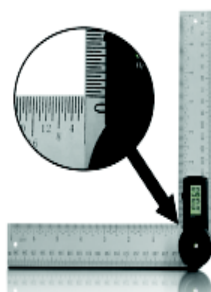
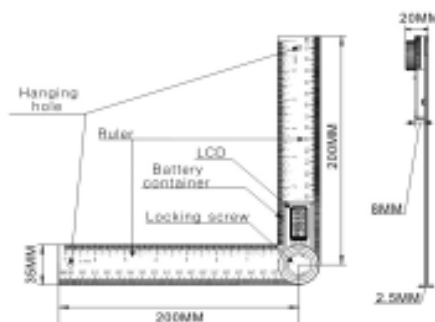
- Measuring range 0°~360°
- Double resolutions 0.001°/30"
- Made of stainless steel throughout
- All measuring faces is finished
- With fine-adjustment
- With acute angle attachment

Model No. 635-0215



Lock the moving blade at any angle, make precise drawing and cutting directly

2 IN 1 DIGITAL ANGLE RULE



- Measuring range 000.0°~999.9°
- Resolutions 0.1°
- Working humid: <85%RH
- Working current: <100 mA
- Accuracy: 0.3°
- Battery type: 3v CR2032

Model No. 635-0216



Measuring Tools Sets

MEASURING TOOL SETS

2 PIECE IN PLASTIC BOX



A-Type Feature:

- One 0-150MM/6" digital caliper(Grad0.01mm/0.0005")
- 7 keys model micrometer 0-25mm/1"(Grad.0.001mm/0.0001")

Model No. 135-1000



B-Type Feature:

- One 0-150MM/6" digital caliper(Grad0.01mm/0.0005")
- 2 keys model micrometer 0-25mm/1"(Grad.0.001mm/0.0001")

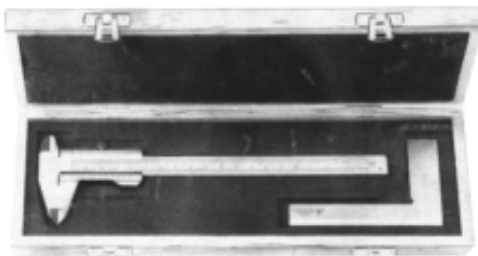
Model No. 135-1001



C-Type Feature:

- One 0-150MM/6" digital caliper(Grad0.01mm/0.0005")
- 2 keys model micrometer 7.6-33mm/0.3-1.3""(Grad.0.001mm/0.0001")

Model No. 135-1002



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

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

B-Type

- One 6" Vernier Caliper
- Graduation:1/128"
- One 90° Knife Edge Square
- DIN 875/1, 100x70mm

Model No. 135-2002



C-Type Feature:

- One 6" Vernier Caliper
- Graduation:1/128"
- One 0-1" Outside Micrometer

Model No. 135-2003

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

D-Type Feature:

- One 0-150mm Vernier Caliper
- Mono-Block, Thumb lock, .05mm
- One 0-25mm Outside Micrometer

Model No. 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

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

B-Type Feature:

- One 0-6"mm Vernier Caliper
- Graduation: 1/128"
- One 0-1" Outside Micrometer
- One .2"-1.2" Inside Micrometer

Model No. 135-3002

Measuring Tool sets

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, .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

C-Type Feature:

One 0-150mm Dial Caliper
 • Graduation .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

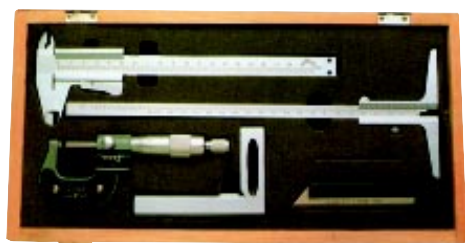
B-Type Feature:

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

D-Type Feature:

One 6" Dial Caliper
 • Graduation .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, .05mm
 One 0-25mm Digital Readout Outside Micrometer
 One 0-200mm Depth Gauge
 • Graduation .05mm
 One 90° Knife Edge Square
 • DIN 875/1, 100x70mm
 One Straight Edge Ruler
 • DIN 874/0, 100mm
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
 • Graduation 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:

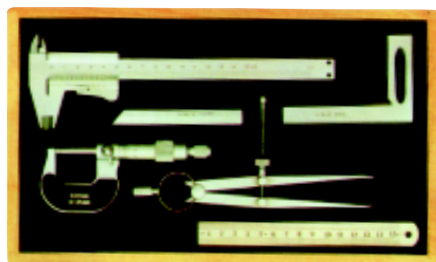
One 0-150mm Vernier Caliper
 • Mono-Block, Thumb lock, .05mm
 One 0-25mm Outside Micrometer
 One 90° Knife Edge Square
 • DIN 875/1, 100x70mm
 One 150MM/6" Stainless Steel Ruler
 One Steel Scriber
Model No. 135-5003

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, .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.

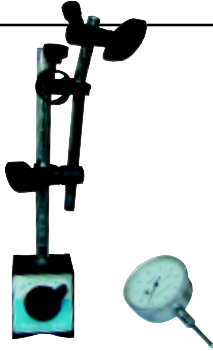
Inspection Tool sets

SET-UP AND INSPECTION TOOL KITS



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 indicator	10W-S006 605-4070	135-CP16



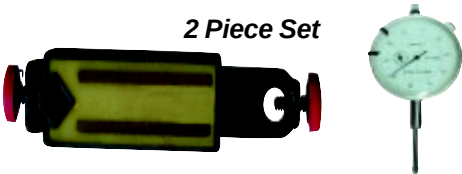
2 Piece Set

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



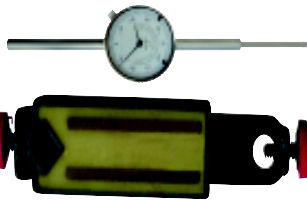
2 Piece Set

Set Model No.	Specification	Individual Model No.	Plastic case Model No.
135-0020	●.03x.0005" White face test indicator ●Mini universal magnetic indicator holder 12kg/25Lbs	605-4710 625-0582	135-CP02



2 Piece Set

Set Model No.	Specification	Individual Model No.
135-0021	●0-1" White face Dial indicator ●Magnetic base indicator holder 4"x1"x1"	605-4070 625-0450



2 Piece Set

Set Model No.	Specification	Individual Model No.
135-0022	●0-2" White face Dial indicator ●Magnetic base indicator holder 4"x1"x1"	605-4205 625-0450



2 Piece Set

Set Model No.	Specification	Individual Model No.	Plastic case Model No.
135-0023	●60kg Magnetic base W/fine adj. ●.03x.0005" White face test indicator	625-0341 605-4710	135-CP02

Inspection Tool sets



2 Piece Set

Set Model No.	Specification	Individual Model No.	Plastic case Model No.
135-0024	●30kg Magnetic base W/fine adj. ●.03x.0005" White face test indicator	625-0590 605-4710	135-CP02



2 Piece Set

Set Model No.	Specification	Individual Model No.	Plastic case Model No.
135-0025	●60kg pull with fine adjustment ●0-1" White face dial indicator	625-3341 605-4070	135-CP02



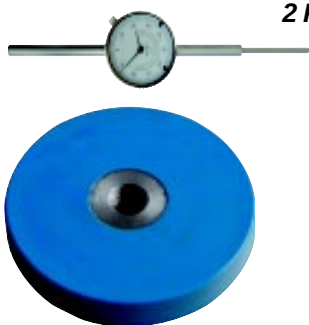
2 Piece Set

Set Model No.	Specification	Individual Model No.	Plastic case Model No.
135-0026	●60kg pull, arm330mm, base63x50x55mm ●0-1" White face dial indicator	625-1361 605-4070	135-CP02



2 Piece Set

Set Model No.	Specification	Individual Model No.
135-0027	●uni-mag direct mounting 2-1/4"dia.x9/16"height ●0-1" White face dial indicator	625-0451 605-4070



2 Piece Set

Set Model No.	Specification	Individual Model No.
135-0028	●uni-mag direct mounting 2-1/4"dia.x9/16"height ●0-2" White face dial indicator	625-0451 605-4205



2 Piece Set

Set Model No.	Specification	Individual Model No.
135-0029	●Flexible stem magnetic stand Magnetic force is 15kg ●.03x.0005" White face test indicator	625-0850 605-4710

Inspection Tool sets



2 Piece Set

Set Model No.	Specification	Individual Model No.
135-0030	● Test indicator holder arm ● .03x.0005" White face test indicator	625-1501 605-4710



2 Piece Set

Set Model No.	Specification	Individual Model No.
135-9999	● 0-12"/300mm Vernier height gage ● 12x18x3" B-0 Granite surface plate	622-8512 640-0120



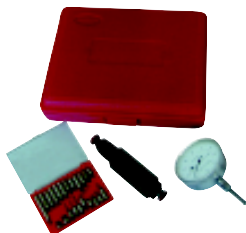
2 Piece Set

Set Model No.	Specification	Individual Model No.	Plastic case Model No.
135-0014	● .03x.0005" White face test indicator ● 1-7/8" test indicator holder	605-4710 625-8522	135-CP14
135-0015	● .03x.0005" Black face test indicator ● 1-7/8" test indicator holder	605-4709 625-8522	135-CP14



3 Piece Set

Set Model No.	Specification	Individual Model No.	Plastic case Model No.
135-0006	● 0-1" White face dial indicator ● 60kg Magnetic base W/fine adj. ● 22-pc Indicator point set	605-4070 625-0341 605-0022	135-CP02
135-0007	● 0-1" Black face Dial indicator ● 60kg Magnetic base W/fine adj. ● 22-pc Indicator point set	605-4080 625-0341 605-0022	135-CP02



3 Piece Set

Set Model No.	Specification	Individual Model No.	Plastic case Model No.
135-0010	● White face 1" dial indicator ● 22-pc Indicator point set ● Mighty Magnetic base	605-4070 605-0022 625-0450	135-CP10
135-0011	● Black face 1" Dial indicator ● 22-pc Indicator point set ● Mighty Magnetic base	605-4080 605-0022 625-0450	135-CP10

Inspection Tool sets

3 Piece Set



Set Model No.	Specification	Individual Model No.	Plastic case Model No.
135-0008	●0-6" Black face Dial caliper	10B-S006	135-CP08
	●.03x.0005" Black face test indicator	605-4709	
	●0-1x.0001" Outside micrometer	601-0111	
135-0009	●0-6" White face Dial caliper	10W-S006	135-CP08
	●.03x.0005" White face test indicator	605-4710	
	●0-1x.0001" Outside micrometer	601-0111	

4 Piece Set



Set Model No.	Specification	Individual Model No.
135-5030	●81pc Grade B steel rectangular gage block	630-4115
	●12x18x3 Grade B surface plate	640-0120
	●12" Vernier height gage	622-8512
	●.03x.0005" White face test indicator	605-4710
135-5031	●81pc Grade B steel rectangular gage block	630-4115
	●12x18x3 Grade B surface plate	640-0120
	●12" Vernier height gage	622-8512
	●.03x.0005" Black face test indicator	605-4709

6 Piece Set



Set Model No.	Specification	Individual Model No.	Plastic case Model No.
135-0012	●0-6" White face Dial caliper	10W-S006	135-CP12
	●0-1" White face Dial indicator	605-4070	
	●.03x.0005" White face test indicator	605-4710	
	●0-1x.0001" Outside micrometer	601-0111	
	●60kg Magnetic base W/fine adj.	625-0341	
	●22-pc Indicator point set	605-0022	
135-0013	●0-6" Black face Dial caliper	10B-S006	135-CP12
	●0-1" Black face Dial indicator	605-4080	
	●.03x.0005" Black face test indicator	605-4709	
	●0-1x.0001" Outside micrometer	601-0111	
	●60kg Magnetic base W/fine adj.	625-0341	
	●22-pc Indicator point set	605-0022	

6 Piece Set



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

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



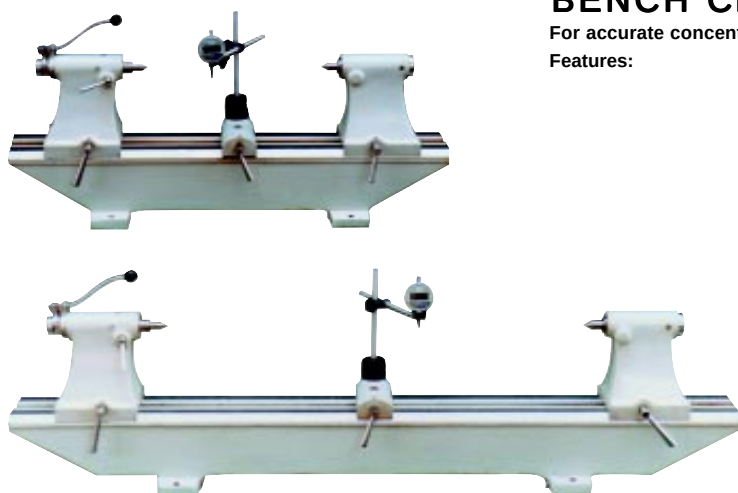
Bench Center & Display

BENCH CENTER

For accurate concentricity inspection.

Features:

- Accuracy: 0.00015" run-out
- Quick release centers.
- M.T.2 Centers are hardened and ground.
- Indicator holder included.
- Hand Scraped ways, adjustable gibs.
- Head Stock can be adjusted lengthwise and locked securely in any position by special lever type handle.



Distance Between Center	Swing	Overall Length	Model No.
16"	12"	30"	640-2001
20"	12"	30"	640-2003
24"	12"	40"	640-2004
32"	19"	48"	640-2002

DIGITAL INDICATOR

For Digital Measuring Tools

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

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 INCLUDE

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	

DIGITAL MICROPROCESSOR(PRINTER)

Model No.100-0300

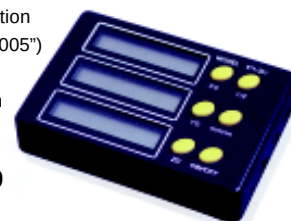
Power 110V or 220V



- Can print out the following data:
 - number of data
 - Average
 - Histogram
 - Standard deviation
 - Max/Min value
- Can perform statistical analysis automatically and print out a histogram
- Can connect capacitive digital calipers and micrometer
- Fitted with a foot switch
- Horizontal type

LCD DISPLAY UNIT

- Can display X,Y,Z coordinate data simultaneously
- X-axis data is twice as much as actual measurement data
- Units conversion
- Zero-setting at any position
- Resolution: 0.01mm(0.0005")
- Power: 110-220V
- Signal cable: 1.5m--4.0m



Model No.100-0310

LCD DISPLAY UNIT



Display Unit

Model No.100-0305

Include Caliper sets

Model No.100-0306

- Can connect capacitive digital measuring instruments in which 150KHz quartz oscillator is built to transfer and display data.
- X-axis data is twice as much as actual measurement data
- Zero-setting at any position
- Units conversion
- Fixed at the back plate is a magnetic block which attaches on a piece of iron plate or frame to make it convenient to use
- Resolution: 0.01mm(0.0005")
- Power: 7# battery(LR03)x2
- Signal cable: 1.5m--4.0m

Projectors



Digital Caliper not include

- 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 x 1-3/10 x 2-1/2")

INTERFACE &

MICRO PRINTER SET

- Power Supply: AC adaptor (DC5V, 1.7A)
- Singnal 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)

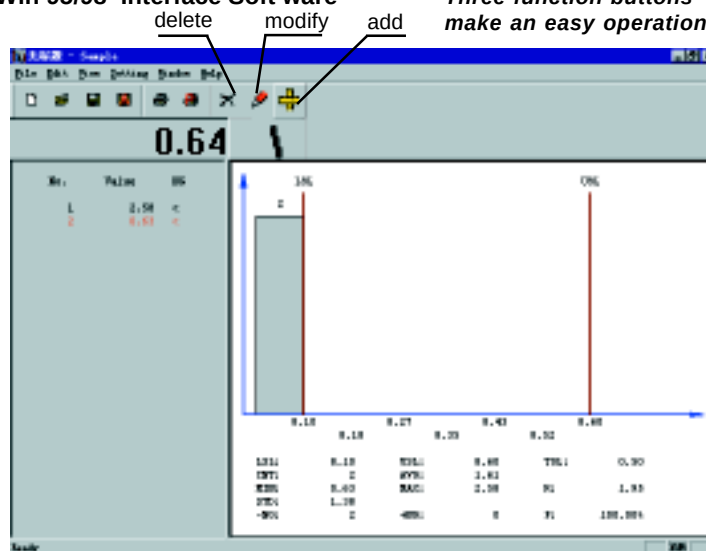


Model No. 101-0050

Interface Software

Win 95/98 Interface Software

Three function buttons make an easy operation



PROFILE PROJECTORS



Horizontal Benchtop Model

- 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

Model No. 640-2000

Projectors

HIGH PRECISION OPTICAL PROFILE PROJECTOR



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

Model No. 633-0002

Measuring System Specifications	
Coordinates:	X, Y axes linear transducer A axis rotary encode
Resolution:	0.001mm(X, Y AXES) / 0.01 μ m(A axis)
Coordinates:	X, Y and polar coordinates system
Memory:	99 features memory, 10 coordinates memory
Distortion:	Linear and non-linear compensation
I/O interface:	RS-232C I/O interface
Geometric functions:	3 points circle measurement 2 points distance measurement 2 points form a line measurement 2 lines intersection measurement 4 points line intersection measurement point line perpendicular projection

Specification	Model No.640-3000	Model No.640-3500
Table		
Table size	350x170mm	420x250mm
Glass size	230x120mm	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) μ m	(3+L/100) μ m
Screen		
Screen size	315mm	415mm
A readout range	0-360 μ m	0-360 μ m
A readout resolution	0.01 μ m	0.01 μ m
Max contour distortion	0.08%	0.08%
Lens		
Magnifications	10X 20X 50X	10X 20X 50X
Visible field (D/z)	30mm 15mm 6mm	40mm 20mm 8mm
Object focal distance	73mm 35mm 15mm	81mm 71mm 65mm

Usage

CRU-3000Z series of projectors are photoelectric measuring system of high precision and efficiency. The image on the screen is in the same direction with the work pieces. It is widely used in the trade of mechanism, meter, electricity, light industry, college, research institute and measurement-inspecting department. This instrument can inspect all kinds of surface and outline of complicated work-pieces such as template, pressing work-pieces, cam, thread, gear, milling cutter and so on.

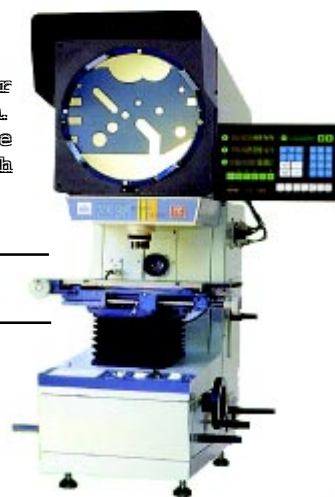
Specialities

CRU-3000Z series projector is famous for its excellent quality of the optical system. It is processed of clear image and accurate magnification. The error of the contour measuring is under 0.08% under the illumination. The indication error of the coordinate is under (3+L/75) μ m (L is the length of the work pieces to be measured, unit in mm). This instrument provides the DC-3000 data processing system and footswitch, which are convenient to output and gather the data.

Specification

Model No.	Reverse image	633-0010	633-0020	633-0030
	Erect image	633-0011	633-0021	633-0031
Working table	The metal table's size(mm)	260*152	306*152	340*152
	The glass table's size(mm)	125*100	175*100	196*96
	X-axis travel (mm)	75	100	150
	Y-axis travel (mm)	50	50	50
	Z-axis travel (mm)	90(for focus)	90(for focus)	90(for focus)
	Measuring accuracy(μ m)	3+L/75	3+L/50	4+L/25
	Resolution (X-axis, Y-axis)	0.5 (μ m)		
Projector screen	Screen size (mm)	ϕ 312 used range> ϕ 300(with the meter line)		
	Screen rotary range	0 μ m-360 μ m		
	Rotary angle resolution	1' or 0.01		
Lens	Magnification	10X(option)	20X(option)	50X(option) 100X(option)
	Object view (mm)	ϕ 30	ϕ 15	ϕ 6 ϕ 3
	Working distance (mm)	77.7	44.3	38.4 25.3
	Max. Workpiece height	90mm	90mm	90mm 90mm
Dimension	L*W*H (mm)			
Weight	Unit/kg			

Data processing system	DC-3000 multi-function data processing system, appearing in Chinese, can be used to gather the data and measure the point, line, circle, angle and distance.
illumination	The illumination of transmission and reflection: 24V/150W-halogen lamp.
Power	110V/220V(AC) 50/60Hz total power=400W
Cooling	By three fans
Option	Mini-printer, Edge detector, M2D software and so on, please refer to accessories for projector for more details



Projectors

DIGITAL MEASURING PROJECTOR

Full erect	Not be affected by upside down and division in the left and right
High precision	(3+L/75) μ m is comparable to the accuracy of the foreign similar products
Large travel	250*150*100 (for the focus)
Large load	The accuracy remains stationary under the press of 50kg
Projection box	Adjust the focus by ascending and descending
Edge detector	Automatically aim and gather the data

Specification

This series of projectors are famous. It's for excellent quality of the optical system. It is processed of clear image and accurate magnification. The error of the contour measuring is under 0.08% under the illumination of transmission. This instrument provides the foot-switch, which are convenient to gather the data. You can adjust the focus by ascending and descending the projection box. The projector is with big travel and stationary performance because the working stable doesn't ascend or descend, and the instrument can also measure the big range with high precision.



Ideal table:

Loading weight>250kg
Dimension: 800(L)*550(W)/650(H)mm

Specification

Model	Reverse image	633-0100	633-0110	633-0120
	Erect image	633-0101	633-0111	633-0121
Working table	The metal table's size(mm)	354*228	404*228	450*280
	The glass table's size(mm)	210*160	260*160	306*196
	X-axis travel (mm)	150	200	250
	Y-axis travel (mm)	100	100	150
	Z-axis travel (mm)	100(for focus)	100(for focus)	100(for focus)
	Measuring accuracy (μ m)	3+L/75	3+L/75	3+L/75
Projector screen	Resolution (X-axis, Y-axis)	0.5 μ m		
	Screen size (mm)	Ø312 used range> Ø300 (with the meter line)		
	Screen rotary range	0°~360°		
	Rotary angle resolution	1' or 0.01°		
Lens	Magnification	10X(option)	20X(option)	50X(option)
	Object view (mm)	Ø30	Ø15	Ø6
	Working distance (mm)	77.7	44.3	38.4
	Max. Working face height	100mm	100mm	100mm
Dimension	L*W*H (mm)	780*780*1100	780*780*1100	780*810*1120
Weight	Unit/kg	170	175	180
Data processing system	DC-3000 multi-function data processing system, appearing in Chinese, can be used to gather the data and measure the point, line, circle, angle and distance.			
Illumination	The illumination of transmission and reflection: 24V/150W-halogen lamp.			
Power	110V/220V (AC) 50/60Hz total power=400W			
Cooling	By three fans			
Accessories	Mini-printer(option), Edge detector(option), M2D software(option) and so on, please refer to accessories for projector for more details.			

Hardness Test



Model No. 639-2030
Mfr's# HR-150A

3R-TYPE HARDNESS TESTER HARDNESS TESTER ACCESSORIES 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 μ m Diamond Penetrator
Rockwell A Test Block (1Pc)
Rockwell B Test Block (1Pc)
Rockwell C Test Blocks (3Pc)
Screwdrivers (2Pc)
Complete instruction Manual
Dust- Proof Plastic cover

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

DIFFERENT ROCKWELL HARDNESS SCALE

Scale	Penetrator	Loading kg.	Applications	Brinell vale	Working Range
A	Diamond 120 μ m	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 100 μ m	150	Hard cast irons, pearlitic malleable iron, steel, deep case hardened steel, Titanium	Over HB230	20-70 for hardness lower than c65
D	Diamond 100 μ m	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

ROCKWELL HARDNESS TESTER



Model No. 639-2040
Mfr's# HR-150B

This tester is designed for use in measuring the Rockwell hardness of hard alloys, quenched and unquenched steels. As its frame is higher than that of conventional type, it can be used to determine the hardness of large-sized workpieces

Specifications	
Measuring range	20-88HRA, 20-100HRB, 20-70HRC
Test force	588.4. 980.7. 1471N (60. 100. 150kgf)
Max. height of test piece	400mm
Depth of throat	160mm
Min. scale value	0.5HR
Dimensions	548x 326x 1025mm
Weight	approx. 140kg

Main accessories	
Large flat anvil	1 pc
Small flat anvil	1 pc
V-notch anvil	1 pc
Diamond cone penetrator	1 pc
1/16" steel ball penetrator	1 pc
Rockwell standardized block	5 pcs

Hardness Test

DIGITAL ROCKWELL HARDNESS TESTER



Model No. 639-2041

Mfr's# HRS-150

This tester can be used to determine the Rockwell hardness of ferrous metals, nonmetal materials and their finished parts.

Specifications	
Measuring range	20-88HRA, 20-100HRB, 20-70HRC
Test force	588.4. 980.7. 1471N (60. 100. 150kgf)
Max.height of test piece	170mm
Depth of throat	130mm
Unit for display	0.1HR
Power supply	220V AC or 110V AC, 50/60Hz
Dimensions	500 x250x700mm
Weight	approx. 75kg

Main accessories	
Large flat anvil	1 pc
Small flat anvil	1 pc
V-notch anvil	1 pc
Diamond cone penetrator	1 pc
1/16" steel ball penetrator	1 pc
Rockwell standardized block	5 pcs
Printer	1 ps

MOTOR-DRIVEN ROCKWELL HARDNESS TESTER



Model No. 639-2042

Mfr's# HRD-150

This tester can be used to determine the Rockwell hardness of ferrous, nonferrous metals, nonmetal materials and their finished parts.

Specifications	
Measuring range	20-88HRA, 20-100HRB, 20-70HRC
Test force	588.4. 980.7. 1471N (60. 100. 150kgf)
Max.height of test piece	170mm
Depth of throat	130mm
Unit for display	0.5HR
Power supply	220V AC or 110V AC, 50/60Hz
Dimensions	500 x250x700mm

Main accessories	
Large flat anvil	1 pc
Small flat anvil	1 pc
V-notch anvil	1 pc
Diamond cone penetrator	1 pc
1/16" steel ball penetrator	1 pc
Rockwell standardized block	5 pcs

MOTOR-DRIVEN SUPERFICIAL ROCKWELL HARDNESS TESTER



Model No. 639-2043

Mfr's# HSRD-45

This tester can be used to determine the superficial Rockwell hardness of steel, alloy steel, hard alloy, plated coating, carburized and nitrided layers

Specifications	
Measuring range	70-91HR15N, 42-80HR30N, 20-70HR45N 73-93HR15T, 43-82HR30T, 12-72HR45T
Test force	147.1, 294.2, 441.3N (15. 30. 45kgf)
Max.height of test piece	150mm
Depth of throat	120mm
Min.scale value	0.5HRN(T)
Power supply	220V AC or 110V AC, 50/60Hz
Dimensions	500x250x700mm
Weight	approx. 75kg

Main accessories	
Large flat anvil	1 pc
Small flat anvil	1 pc
V-notch anvil	1 pc
Diamond cone penetrator	1 pc
1/16" steel ball penetrator	1 pc
Superficial Rockwell standardized block	4 pcs

DIGITAL SUPERFICIAL ROCKWELL HARDNESS TESTER

Model No. 639-2044 Mfr's# HSRS-45



This tester can be used to determine the superficial Rockwell hardness of steel, alloy steel, hard alloy, plated coating, carburized, nitrided and cyanided layers. The hardness value measured can be read off the show-window

Specifications	
Measuring range	70-91HR15N, 42-80HR30N, 20-70HR45N 73-93HR15T, 43-82HR30T, 12-72HR45T
Test force	147.1, 294.2, 441.3N (15. 30. 45kgf)
Max.height of test piece	150mm
Depth of throat	120mm
Min.scale value	0.1HRN(T)
Power supply	220V AC or 110V AC, 50/60Hz
Dimensions	500x240x700mm
Weight	approx. 68kg

Main accessories	
Large flat anvil	1 pc
Small flat anvil	1 pc
V-notch anvil	1 pc
Diamond cone penetrator	1 pc
1/16" steel ball penetrator	1 pc
Superficial Rockwell standardized block	5pcs
Printer	1pc

Hardness Test

BRINELL ROCKWELL VICKERS HARDNESS TESTER

This tester can be used to determine the Brinell, Rockwell and Vickers hardness of ferrous, nonferrous metals and hard alloys



Specifications	
Measuring range	4-450HBS, 4-650HBW, 20-88HRA, 20-100HRB, 20-70HRC, 200-1000HV
Test force	294.2, 306.5, 588.4, 612.9, 980.7, 1471, 1839N (30, 31.25, 60, 62.5, 100, 150, 187.5kgf)
Max.height of test piece	200mm
Depth of throat	160mm
Power supply	220V AC or 110V AC, 50/60Hz
Dimensions	480x 250x 760mm
Weight	approx. 95kg

Model No. 639-2045

Mfr's# HBRV-187.5

Main accessories	
Large flat anvil	1 pc
Small flat anvil	1 pc.
V-notch anvil	1 pc.
Diamond cone penetrator	1 pc.
Diamond pyramid penetrator	1 pc.
Steel ball penetrator	@ 1.588, @2.5, @5mm 1 pc each
Brinell standardized block	1 pc.
Rockwell standardized block	5 pc.
Vickers standardized block	1 pc.
40X Readout microscope	1 pc.

BRINELL HARDNESS TESTER



This tester is equipped with an electrical changeover switch. It can be used for determining the Brinell hardness of unquenched steels, castiron, nonferrous metals and soft bearing alloys, etc

Specifications	
Measuring range	8-450HBS, 8-650HBW
Test force	1838.8, 2451.8, 7355.3, 9807, 29421N (187.5, 250, 750, 1000, 3000kgf)
Max.height of test piece	230mm
Depth of throat	120mm
Power supply	380V AC or 220V AC,
Dimensions	700x 268x 842mm
Weight	approx. 210kg

Main accessories	
Large flat anvil	1 pc
Small flat anvil	1 pc.
V-notch anvil	1 pc.
Steel ball penetrator	@ 2.5, @ 5, @10mm 1pc.each
Brinell standardized block	2 pcs.
20X Readout microscope	1 pc

Model No. 639-2046

Mfr's# HB-3000B

ELECTRONIC BRINELL HARDNESS TESTER



This tester is a new generation Brinell hardness Tester which has no weights, can be used to determine the Brinell hardness of unquenched steels, castiron, nonferrous metals and soft bearing alloys, etc

Mfr's# HB-3000C

Model No. 639-2047

Specifications	
Measuring range	4--450HBS, 4-650HBW
Test force	612.9, 980.7, 1225.9, 1838.8, 2451.8, 4903.5, 7355.3, 9807, 14710.5, 29421N (62.5, 100, 125, 187.5, 250, 500, 750, 1000, 1500, 3000kgf)
Max.height of test piece	240mm
Depth of throat	150mm
Power supply	220V AC or 110V AC, 50/60HZ
Dimensions	630x 250x 1000mm
Weight	approx. 250kg

Main accessories	
Large flat anvil	1 pc
Small flat anvil	1 pc.
V-notch anvil	1 pc.
Steel ball penetrator	@ 2.5, @5, @10mm 1pc.each
Brinell standardized block	2 pcs.
20X Readout microscope	1 pc

DIGITAL LOW LOAD BRINELL HARDNESS TESTER

This tester can be used to determine the Brinell hardness of castiron, steel, nonferrous metals and soft metals, etc



Specifications	
Measuring range	4--450HBS, 4-650HBW
Test force	9.807, 49.03, 98.07, 153.2, 294.2, 612.9N (1, 5, 10, 15.625, 30, 62.5kgf)
Max.height of test piece	180mm
Depth of throat	125mm
Magnifications of the measuring microscope	125X, 50X
Min.scale value of the measuring microscope	0.5 @m
Power supply	220V AC or 110V AC, 50/60HZ
Dimensions	580x 260x 730mm
Weight	approx. 90kg

Mfr's# HBS-62.5

Model No. 639-2048

Main accessories	
Large flat anvil	1 pc
Small flat anvil	1 pc.
V-notch anvil	1 pc.
Steel ball penetrator	@1, @2.5mm 1pc.each
Brinell standardized block	3 pcs.
Printer	1 pc

Hardness Test

LOW LOAD VICKERS HARDNESS TESTER



This tester can be used to perform Vickers hardness test, and also be used as a standard Vickers hardness tester. It is equipped with a programmable calculator so as to speed up the calculation of hardness values

Mfr's# HV-5
Model No. 639-2049

Specifications		Main accessories	
Measuring range	5-3000HV	Coordinate anvil	1 pc
Test force	1.961, 2.942, 4.903, 9.807, 19.61, 24.52, 29.42, 49.03N (0.2, 0.3, 0.5, 1, 2, 2.5, 3, 5kgf)	Thin shaft anvil	1 pc
Max.height of test piece	130mm	Thin plate anvil	1 pc
Depth of throat	100mm	Flat nose pliers	1 pc
Magnifications of the measuring microscope	500 x, 125x	Large V-notch anvil	1 pc
Min.scale value of the measuring microscope	0.25 μ m	Small V-notch anvil	1 pc
Power supply	220V AC or 110V AC, 50/60Hz	Diamond pyramid penetrator	1 pc
Dimensions	438x 376x 685mm	Vickers standardized block	2 pc
Weight	approx. 50kg	Micro-Vickers standardized block	1 pc
		Electronic calculator	1 pc

DIGITAL LOW LOAD VICKERS HARDNESS TESTER

Mfr's# HVS-5
Model No. 639-2050



The test process is automatic for this tester, the hardness values measured can be displayed, printed and exported automatically

Specifications		Main accessories	
Measuring range	5-3000HV	Coordinate anvil	1 pc
Test force	1.961, 2.942, 4.903, 9.807, 19.61, 24.52, 29.42, 49.03N (0.2, 0.3, 0.5, 1, 2, 2.5, 3, 5kgf)	Thin shaft anvil	1 pc
Max.height of test piece	130mm	Thin plate anvil	1 pc
Depth of throat	100mm	Flat nose pliers	1 pc
Magnifications of the measuring microscope	500 x, 125x	Large V-notch anvil	1 pc
Min.scale value of the measuring microscope	0.025 μ m	Small V-notch anvil	1 pc
Power supply	220V AC or 110V AC, 50/60Hz	Diamond pyramid penetrator	1 pc
Dimensions	438x 376x 685mm	Vickers standardized block	2 pc
Weight	approx. 50kg	Micro-Vickers standardized block	1 pc
		Printer	1 pc

VICKERS HARDNESS TESTER

Mfr's# HV-50A
Model No. 639-2051



This tester can be used to determine the Vickers hardness of ferrous and nonferrous metals, hard alloys, carburized and nitrided layers.

Specifications		Main accessories	
Measuring range	5-2900HV	Large flat anvil	1 pc
Test force	9.807, 49.03, 98.07, 196.1, 294.2, 490.3N (1, 5, 10, 20, 30, 50kgf)	Small flat anvil	1 pc
Max.height of test piece	180mm	V-notch anvil	1 pc
Depth of throat	125mm	Diamond pyramid penetrator	1 pc
Magnifications of the measuring microscope	125 x, 50x	Vickers standardized block	3 pcs
Min.scale value of the measuring microscope	1 μ m		
Power supply	220V AC or 110V AC, 50/60Hz		
Dimensions	580x 260x 730mm		
Weight	approx. 90kg		

DIGITAL VICKERS HARDNESS TESTER

Mfr's# HVS-50
Model No. 639-2052



This tester can convert the Vickers hardness values into Brinell hardness and Rockwell hardness. It is mainly used for determining the Vickers hardness of ferrous and nonferrous metals, hard alloys, carburized and nitrided layers

Specifications		Main accessories	
Measuring range	5-2900HV	Large flat anvil	1 pc
Test force	9.807, 49.03, 98.07, 196.1, 294.2, 490.3N (1, 5, 10, 20, 30, 50kgf)	Small flat anvil	1 pc
Max.height of test piece	180mm	V-notch anvil	1 pc
Depth of throat	125mm	Diamond pyramid penetrator	1 pc
Magnifications of the measuring microscope	125 x, 50x	Vickers standardized block	3 pcs
Min.scale value of the measuring microscope	0.5 μ m	Printer	1 pc
Power supply	220V AC or 110V AC, 50/60Hz		
Dimensions	580x 260x 730mm		
Weight	approx. 90kg		

Hardness Test

PORTABLE HARDNESS TESTER

Technical Specifications:

- Measuring range: HLD (170~960) HLD
- Measuring direction: 0-360 °
- Hardness Scale: HLD, HB, HRC, HRA, HV, HS
- Display: segment LCD
- Data memory: max. 100 groups (relative to impact times 32-1)
- Working power: 3V (2 AA size alkaline batteries)
- Continuous working period: about 100 hours (with backlight off)
- Communication interface: RS232
- Outline dimensions: 150x74x32 mm
- Weight: 245g

Model No. 639-2055



Advantages:

- Wide measuring range. Based on the principle of Leeb hardness testing theory. It can measure the Leeb hardness of all metallic materials.
- Large screen LCD, showing all functions and parameters. With HL background light.
- Seven impact devices are available for special application. Automatically identify the type of impact devices.
- Test at any angle, even upside down. Support rings for shaped materials.
- Direct display of hardness scales HRC, HRC, HV, HB, HS, HLD
- Large memory could store 100 groups (Relative to average times 32-1) information including single measured value, mean value, impact direction, impact times, material and hardness scale etc.
- Battery information showing the rest capacity of the battery.
- User calibration function.
- Software to connect to PC via RS232 port. Micro printer support.
- Compact plastic case, suitable for use under poor working conditions
- Continuous working period of no less than 100 hours with two alkaline batteries(AA size), Auto power off to save energy.

Optional Configuration:

1 Cleaning brush (II)	1
2 Other type of impact devices	7
3 Tool for impact ball	1
5 Other type of support rings	12
6 Other type of impact ball / body	1
7 Other type of block	1
8 DataPro software	1
9 Communication cable	1
10 Micro Printer	1
11 Print cable	1

Standard Configuration:

No Item	Quantity
1 Main unit	1
2 D type impact device	1
3 Standard test block	1
4 Cleaning brush (I)	1
5 Small support ring	1
6 Alkaline battery	2
7 Manual	1
8 Instrument package case	1

Main Application:

- Die cavity of molds
- Bearings and other parts
- Failure analysis of pressure vessel, steam generator and other equipment
- Heavy work piece
- The installed machinery and permanently assembled parts
- Testing surface of a small hollow space
- Material identification in the warehouse of metallic materials
- Rapid testing in large range and multi-measuring areas for large-scale work piece

Testing conditions:

Type of impact device	DC(D)/DL	D+15	C	G	E
Impacting energy	11mJ	11mJ	2.7mJ	90mJ	11mJ
Mass of impact body	5.5g/7.2g	7.8g	3.0g	20.0g	5.5g
Test tip hardness:	1600HV	1600HV	1600HV	1600HV	5000HV
Dia. Test tip:	3mm	3mm	3mm	5mm	3mm
Material of test tip:	Tungsten carbide	Tungsten carbide	Tungsten carbide	Tungsten carbide	synthetic diamond
Impact device diameter:	20mm	20mm	20mm	30mm	20mm
Impact device length:	86(147)/75mm	162mm	141mm	254mm	155mm
Impact device weight:	50g	80g	75g	250g	80g
Max. hardness of sample:	940HV	940HV	1000HV	650HB	1200HV
Mean roughness value of sample surface Ra:	1.6 μ m	1.6 μ m	0.4 μ m	6.3 μ m	1.6 μ m
Min. weight of sample:					
Measure directly	>5kg	>5kg	>1.5kg	>15kg	>5kg
Need support firmly	2~5kg	2~5kg	0.5~1.5kg	5~15kg	2~5kg
Need coupling tightly	0.05~2kg	0.05~2kg	0.02~0.5kg	0.5~5kg	0.05~2kg
Min. thickness of sample					
Coupling tightly	5mm	5mm	1mm	10mm	5mm
Min. layer thickness for surface hardening	$\geq$ 0.8mm	$\geq$ 0.8mm	$\geq$ 0.2mm	$\geq$ 1.2mm	$\geq$ 0.8mm

Hardness Test

LEEB MULTIFUNCTIONAL HARDNESS TESTER

This tester is suitable for the quick hardness of metal materials. The measured leeb hardness can be converted into the hardness of brinell, rockwell, vicker and shore according to different diections and can be converted and recorded automatically.

MAIN ACCESSORIES

Small positioner: 1pc
Brinder: 1bottle
leeb standardized block: 1pc
Charger: 1pc

Power supply: 6.0V DC
Wprking temperature: 1-40°
Dimensions: 268x86x47mm
Weight: approx 0.67Kg



Specifications	Model No. 639-2013	Model No. 639-2014	Model No. 639-2015	Model No. 639-2016
Measuring range	330-890HL	330-890HL	346-890HL	330-650HLG
Impact capacity	11Nmm	11Nmm	11Nmm	90Nmm
Dimensions	110 X 150mm	110 X 85mm	110 X 165mm	110 X 250mm
Testing direction	Arbitrary	Arbitrary	Arbitrary	Arbitrary
Weight	75kg	50kg	80kg	250kg
Mass of impact body	5.5kg	5.5kg	5.5kg	20kg
Diameter of tungsten carbide ball	3mm	3mm	3mm	5mm
application range	Basic type, suitable for determining of usual test pieces	Suitable for hardness measuring of inner holes and small space	Suitable for determining hardness of tooth face and slots, etc.	Suitable for hardness measuring of steel, cast steel, gray cast iron, nodular cast iron and nonferrous metals.

THL-300 HARDNESS TESTER



Model No. 639-2029

- Impact device d integrated: No cables!
- Wide measuring range in hld and direct display of converted hardness values in hb, hrb, hrc, hra, hv, hs
- Test at any angle
- Simple handling and low test expenditure
- Optional printer ta220s available
- Accuracy: 0.8%(750-800HLD)

Specifications
Stl 300-900,80-850,20-68,38.4-99.8,80-977,32.5-99.5
2AS 300-840,20.4-67,80-898
3SS 300-800,85-682,19.6-62,46.5-101,85-802
4GC 360-660,93-345
5NC 400-660,131-387
6AL 180-560,30-195
7BS 200-540,40-137
8BZ 300-700,60-290
9CU 200-700 45-320

SHORE DUROMETER

This durometer is one type of portable tester that can be used to determine the shore durometer value of rubber(plastic) products precisely. It is the ideal measuring instrument for using on the spot

Measuring ranger: 20-90HA
Test force: 0.55-8.06N (56-821gf)
Dimensions: 110x58x30mm
Weight: approx 0.5Kg



Model No. 639-2012

DIGITAL SHORE DUROMETERS

USE

Type A & Type D:

Can be used to measure the Rubber, Hard-resin, Glass, Thermoplastic plastics, Printing plates, Fiber, etc.

Type C:

Can be used to measure the Hardness of Foam, Sponge, Shoes with incorporates material, etc.

FEATURES

- Large LCD display for easy reading.
- With data output.
- On/off switch.
- Zero setting at any position.
- Holding measure display values.
- Battery: 1.5V battery.



Type A



Type D



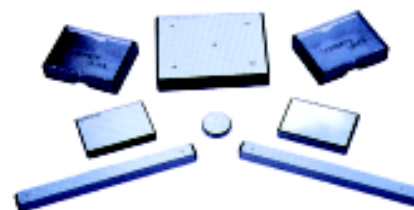
Type C

Range	Resolution	Contact point	Model No.
0~100H(A)	0.5HA	0.79mm diameter	639-2021
0~100H(D)	0.5HD	SR0.1mm	639-2022
0~100H(C)	0.5HC	SR2.5mm	639-2023



Hardness Test

STANDARDIZED HARDNESS BLOCK



Description	Range of hardness	Dimensions(mm)	Model No.
Brinell standardized block	200±50HBS	100 x 80 x 16	639-2500
	100±25HBS		639-2501
Rockwell standardized block	80-88HRA	60 x 40 x 10	639-2502
	85-95HRB		639-2503
	20-30HRC		639-2504
	35-55HRC		639-2505
	60-70HRC		639-2506
Vickers standardized block	200±25HV5	60 x 40 x 10	639-2507
	450±50HV5		639-2508
	450±50HV10		639-2509
	450±50HV30		639-2510
	750±50HV10		639-2511
Superficial rockwell standardized block	89-91HR15N	60 x 40 x 10	639-2512
	42-50HR30N		639-2513
	75-80HR30N		639-2514
	37-61HR45N		639-2515
	87-93HR15T		639-2516
	70-82HR30T		639-2517
Portable brinell standardized block	200±50HBS	75 x 75 x 22	639-2518
Hammer-Hitting type brinell standardized block	175-225HBS	150 x 12 x 12	639-2519
Micro-Vickers standardized block	200-300HV0.05	25 x 5	639-2520
	200-300HV0.1		639-2521
	400-500HV0.1		639-2522
	400-500HV0.2		639-2523
	700-800HV0.2		639-2524
	700-800HV0.5		639-2525
Leeb standardized block	790±40HLD	90 x 55	639-2526
	790±40HLD		639-2527
Shore standardized block	95±4HSD	65 x 52 x 15	639-2528
	60±4HSD		639-2529
	30±4HSD		639-2530

READOUT MICROSCOPE



The readout microscopes, model 639-2040, 639-2045, are designed for determining of indentation in brinell hardness testing. They can be also be used for measuring the width or length of scale mark, slit, key slot and dent, as well as checking metal case quality, density of fibre and field specimen, etc.

Specifications	Model No.	Model No.
	639-2020	639-2021
Magnification	20X	40X
Effective field number(mm)	6	3
Dimensions(mm)	70x50x155	70x50x187
Weight(Kg)	0.5	0.6

PORTABLE BRINELL HARDNESS TESTER

This tester can be used to determine the brinell hardness of ferrous metal which elasticity modulus approximate to 2×10^5

Measuring range: 100-400HBS
Impact capacity: 4.9J
Dimensions: 155 x 370mm
Weight: approx 3.3Kg

MAIN ACCESSORIES:
Portable brinell standardized block 1pcs
20X readout microscope 1pcs

Model No.
639-2010



Thickness Gauge

HAMMER HITTING TYPE BRINELL HARDNESS TESTER

This tester can be determine the brinell hardness of ferrous and nonferrous metals and tensile strength of steel

Measuring range: <450HBS

Diameter of steel ball: $\phi 10\text{mm}$

Dimensions: $25 \times 110\text{mm}$

Weight: approx 0.5Kg

MAIN ACCESSORIES

Hammer hitting brinell standardized block 2pcs

20X readout microscope

Model No. 725-0220



Model No.

639-2011

ULTRASONIC THICKNESS GAUGE



Features:

- Suitable for most metallic and non-metallic materials ultrasonic can go through.
- Transducer models are available for special application, including for coarse grain material and high temperature applications.
- Four measurement readings per second for single point measurement, and ten per second for Scan Mode.
- Upper and lower limit can be pre-set. It will alarm automatically.
- Auto-calibration of zero point, Sound Velocity Calibration function.
- Two work modes: Single point mode and Scan mode.
- Economical model with easy operation. (menu selectable)
- Coupling status indicator showing the coupling status. Equipped with RS232 interface for connecting with printer and PC with software.
- Extruded aluminum case suitable for use under poor working conditions.

Specifications:

- Display: 128x64 dot matrix LCD with BL backlight.
- Measuring Range: 0.75-300mm (in Steel).
- Sound Velocity Range: 1000-9999 m/s.
- Resolution: 0.1/0.01mm (selectable).
- Accuracy: $\pm 0.5\%$ Thickness $\pm 0.04\text{mm}$
- Units: Metric/English unit selectable.
- Store: Memory for 20 files (up to 99 values for each file) of stored values.
- Power Supply: Two "AA" size, 1.5 volt alkaline batteries. 100 hours typical operating time
- Outline dimensions: 132x76.2x30mm.
- Weight: 345g

Model No. 639-0110



Standard Configuration

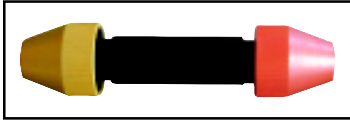
Item	Quantity	Note
Main body	1	
Transducer	1	Model: N05/90 $\phi 10$
Transducer	1	Model: N07
Couplant	1	
Instrument Case	1	
Operating Manual	1	
Screwdriver	1	
Alkaline battery	2	AA size

Optional Configuration

Item	Note
Transducer: N02	
Transducer: N07/09 $\phi 10$	
Transducer: HT5	
Mini thermal printer	
Print cable	
DataPro for Thickness Gauge	For use on the PC
Communication Cable	
Steel calibration plate	

Pin Gages

- 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".



PINGAGEHANDLE



Complete With Plastic Case and Stand

Range(mm)	Step (mm)	No. of Members	±0.001mm Tolerances Model No.	±0.002mm Tolerances Model No.
0.3-1.00	0.01	71	616-5071	616-6071
1.01-2.00	0.01	100	616-5102	616-6102
2.01-3.00	0.01	100	616-5103	616-6103
3.01-4.00	0.01	100	616-5104	616-6104
4.01-5.00	0.01	100	616-5105	616-6105
5.01-6.00	0.01	100	616-5106	616-6106
6.01-7.00	0.01	100	616-5107	616-6107
7.01-8.00	0.01	100	616-5108	616-6108
8.01-9.00	0.01	100	616-5109	616-6109
9.01-10.00	0.01	100	616-5111	616-6111
1.01-10.00	0.01	900	616-5900	616-6900
.030-2.00	0.02	86	616-5086	616-6086
2.02-4.00	0.02	100	616-5114	616-6114
4.02-6.00	0.02	100	616-5116	616-6116
6.02-8.00	0.02	100	616-5118	616-6118
8.02-10.00	0.02	100	616-5119	616-6119
0.30-5.00	0.05	95	616-5095	616-6095
5.05-10.00	0.05	100	616-5022	616-6022
0.30-5.00	0.10	48	616-5048	616-6048
0.30-10.00	0.10	98	616-5098	616-6098
1.00-5.00	0.10	41	616-5041	616-6041
1.00-10.00	0.10	91	616-5091	616-6091
10.00-20.00	0.10	101	616-5101	616-6101
0.50-20.00	0.50	40	616-5040	616-6040
1.00-20.00	1.00	20	616-5020	616-6020
0.300-1.525	0.025	50	616-5050	616-6050
1.550-6.275	0.025	190	616-5190	616-6190
6.300-9.775	0.025	140	616-5140	616-6140
9.800-12.525	0.025	110	616-5110	616-6110
13.000-19.000	0.100	61	616-5061	616-6061

STEEL PLUG GAGE SETS

Inch size sets

Type	No. of Members	Size	Without Handle Model No.	With Handle Model No.
M0 Plus	50	0.011 to 0.060	616-8100	616-8200
M0 Minus	50	0.011 to 0.060	616-8101	616-8201
M05 Plus	50	0.0115 to 0.0605	616-8105	616-8205
M05 Minus	50	0.0115 to 0.0605	616-8106	616-8206
M1 Plus	190	0.061 to 0.250	616-8110	616-8210
M1 Minus	190	0.061 to 0.250	616-8111	616-8211
M15 Plus	190	0.0615 to 0.2505	616-8113	616-8213
M15 Minus	190	0.0615 to 0.2505	616-8114	616-8214
M10 Plus	240	0.011 to 0.250	616-8115	616-8215
M10 Minus	240	0.011 to 0.250	616-8116	616-8216
M105 Plus	240	0.0115 to 0.2505	616-8117	616-8217
M105 Minus	240	0.0115 to 0.2505	616-8118	616-8218
M2 Plus	250	0.251 to 0.500	616-8120	616-8220
M2 Minus	250	0.251 to 0.500	616-8121	616-8221
M25 Plus	250	0.2515 to 0.5005	616-8125	616-8225
M25 Minus	250	0.2515 to 0.5005	616-8126	616-8226
M3 Plus	125	0.501 to 0.625	616-8130	616-8230
M3 Minus	125	0.501 to 0.625	616-8131	616-8231
M35 Plus	125	0.5015 to 0.6255	616-8135	616-8235
M35 Minus	125	0.5015 to 0.6255	616-8136	616-8236
M4 Plus	125	0.626 to 0.750	616-8140	616-8240
M4 Minus	125	0.626 to 0.750	616-8141	616-8241
M45 Plus	125	0.6265 to 0.7505	616-8145	616-8245
M45 Minus	125	0.6265 to 0.7505	616-8146	616-8246
M5 Plus	82	0.751 to 0.832	616-8150	616-8250
M5 Minus	82	0.751 to 0.832	616-8151	616-8251
M55 Plus	82	0.7515 to 0.8325	616-8155	616-8255
M55 Minus	82	0.7515 to 0.8325	616-8156	616-8256
M6 Plus	84	0.833 to 0.916	616-8160	616-8260
M6 Minus	84	0.833 to 0.916	616-8161	616-8261
M65 Plus	84	0.8335 to 0.9165	616-8165	616-8265
M65 Minus	84	0.8335 to 0.9165	616-8166	616-8266
M7 Plus	84	0.917 to 1.000	616-8170	616-8270
M7 Minus	84	0.917 to 1.000	616-8171	616-8271
M75 Plus	84	0.9175 to 1.0005	616-8175	616-8275
M75 Minus	84	0.9175 to 1.0005	616-8176	616-8276

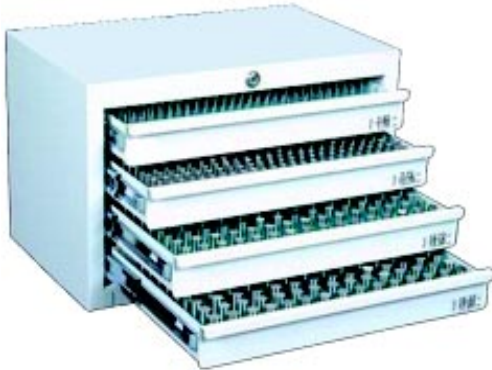
METRIC PIN GAGES



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

Pin Gage

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.
- All gages within 0.0002".

- 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 50 length.
- A must for checking hole diameter & distance between holes and hole location.
- All gages within 0.002mm.

Inch size sets

Type	No. of Members	Size	Four drawer cabinet Model No.	Seven drawer cabinet Model No.
M0 Plus	490	0.011 to 0.500	616-8300	616-8400
M0 Minus	490	0.011 to 0.500	616-8301	616-8401
M05 Plus	490	0.0115 to 0.5005	616-8305	616-8405
M05 Minus	490	0.0115 to 0.5005	616-8306	616-8406
M1 Plus	440	0.061 to 0.500	616-8310	616-8410
M1 Minus	440	0.061 to 0.500	616-8311	616-8411
M15 Plus	440	0.0615 to 0.5005	616-8317	616-8417
M15 Minus	440	0.0615 to 0.5005	616-8318	616-8418
M2 Plus	740	0.011 to 0.750	616-8320	616-8420
M2 Minus	740	0.011 to 0.750	616-8321	616-8421
M25 Plus	740	0.0115 to 0.0750	616-8325	616-8425
M25 Minus	740	0.0115 to 0.0750	616-8326	616-8426
M3 Plus	690	0.061 to 0.750	616-8330	616-8430
M3 Minus	690	0.061 to 0.750	616-8331	616-8431
M35 Plus	690	0.0615 to 0.0750	616-8335	616-8435
M35 Minus	690	0.0615 to 0.0750	616-8336	616-8436
M4 Plus	990	0.011 to 1.000	616-8340	616-8440
M4 Minus	990	0.011 to 1.000	616-8341	616-8441
M45 Plus	990	0.0115 to 1.0005	616-8345	616-8445
M45 Minus	990	0.0115 to 1.0005	616-8346	616-8446
M5 Plus	940	0.061 to 1.000	616-8350	616-8450
M5 Minus	940	0.061 to 1.000	616-8351	616-8451
M55 Plus	940	0.0615 to 1.0005	616-8355	616-8455
M55 Minus	940	0.0615 to 1.0005	616-8356	616-8456
M6 Plus	500	0.501 to 1.000	616-8360	616-8460
M6 Minus	500	0.501 to 1.000	616-8361	616-8461
M65 Plus	500	0.5015 to 1.0005	616-8365	616-8465
M65 Minus	500	0.5015 to 1.0005	616-8366	616-8466
M7 Plus	250	0.061 to 0.5005	616-8370	616-8470
M7 Minus	250	0.061 to 0.5005	616-8371	616-8471
M75 Plus	250	0.7515 to 1.0005	616-8375	616-8475
M75 Minus	250	0.7515 to 1.0005	616-8376	616-8476
M8 Plus	880	0.061 to 0.5005	616-8380	616-8480
M8 Minus	880	0.061 to 0.5005	616-8381	616-8481
M9 Plus	980	0.011 to 0.5005	616-8390	616-8490
M9 Minus	980	0.011 to 0.5005	616-8391	616-8491

Metric size sets

No. of Members	Size	Four drawer cabinet Model No.	Seven drawer cabinet Model No.
815	1.52 to 17.80	616-8500	616-8600
815	1.52 to 17.80	616-8501	616-8601
815	1.53 to 17.81	616-8505	616-8605
815	1.53 to 17.81	616-8506	616-8606
380	17.82 to 25.40	616-8510	616-8610
380	17.82 to 25.40	616-8511	616-8611
380	17.83 to 25.41	616-8517	616-8617
380	17.83 to 25.41	616-8518	616-8618
1195	1.52 to 25.40	616-8520	616-8620
1195	1.52 to 25.40	616-8521	616-8621
1195	1.53 to 25.41	616-8525	616-8625
1195	1.53 to 25.41	616-8526	616-8626



Gage Block Set

PRECISION 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 and conform to MIL-STDD-45662A

Grade B blocks are guaranteed to be $\pm 0.000050"$ from nominal in 1" and under

Nominal Size	Grade 2 (Grade A+)	Grade 3 (Grade A and B)
1" and LOWER	+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 Blocks 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 Blocks 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

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	.144"	-2144	-3144	-B144
0.1001"	-2001	-3001	-B001	0.118"	-2118	-3118	-B118	.145"	-2145	-3145	-B145
0.1002"	-2002	-3002	-B002	0.119"	-2119	-3119	-B119	.146"	-2146	-3146	-B146
0.1003"	-2003	-3003	-B003	0.120"	-2120	-3120	-B120	.147"	-2147	-3147	-B147
0.1004"	-2004	-3004	-B004	0.121"	-2121	-3121	-B121	.148"	-2148	-3148	-B148
0.1005"	-2005	-3005	-B005	0.122"	-2122	-3122	-B122	.149"	-2149	-3149	-B149
0.1006"	-2006	-3006	-B006	0.123"	-2123	-3123	-B123	.05"	-2305	-3305	-B305
0.1007"	-2007	-3007	-B007	0.124"	-2124	-3124	-B124	.10"	-2310	-3310	-B310
0.1008"	-2008	-3008	-B008	0.125"	-2125	-3125	-B125	.15"	-2315	-3315	-B315
0.1009"	-2009	-3009	-B009	0.126"	-2126	-3126	-B126	.20"	-2320	-3320	-B320
1"	-2100	-3100	-B100	0.127"	-2127	-3127	-B127	.25"	-2325	-3325	-B325
0.1010"	-2101	-3101	-B101	0.128"	-2128	-3128	-B128	.30"	-2330	-3330	-B330
0.102"	-2102	-3102	-B102	0.129"	-2129	-3129	-B129	.35"	-2335	-3335	-B335
0.103"	-2103	-3103	-B103	0.130"	-2130	-3130	-B130	.40"	-2340	-3340	-B340
0.104"	-2104	-3104	-B104	0.131"	-2131	-3131	-B131	.45"	-2345	-3345	-B345
0.105"	-2105	-3105	-B105	0.132"	-2132	-3132	-B132	.50"	-2350	-3350	-B350
0.106"	-2106	-3106	-B106	0.133"	-2133	-3133	-B133	.55"	-2355	-3355	-B355
0.107"	-2107	-3107	-B107	0.134"	-2134	-3134	-B134	.60"	-2360	-3360	-B360
0.108"	-2108	-3108	-B108	0.135"	-2135	-3135	-B135	.65"	-2365	-3365	-B365
0.109"	-2109	-3109	-B109	0.136"	-2136	-3136	-B136	.70"	-2370	-3370	-B370
0.110"	-2110	-3110	-B110	0.137"	-2137	-3137	-B137	.75"	-2375	-3375	-B375
0.111"	-2111	-3111	-B111	0.138"	-2138	-3138	-B138	.80"	-2380	-3380	-B380
0.112"	-2112	-3112	-B112	0.139"	-2139	-3139	-B139	.85"	-2385	-3385	-B385
0.113"	-2113	-3113	-B113	0.140"	-2140	-3140	-B140	.90"	-2390	-3390	-B390
0.114"	-2114	-3114	-B114	0.141"	-2141	-3141	-B141	.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

Gage Block Set

81 PIECE STEEL 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 Blocks 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		
17 Blocks 0.150 thru 0.950" in 0.050" steps	B	630-4125
4 Blocks 1.0 thru 0.40" in 1" steps		

MICROMETER CHECKING GAGE BLOCK SETS



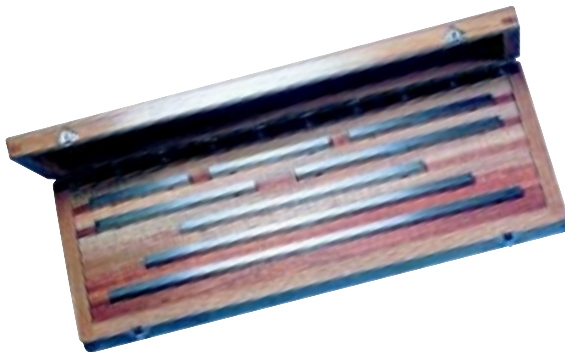
Size include: 2.5-12.9mm(x5) by 2.6mm
15.0mm(x1)
17.6-22.8mm(x3) by 2.6mm
25.0mm(x1)

Standard: DIN861

Piece/sets	Grade	Model No.
10	0	631-3000
10	1	631-3001
10	2	631-3002
10	3	631-3003

STEEL GAGE BLOCK SETS

Large Size



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

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

SPACE BLOCK SETS



36pcs/sets, sets include:

9pcs: .101-.109" by .001"
15pcs: .050-.190" by .010"
9pcs: .200-1.000" by .100"
1pc: .0625"
1pc: .125"
1pc: 1.000"

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

3/4"Diameter, 1/4-28 I.D. Thread,
Accuracy $\pm .0001$ ", HRC58-60

Model No. 630-4050

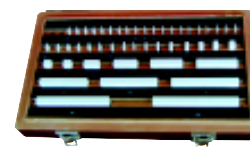
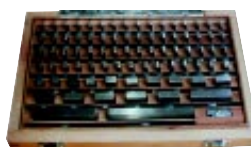
3/4"Diameter, M6 Thread,
Accuracy $\pm .0001$ ", HRC58-60

Model No. 630-4051

Gage Block Set

METRIC GAGE BLOCK SETS

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



Piece/Set	Nominal Sizes (mm)	Steps(mm)	No. Of Blocks	Grade	Steel Model No.	Solid Carbide Model No.	Ceramic Model No.
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				
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		
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				
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				
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				
32	1.005	====	1	0	630-0320	125-4320	631-0320
	1.01-1.09	0.01	9	1	630-0321	125-4321	631-0321
	1.1-1.9	0.1	9	2	630-0322	125-4322	631-0322
	1-9	1	9	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		
13	2.5-12.9,	2.6	5	0	630-0130		631-0130
	15-22.8,	2.6	4	1	630-0131		631-0131
	25.0-100.0	25	4				
12	25mm, 50mm, 75mm, 80mm,	25mm		0	630-8300		
	105mm, 130mm, 155mm, 180mm	25mm		1	630-8301		
	205mm, 300mm	25mm		2	630-8302		
11	10, 20, 41.2, 51.2, 81.2, 101.2,	----		0	630-0110		
	121.5, 121.8, 125, 175, 250mm			1	630-0111		
10	2.5-12.9	2.6	5	0	630-0100		631-0100
	15-22.8	2.6	4	1	630-0101		631-0101
	25	----	1	2	630-0102		631-0102
				3	630-0103		
10	1.001-1.009	0.001	9	0	630-0090		
				1	630-0091		
				2	630-0092		
				3	630-0093		
8	10, 20, 41.2, 51.2, 81.2, 101.2,	----		0	630-0080		631-0080
	121.5, 121.8mm			1	630-0081		631-0081

Gage Block Accessories

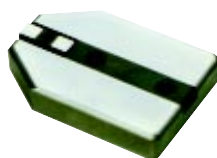
GAGE BLOCK ACCESSORIES

Clamps



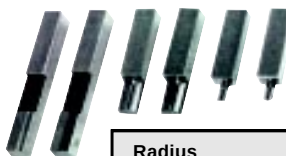
Capacity	Model No.
50mm	631-2050
100mm	631-2100
200mm	631-2200

Base Blocks



Model No.631-2800

Radius Cylindrical Jaws



Radius	
2mm	631-2302
5mm	631-2305
10mm	631-2310

Knife Edge Jaws



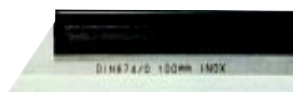
Model No.631-2700

10mm Beveled Ends Jaw



Model No.631-2400

100mm Straight Edge



Model No.638-7110

Scriber Point



Model No.631-2500

Center Point



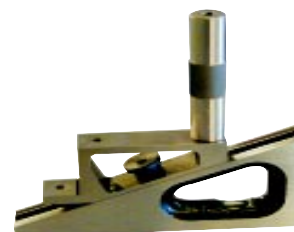
Model No.631-2600



GAGE BLOCK ACCESSORY SETS

Descriptions	10 Piece Model No. 631-2910	15 Piece Model No. 631-2915	17 piece Model No.631-2918
50mm Clamp	1 Piece	1 Piece	1 Piece
100mm Clamp	1 Piece	1 Piece	1 Piece
200mm Clamp	1 Piece	1 Piece	1 Piece
2mm Radius Cylindrical Jaws	1 Pair	1 Pair	1 Pair
5mm Radius Cylindrical Jaws	1 Pair	1 Pair	1 Pair
10mm Radius Cylindrical Jaws		1 Pair	1 Pair
100mm Beveled Ends Jaws		1 Pair	1 Pair
100mm Straight Edge			1 Piece
Scriber	1 Piece	1 Piece	1 Piece
Center Point	1 Piece	1 Piece	1 Piece
Knife Edge Jaws		1 Pair	1 Pair
Base Block	1 Piece		1 Piece

PLANER AND SHAPER GAGES



Model No.600-0049

- Max. Range 1/4 - 6 - 1/4" with extension rod.
- Makes setting of planer and shaper tools easy.
- Set gage with micrometer, surface gage or caliper and bring cutting tool in contact with it.
- Gives the operator a reliable starting point, thus eliminating trial cuts. Also use in conjunction with Dial indicator to level large plates for planing, etc.



Set Model No. 615-6610

Tin Coated Set Model No. 615-6620

TELESCOPING GAGES

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

Inch Range	Inch Length	Metric Range	Metric Length	Model No.	Tin Coated Model No.
5/16 - 1/2"	4"	8-12.7mm	102mm	615-6611	6150-6611
1/2 - 3/4"	4"	12.7-19mm	102mm	615-6612	6150-6612
3/4 - 1-1/4"	4"	19-32mm	102mm	615-6613	6150-6613
1-1/4 - 2-1/8"	5"	32-54mm	127mm	615-6614	6150-6614
2-1/8" - 3-9/16"	5"	54-90mm	127mm	615-6615	6150-6615
3-9/16 - 6"	5"	90-150mm	127mm	615-6616	6150-6616

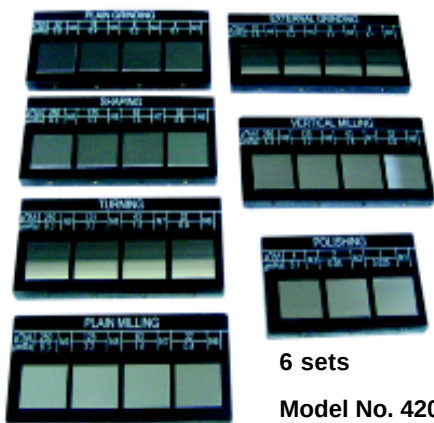


Model No. 600-0500

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.



6 sets

Model No. 420-3230

SURFACE ROUGHNESS STANDARD

As standardized in ISO2632/1-1975

This set contains standards for the six most important matching methods in the prevalent values. These Surface Roughness is used to compare and determine the degree of the surface finish by comparison method and eye estimation or magnifying glass.

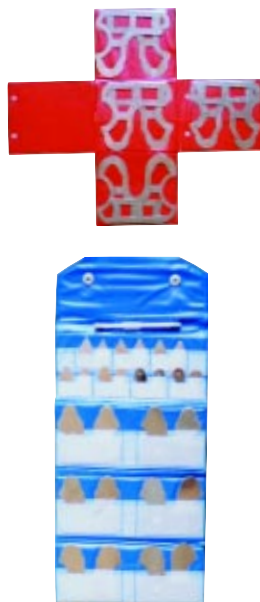
The surface rough contrast blocks is made of 45 super carbon steel except the GCr 15 which is using to plating the sample block.

All 30 specimens are calibrated in μm AA (Arithmetical average) and in the metric equivalents $\mu\text{m/in}$.

Notice of Operation and Maintenance:

When working the surface rough contrast block should be as possible as under the same condition with the checked workpiece (including Surface color illuminating condition etc.) and it is forbidden to contract the surface rough contrast block direct by hand. Animate treatment should be strictly followed to avoid corrosion and strike and scrape should be avoided.

Turning $\mu\text{m}/\text{in}$	Vertical Milling $\mu\text{m}/\text{in}$	Horizontal Milling $\mu\text{m}/\text{in}$	Plain Grinding $\mu\text{m}/\text{in}$	External Grinding $\mu\text{m}/\text{in}$	External Grinding $\mu\text{m}/\text{in}$
Model No. 420-3200	Model No. 420-3205	Model No. 420-3210	Model No. 420-3215	Model No. 420-3220	Model No. 420-3225
12.5/500	12.5/500	12.5/500	1.6/63	1.6/63	--
6.3/250	6.3/250	6.3/250	0.8/32	0.8/32	--
3.2/125	3.2/125	3.2/125	0.4/16	0.4/16	--
1.6/63	1.6/63	1.6/63	0.2/8	0.2/8	--
0.8/32	0.8/32	0.8/32	0.1/4	--	0.1/4
0.4/16	0.4/16	0.4/16	0.05/2	--	0.05/2



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	8Piece	615-4008
WITH holder 9/16" to 1" by 16ths	8Piece	615-4108
WITH holder 1-1/16" to 1-1/2" by 16ths	8Piece	615-4208
WITHOUT holder 9/16" to 1" by 16ths	8Piece	615-4308
WITHOUT holder 0.550 to 1" by 0.05"	10Piece	615-4010
WITH holder 1/64" to 17/64" by 64ths	17Piece	615-4017
WITHOUT holder 0.02" to 0.500"	19Piece	615-4019
WITH holder 0.020" to 0.500"	19Piece	615-4119
WITH holder 0.5-7mm by 0.5mm 8-15mm by 1mm	22Piece	615-4022
WITH holder 1/64" to 17/64" by 64ths & 9/32 to 1/2 step by 32ths	25Piece	615-4025
WITH holder 0.010" to 0.500"	26Piece	615-4126
WITH holder 0.5-13.0mm by 0.5mm	26Piece	615-4226

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 threads	615-6260
Whitworth std. 55 threads	615-6255
U.S. std. 60 threads	615-6300

Feeler Gage

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	.002-.003-.004-.005-.006-.008-.010-.015-.020-	3"	615-6203
9	.002-.003-.004-.006-.008-.012-.013-.020-.025-	3"	615-6204
12	.008-.010-.012-.013-.014-.015-.016-.018-.019-.020-.025-.026-	4"	615-6205
15	.002-.003-.004-.005-.006-.008-.011-.012-.013-.014-.016-.018-.020-.022-.025-	3-1/2"	615-6206
8	.015-.018-.020-.025-.028-.030-.035-.040-		615-6207
26	.0015-.002-.0025-.003-.004-.005-.006-.007-.008-.009-.010-.011-.012-.013-.014-.015-.016-.017-.018-.019-.020-.021-.022-.023-.024-.025-	3-1/2"	615-6208
32	.0015-.002-.0025-.003-.004-.005-.006-.007-.008-.009-.010-.011-.012-.013-.014-.015-.016-.017-.018-.019-.020-.021-.022-.023-.024-.025-.026-.028-.030-.032-.035-	3-1/2"	615-6209
16	.010-.012-.013-.015-.016-.017-.018-.020-.022-.024-.025-.026-.028-.030-.032-.035-	1-1/2"	615-6210

ANGLE GAGES



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

18 PIECE ANGLE GAGE SET



Stainless Steel
Model No.615-9180

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

SCREW CUTTING GAGES

Model No.615-1610



- Gauges 47-1/2° British, 14-1/2° Acme, 55° Whitworth & BSF & 60° USA & Metric
- Made from stainless steel with satin chrome finish
- Deep etched graduations
- All gage surfaces are ground

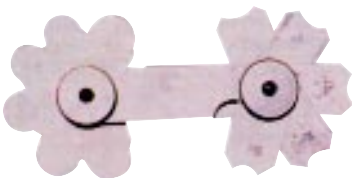
RADIUS LINEAR GAGES

Model No.615-1620



- For measuring wire diameter and non-ferrous sheets
- Made of hardened steel
- Marks of gage size on front, decimal equivalent on back

RADIUS GAGES



Blades	Blades	Radius Range	Model No.
Concave	Convex		
16	16	1.0-6.5mm, 1-3mm step by 0.25mm, 3.5-6.5mm step by 0.5mm	615-6550
16	16	7-14.5mm, step by 0.5mm	615-6555
16	16	15-25mm, 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 1/32"	615-6570
16	16	17/32" - 1", step by 1/32"	615-6575

SCREW PITCH GAGES



Blades	Checking Range	Model No.	Blades	Checking Range	Model No.
14	0.35-0.3mm, METRIC 60°	615-6317	28	0.25-2.5mm, METRIC 60°	615-6339
20	0.4-0.6mm, METRIC 60°	615-6318	22	4-48TPI, INCH 55°	615-6322
16	0.25-2.5mm, METRIC 60°	615-6320	10	13-40 TPI, METRIC 60°	615-6323
18	0.5-7.0mm METRIC 60	615-6330	30	4-42TPI, INCH 55°	615-6324
28	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
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

Plug/Ring Gages

ANSI STANDARD THREAD GAGES



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

Size	UNC UNF UNEF	Plug Gages(Go& No Go with Handle)			Adjustable Ring Gages(Go& No Go)		
		Class 1B Model No.	Class 2B Model No.	Class 3B Model No.	Class 1A Model No.	Class 2A Model No.	Class 3A Model No.
0-80	UNF	623-1001	623-2001	623-3001	622-1001	622-2001	622-3001
1-64	UNC	623-1002	623-2002	623-3002	622-1002	622-2002	622-3002
1-72	UNF	623-1003	623-2003	623-3003	622-1003	622-2003	622-3003
2-56	UNC	623-1004	623-2004	623-3004	622-1004	622-2004	622-3004
2-64	UNF	623-1005	623-2005	623-3005	622-1005	622-2005	622-3005
3-48	UNC	623-1006	623-2006	623-3006	622-1006	622-2006	622-3006
3-56	UNF	623-1007	623-2007	623-3007	622-1007	622-2007	622-3007
4-40	UNC	623-1008	623-2008	623-3008	622-1008	622-2008	622-3008
4-48	UNF	623-1009	623-2009	623-3009	622-1009	622-2009	622-3009
5-40	UNC	623-1010	623-2010	623-3010	622-1010	622-2010	622-3010
5-44	UNF	623-1011	623-2011	623-3011	622-1011	622-2011	622-3011
6-32	UNC	623-1012	623-2012	623-3012	622-1012	622-2012	622-3012
6-40	UNF	623-1013	623-2013	623-3013	622-1013	622-2013	622-3013
8-32	UNC	623-1014	623-2014	623-3014	622-1014	622-2014	622-3014
8-36	UNF	623-1015	623-2015	623-3015	622-1015	622-2015	622-3015
10-24	UNC	623-1016	623-2016	623-3016	622-1016	622-2016	622-3016
10-32	UNF	623-1017	623-2017	623-3017	622-1017	622-2017	622-3017
12-24	UNC	623-1018	623-2018	623-3018	622-1018	622-2018	622-3018
12-28	UNF	623-1019	623-2019	623-3019	622-1019	622-2019	622-3019
12-32	UNEF	623-1020	623-2020	623-3020	622-1020	622-2020	622-3020
1/4-20	UNC	623-1021	623-2021	623-3021	622-1021	622-2021	622-3021
1/4-28	UNF	623-1022	623-2022	623-3022	622-1022	622-2022	622-3022
1/4-32	UNEF	623-1023	623-2023	623-3023	622-1023	622-2023	622-3023
5/16-18	UNC	623-1024	623-2024	623-3024	622-1024	622-2024	622-3024
5/16-24	UNF	623-1025	623-2025	623-3025	622-1025	622-2025	622-3025
5/16-32	UNEF	623-1026	623-2026	623-3026	622-1026	622-2026	622-3026
3/8-16	UNC	623-1027	623-2027	623-3027	622-1027	622-2027	622-3027
3/8-24	UNF	623-1028	623-2028	623-3028	622-1028	622-2028	622-3028
3/8-32	UNEF	623-1029	623-2029	623-3029	622-1029	622-2029	622-3029
7/16-14	UNC	623-1030	623-2030	623-3030	622-1030	622-2030	622-3030
7/16-20	UNF	623-1031	623-2031	623-3031	622-1031	622-2031	622-3031
7/16-28	UNEF	623-1032	623-2032	623-3032	622-1032	622-2032	622-3032
1/2-13	UNC	623-1033	623-2033	623-3033	622-1033	622-2033	622-3033
1/2-20	UNF	623-1034	623-2034	623-3034	622-1034	622-2034	622-3034
1/2-28	UNEF	623-1035	623-2035	623-3035	622-1035	622-2035	622-3035
9/16-12	UNC	623-1036	623-2036	623-3036	622-1036	622-2036	622-3036
9/16-18	UNF	623-1037	623-2037	623-3037	622-1037	622-2037	622-3037
9/16-24	UNEF	623-1038	623-2038	623-3038	622-1038	622-2038	622-3038
5/8-11	UNC	623-1039	623-2039	623-3039	622-1039	622-2039	622-3039
5/8-18	UNF	623-1040	623-2040	623-3040	622-1040	622-2040	622-3040
5/8-24	UNEF	623-1041	623-2041	623-3041	622-1041	622-2041	622-3041
11/16-24	UNEF	623-1042	623-2042	623-3042	622-1042	622-2042	622-3042
3/4-10	UNC	623-1043	623-2043	623-3043	622-1043	622-2043	622-3043
3/4-16	UNF	623-1044	623-2044	623-3044	622-1044	622-2044	622-3044
3/4-20	UNEF	623-1045	623-2045	623-3045	622-1045	622-2045	622-3045
13/16-20	UNEF	623-1046	623-2046	623-3046	622-1046	622-2046	622-3046
7/8-9	UNC	623-1047	623-2047	623-3047	622-1047	622-2047	622-3047
7/8-14	UNF	623-1048	623-2048	623-3048	622-1048	622-2048	622-3048
7/8-20	UNEF	623-1049	623-2049	623-3049	622-1049	622-2049	622-3049
15/16-20	UNEF	623-1050	623-2050	623-3050	622-1050	622-2050	622-3050
1-8	UNC	623-1051	623-2051	623-3051	622-1051	622-2051	622-3051
1-12	UNF	623-1052	623-2052	623-3052	622-1052	622-2052	622-3052
1-14	UNF	623-1053	623-2053	623-3053	622-1053	622-2053	622-3053
1-20	UNEF	623-1054	623-2054	623-3054	622-1054	622-2054	622-3054
1-1/16-18	UNEF	623-1055	623-2055	623-3055	622-1055	622-2055	622-3055
1-1/8-7	UNC	623-1056	623-2056	623-3056	622-1056	622-2056	622-3056
1-1/8-12	UNF	623-1057	623-2057	623-3057	622-1057	622-2057	622-3057
1-1/8-18	UNEF	623-1058	623-2058	623-3058	622-1058	622-2058	622-3058
1-3/16-18	UNEF	623-1059	623-2059	623-3059	622-1059	622-2059	622-3059
1-1/4-7	UNC	623-1060	623-2060	623-3060	622-1060	622-2060	622-3060
1-1/4-12	UNF	623-1061	623-2061	623-3061	622-1061	622-2061	622-3061
1-1/4-18	UNEF	623-1062	623-2062	623-3062	622-1062	622-2062	622-3062
1-5/16-18	UNEF	623-1063	623-2063	623-3063	622-1063	622-2063	622-3063
1-3/8-6	UNC	623-1064	623-2064	623-3064	622-1064	622-2064	622-3064
1-3/8-12	UNF	623-1065	623-2065	623-3065	622-1065	622-2065	622-3065
1-3/8-18	UNEF	623-1066	623-2066	623-3066	622-1066	622-2066	622-3066
1-7/16-18	UNEF	623-1067	623-2067	623-3067	622-1067	622-2067	622-3067
1-1/2-6	UNC	623-1068	623-2068	623-3068	622-1068	622-2068	622-3068
1-1/2-12	UNF	623-1069	623-2069	623-3069	622-1069	622-2069	622-3069
1-1/2-18	UNEF	623-1070	623-2070	623-3070	622-1070	622-2070	622-3070

Plug/Ring Gages

METRIC ISO & UNIFIED 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.

	Plug Gages Go & No Go with Handle 6H	Ring Gages Go & No Go 6G
Size (mm)	Model No.	Model No.
M2.0x.40	617-0011	618-1011
M2.0x.25	617-0012	618-1012
M2.2x.45	617-0021	618-1021
M2.2x.25	617-0022	618-1022
M2.5x.45	617-0031	618-1031
M2.5x.35	617-0032	618-1032
M3.0x.50	617-0041	618-1041
M3.0x.35	617-0042	618-1042
M3.5x.60	617-0051	618-1051
M3.5x.35	617-0052	618-1052
M4.0x.70	617-0061	618-1061
M4.0x.50	617-0062	618-1062
M4.5x.75	617-0063	618-1063
M5.0x.80	617-0071	618-1071
M5.0x.50	617-0072	618-1072
M6.0x1.00	617-0081	618-1081
M6.0x.75	617-0082	618-1082
M6.0x.50	617-0083	618-1083
M7.0x1.00	617-0084	618-1084
M8.0x1.25	617-0091	618-1091
M8.0x1.00	617-0092	618-1092
M8.0x.75	617-0093	618-1093
M8.0x.50	617-0094	618-1094
M10.0x1.50	617-0101	618-1101
M10.0x1.25	617-0102	618-1102
M10.0x1.00	617-0103	618-1103
M10.0x.75	617-0104	618-1104
M10.0x.50	617-0105	618-1105
M12.0x1.75	617-0111	618-1111
M12.0x1.50	617-0112	618-1112
M12.0x1.25	617-0113	618-1113
M12.0x1.00	617-0114	618-1114
M12.0x.75	617-0115	618-1115
M12.0x.50	617-0116	618-1116
M14.0x2.00	617-0121	618-1121
M14.0x1.50	617-0122	618-1122
M14.0x1.25	617-0123	618-1123
M14.0x1.00	617-0124	618-1124
M14.0x.75	617-0125	618-1125
M14.0x.50	617-0126	618-1126
M16.0x2.00	617-0131	618-1131
M16.0x1.50	617-0132	618-1132
M16.0x1.00	617-0133	618-1133
M16.0x.75	617-0134	618-1134
M16.0x.50	617-0135	618-1135
M18.0x2.50	617-0141	618-1141
M18.0x2.00	617-0142	618-1142
M18.0x1.50	617-0143	618-1143
M18.0x1.00	617-0144	618-1144

	Plug Gages Go & No Go with Handle 6H	Ring Gages Go & No Go 6G
Size (mm)	Model No.	Model No.
M18.0x.75	617-0145	618-1145
M18.0x.50	617-0146	618-1146
M20.0x2.50	617-0151	618-1151
M20.0x2.00	617-0152	618-1152
M20.0x1.50	617-0153	618-1153
M20.0x1.00	617-0154	618-1154
M20.0x.75	617-0155	618-1155
M20.0x.50	617-0156	618-1156
M22.0x2.50	617-0161	618-1161
M22.0x2.00	617-0162	618-1162
M22.0x1.50	617-0163	618-1163
M22.0x1.00	617-0164	618-1164
M22.0x.75	617-0165	618-1165
M22.0x.50	617-0166	618-1166
M24.0x3.00	617-0171	618-1171
M24.0x2.00	617-0172	618-1172
M24.0x1.50	617-0173	618-1173
M24.0x1.00	617-0174	618-1174
M24.0x.75	617-0175	618-1175
M24.0x.50	617-0176	618-1176
M27.0x3.00	617-0181	618-1181
M27.0x2.00	617-0182	618-1182
M27.0x1.50	617-0183	618-1183
M27.0x1.00	617-0184	618-1184
M27.0x.75	617-0185	618-1185
M27.0x.50	617-0186	618-1186
M30.0x3.50	617-0191	618-1191
M30.0x3.00	617-0192	618-1192
M30.2x2.00	617-0193	618-1193
M30.3x1.50	617-0194	618-1194
M30.0x1.00	617-0195	618-1195
M30.0x.75	617-0196	618-1196
M33.0x3.50	617-0201	618-1201
M33.0x3.00	617-0202	618-1202
M33.0x2.00	617-0203	618-1203
M33.0x1.50	617-0204	618-1204
M33.0x1.00	617-0205	618-1205
M33.0x.75	617-0206	618-1206
M36.0x4.00	617-0211	618-1211
M36.00x3.00	617-0212	618-1212
M36.0x2.00	617-0213	618-1213
M36.00x1.50	617-0214	618-1214
M36.0x1.00	617-0215	618-1215
M39.0x4.00	617-0221	618-1221
M39.0x3.00	617-0222	618-1222
M39.0x2.00	617-0223	618-1223
M39.0x1.50	617-0224	618-1224
M39.0x1.00	617-0225	618-1225

Plug/Ring Gages

STRAIGHT PIPE THEND PLUG/RING GAGES WITH HAM THREAD SEALING

Conform: GB/T 10922



Gage code	T.P.I	Pitch(mm)	Plug gage Model No.	Ring gage (Go) Model No.	Ring gage (No Go) Model No.
G1/16	28	0.907	617-1001	618-1701	619-1001
G1/8	28	0.907	617-1002	618-1702	619-1002
G1/4	19	1.337	617-1003	618-1703	619-1003
G3/8	19	1.337	617-1004	618-1704	619-1004
G1/2	14	1.814	617-1005	618-1705	619-1005
G5/8	14	1.814	617-1006	618-1706	619-1006
G3/4	14	1.814	617-1007	618-1707	619-1007
G7/8	11	1.814	617-1008	618-1708	619-1008
G1	11	2.309	617-1009	618-1709	619-1009
G1 1/8	11	2.309	617-1010	618-1710	619-1010
G1 1/4	11	2.309	617-1011	618-1711	619-1011
G1 1/2	11	2.309	617-1012	618-1712	619-1012
G1 3/4	11	2.309	617-1013	618-1713	619-1013
G2	11	2.309	617-1014	618-1714	619-1014
G2 1/4	11	2.309	617-1015	618-1715	619-1015
G2 1/2	11	2.309	617-1016	618-1716	619-1016
G2 3/4	11	2.309	617-1017	618-1717	619-1017
G3	11	2.309	617-1018	618-1718	619-1018
G3 1/2	11	2.309	617-1019	618-1719	619-1019
G4	11	2.309	617-1020	618-1720	619-1020

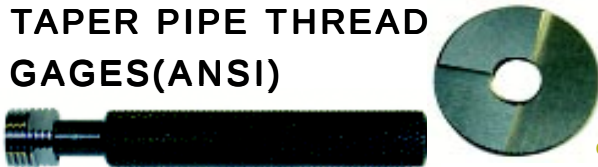
AMERICAN STANDARD THREAD GAUGE

Conform: FED-STD-H28/12



Gage code	Thread/perinch	Plug Gage Model No.	Ring Gage (Go) Model No.	Ring Gage (No Go) Model No.
1/4-16ACME	16	617-1301	618-1301	619-1301
5/16-14ACME	14	617-1302	618-1302	619-1302
3/8-12ACME	12	617-1303	618-1303	619-1303
7/16-12ACME	12	617-1304	618-1304	619-1304
1/2-10ACME	10	617-1305	618-1305	619-1305
5/8-8ACME	8	617-1306	618-1306	619-1306
3/4-6ACME	6	617-1307	618-1307	619-1307
7/8-6ACME	6	617-1308	618-1308	619-1308
1-5ACME	5	617-1309	618-1309	619-1309
1 1/8-5ACME	5	617-1310	618-1310	619-1310
1 1/4-5ACME	5	617-1311	618-1311	619-1311
1 3/8-4ACME	4	617-1312	618-1312	619-1312
1 1/2-4ACME	4	617-1313	618-1313	619-1313
1 3/4-4ACME	4	617-1314	618-1314	619-1314
2-4ACME	4	617-1315	618-1315	619-1315

TAPER PIPE THREAD GAGES(ANSI)



Conform:

FED-STD-H28/7

Gage code	Pitch(mm)	Plug gage Model No.	Ring gage Model No.
1/16-27NPT	0.941	617-1201	618-1201
1/8-27NPT	0.941	617-1202	618-1202
1/4-18NPT	1.411	617-1203	618-1203
3/8-18NPT	1.411	617-1204	618-1204
1/2-14NPT	1.814	617-1205	618-1205
3/4-14NPT	1.814	617-1206	618-1206
1-11.5NPT	2.209	617-1207	618-1207
1 1/4-11.5NPT	2.209	617-1208	618-1208
1 1/2-11.5NPT	2.209	617-1209	618-1209
2-18NPT	2.209	617-1210	618-1210
2 1/2-8NPT	3.175	617-1211	618-1211
3-8NPT	3.175	617-1212	618-1212
1/16-27NPTF	0.941	617-1213	618-1213
1/8-27NPTF	0.941	617-1214	618-1214
1/4-18NPTF	1.411	617-1215	618-1215
3/8-18NPTF	1.411	617-1216	618-1216
1/2-14NPTF	1.814	617-1217	618-1217
3/4-14NPTF	1.814	617-1218	618-1218
1-11.5NPTF	2.209	617-1219	618-1219
1 1/4-11.5NPTF	2.209	617-1220	618-1220
1 1/2-11.5NPTF	2.209	617-1221	618-1221
2-18NPTF	2.209	617-1222	618-1222
2 1/2-8NPTF	3.175	617-1223	618-1223
3-8NPTF	3.175	617-1224	618-1224

THE THREAD GAUGE FOR SM

Grade 2/3

Size	Thread/perinch	Pitch	Plug gage Model No.	Ring gage (Go) Model No.	Ring gage (No Go) Model No.
1/2	20	1.27	617-1501	618-1501	619-1501
1/2	16	1.588	617-1502	618-1502	619-1502
1/2	12	2.117	617-1503	618-1503	619-1503
9/16	20	1.27	617-1504	618-1504	619-1504
9/16	16	1.588	617-1505	618-1505	619-1505
9/16	12	2.117	617-1506	618-1506	619-1506
5/8	20	1.27	617-1507	618-1507	619-1507
5/8	16	1.588	617-1508	618-1508	619-1508
5/8	12	2.117	617-1509	618-1509	619-1509
11/16	20	1.27	617-1510	618-1510	619-1510
11/16	16	1.588	617-1511	618-1511	619-1511
11/16	12	2.117	617-1512	618-1512	619-1512
3/4	16	1.588	617-1513	618-1513	619-1513
3/4	12	2.117	617-1514	618-1514	619-1514
3/4	10	2.54	617-1515	618-1515	619-1515
7/8	16	1.588	617-1516	618-1516	619-1516
7/8	12	2.117	617-1517	618-1517	619-1517
7/8	10	2.54	617-1518	618-1518	619-1518
1	16	1.588	617-1519	618-1519	619-1519
1	12	2.117	617-1520	618-1520	619-1520
1	10	2.54	617-1521	618-1521	619-1521

Plug/Ring Gages

THE BRITISH STANDARD THREAD GAUGE

Conform: BS84.1956
Accuracy Grade 2/3



BSW Specification	Plus gage Model No.	Ring gage (Go) Model No.	Ring gage (No Go) Model No.
1/8-40	617-1401	618-1401	619-1401
3/16-24	617-1402	618-1402	619-1402
1/4-20	617-1403	618-1403	619-1403
5/16-18	617-1404	618-1404	619-1404
3/8-16	617-1405	618-1405	619-1405
7/16-14	617-1406	618-1406	619-1406
1/2-12	617-1407	618-1407	619-1407
9/16-12	617-1408	618-1408	619-1408
5/8-11	617-1409	618-1409	619-1409
11/16-11	617-1410	618-1410	619-1410
3/4-10	617-1411	618-1411	619-1411
7/8-9	617-1412	618-1412	619-1412
1-8	617-1413	618-1413	619-1413
1 1/8-7	617-1414	618-1414	619-1414
1 1/4-7	617-1415	618-1415	619-1415
1 1/2-6	617-1416	618-1416	619-1416
1 3/4-5	617-1417	618-1417	619-1417
2-4.5	617-1418	618-1418	619-1418

BSF Specification	Plus gage Model No.	Ring gage (Go) Model No.	Ring gage (No Go) Model No.
3/16-32	617-1420	618-1420	619-1420
7/32-28	617-1421	618-1421	619-1421
1/4-26	617-1422	618-1422	619-1422
9/32-26	617-1423	618-1423	619-1423
5/16-22	617-1424	618-1424	619-1424
3/8-20	617-1425	618-1425	619-1425
7/16-18	617-1426	618-1426	619-1426
1/2-16	617-1427	618-1427	619-1427
9/16-16	617-1428	618-1428	619-1428
5/8-14	617-1429	618-1429	619-1429
11/16-14	617-1430	618-1430	619-1430
3/4-12	617-1431	618-1431	619-1431
7/8-11	617-1432	618-1432	619-1432
1-10	617-1433	618-1433	619-1433
1 1/8-9	617-1434	618-1434	619-1434
1 1/4-9	617-1435	618-1435	619-1435
1 3/8-8	617-1436	618-1436	619-1436
1 1/2-8	617-1437	618-1437	619-1437
1 5/8-8	617-1438	618-1438	619-1438
1 3/4-7	617-1439	618-1439	619-1439

PLAN GAGES

Conform: GB 1957-81 DIN7162
IT6-IT12 Nominal μm



Size (mm)	Plug gage Model No.	Ring gage (Go) Model No.	Ring gage (Go) Model No.
1.8	617-1601	618-1601	619-1601
2.0	617-1602	618-1602	619-1602
2.5	617-1603	618-1603	619-1603
3.0	617-1604	618-1604	619-1604
3.5	617-1605	618-1605	619-1605
4.0	617-1606	618-1606	619-1606
4.5	617-1607	618-1607	619-1607
5.0	617-1608	618-1608	619-1608
6.0	617-1609	618-1609	619-1609
7.0	617-1610	618-1610	619-1610
8.0	617-1611	618-1611	619-1611
9.0	617-1612	618-1612	619-1612
10.0	617-1613	618-1613	619-1613
11.0	617-1614	618-1614	619-1614
12.0	617-1615	618-1615	619-1615
13.0	617-1616	618-1616	619-1616
14.0	617-1617	618-1617	619-1617
15.0	617-1618	618-1618	619-1618
16	617-1619	618-1619	619-1619
17	617-1620	618-1620	619-1620
18	617-1621	618-1621	619-1621
19	617-1622	618-1622	619-1622
20	617-1623	618-1623	619-1623

Size (mm)	Plug gage Model No.	Ring gage (Go) Model No.	Ring gage (Go) Model No.
21	617-1624	618-1624	619-1624
22	617-1625	618-1625	619-1625
23	617-1626	618-1626	619-1626
24	617-1627	618-1627	619-1627
25	617-1628	618-1628	619-1628
26	617-1629	618-1629	619-1629
27	617-1630	618-1630	619-1630
28	617-1631	618-1631	619-1631
29	617-1632	618-1632	619-1632
30	617-1633	618-1633	619-1633
31	617-1634	618-1634	619-1634
32	617-1635	618-1635	619-1635
33	617-1636	618-1636	619-1636
34	617-1637	618-1637	619-1637
35	617-1638	618-1638	619-1638
36	617-1639	618-1639	619-1639
37	617-1640	618-1640	619-1640
38	617-1641	618-1641	619-1641
39	617-1642	618-1642	619-1642
40	617-1643	618-1643	619-1643
42	617-1644	618-1644	619-1644
44	617-1645	618-1645	619-1645
45	617-1646	618-1646	619-1646

Size (mm)	Plug gage Model No.	Ring gage (Go) Model No.	Ring gage (Go) Model No.
46	617-1647	618-1647	619-1647
47	617-1648	618-1648	619-1648
48	617-1649	618-1649	619-1649
50	617-1650	618-1650	619-1650
52	617-1651	618-1651	619-1651
55	617-1652	618-1652	619-1652
58	617-1653	618-1653	619-1653
60	617-1654	618-1654	619-1654
62	617-1655	618-1655	619-1655
65	617-1656	618-1656	619-1656
68	617-1657	618-1657	619-1657
70	617-1658	618-1658	619-1658
72	617-1659	618-1659	619-1659
75	617-1660	618-1660	619-1660
80	617-1661	618-1661	619-1661
82	617-1662	618-1662	619-1662
85	617-1663	618-1663	619-1663
88	617-1664	618-1664	619-1664
90	617-1665	618-1665	619-1665
92	617-1666	618-1666	619-1666
95	617-1667	618-1667	619-1667
98	617-1668	618-1668	619-1668
100	617-1669	618-1669	619-1669

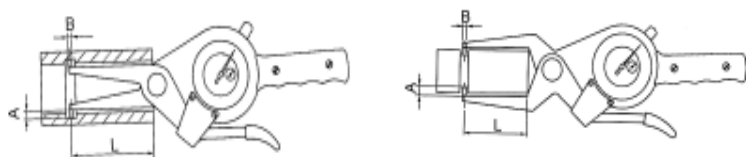
Dial Caliper Gage

INSIDE & OUTSIDE DIAL CALIPER GAGES

Scale Model 0-100-200
Graduation: .01mm

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

METRIC



INCH



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

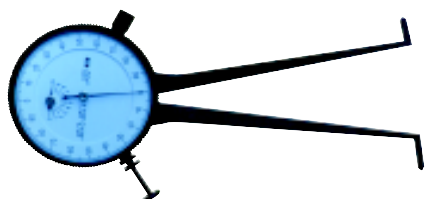
Inside

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

Outside

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

INCH INTERNAL & EXTERNAL DIAL CALIPER GAGES



- .001" 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



INSIDE & OUTSIDE CALIPER

Size	Carbon Steel Model No.	Stainless Steel Model No.	Size	Carbon Steel Model No.	Stainless Steel Model No.
150mm/6"	108-2006	109-2006	250mm/10"	108-2010	109-2010
175mm/7"	108-2007	109-2007	300mm/12"	108-2012	109-2012
200mm/8"	108-2008	109-2008			

Dial/Digital Caliper Gage

DIAL CALIPER GAGUES FOR INSIDE MEASUREMENTS

Dial Caliper Gauge For Inside Measurements

Feature:

Suited for measuring bores, internal groove, and other hard-to-read inside dimension



Metric

Travel 10mm

Range	Resolution	Model No.
5-15mm	0.02mm	612-2000
10-20mm	0.02mm	612-2001
20-30mm	0.02mm	612-2002
30-40mm	0.02mm	612-2003
40-50mm	0.02mm	612-2004

Inch

Travel 10mm

Range	Resolution	Model No.
0.2-0.6"	0.001"	612-2100
0.4-0.8"	0.001"	612-2101
0.8-1.2"	0.001"	612-2102
1.2-1.6"	0.001"	612-2103
1.6-2.0"	0.001"	612-2104

Metric

Travel 20mm

Range	Resolution	Model No.
5-25mm	0.03mm	612-2005
10-30mm	0.03mm	612-2006
20-40mm	0.03mm	612-2007
30-50mm	0.03mm	612-2008
40-60mm	0.03mm	612-2009

Inch

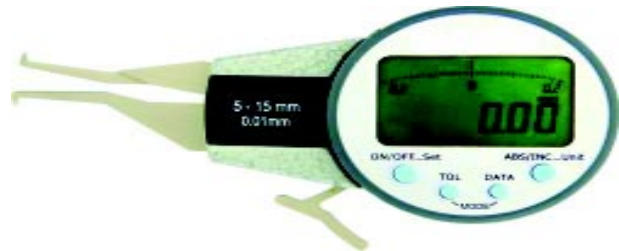
Travel 20mm

Range	Resolution	Model No.
0.2-1"	0.0015"	612-2105
0.4-1.2"	0.0015"	612-2106
0.8-1.6"	0.0015"	612-2107
1.2-2.0"	0.0015"	612-2108
1.6-2.4"	0.0015"	612-2109

ELECTRONIC CALIPER GAUGE FOR INSIDE MEASUREMENTS

Electronic caliper gauge for inside measurements:

- Resolution: 0.02mm, 0.03mm
- Function: Metric/Inch conversion; Origin data recall for absolute measurement; Preset origin for absolute measurement; Absolute and incremental measurement conversion
- RS232 data output. Connecting cable: P0101(Optional)



Travel 10mm

Range	Resolution	Travel 10mm Model No.
5-15mm/0.2-0.6"	0.02mm/0.001"	612-2200
10-20mm/0.4-0.8"	0.02mm/0.001"	612-2201
20-30mm/0.8-1.2"	0.02mm/0.001"	612-2202
30-40mm/1.2-1.6"	0.02mm/0.001"	612-2203
40-50mm/1.6-2.0"	0.02mm/0.001"	612-2204

Travel 20mm

Range	Resolution	Travel 20mm Model No.
5-25mm/0.2-1.0"	0.03mm/0.0015"	612-2205
10-30mm/0.4-1.2"	0.03mm/0.0015"	612-2206
20-40mm/0.8-1.6"	0.03mm/0.0015"	612-2207
30-50mm/1.2-2.0"	0.03mm/0.0015"	612-2208
40-60mm/1.6-2.4"	0.03mm/0.0015"	612-2209

DIAL CALIPER GAGUES FOR OUTSIDE MEASUREMENTS

Electronic caliper gauge for outside measurements:

Electronic Caliper Gauge For Outside Measurements

- Resolution: 0.01mm/0.0005"
- Function: Metric/Inch conversion; Origin data recall for absolute measurement; Preset origin for absolute measurement; Absolute and incremental measurement conversion
- RS232 data output. Connecting cable: P0101(Optional)

One SR44 data battery. Auto power on/off

Travel 10mm

Range	Resolution	Travel 10mm Model No.
0-10mm/0-0.4"	0.02mm/0.001"	612-2500
10-20mm/0.4-0.8"	0.02mm/0.001"	612-2501
20-30mm/0.8-1.2"	0.02mm/0.001"	612-2502
30-40mm/1.2-1.6"	0.02mm/0.001"	612-2503
40-50mm/1.6-2.0"	0.02mm/0.001"	612-2504

Travel 20mm

Range	Resolution	Travel 20mm Model No.
0-20mm/0-0.8"	0.02mm/0.001"	612-2505
10-30mm/0.4-1.2"	0.02mm/0.001"	612-2506
20-40mm/0.8-1.6"	0.02mm/0.001"	612-2507
30-50mm/1.2-2.0"	0.02mm/0.001"	612-2508
40-60mm/1.6-2.4"	0.02mm/0.001"	612-2509



Dial Caliper Gage

DIAL CALIPER GAGUES FOR OUTSIDE MEASUREMENTS

Feature:

Suited for measuring groove and other hard-to-read outside dimension



Metric

Travel 10mm

Range	Resolution	Model No.
0-10mm	0.02mm	612-2300
10-20mm	0.02mm	612-2301
20-30mm	0.02mm	612-2302
30-40mm	0.02mm	612-2303
40-50mm	0.02mm	612-2304

Inch

Travel 10mm

Range	Resolution	Model No.
0-0.4"	0.001"	612-2305
0.4-0.8"	0.001"	612-2306
0.8-1.2"	0.001"	612-2307
1.2-1.6"	0.001"	612-2308
1.6-2.0"	0.001"	612-2309

Metric

Travel 20mm

Range	Resolution	Model No.
0-20mm	0.03mm	612-2400
10-30mm	0.03mm	612-2401
20-40mm	0.03mm	612-2402
30-50mm	0.03mm	612-2403
40-60mm	0.03mm	612-2404

Inch

Travel 20mm

Range	Resolution	Model No.
0-0.8"	0.0015"	612-2405
0.4-1.2"	0.0015"	612-2406
0.8-1.6"	0.0015"	612-2407
1.2-2.0"	0.0015"	612-2408
1.6-2.4"	0.0015"	612-2409

DIAL BORE GAGE SETS



Inch Size

Range	Depth	.001" Model No.	.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

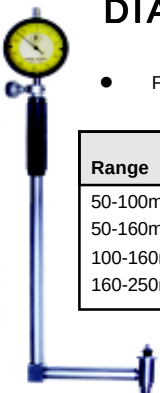
Metric Size, Grad. 0.01mm

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

DIAL BORE GAUGE

- For inside measurement of small holes

Range	Resolution	Model No.
50-100mm	0.01mm	612-0900
50-160mm	0.01mm	612-0901
100-160mm	0.01mm	612-0902
160-250mm	0.01mm	612-0903



DIGITAL BORE GAUGE

- For inside measurement
- Zero setting at any position
- With data output interface
- Metric/Inch system conversion at any position
- Grande 0.002mm

6-10mm/0.24-0.40"	612-0006
10-18mm/0.40-0.70"	612-0007
18-35mm/0.70-1.5"	612-0008
35-50mm/1.4-2"	612-0009
50-160mm/2"-6.125"	612-1001
160-250mm/6.125"-10"	612-1003
250-450mm/10"-16"	612-1004



Dial Indicator

DIAL INDICATORS(Metric Size)

- steel body
- Inside tolerance hand
- Anti-dirty cap
- With dial lock screw



605-4411

605-4405

Dial Size: 60mm

Range	Grad.	Remark	Model No.	With Lug back Model No.
0-1mm	.001mm	10Jewels Shock Proof	605-4401	605-4502
0-3mm	.001mm	10Jewels Shock Proof	605-4403	605-4504
0-5mm	.001mm	10Jewels Shock Proof	605-4405	605-4506
0-3mm	.002mm		605-4407	605-4508
0-3mm	.002mm	10Jewels Shock Proof	605-4409	605-4510
0-5mm	.002mm		605-4411	605-4512
0-5mm	.002mm	10Jewels Shock Proof	605-4413	605-4514

Dial Micron indicator



Dial Size: 57mm

605-4423

605-4425

Range	Grad.	Accuracy	Model No.	With Lug back Model No.
0-1mm	.001mm	5 μ m	605-4421	605-4522
0-12.7mm	.002mm	14 μ m	605-4423	605-4524

mm/inch scale

	Grad.	Accuracy	Model No.	With Lug back Model No.
0-1.27mm/.05"	.002mm/.0001"	.005mm/+/- .0003"	605-0001	605-0005

High quality indicator

- Measuring spindle sealed by means of rubber sleeve, thus preventing contamination by liquid and impurities.
- Round mechanical body.
- Elastic dial adjustable ring.
- With adjustable tolerance markers.
- Jeweled and shock proof.
- With dial locking screw.



Dial Size: 55.5mm

Range (mm)	Grad. (mm)	Accuracy	Model No.
0-3	0.01	14 μ m	605-4530
0-5	0.01	16 μ m	605-4531
0-10	0.01	20 μ m	605-4532

- Measuring spindle sealed by means of rubber sleeve, thus preventing contamination by liquid and impurities.
- Round mechanical body.
- Elastic dial adjustable ring.
- With dial locking screw.



Dial Size: 55.5mm

Range (mm)	Grad. (mm)	Accuracy	Model No.
0-3	0.01	14 μ m	605-4540
0-5	0.01	16 μ m	605-4541
0-10	0.01	20 μ m	605-4542

Universal dial indicator

- With shock-proof structure inside, perfect protecting inside structure from any shock damage
- Inside structure is mainly made of stainless steel and copper, that helps indicators to resist any corrosion
- Jeweled bearings inside promise perfect sensitivity of indicator
- With adjustable tolerance marker and dial locking screw



Dial Size: 60mm Adjustable steel dial ring

Range (mm)	Grad. (mm)	Accuracy	Model No.	With Lug back Model No.	6 jewels Shock Proof Model No.	With Lug back Shock Proof Model No.
0-3	0.01	14 μ m	605-4601	605-4611	605-4621	605-4631
0-5	0.01	16 μ m	605-4602	605-4612	605-4622	605-4632
0-10	0.01	20 μ m	605-4603	605-4613	605-4623	605-4633



Dial Size: 60mm Adjustable plastic dial ring

Range (mm)	Grad. (mm)	Accuracy	Model No.	With Lug back Model No.	6 jewels Shock Proof Model No.	With Lug back Shock Proof Model No.
0-3	0.01	14 μ m	605-4641	605-4651	605-4661	605-4671
0-5	0.01	16 μ m	605-4115	605-4130	605-4330	605-4331
0-10	0.01	20 μ m	605-4125	605-4151	605-4350	605-4136

Dial Indicator

- Round mechanical body.
- Steel dial adjustable ring.
- Anti-dirty cap rises while lifting the measuring spindle.
- Without dial locking screw.



Small dial indicators

Dial Size: 42mm

Range (mm)	Grad. (mm)	Accuracy	Dial	Model No.	With Lug back Model No.
0-3	0.01	14 $\parallel$ $\frac{1}{100}$ mm	0-50-100	605-4105	605-4110
0-5	0.01	16 $\parallel$ $\frac{1}{100}$ mm	0-50-100	605-4821	605-4831
0-6	0.01	16 $\parallel$ $\frac{1}{100}$ mm	0-50-100	605-4822	605-4832
0-8	0.01	16 $\parallel$ $\frac{1}{100}$ mm	0-50-100	605-4145	605-4108
0-10	0.01	20 $\parallel$ $\frac{1}{100}$ mm	0-50-100	605-4823	605-4833
0-3	0.01	14 $\parallel$ $\frac{1}{100}$ mm	0-25-50	605-4824	605-4834
0-5	0.01	16 $\parallel$ $\frac{1}{100}$ mm	0-25-50	605-4825	605-4835
0-6	0.01	16 $\parallel$ $\frac{1}{100}$ mm	0-25-50	605-4826	605-4836

Large measuring range dial indicators

- Reach shaped mechanical body.
- With adjustable tolerance marker and dial locking screw.

Dial Size: 60mm Adjustable plastic dial ring

Range (mm)	Grad. (mm)	Accuracy	Model No.	With Lug back Model No.
0-15	0.01	23 $\parallel$ $\frac{1}{100}$ mm	605-4921	605-4150
0-20	0.01	25 $\parallel$ $\frac{1}{100}$ mm	605-4922	605-4190
0-25	0.01	25 $\parallel$ $\frac{1}{100}$ mm	605-4160	605-4931
0-30	0.01	30 $\parallel$ $\frac{1}{100}$ mm	605-4924	605-4165



Dial Size: 60mm Adjustable Steel dial ring

Range (mm)	Grad. (mm)	Accuracy	Model No.	With Lug back Model No.
0-15	0.01	23 $\parallel$ $\frac{1}{100}$ mm	605-4941	605-4951
0-20	0.01	25 $\parallel$ $\frac{1}{100}$ mm	605-4942	605-4952
0-25	0.01	25 $\parallel$ $\frac{1}{100}$ mm	605-4943	605-4953
0-30	0.01	30 $\parallel$ $\frac{1}{100}$ mm	605-4944	605-4954

- Reach shaped mechanical body.
- With dial locking screw.
- With elastic buffer device inside to protect indicator from shock damage.

Dial Size: 60mm Adjustable plastic dial ring

Range (mm)	Grad. (mm)	Accuracy	Model No.	With Lug back Model No.
0-30	0.01	30 $\parallel$ $\frac{1}{100}$ mm	605-4961	605-4971
0-50	0.01	40 $\parallel$ $\frac{1}{100}$ mm	605-4962	605-4972
0-100	0.01	50 $\parallel$ $\frac{1}{100}$ mm	605-4963	605-4973



Dial Size: 60mm Adjustable Steel dial ring

Range (mm)	Grad. (mm)	Accuracy	Model No.	With Lug back Model No.
0-30	0.01	30 $\parallel$ $\frac{1}{100}$ mm	605-4981	605-4991
0-50	0.01	40 $\parallel$ $\frac{1}{100}$ mm	605-4982	605-4992
0-100	0.01	50 $\parallel$ $\frac{1}{100}$ mm	605-4983	605-4993

Extra Large dial indicators

- Round mechanical body.
- Adjustable steel dial ring.
- With dial locking screw.
- Dial diameter is 80mm for large reading distance and poor light conditions.
- With elastic buffer device inside to protect indicator from shock damage.



Dial Size: 80mm Adjustable Steel dial ring

Range (mm)	Grad. (mm)	Accuracy	Model No.	With Lug back Model No.
0-50	0.01	40 $\parallel$ $\frac{1}{100}$ mm	605-4180	605-4170
0-80	0.01	45 $\parallel$ $\frac{1}{100}$ mm	605-4181	605-4184
0-100	0.01	50 $\parallel$ $\frac{1}{100}$ mm	605-4183	605-4182

Butt end dial indicators

- Perfect for vertical direction measurements.



With $\varnothing$ 8mm Stem.

Range (mm)	Grad. (mm)	Dial size (mm)	Model No.
0-3	0.01	80mm	605-6001
0-5	0.01	60mm	605-6002
0-5	0.01	42mm	605-6003

Dial Indicator

DIAL INDICATORS(Inch Size)

- Inside tolerance hand
- Locking screw with cushion rubber
- With dial lock screw
- With lug back



Universal dial indicator

Dial Size: 2.36"

Range	Grad.	White Face		Black Face	
		Plastic ring	Steel ring	Plastic ring	Steel ring
		Model No.	Model No.	Model No.	Model No.
1"	0.001"	605-4070	605-6110	605-4080	605-6130
0.5"	0.001"	605-4050	605-6111	605-6121	605-6131
0.25"	0.001"	605-4030	605-6112	605-6122	605-6132
0.5"/12.7mm	0.001"/0.025mm	605-6100	605-6113	605-6123	605-6133

Dial Size: 2.36"

Range	Grad.	White Face		Black Face	
		Plastic ring	Steel ring	Plastic ring	Steel ring
		Model No.	Model No.	Model No.	Model No.
1"	0.0001"	605-4025	605-6201	605-6211	605-6221
0.5"	0.0001"	605-4003	605-6202	605-6212	605-6222
0.25"	0.0001"	605-4006	605-6203	605-6213	605-6223
1"	0.0005"	605-4071	605-6204	605-6214	605-6224
0.5"	0.0005"	605-4052	605-6205	605-6215	605-6225
0.25"	0.0005"	605-4005	605-6206	605-6216	605-6226

Small dial indicator

Dial Size: 1.65"

Range	Grad.	White Face		Black Face	
		Plastic ring	Steel ring	Plastic ring	Steel ring
		Model No.	Model No.	Model No.	Model No.
0.25"	0.001"	605-4030	605-6231	605-6241	605-6251
0.05"	0.0001"	605-4000	605-6232	605-6242	605-6252
0.2"	0.0001"	605-4001	605-6233	605-6243	605-6253
0.2"	0.0005"	605-4004	605-6234	605-6244	605-6254
0.0125"	0.0005"	605-4026	605-6235	605-6245	605-6255
0.0125"	0.00025"	605-4027	605-6236	605-6246	605-6256
0.2"	0.00025"	605-4028	605-6237	605-6247	605-6257

Large range dial indicator

Dial Size: 2.36"

Range	Grad.	White Face		Black Face	
		Plastic ring	Steel ring	Plastic ring	Steel ring
		Model No.	Model No.	Model No.	Model No.
2"	0.001"	605-4205	605-6261	605-4206	605-6281
2"(Dial 3")	0.001"	605-4002	605-6262	605-6272	605-6282

Back plunger dial indicators

- Suitable to be fixed on a level stand or a measuring clamp, also used in a small space in which the common dial indicator can not be use easily



With $\varnothing 3/8"$ Stem.

Range	Grad.	Dial size	Model No.
0-0.2"	0.001"	2.36"	605-3301
0-0.2"	0.001"	1.65"	605-3304

Dial Indicator

DUAL SYSTEM DIAL INDICATORS



Inch/Metric
Inch Outside.Metric Inside

.001"/.01mm		
Range	Dial Dia.	Model No.
0-1/2"/0-15mm	2-3/8	605-1301
0-1"/0-25mm	2-3/8	605-1305

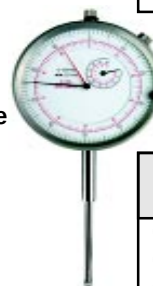


.001"/.01mm		
Range	Dial Dia.	Model No.
0-1"/0-25mm	3"	605-1310
0-1.5"/0-40mm	3"	605-1315
0-2"/0-50mm	3"	605-1320



Metric/Inch
Metric Outside.Inch Inside

		.01mm/.001"
Range	Dial Dia.	Model No.
0-15mm/0-1/2"	60mm	605-1401
0-25mm/0-1"	60mm	605-1405



		.01mm/.001"
Range	Dial Dia.	Model No.
0-25mm/0-1"	76mm	605-1410
0-40mm/0-1.5"	76mm	605-1415
0-50mm/0-2"	76mm	605-1420

DIAL TEST INDICATOR

with Ruby Ball Head

The characters of Ruby Contact Point

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

*605-4709,605-4909

Dial Face of Pocket Type is $\varnothing 1.26"$ (32mm).

*605-5709,605-5909

Dial Face of Pocket Type is $\varnothing 1.26"$ (32mm).



		White Face	Black Face
Range	Reading	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
0.03 mm	0.005 mm	*605-4709	*605-4909



		White Face	Black Face
Range	Reading	Model No.	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
0.03 mm	0.005 mm	*605-5709	*605-5909

HORIZONTAL TEST INDICATOR

- Large measuring range, Easy to read with small dial to indicate the number of revolution.
- Measurement for both clockwise and auto matically while the measuring head moves forward or backward.
- With the gradient of 12 of the dial, it can supply exact reading.
- The monoenclosure can ensure the strengt of its structure and increase the airtightness to protect dirt coming inside.



Range	- Grad.	Accuracy	Dial Size	Model No.
0.06"/+0.06"	.0005"	0.0015"	1.5"	605-1700
-1.6mm/+1.6mm	.01mm	25 μ m	38mm	605-1705

DIAL TEST INDICATORS WITH MM/INCH SCALE



Range	- Grad.	Accuracy	Dial Size	Model No.	Ruby ball head Model No.
0-0.03"/0-0.6mm	0.0005"/0.01mm	0.0005"	38.4mm	605-1810	605-1811

Test Indicator

TEST INDICATOR



Vertical

Range	Reading	White Face Model No.	Black Face Model No.
0.03"	0.001"	605-4801	605-5001
0.03"	0.0005"	605-4810	605-5010
0.008"	0.0001"	605-4805	605-5005
0.8 mm	0.01 mm	605-4813	605-5013
0.2 mm	0.002 mm	605-4811	605-5011
0.12 mm	0.001 mm	605-4812	605-5012



with Ruby Ball Head

Range	Reading	White Face Model No.	Black Face Model No.
0.03"	0.001"	605-5401	605-5501
0.03"	0.0005"	605-5410	605-5510
0.008"	0.0001"	605-5405	605-5505
0.8 mm	0.01 mm	605-5413	605-5513
0.2 mm	0.002 mm	605-5411	605-5511
0.12 mm	0.001 mm	605-5412	605-5512



Model No.
605-1800



Model No.
605-1805

MECHANICAL DIAL COMPARATORS

- Maximum accuracy (Rubies 7)
- Shockproof
- Water and dust protection
- Easy reading
- Easy fine adjustment
- Cable release for lifting of measuring spindle

Range	Grad.	Dial Reading	Permissible Error	Model No.
+/-0.05mm	0.001mm	50-0-50	1.2 μ m	605-1800
+/-0.05mm	0.001mm	50-0-50	1.2 μ m	605-1805



Model No.
605-1825



Model No.
605-1830

- Allows high measurement accuracy and minimal hysteresis
- Made of stainless steel hardened and ground.
- Jewelled movement
- Self-contained movement
- Lockable screw with fine adjustment
- Shock-proof

Range	Grad.	Model No.
+/-0.05mm	0.001mm	605-1825
+/-0.002"	0.00005"	605-1830



DUAL-LIMIT ELECTRIC CONTACT

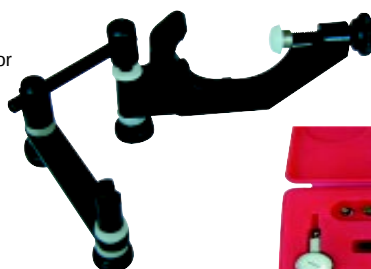
- ▣ Lever gear enhances system, straight-line.
- ▣ High precision, stable accuracy
- ▣ To measure pinpoint accuracy dimensions and shape; position errors by comparative method, also can be used as indicators of pinpoint measuring apparatus

Range	Grad.	Model No.
+/-0.05mm	0.001mm	605-1820

We can supply the accessory of the data line with the different length as customer's request

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



2pcs Set include:
1pc 0.03x.0005" indicator
1pc holder
Model No. 135-0014

Indicator Accessories

22 PC INDICATOR POINT SETS

In plastic case

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

Inch Thread 0.112"-48

Model No. 605-0022

Metric Thread M3-0.5

Model No. 605-0023



ZERO SET UNIVERSAL ATTACHMENT

For standard ZeroSet indicator accessory.

Allows the placement of any test indicator with dovetails in a multitude of positions

- Angles up to 90° on either side
- Allows for an infinite range of measurements over an extensive area
- Attaches in seconds to our Z9860



Model No.820-9865

INDICATOR ACCESSORIES



Code	Description	Model No.
A	Universal Dovetail Indicator Holder-1/4" Dia.x3"OAL	625-9008
B	Swivel Clamp 3/8" & 7/32 Hole	625-9600
C	Swivel Clamp 3/8" & 1/4" Hole	625-9601
D	Swivel Support 3/8" Dia. x1" Long Shank	625-9635
E	Swivel Support 3/8" Dia. x 3-5/8" Long Shank	625-9636
F	Single Joint Holder-3/8" Shank Dovetail Mount	625-9660
G	Double Joint Holder-3/8" Shank Dovetail Mount	625-9665
H	Dovetail Stem-5/32" Diameter	625-7500
I	Dovetail Stem-7/32" Diameter	625-7501
J	Dovetail Stem-1/4" Diameter	625-7502
K	Dovetail Stem-5/16" Diameter	625-7503
L	Round Bar-7/32" Diameter	625-9630
M	Rectangular Bar-3/16"x5/16"	625-9625
N	Half Round Holder with Dovetail & 5/32" Mount	625-7800
O	Angle Attachment-3/8" Shank and Hole	625-9640
P	Universal Dovetail Clamp-1/8" to 1/4" & Dovetail	625-9681
C,L,M	Swivel Clamp Holding Bar Set	625-9650
Q	Axial Support, 3/8" Diameter	625-9610
R	Dial Indicator Depth Base-2-1/2" Long	625-9228
R	Dial Indicator Depth Base-4" Long	625-9229

CENTERING INDICATORS



Inch

Specifications	Model No. 607-4904
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"

- 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 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

Specifications	Model No. 607-4905
Range	0-3mm
Length of Straight Feeler	45,100,154mm
Length of Centre Point Feeler	52.5mm
Length of Curved Feeler	46,100,154mm

Digital Indicator Indicator

ELECTRONIC DIGITAL INDICATORS

- Large and easy-to-view LCD
- Zero setting at any position
- Metric/Inch system conversion at any position
- With data output interface
- Data hold
- Fast tracing MAX/MIN value during measurement



Range	.001mm/.00005"	Model No.
0-5mm/0.2"		605-2605
0-6mm		605-2606
0-10mm/0.4"		605-2610
0-15mm/0.6"		605-2615



High precision Type

Range	.005mm/.00025"	Model No.
0-10mm/0.4"		605-2510
0-15mm/0.6"		605-2515



605-2010



605-2050

- Large and easy-to-view LCD
- Zero setting at any position
- units conversion
- Data output
- Automatic power-on/off
- Fast tracing MAX/MIN value during measurement

Range	Permissible Error	.01mm/.0005"	Model No.
0-10mm/0.4"	0-10mm/0.4"		605-2010
0-30mm/1.2"	0-30mm/1.2"		605-2030
0-50mm/2"	0-50mm/2"		605-2050



4 Keys Type

Range	.01mm/.0005"	Model No.
0-10mm/0.4"		605-3110
0-25mm/1.0"		605-3104



I Type



II Type

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

Range	.01mm/.0005"	.001mm/.00005"	Model No.	Model No.
0-12.7mm/0.5"	I Type		605-2700	605-2710
0-12.7mm/0.5"	II Type		605-2720	605-2725
0-25.4mm/1"	I Type		605-2730	605-2735
0-25.4mm/1"	II Type		605-2740	605-2745



III Type

Range	.01mm/.0005"	.001mm/.00005"	Model No.	Model No.
0-12.7mm/0.5"			605-2800	605-2810
0-25.4mm/0-1"			605-2805	605-2815



- Zero setting at any position
- Metric/Inch system conversion at any position
- With data output interface

Range	.01mm/.0005"	.001mm/.00005"	Model No.	Model No.
0-10mm/0.4"			605-2950	--
0-12.7mm/0.5"			605-2952	--
0-10mm/0.4"			--	605-2954



- 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

Range	Reading	Model No.
0-12.7mm/0.5"	.001/.00005"	605-0190
0-12.7mm/0.5"	.005/.0001"	605-0191



- Water and dust proof
- Power on/off
- Zero setting at any position
- Metric/Inch system conversion at any position
- Absolute or increase
- Data output

Range	.01mm/.0005"	.001mm/.00005"	.005mm/.00025"	Model No.	Model No.	Model No.
0-6.5mm/0.25"				605-2901	605-2910	605-2916
0-12.7mm/0.5"				605-2905	605-2915	605-2925



Analog Display 5 Keys Type

- Absolute button
- SPC out put
- Preset, Zero Set, Inch/mm, and Tolerance Set.
- Large LCD Screen, 6-digital display
- 360°turnable display

Range	.002mm/.00005"	Model No.
0-6.35mm/0.25"		605-2840
0-12.5mm/0.5"		605-2845

Digital Indicator Indicator

- Digital and analog bar display
- Manual power on/off
- Unit switching
- Set buttons can be used to enter any numerical values
- Zero setting of display at any position
- Absolute/Relative measuring
- Reversal of counting direction
- Analog div. switching
- Tolerance judgment can be performed by setting upper/lower limits
- Max/Min/Max-Min memory
- Storage of current measuring value
- Buttons can be locked to avoid inadvertent adjustment
- Full-duplex optp RS232C data port
- Dial indicator can be operated by remote control via data port
- Function and display section can be rotated through 270°

Analog Display 6 Keys Type



Range	Reading	Analog division	Model No.
0-12.7mm/0.5"	.001/.00005"	.01mm/.0005"	605-0195
0-12.7mm/0.5"	.001/.00005"	.001/m.00005"	605-0196



3 Keys Type, High precision

Range	Reading	Error	Model No.
0-10mm/0.5"	.001/.00005"	+/-0.02mm	605-0197

- Large LCD for reading easily
- Measuring unit conversion at any position
- Zero set any position
- Measuring data output to external processor

5 Keys Type

In plastic case

- On/Off button.
- Absolute button
- Tolerance setting and OK(Go) or +/- NG discrimination
- Preset, Zero Set, Inch/mm, and Tolerance Set.
- Water and dust proof



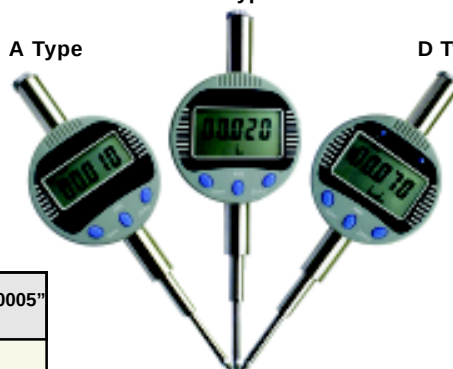
Range	.01mm/.0005"	.001mm/.00005"	Model No.
0-25mm/0-1"	605-2950	605-2960	
0-50mm/0-2"	605-2955	605-2965	

3 or 5 Keys Type

B Type

A Type

D Type



- Function: Absolute and incremental measurement conversion; Metric/Inch conversion; Tolerance set (permitting classification measurement); Origin data recall for absolute measurement
- One CR2032 battery-3V
- RS232 data output.
- Auto power off
- Travel of indicator: 25.4mm. Resolution: 0.005mm/0.0002" Accuracy: 0.015mm

A Tyoe	B Tyoe	D Tyoe
605-330A	605-330B	605-330D
Three keys	Three keys with electron finger	five keys with electron finger

DIGITAL TEST INDICATOR

- Power on/off key, Zero setting key, Metric/Inch key, Tolerance key.
- Contact Point Dia.: 2.5mm
- Accuracy: +/- 0.02mm



Range: +/-0.5mm/0.02"
Grad.: 0.01mm/0.0005"
Model No. 605-0002
Range: +/-1.6mm
Grad.: 0.01mm
Model No. 605-0006

7 Keys Type

0-1/2"/12.5mm
0.0005"/0.01mm

In plastic case

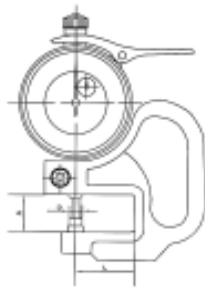
- On/Off button.
- Absolute button
- SPC out put
- Preset, Zero Set, Inch/mm, and Tolerance Set.
- Large LCD Screen, 6-digital display

Model No. 605-2000



Thickness Gauges

DIAL THICKNESS GAUGES



- Equipped with shock-proof dial indicator.
- Measuring faces close when not used

Range	Reading	L	Model No.
0-1mm	0.001mm	30mm	615-6210
0-10mm	0.01mm	30mm	615-6214
0-10mm	0.01mm	120mm	615-6215
0-0.4"	0.001"	30mm	615-6216
0-0.4"	0.001"	120mm	615-6225

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



Range	Reading	Model No.
0-10mm	0.01mm	615-6230
0-0.5"	0.001"	615-6232
0-0.5"	0.0005"	615-6234

DIGITAL THICKNESS GAUGES



Measuring faces close when not used

Range	Reading	L	Model No.
0-10mm	0.001/.00005"	30mm	615-6710
0-10mm	0.001/.00005"	120mm	615-6714
0-10mm	0.01/.0005"	30mm	615-6715
0-10mm	0.01/.0005"	120mm	615-6716



DIAL THICKNESS GAUGE FOR PIPE

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



DIGITAL THICKNESS GAUGE FOR PIPE

Model No.	615-6396
Range:	0-10mm/0.4"
Reading:	0.01/.0005"
Inside dia.of pipe:	>4.0mm



LENS CENTER THICKNESS GAUGE

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



DIGITAL LENS CENTER THICKNESS GAUGES

Model No.	615-6366	615-6361
Range:	0-10mm/0.4"	0-10mm/0.4"
Reading:	0.01/.0005"	0.01/.0005"
Distance of 2 points	25 mm	55 mm



ROLLER TYPE THICKNESS GAUGES

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



DIGITAL ROLLER TYPE THICKNESS GAUGES

Model No.	615-6381
Range:	0-10mm/0.4"
Reading:	0.01 mm/.0005"
Dimension: mm	
42.5 (A)	22 (B)
7 (C)	100(L)

Thickness Gauges



POCKET THICKNESS GAUGES

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

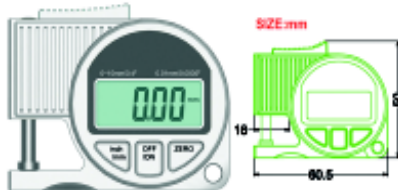
ELECTRONIC DIGITAL THICKNESS GAUGES

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

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



MINI DIGITAL THICKNESS GAUGE



FEATURES

- Large LCD display for easy reading.
- On/Off switch.
- Zero setting at any position.
- Metric/inch system conversion at any position.
- Power: 1.5V battery.

Range	Resolution	Throat depth	Accuracy	Model No.
0-10mm/0.4"	0.01mm/0.0005"	11mm	±0.02mm	615-1700

DIGITAL THICKNESS GAGE

Horizontal type



Range	Graduation	Model No.
12mm/.5"	.01mm/.0005"	101-5605

DIGITAL THICKNESS GAGE

Carbon Fiber composite

- Made of light weight carbon fiber composite material.
- Zero setting at any position.
- Metric/inch conversion.
- Power: 1.5V battery.
- Inch fractional system is available.



Range	Resolution	Throat depth	Accuracy	Model No.
0-12.7mm/0.5"	0.01mm/0.0005"	19	±0.1mm	615-1701

MINI DIGITAL THICKNESS GAGE



Range	Graduation	Model No.
0-20mm	.01mm/.0005"	101-5610

CONSTANT PRESSURE DIAL THICKNESS GAUGES

- With constant pressure of 0.1Mpa, easy to accurately measure the thickness of plastic film, paper and metal sheet

Model No.	615-6510	615-6511
Range:	0-5mm	0-1mm
Reading:	.01mm	.001mm



CONSTANT PRESSURE DIGITAL THICKNESS GAUGES

Model No.	615-6520	615-6521
Range:	0-5mm	0-1mm
Reading:	.01mm/.0005"	.001mm/.00005"

UNIVERSAL 3D TASTER SET



- Accuracy: 0.01mm/0.0004"
- Diameter of holding bar: ∅20mm/3/4"

Metric Size

Movement	Grad.	Ruby Head Model No.	Steel Head Model No.
Radial 0-10mm	Radial 0.01mm	605-1900	605-1905
Axial 0-6mm	Axial 0.0032mm		

Inch Size

Movement	Grad.	Ruby Head Model No.	Steel Head Model No.
Radial 0-0.4"	Radial 0.0005"	605-1910	605-1915
Axial 0-0.25"	Axial 0.00016"		

Special Gauges

DIAL GEM GAUGES

Easy to measure the dimension of a precious stone inserted in a ring of the inside diameter of a ring



Model No.	615-6700	615-6701
Range:	0-20mm	0-20mm
Reading:	0.1mm	0.01mm

DIGITAL GEM GAUGES

- With LCD display
- With power on/off button, zero setting and Metric/Inch system conversion can be made at any position



Model No.	615-6702
Range:	0-20mm
Reading:	.01/.0005"

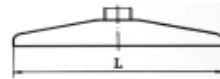
DIAL DEPTH GAUGES



- Equipped with shock-proof dial indicator
- With interchangeable rods(spherical head) for wide measuring range

Model No.	615-6720
Range:	0-100mm
Reading:	.01mm
L:	80mm

DIGITAL DEPTH GAUGES



Model No.	615-6721
Range:	0-100mm
Reading:	.01mm/.0005"
L:	80mm



LARGE RADIAL DIAL GAUGES



- Equipped with shock-proof dial indicator

Model No.	615-6730
Range:	100-1000mm
Reading:	.001mm

LARGE RADIAL DIGITAL GAUGES



Model No.	615-6731
Range:	100-1000mm
Reading:	.001mm/0.0005"

SPHERICAL RADIAL DIAL GAUGES



- Equipped with shock-proof dial indicator
- Easy to measure the radius of spherical item

Model No.	615-6740	615-6741
Range:	15-100mm	325-1250mm
Reading:	.01mm	.001mm

SPHERICAL RADIAL DIGITAL GAUGES



Model No.	615-6750	615-6751
Range:	15-100mm	325-1250mm
Reading:	.01mm	.001mm

PISTOL TYPE DIAL SNAP GAUGES



- Perfect constructure inside made the measuring accuracy reach 0.01mm
- Easy to measure the diameter of inside groove or other internal dimensions
- Equipped with three sets of changeable inserts for different need.

Model No.	615-6760
Range:	30-150mm
Reading:	.01mm
jaw length:	30/50/80(set)

ELECTRONIC DIGITAL GEAR TOOTH SPAN COMPARATOR



It combines precision rack and gear with round capacitive sensor. It can measure the gear wheel's teeth span which is bigger than 1mm

Model No.	615-6770
Range:	18-40mm
Reading:	.001/.00005"

Tyre Gauges

Z-AXIS SETTERS



- Low spring force to avoid breaking of small size end mills and drills
- Easy to be calibrated by a parallel or gage block
- Made of stainless steel

Build in dial style

Setting Height	Ing Range	Grade	Accuracy	Model No.
2"	0-0.1"	0.001"	0.0004"	605-2300
50mm	0-2mm	0.01mm	0.008mm	605-2302



Plug in dial style

Setting Height	Ing Range	Grade	Accuracy	Model No.
2"	0-0.1"	0.001"	0.0004"	605-2304
50mm	0-2mm	0.01mm	0.008mm	605-2306



Setting Height	Grade	Accuracy	Model No.
50mm	0.01mm	0.02mm	605-2308

Z-AXIS SETTERS

Zero Setting For CNC Machine

- Establishing of "0" reference point with built in indicator
- Positioning accuracy and repeatability 0.0004"/0.01mm
- 1.45"/37mm square.2"/50mm height



Without Magnetic Base

Height	Grade	Model No.
2"	0.0005"	605-2400
50mm	0.01mm	605-2402

With Magnetic Base

Height	Grade	Model No.
4"	0.0005"	605-2404
100mm	0.01mm	605-2406

Z-AXIS SETTERS

Features

- Turn the button of setting-zero from "use" to "test";
- Press down, the small indicator will show "0", keep your hand and then adjust indicator to be zero at long-needle;
- Turn the button of setting-zero to "use" before use;
- Put on the work piece, cutter touch probe side, when the long-needle and short-needle moving to "0" at the same time, the distance of the cutter with work piece is 100mm.



Height (mm)	Grad. (mm)	Range (mm)	L (mm)	W (mm)	Explanation	Model No
50	0.01	1.5	56	57	Square base, Inside indicator, Non-magnetic	605-2410
50	0.01	1.5	56	57	Square base, Inside indicator, Magnetic	605-2411
100	0.01	1.5	70	59	Magnetic (With switch)	605-2412
2"	0.001"	0.06"	2.20"	2.24"	Square base, Inside indicator, Non-magnetic	605-2413
2"	0.001"	0.06"	2.20"	2.24"	Square base, Inside indicator, Magnetic	605-2415
2"	0.0005"	0.06"	2.20"	2.24"	Square base, Inside indicator, Non-magnetic	605-2416
2"	0.0005"	0.06"	2.20"	2.24"	Square base, Inside indicator, Magnetic	605-2417
4"	0.001"	0.06"	2.76"	2.32"	Magnetic (With switch)	605-2418
4"	0.0005"	0.06"	2.76"	2.32"	Magnetic (With switch)	605-2414

- Large LCD display for easy reading.
- Novel shape design harmonizes with human engineering.
- Single key operation: manual ON/OFF, unit conversion, auto power off.
- Four units: PSI, Bar, Kg/cm², Kpa.
- Range:
 - 0~100PSI, 0~7Bar,
 - 0~7Kg/cm², 0~700Kpa.
 - or 0~200PSI, 0~14Bar,
 - 0~14Kg/cm², 0~1400Kpa.
- Power: CR2032 3V battery.



DIGITAL TYRE GAUGES

Mini Type

Range	Accuracy	Model No.
0~100PSI	±1%	615-3001
0~200PSI	±1%	615-3002

Range	Accuracy	Model No.
0~100PSI	±1%	615-3010
0~200PSI	±1%	615-3011



Tyre Gauges

2 in 1 Type

- Large LCD display for easy reading.
- Novel shape design harmonizes with human engineering.
- Manual ON/OFF, unit conversion, auto power off.
- Four units: PSI, Bar, Kg/cm², Kpa.
- Range:
 - 0~100PSI, 0~7Bar, 0~7Kg/cm², 0~700Kpa or 0~200PSI, 0~14Bar, 0~14Kg/cm², 0~1400Kpa.
- Power: CR2032 3V battery.



With flashing tip

Range	Accuracy	Model No.
0~100PSI	±1%	615-3020
0~200PSI	±1%	615-3021



With Vernier Tread Depth Gauge

Range	Accuracy	Model No.
0~100PSI	±1%	615-3030
0~200PSI	±1%	615-3031

2 in 1 Type

- Large LCD display for easy reading.
- Manual ON/OFF, unit conversion, auto power off.
- 2 units: PSI, Bar.
- Range: 0~150PSI, 0~10.5Bar.
- Power: CR2032 3V battery.



With Digital Tread Depth Gauge
Specifications of Tread Depth Gauge:
Range: 0~12.7mm
Resolution: 0.1mm

Range	Accuracy	Model No.
0~150PSI	±1%	615-3040

8 in 1 Type

- Multi-scales PSI, Bar, Kg/cm², Kpa.
- Digital tread depth gauge(mm/inch).
- Bright LED flash light.
- Back lighted LED for use in the dark.
- Bleeder valve for pressure adjustment.
- The hammer easily shatters glass to free when doors are jammed on land or under water.
- With Compass
- Power: 3pcs AAA Batteries.

Range	Accuracy	Model No.
0~100PSI	±1%	615-3050

With Digital Tread Depth Gauge
Specifications of Tread Depth Gauge:
Range: 0~19mm/0.7"
Resolution: 0.1mm/0.001"



DIGITAL TYRE GAUGES

3 in 1 Type

- Large LCD display for easy reading.
- Novel shape design harmonizes with human engineering.
- Manual ON/OFF, unit conversion, auto power off.
- Four units: PSI, Bar, Kg/cm², Kpa.
- Range:
 - 0~100PSI, 0~7Bar, 0~7Kg/cm², 0~700Kpa or 0~200PSI, 0~14Bar, 0~14Kg/cm², 0~1400Kpa.
- Power: CR2032 3V battery.



With flashing tip and Compass

Range	Accuracy	Model No.
0~100PSI	±1%	615-3060
0~200PSI	±1%	615-3061



With Digital thread depth gauge and flashing tip

Range	Accuracy	Model No.
0~100PSI	±1%	615-3070
0~200PSI	±1%	615-3071

Digital thread depth gauge:
Range: 0~20mm/0.8"
Resolution: 0.01mm/0.001"

DIGITAL MEASURING WHEEL

- Range: 99,999.9 Meters/Feet/Yards.
- Accuracy: 99.9%.
- Control Panel Located Near Handle
- Area or Volume can be automatically computed by Calculator in sets
- Units conversion: Meters/Feet/Yards, m²/ft²/yd²/Acre, m³/ft³/yd³.
- Auto power off after 3 minutes.
- Power: 4 pcs AAA battery.



615-3101



Mini Wheel Type (With Two wheels)

615-3100

Circumference of wheel	Length(extended)	Length(contractd)	Model No.
0.314m	1000mm	520mm	615-3100
1m	1120mm	620mm	615-3101

Magnetic Base

MAGNETIC STANDS



- Accepts all A.G.D dial indicators with lug backs.
- Accepts dial test indicator stems .375"/9.52mm dia. and .156"/3.96mm dia.
- On/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.
- Work angle is 150°



Magnetic Pull	Base Size	Main Stem	Dia. of hole	Standard	With Fine Adjustment
				Model No.	Model No.
40kg	60x50x55mm	176mm/12mm	8.0+0.02 or 9.6	625-0300	625-0340
60kg	63x50x55mm	176mm/12mm	8.0+0.02 or 9.6	625-0301	625-0341
80kg	72x50x55mm	176mm/12mm	8.0+0.02 or 9.6	625-0302	625-0342
60kg	63x50x55mm	225mmx16mm	8.0+0.02 or 9.6	625-3301	625-3341
60kg	63x50x55mm	176mmx12mm	4.5/8.0+0.02	--	625-3441
60kg	63x50x55mm	170mmx12mm	8.0/9.6+0.02	--	625-3442
60kg	63x50x55mm	185mmx12mm	8.0/9.6+0.02	625-3401	--
60kg	63x50x55mm	180mmx12mm	---	625-3402	--
60kg	63x58x55mm	200mmx12mm	---	--	625-3443
60kg	73x50x55mm	230mmx16mm	M10x1.25	--	625-3444
80kg	60x50x55mm	230mmx16mm	M12x1.50	--	625-3445

HYDRAULIC UNIVERSAL MAGNETIC STAND



- Work angle is 150°

Magnetic Pull	Base Size	Main Stem	Dia. of hole	Model No.
60kg	63x50x55mm	330mm	8.0+0.02 or 9.6	625-1361
60kg	63x50x55mm	380mm	8.0+0.02 or 9.6	625-1362
60kg	63x50x55mm	360mm	8.0+0.02 or 9.6	625-1371
80kg	69x50x55mm	330mm	8.0+0.02 or 9.6	625-1381
80kg	69x50x55mm	380mm	8.0+0.02 or 9.6	625-1382

PRO-QUALITY CONTOUR MAGNETIC BASE

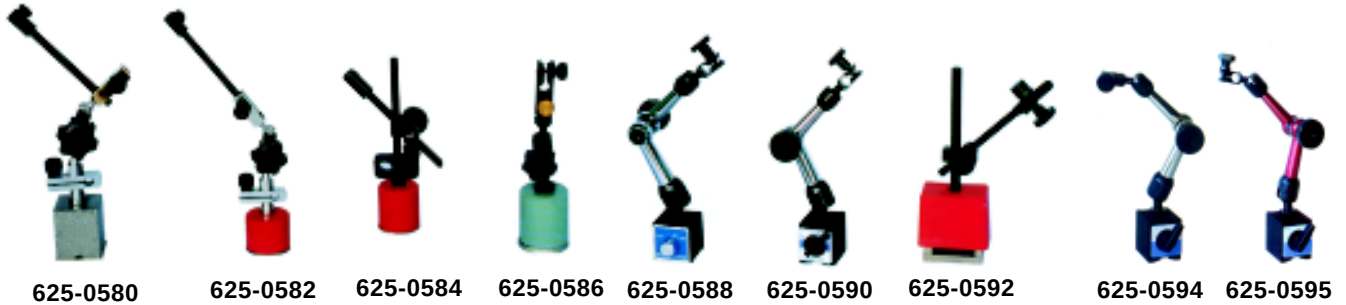
- Cam lock mechanism
- unlimited versatility
- Fina adjustment

Model No.
625-0170



Magnetic Base

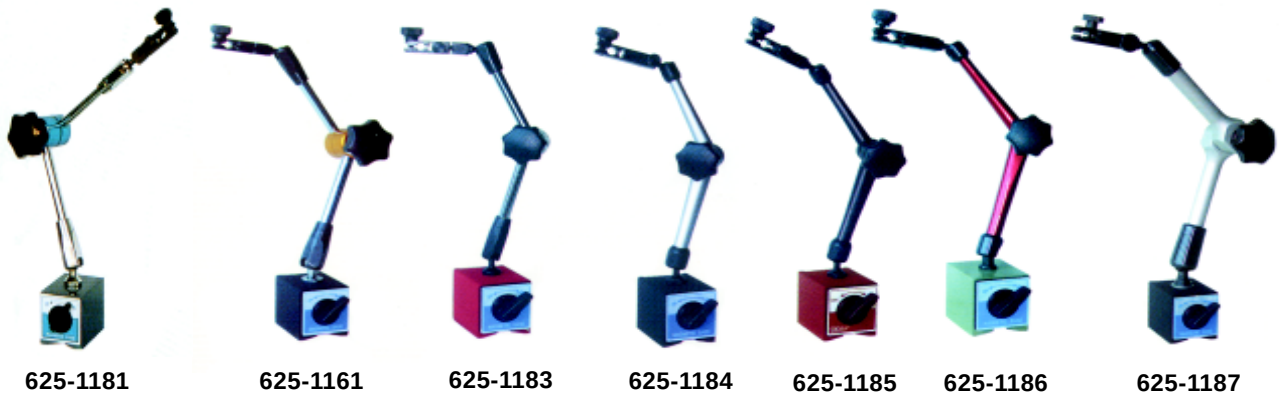
MINI MAGNETIC STAND



Magnetic Pull	Base Size	Main Stem	Dia. of hole	Model No.
15kg	35x30x30mm	105mm	6.0	625-0580
15kg	30x35mm	105mm	6.0	625-0582
15kg	30x28mm	90mm	4.0-6.0	625-0584
15kg	30x28mm	145mm	-	625-0586
17kg	30x30x30mm	150mm	-	625-0588
17kg	30x30x30mm	150mm	8.0	625-0590
20kg	50x30x53mm	95mm	6.5	625-0592
25kg	35x30x35	165mm	8.0+0.02mm	625-0594
25kg	35x30x35	165mm	-	625-0595
25kg	35x30x35	165mm	-	625-0596
15kg	30x30x30	165mm	-	625-0597
19kg	35x30	175mm	8.0	625-0598

UNIVERSAL ON-OFF MAG.BASE HOLDERS

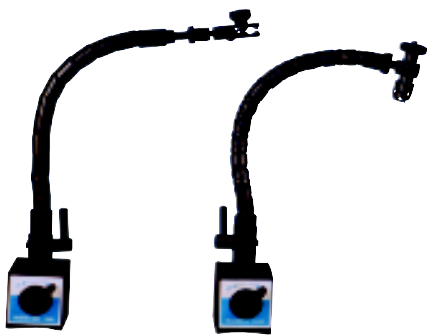
- Multi-nimble joint for instant fixation in any position.
- Fits dovetail & 3/8" or 8 mm stem indicator.
- Fine adjustment knob.
- On-off switch on base.
- Working angle:150°



Magnetic Pull	Base Size	Main Stem	Dia. of hole	Arm	Model No.
60kg	63x50x55mm	290mm	8.0+0.02mm	Nornal	625-1160
60kg	63x50x55mm	290mm	8.0+0.02mm	Alloy	625-1161
80kg	63x50x55mm	290mm	8.0+0.02mm	Nornal	625-1180
80kg	63x50x55mm	290mm	8.0+0.02mm	Alloy	625-1181
60kg	63x50x55mm	290mm	8.0+0.02mm	Nornal	625-1183
60kg	63x50x55mm	290mm	8.0+0.02mm	Nornal	625-1184
60kg	63x50x55mm	290mm	8.0+0.02mm	Nornal	625-1185
60kg	63x50x55mm	290mm	8.0+0.02mm	Nornal	625-1186
80kg	63x50x55mm	375mm	8.0+0.02mm	Nornal	625-1187

Magnetic Base

FLEXIBLE STEM BASE STAND



625-1060

625-1061



625-1062



625-0800



625-1063



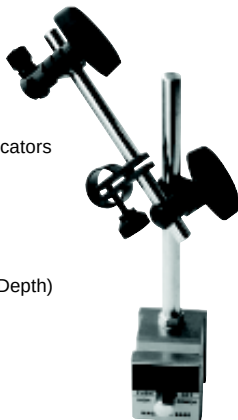
625-0850

- Working angle: 150°

Magnetic Pull	Base Size	Main Stem	Dia. of hole	Model No.
60kg	63x50x55mm	350x16mm	9.6 or 8mm	625-1060
80kg	63x50x55mm	350x16mm	9.6 or 8mm	625-1080
60kg	63x50x55mm	315x16mm	4-13mm	625-1061
60kg	63x50x55mm	355x16mm	9.6 or 8mm	625-1062
60kg	63x50x55mm	360x16mm	4-13mm	625-0800
60kg	63x50x55mm	270x16mm	4 or 8mm	625-1063
10kg	28x28x30mm	270x10mm	3-6.5mm	625-0850

PUSH BUTTON MAGNETIC BASE

- Holds most of AGD dial and test indicators
- Overall height: 9"/228mm
- On/Off push button
- Power pull: 130LBS
- Base size: 50mm(width)x45mm(Height)x33mm(Depth)
- With fine adjustment



Model No. 625-0910

EASY RELEASE MAGNETIC BASE

- Single universal rod, has 3 diameters to allow mounting popular indicators without changing rods
- Full 360° swivel
- Strong magnetic pull with easy release switch



Model No. 625-6002

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.

INDICATOR NOT INCLUDED

Model No. 625-8520

INDICATOR(1" model) INCLUDED

Model No. 625-8521



Magnetic Base

AIR FORCE BASE



To test work piece through it absorb the surface of iron or marble

Air force	Base Size	Main Stem	Dia. of hole	Model No.
65kg	63x50x55mm	200x16mm	9.6 or 8mm	625-1210
65kg	63x50x55mm	--	--	625-1211
65Kg	63x50x55mm		9.6 or 8mm	625-1213

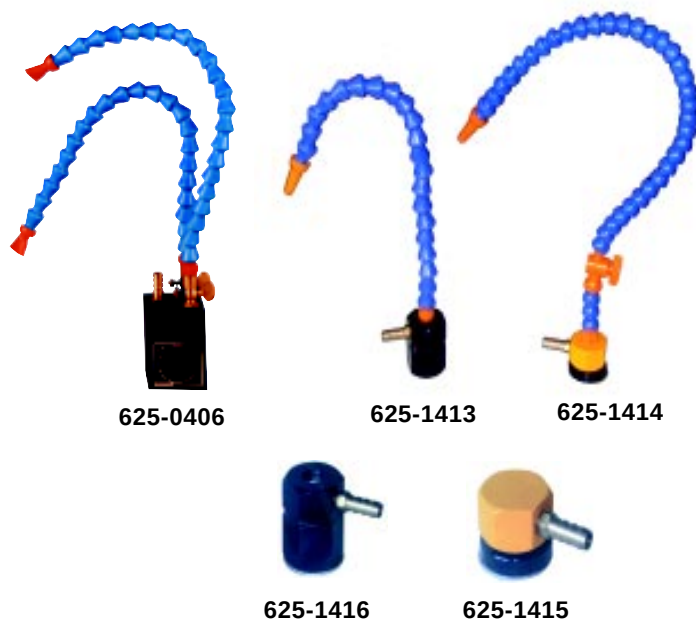
UNIVERSAL STAND

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

Standard
Model No.
625-1262



With Fine Adjustment
Model No.
625-1264



MAGNETIC BASE QUICK-LOC. COOLANT HOSE SYSTEMS

- Quickly attach to any metallic surface.
- Strong holding power.
- 1/4" dia flexible coolant hoses attached to on-off mag. 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
10kg	1x14"	32x32x50mm	625-1413
10kg	1x14"	32x32x30mm	625-1414
10kg	--	32x32x30mm	625-1415
10kg		32x32x50mm	625-1416

UNIVERSAL MAGNETIC BASE SHIELD



- Used in any part of the lathe, can change the angle wantonly, prevent scrap from spattering out
- Magnetic force:60Kg
- Shield Size:250x200mm

Model No.625-1220



- Shield with powerful magnetic base ON/OFF switch
- Magnetic force:60Kg
- Shield Size:300x260mm

Model No.625-1225

Magnetic Block



ILLUMINATED MAGNIFIER

- Power: 60Kg

Model No. 625-2100



MAGNETIC BASE SHIELD

Used in any part of the lathe, cant change the angle wantonly, prevent iron filling, oil, emulsification oil, etc. from spattering out, can grasp the drawing or file

- Magnetic force: 80Kg
- Back plate: 330x250mm
- Body size: 63x50x55mm
- Main body: 310mm
- Weight: 1.8Kg

Model No. 625-1200

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

MAGNETIC SQUARE BLOCK



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

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	Mag. force	Model No.
72mm	65mm	70mm	390N	285-2405
95mm	70mm	100mm	245N	285-2410

MAGNETIC V-BLOCKS



Work angle: 90° V

Mag. force	main body	Model No.
150N(15kg)	70x40x50mm	285-2415
200N(20kg)	100x50x80mm	285-2420
210N(21kg)	150x50x100mm	285-2421

MAGNETIC V-BLOCKS AND PARALLELS

V-BLOCKS

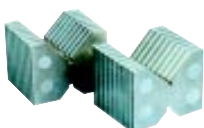
- Precision ground on all surfaces.
- Integrally aluminum cast into one solid piece.
- Hold in any direction on the magnetic chuck.

COMBINATION SET

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

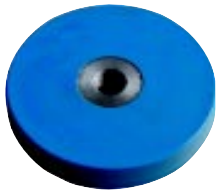
PARALLELS

Dimensions	In Pair Model No.	Individual Model No.
1-7/8" H X 2-3/8" W X 2" L	285-2060	285-2065
1-7/8" H X 2-3/8" W X 4-3/8" L	285-2070	285-2075



Magnetic Tools

"UNI-MAG" DIRECT MOUNT MAGNETIC BASE



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

Size	Model No.
@2-1/4 x 9/16"	625-0451
@1-3/4 x 5/16"	625-0452

MAGNETIZER DEMAGNETIZER

- Ideal for magnetizing/ demagnetizing tools and small steel parts, and your own tools on the job.
- Powerful permanent magnet for extended life.



Model No. 625-0000

MAGNETIC ADJUSTABLE LINK

For welding and holding steel plates.
Two heavy duty Magnets 2" long & 1" square.
Easy angle adjustment using 2 bar with wing nuts.



Model No. 625-0115

MAGNETIC BASE INDICATOR HOLDERS

Versatile , Powerful, Compact & Rugged



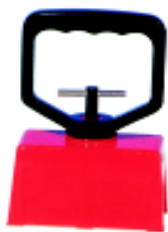
- Powerful magnetic pull.
- Six mounting locations for indicators and accessories.
- Three 1/4"-20 tapped holes.
- One 10-32 tapped hole.
- One 3/8" mounting hole.
- One V-shaped Mounting Hole.
- 4"x1"x1".

Descriptions	Model No.
Tiny-Titan Base	625-0450
Base plus 605-40701" travel indicator	625-0455
Base plus 605-4205 2" travel indicator	625-0460

MAGNETIC ULTRA PICK-UP



Model No. 625-4995



Model No. 625-5000

Sifting through sawdust to find those nails you dropped? With this tool, you can easily separate the metal from non-metal items. Simply pass the magnet over desired area to pick up metals, and pull the handle to demagnetize and release objects.

Magnetic Force	Dimension	Model No.
50Kg/110Lbs	120x70x190mm	625-4990
50Kg/110Lbs	120x70x190mm	625-4995
30Kg/66Lbs	@90x210mm	625-5000

PORTABLE MAGNETIZER/DEMAGNETIZER



- Quickly magnetizes or demagnetizes drills, punches, dies, screwdrivers, simply by passing them through or near the loop
- No physical contact needed
- Portable and easy to used
- Electrically & thermally protected
- Operates on 220AC 50Hz with push bottom control

Model No. 625-5002

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 pen



Model No. 625-0650

- Not include diamond pen

Magnetic Tools

MAGNETIC BASE INDICATOR HOLDER

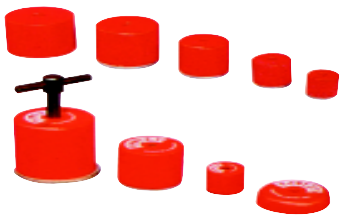


Accommodates almost any type test and dial indicator. Large 1/4" lug back type indicators mount in special links for more flexible in positioning. Precision lateral adjustment enables better zero settings. Magnetic pull-over 50lbs.

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

POT MAGNETS

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



Outside Diameter	Hole	Mag. force	Model No.
12x16mm	M5	12N	625-0381
18x16mm	M6	30N	625-0382
20x19mm	M6	30N	625-0384
27x25mm	M6	70N	625-0386
35x20mm	M6	150N	625-0388
35x30mm	M8	200N	625-0389
45x30mm	M8	250N	625-0391
50x40mm	M8	200N	625-0392
55x14mm	M8	75N	625-0393

MAGNETIC QUICK CLAMP



For holding ferrous metals.
For welding & assembly jobs.

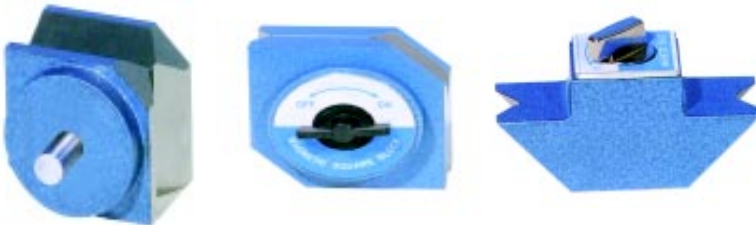
Size: 4"x2-5/8" 30 45 60 75 90 110

Model No. 625-0110

Size: 156x102x18mm 45 90 135 180

Model No. 625-0105

MAGNETIC QUICK CLAMP



Model No. 625-3510

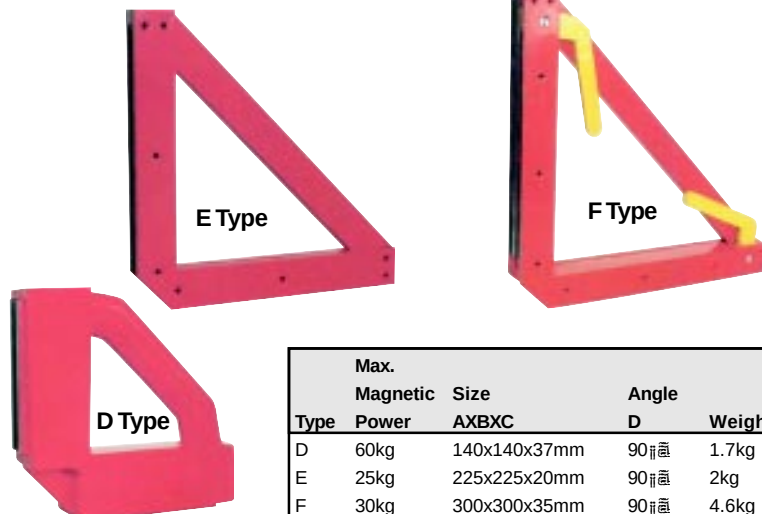
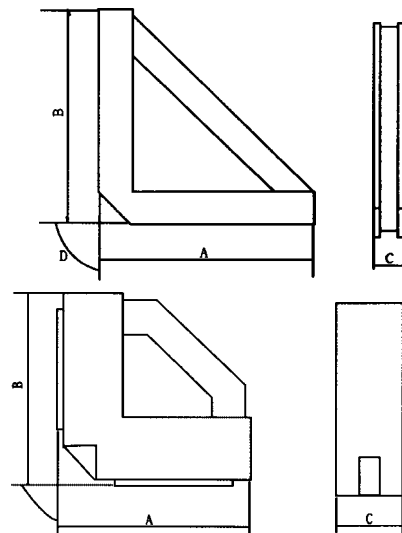
Model No. 625-3530

Model No. 625-3540

- Powerful magnet base with On/OFF switch
- Designed to enable fast accurate holding of ferrous metals for welding & assembly jobs

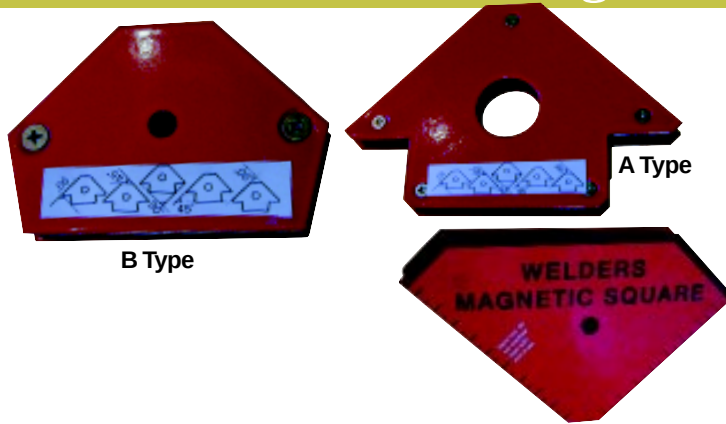
Holding Power			
Round Steel	Steel Plate	Dimension	Model No.
10Kgf	40KGF	60x650x42	625-3510
30Kgf	80KGF	108x108x94	625-3530
40Kgf	40KGF	72x36x120	625-3540

90° MAGNETIC QUICK CLAMP



Type	Max. Magnetic Power	Size AXBXC	Angle D	Weight	Model No.
D	60kg	140x140x37mm	90°	1.7kg	625-0150
E	25kg	225x225x20mm	90°	2kg	625-0153
F	30kg	300x300x35mm	90°	4.6kg	625-0155

Magnetic Tools



MAGNETIC QUICK CLAMP

30, 45, 60, 75, 90 degree angle

Min. Diameter of round workpiece is 13mm

Type	Max. Magnetic Power to		Size	Model No.
	Round workpiece	Flat workpiece		
A	40kg	70kg	110x110x16mm	625-0100
A	25kg	50kg	110x110x16mm	625-0102
B	18kg	45kg	85x51x13mm	625-0104
B	8kg	28kg	85x51x13mm	625-0106
C	40kg	70kg	95x110x16mm	625-0108
C	25kg	50kg	95x110x16mm	625-0112

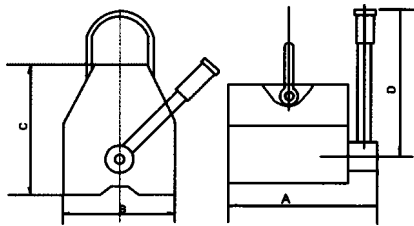
MAGNETIC ABSORBING PEN



No.	Dia (mm)	Length	Extending Length	Mag. Power(Pound)	Model No.
1#	7	106	645	1.5	407-1130
2#	8	100	465	2	407-1131
3#	9	102	608	4	407-1132
4#	9	107	650	5	407-1133
5#	10	115	615	8	407-1134
6#	10	200	748	2	407-1135
7#	8	100	502	Mirror	407-1136
8#	9	108	620	Ferula	407-1137

PERMANENT MAGNETIC LIFTS

Designed for efficient, trouble free, low maintenance service.

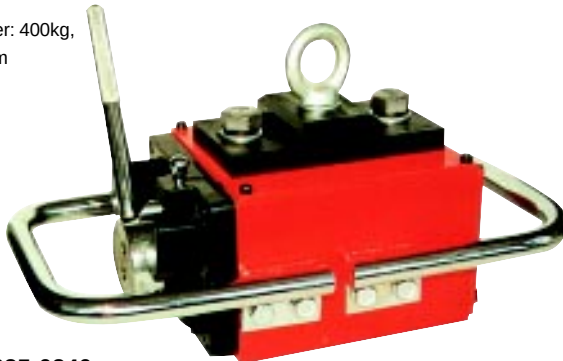


Max. Magnetic Power to Round workpiece	Max. Magnetic Power to Flat workpiece	Size AXBXCXD	Weight	No.
110lbs/50kg	220lbs/100kg	5"x2-2/5"x2-3/5"x5-1/2" (125x62x67x40mm)	6.2lbs/2.8kg	625-0210
220lbs/100kg	440lbs/200kg	6"x3-3/5"x3-3/5"x6-7/10" (152x91x91x170mm)	15.4lbs/7kg	625-0230
330lbs/150kg	660lbs/300kg	8"x3-3/5"x3-3/5"x6-7/10" (195x91x91x170mm)	22lbs/10kg	



HEAVY DUTY PERMANENT MAGNETIC LIFTS

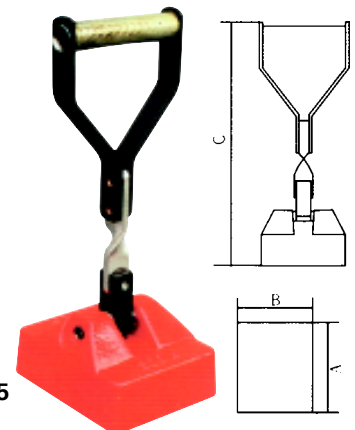
Magnetic Power: 400kg,
Length: 205mm
Width: 135mm
Height: 180mm
Weight: 43kg



Model No. 625-0240

HAND USE MAGNETIC LIFTS

Magnetic Power: 50kg,
Length A : 120mm
Width B : 100mm
Height C : 270mm
Weight: 3kg



Model No. 625-0005

Magnetic Tools

MAGNETIC LAMPS



- 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



- Flexible arm is plastic
- Illuminant source selects incandescent lamp, 60W screw socket bulb
- Arm length: 280mm, Base size 40x25
- Magnetic force L 40Kg

Power Supply	Model. No
220V/50Hz	625-2000
110V/60Hz	625-2005

MAGNETIC HALOGEN LAMPS



Type I



Type II

- Power magnetic base with ON/OFF switch
- Lamp-chimney adopts PBT enhanced engineering plastic, heat-resisting, impact resistive
- Illuminant source selects high luminescence efficiency, long life halogen lamp holder GY6.35
- Arm length: 400mm

Power Supply	Type I Model. No	Type II Model. No
220V/50Hz	625-2010	625-2020
110V/60Hz	625-2015	625-2025

MAGNETIC HALOGEN LAMPS(IP65)



This model lighting with the best possible protection against water, Lubricants and coolants. Halogen water-proof. With the enclosure types IP65 are as resistant dust and dirt. With their compact design, concentrated light exactly where it is needed.

- Mains Voltage: 12V
- Light Source: 20(W)
- Light bulb: MR16

Support arm	upright tube	Model. No
425mm	400mm	625-2500
280mm	185mm	625-2505
280mm	280mm	625-2510
230mm	185mm	625-2515

20" FLEXIBLE SHAFT HALOGEN LIGHT

- Power magnetic base with ON/OFF switch
- can be bolted on the table



Model No.625-3100

DEMAGNETIZERS



625-2506



625-2606

- Demagnetize dies, punches, cutters, or any tools that have become magnetized.
- Operates on 115/220V AC with on /off switch.

Power	Table Size	Frequency	Model No.
80W	158x120mm	50Hz	285-2506
150W	210x152mm	50Hz	285-2606

DEMAGNETIZERS

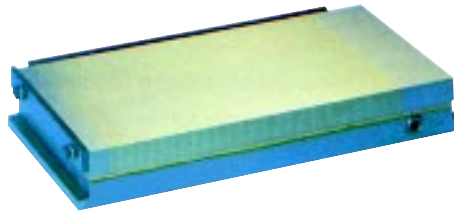
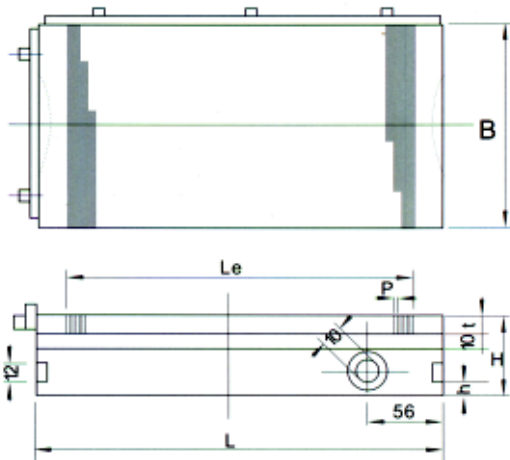


- Demagnetize dies, punches, cutters, or any tools that have become magnetized.
- Operates on 115/220V AC with on /off switch.

Volt	Table Size	Weight	Model No.
110V	6-3/4" x 4-1/4"	11 lbs	285-2505
220V	170mm x 108mm	5 lbs	285-2605

Magnetic Chuck

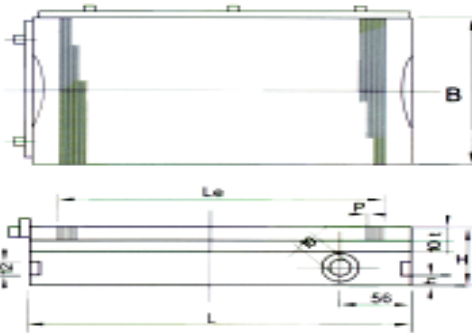
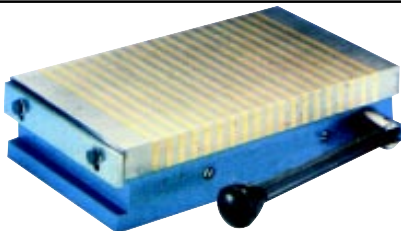
DENSE PERMANENT MAGNETIC CHUCKS



- P:1+0.5
- h:54mm
- Magnetic force $\geq 140\text{N/cm}^2$

Dimensions	B	L	Le	Model No.
4x7"/100x175mm	100mm	175mm	125mm	285-0160
5x10"/125x250mm	125mm	250mm	200mm	285-0170
6x12"/150x300mm	150mm	300mm	250mm	285-0180
6"x14"/150x350mm	150mm	350mm	300mm	285-0185
6"x16"/150x400mm	150mm	400mm	350mm	285-0186
6x18"/150x450mm	150mm	450mm	400mm	285-0190
8x16"/200x400mm	200mm	400mm	350mm	285-0195
8 x 24"/200x610mm	200mm	610mm	--	285-0200

POWERFUL PERMANENT MAGNETIC CHUCKS



- P:1+4
- h:54mm
- Magnetic force $\geq 140\text{N/cm}^2$

Dimensions	B	L	t	Model No.
4x7"/100x175mm	100mm	175mm	20mm	285-0300
5x10"/125x250mm	125mm	250mm	20mm	285-0305
6x12"/150x300mm	150mm	300mm	20mm	285-0310
6x14"/150x350mm	150mm	350mm	20mm	285-0312
6x16"/150x400mm	150mm	400mm	20mm	285-0314
6x18"/150x450mm	150mm	450mm	20mm	285-0315
8x16"/200x400mm	200mm	400mm	20mm	285-0326
8x18"/200x450mm	200mm	450mm	20mm	285-0328
8x20"/200x500mm	200mm	500mm	20mm	285-0370
8x24"/200x600mm	200mm	600mm	20mm	285-0374
10x15"/250x380mm	250mm	380mm	20mm	285-0390

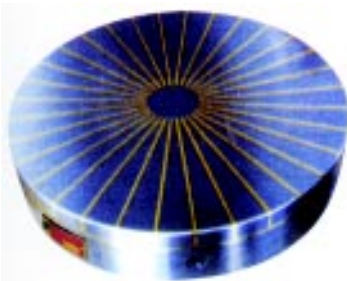
CIRCULAR PERMANENT MAGNETIC CHUCKS

Circular permanent magnetic chuck is used for holding work pieces in grinder, lathe and bench work.



Dia.	Height	Mag. force(N.cm ²)	Model No.
6"/150mm	60mm	≥ 80	285-1206
8"/200mm	60mm	≥ 80	285-1208
10"/250mm	60mm	≥ 80	285-1210
12"/300mm	65mm	≥ 120	285-1211

RADIANT POLE PERMANENT MAGNETIC CHUCKS

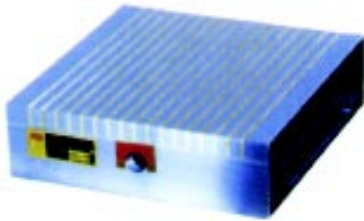


It is suitable for machining of small vertical surface, external and internal grinding machines, general machine tools. It is characterized by high precision and little change for machined surface.

Dia.	Height	P	Model No.
5"/125mm	58mm	2.8(1+1.8)	285-1305
6"/160mm	58mm	2.8(1+1.8)	285-1306
8"/200mm	58mm	2.8(1+1.8)	285-1308
10"/250mm	58mm	2.8(1+1.8)	285-1310
12"/300mm	58mm	2.8(1+1.8)	285-1312

Magnetic Chuck

POWERFUL PERMANENT MAGNETIC CHUCKS(FOR CNC)

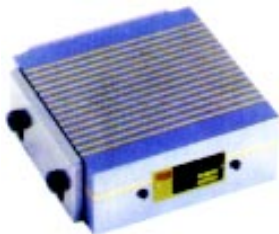


It is suitable for CNC machine and precision milling machine. Since not needing any power supply, it will not become hot even if used for a long time. It is 2 mm/100mm in the disc precision. So it can make any workpiece in high precision. In case of a power supply stop. The workpiece can not move. So it can keep it from any loss. it is better when in a re-cutting operation and when the piece is 100x100x15. otherwise, it is not ideal even if the sucking disc can hold the smaller piece. It features special magnetic circuits with average magnetic force. quality magnetic steel of high standard. the magnetic steel of 110n/cm²

- P:12+3
- h:100mm

Size	Model No.
8x8"/200x200mm	285-1408
10x10"/250x250mm	285-1410
12x12"/300x300mm	285-1412
14x14"/350x350mm	285-1414
16x16"/400x400mm	285-1416
18x18"/450x450mm	285-1418
20x20"/500x500mm	285-1420

PERMANENT MAGNETIC CHUCKS(FOR SUPER HARD MATERIALS)



It can suck the poor magnetic workpiece with the permanent or electric magnetic disc.

It can suck and hold the metal materials, such as tungsten carbide, titanium and super hard steels

- P:5(2+3)
- h:50mm

Size	Model No.
4x4"/100x100mm	285-1504
4x7"/100x180mm	285-1507
4x10"/100x250mm	285-1510

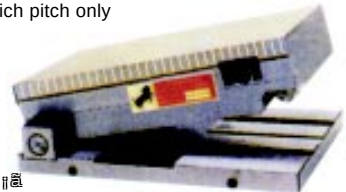
SINE PLATE WITH FINE MAGNETIC CHUCKS

Special feature with magnetic chuck: can fix tiny parts firmly on the chuck which pitch only 1.5mm; Easy operation for adjusting angle thickness and light weight.



- P:2(0.5+1.5)
- h:85mm
- Grinding angle: 0-50°

Size	Model No.
4x6.9"/100x175mm	285-1604
5x8"/125x250mm	285-1605
6x6"/150x150mm	285-1606
6x12"/150x300mm	285-1612



- P:5(1+4)
- h:110mm
- Grinding angle: 0-45°

Size	Model No.
4x6.9"/105x175mm	285-1614
4x12"/105x300mm	285-1615
6x15.8"/150x400mm	285-1616

ROTARY TILTABLE PERMANENT MAGNETIC CHUCKS

Suitable for angle grinding on grinder. Rotary shaft with graduations make it easy to grind at any angle. integrated molding of machine body and rotary spindle. Unchanged surface accuracy during On/Off changeover. design for distance between both magnetics enables of various workpieces unconfined in the thickness & size.



- P:2(0.5+1.5)
- h:163mm
- table height:100mm

Size	Model No.
4x6.9"/100x175mm	285-1704
5x8"/125x250mm	285-1705
6x6"/150x150mm	285-1706
6x12"/150x300mm	285-1712

DOUBLE SINE PLATE COMPOUND MAGNETIC CHUCKS

Double tilting these permanent magnetic chucks, are suitable for various single high precision milling and shaping. Especially. It is suitable for processing thin workpieces milling and sharpening.

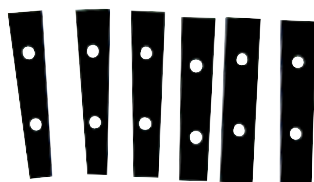


- P:2(0.5+1.5)
- h:131mm
- Grinding angle: 0-50°

Size	Model No.
4x6.9"/100x175mm	285-1804
5x8"/125x250mm	285-1805
6x6"/150x150mm	285-1806
6x12"/150x300mm	285-1812

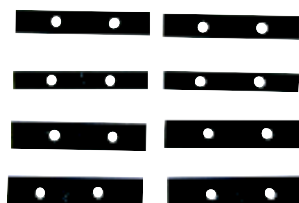
Block Set

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" 6pcs 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

18 PIECE 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 by 2mm	637-7451
25-39mm	Set of 8 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 PIECE 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 PIECE 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" 15" 20" 25" 30" 35" 40" 45" & 2 riser blocks.

Block Set



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-block: 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° to 30°),

SET MODEL NO. 630-4261 12PCS. (INCLUDES 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

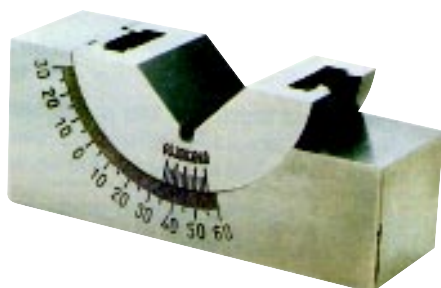


- Hardened Steel
- Precision Ground Angles
- Each Block is 1/4" Thick

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 418-4820 include 418-4800 and 418-4810

PRECISION 0° to 60° ANGLE BLOCKS

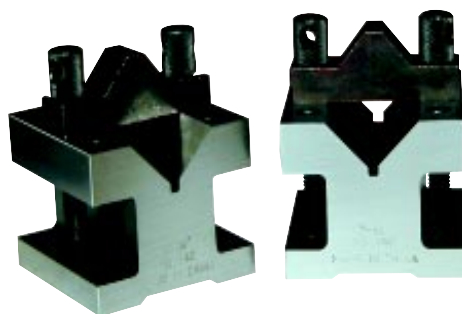


- 0° to 60° Adjustable angle by locking the hex screw on the bottom.
- Squareness 0.0004"/0.01mm
- Angle of Vee 90°

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

Block Set

SUPER DUTY VEE BLOCK

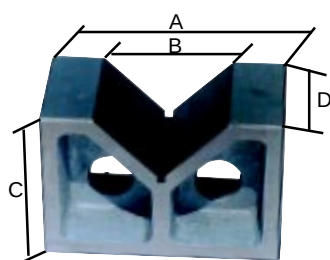


All V-Blocks are parallel, square and centered within 0.0002. Completely hardened and ground tool steel, Wooden case.

90° V-BLOCK		Vee Capacity	Individual Model No.	In Pair Model No.
Max. Dimension				
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		Vee Capacity	Individual Model No.	In Pair Model No.
Max. Dimension				
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

STEEL "V" BLOCK



- 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

TOOLMAKERS' "V" BLOCK & CLAMP SET

- All surface parallel and square are within 0.0002". Top 90 V-Groove central, parallel and square with all surface within 0.00003"
- Side 90 V-Groove on base central, parallel and square with all surface within 0.00015"
- Harden steel ground

Size	Model No.
3-1/2x1-7/8x1-7/8	418-2200



"V" BLOCK & CLAMP SET

- Designed for layout work or firmly holding circular workpiece during drilling, milling and grinding
- Sold in pair which includes 2 V-blocks and 2 clamps
- Accuracy: $\pm 0.005\text{mm}/0.0002"$, $\perp 0.005\text{mm}/0.0002"$

Metric Size

Size	Model No.
40x30x50mm	418-2040
35x35x45mm	418-2035
50x40x50mm	418-2050
41x35x44mm	418-2041
41x32x32	418-2042

Inch Size

Size	Model No.
1-5/8x1-3/4x2-3/4	418-2140
1-3/8x1-5/8x1-3/4	418-2135
2-1/2x2-3/4x2"	418-2150



BENCH BLOCK



Model No. 420-3100

- Very handy for holding work when driving pins, drilling, etc
- V-groove across the face accommodates round and odd shaped stock
- Hardened and ground
- Smooth finish on the face preserves the work being held
- Block is approximately 3" dia and 1-1/2" high
- Hole vary in sizes from 1/8" to 5/8"

Block Set

PRECISION 1-2-3 BLOCKS

Tolerance within .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

.0001" Grad, **Plastic Case**

5 piece 3/8"-16 Socket Head Cap Screws

1 piece Hex key

Model No. 630-4000

Tin Coated Model No.

3630-4000



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



- Precision ground and hardened on all Side.
- Ideal for mounting work for precision ground-ing and lay out.
- Dimension .0001" to .00003"
- Flatness .0001"
- Parallelism .0003".
- Hardness HRC 56-60.

*** Tin coated model No. 3630-XXXX**

Specification	Grad.	Hole	Model No.	Model No.
1-2-3	.0001"	1	630-4005	3630-4005
1-2-3	.0001"	23	630-4006	3630-4006
1-2-3	.0001"	NO	630-4007	3630-4007
1-2-3	$\pm .0002"$	NO	630-4008	3630-4008
1-2-3	$\pm .0002"$	1	630-4009	3630-4009
1-2-3	$\pm .0002"$	23	630-4010	3630-4010
1-2-3	.0001"	11	630-4011	3630-4011
25-50-75mm	$\pm .0050$ mm	23	630-4012	3630-4012
25-50-100mm	$\pm .0050$ mm	23	630-4013	3630-4013
50-100-150mm	$\pm .010$ mm		630-4014	3630-4014
2-3-4	$\pm .002"$	23	630-4016	3630-4016
2-4-6	$\pm .0005"$	23	630-4020	3630-4020

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

8 Pairs Sets

120mm Length Model No. 637-7972

160mm Length Model No. 637-7974

- Parallel: $\pm .005$ mm.
- 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: $\pm .005$ mm.
- 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: $\pm .005$ mm.
- 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: $\pm .005$ mm.
- 10x150mm
- 14 to 32mm by 2mm

12 pairs

Model No. 637-7962

- Parallel: $\pm .005$ mm.
- 10x120mm
- 14 to 32mm by 2mm plus 35mm, 40mm

Complete in Wooden Case

14 pairs

Model No. 637-7960

- Parallel: $\pm .005$ mm.
- 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: $\pm .01$ mm.
- 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

Model No. 637-7966

- Accuracy: $\pm .01$ mm.
- 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: $\pm .005$ mm
- 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

Parallel Set

PRECISION THIN PARALLELS



Thin style, .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.

Description	Tin Coated	
	Set of 10 pair	Set of 10 pair
	Model No.	Model No.
Plastic case	637-7030	3637-7030
Wooden case	637-7530	3637-7530

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

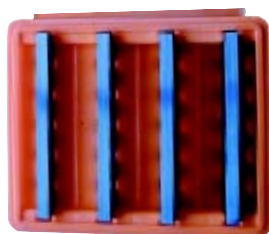
Tolerance: Parallel 0.0003" on 2 sides, top and bottom.

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

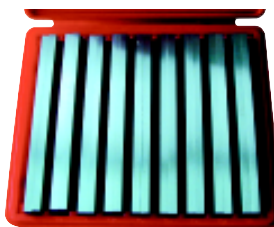


Set Of 8 Pairs	
Description	Model No.
Plastic Case	637-7034
Wooden Case	637-7534

1/2", 8 Pairs

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

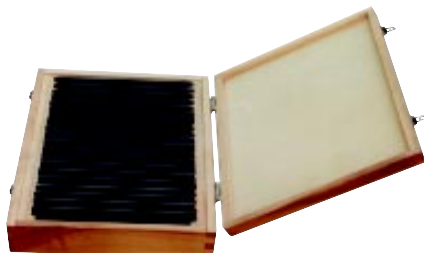
9 Pairs



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

1/4", 9 Pairs

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", .0001" parallels

Blue Finished

Model No. 637-9032

Black Finished

Model No. 637-9033

Granite Plate

GRANITE SURFACE PLATES



- Hardest uniformity of all granite surface plate
- Lowest temperature coefficient, least responsive to temperature changes.
- Moisture and corrosion free, no rusting, no oiling, will not stain or discolor.
- Practically maintenance free, fast easy to clean.
- SmoothBall-Bearing" surface.
- Resists dust and abrasives, Non-magnetic.

TOOLROOM GRADE "B"

Size	Thickness	Overall Accuracy	0-Ledge Model No.	2-Ledge Model No.
5x6	2"	.0001"	640-0070	640-0177
6x8	2	.0001"	640-0080	640-0188
8x12	2	.0001"	640-0090	640-0199
9x12	2	.0001"	640-0101	640-0103
9x12	3	.0001"	640-0100	640-0102
12x12	3	.0001"	640-0110	640-0112
12x18	3	.0001"	640-0120	640-0122
12x18	4	.0001"	640-0125	640-0126
18x18	3	.0001"	640-0130	640-0132
18x24	3	.0001"	640-0140	640-0142
18x24	4	.00015"	640-0145	640-0146
24x24	3	.00015"	640-0150	640-0152
24x36	4	.0002"	640-0160	640-0162
24x48	4	.0003"	640-0170	640-0172
36x48	4	.0004"	640-0180	640-0182
36x48	6	.0004"	640-0184	640-0186
36x60	6	.0005"	640-0190	640-0192
36x72	6	.0006"	640-0200	640-0202
48x60	6	.0005"	640-0210	640-0212
48x72	6	.0007"	640-0220	640-0222
48x84	8"	.0007"	640-0230	640-0233
48x96	12"	0.0008"	640-0240	640-0241

GGG-P-463C-73

INSPECTION GRADE "A"

Size	Thickness	Overall Accuracy	0-Ledge Model No.	2-Ledge Model No.
9x12	3	.000050"	640-0400	640-0402
12x12	3	.000050"	640-0410	640-0412
12x18	3	.000050"	640-0420	640-0422
18x18	3	.000050"	640-0430	640-0432
18x24	3	.000075"	640-0440	640-0442
24x24	3	.000075"	640-0450	640-0452
24x36	4	.0001"	640-0470	640-0472
36x48	4	.0002"	640-0473	640-0482
36x48	6	.0002"	640-0480	640-0483
36x60	6	.00025"	640-0490	640-0492

LABORATORY GRADE "AA"

Size	Thickness	Overall Accuracy	0-Ledge Model No.	2-Ledge Model No.
9x12	3	.000025"	640-0600	640-0602
12x18	3	.000025"	640-0620	640-0622
18x24	4	.000037"	640-0640	640-0642
24x36	6	.000050"	640-0660	640-0662
36x48	6	.0001"	640-0680	640-0682

DIN 876-83

Size	Grade 0 Model No.	Grade 00 Model No.
300x200x50mm	641-0001	641-0070
300x300x70mm	641-0005	641-0075
400x250x70mm	641-0010	641-0080
400x400x100mm	641-0015	641-0085
630x400x100mm	641-0020	641-0090
630x630x130mm	641-0025	641-0095
800x500x130mm	641-0030	641-0100
1000x630x150mm	641-0035	641-0105
1000x750x150mm	641-0040	641-0110
1000x1000x150mm	641-0045	641-0115
1200x800x150mm	641-0047	641-0117
1600x1000x200mm	641-0050	641-0120
2000x1000x250mm	641-0055	641-0125
2000x1600x300mm	641-0060	641-0130
2500x1600x300mm	641-0065	641-0135

JSIB 7510-78

Size	Grade1 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

GRANITE SURFACE PLATE STANDS

MetricAngle Iron Stands

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

Leveling Screw

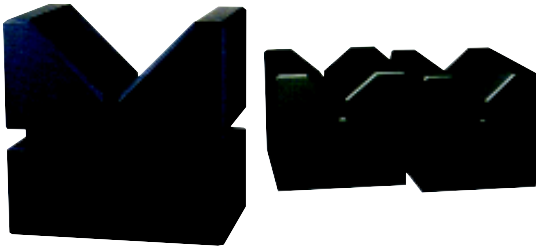
Size	0-ledge	2-ledge
18x24"	64S-1010	64S-1012
24x36"	64S-1020	64S-1022
36x48"	64S-1030	64S-1032
36x60"	64S-1040	64S-1042
48x60"	64S-1050	64S-1052
48x72"	64S-1060	64S-1062

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



Plate not included.

GRANITE V-BLOCKS



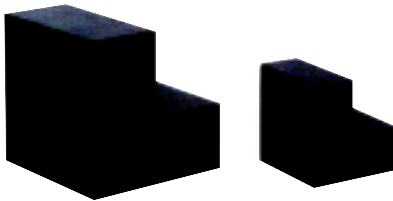
Master grade tolerance: .0001"/6".

- 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: .00005"/6". When four

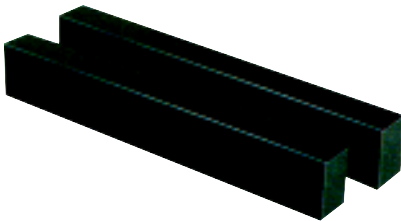
faces are finished, they are the 2 faces, back and bottom of the angle plate. Two faces models have only back and bottom finished.

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

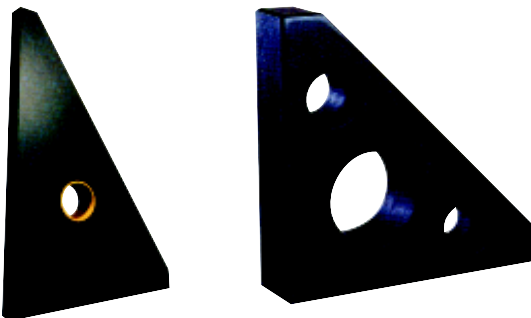


Elevate work above the surface plate, so that parts with steps and shoulders can be inspected quickly and easily. Include matched pairs held parallel on the top and bottom. **Supplied in pairs.**

Size	Tolerance	Model No.
3/4x1x6"	.000060"	640-0011
1x2x12"	.000100"	640-0022
1-1/2x3x18"	.000300"	640-0033
2x4x24"	.000500"	640-0040
2x4x30"	.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

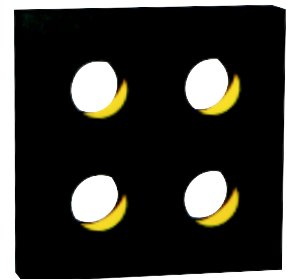


Size	Grade 00 Model No.	Grade 0 Model No.
100x63x16mm	641-2001	641-2011
160x100x20mm	641-2002	641-2012
250x160x25mm	641-2003	641-2013
400x250x40mm	641-2004	641-2014
630x400x80mm	641-2005	641-2015
1000x630x80mm	641-2006	641-2016

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