

MEASURING TOOLS



H1 - STEEL / CARBIDE / CERAMIC GAUGE BLOCK SETS (H01-H06)



H2 - ANGLE LEVELS (H07-H11)



H3 - Z AXIS PRESET GAUGES (H12)



H4 - EDGE FINDERS (H13-H15)



H5 - STRAIGHT RULERS (H16-H18)



H6 - SQUARES (H18-H22)



H7 - PROTRACTORS (H22-H25)



H8 - PROFILE CONTOUR GAUGES & 3D-TESTER (H26-H27)

H “ MEASURING TOOLS



RECTANGULAR METRIC GAUGE BLOCK SETS – FOR WORKSHOP

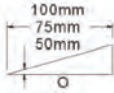
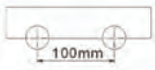
FEATURES:

- Suitable for collocation with sine magnetic chuck or sine dresser to adjust angles.
- Three specifications available, center distance: 50 mm / 75 mm / 100 mm.
- 46 pcs/set from 1° to 46° each block.
- Material: SKS3, HRC60°~62°.

ITEM NO.	CENTER DISTANCE
50100422	50
50100423	75
50100424	100



UNIT: mm

ITEM NO.	50100422	50100423	50100424
			
0°	0.0000	0.0000	0.0000
1°	0.8726	1.3125	1.7452
2°	1.7450	2.6175	3.4899
3°	2.6168	3.9225	5.2336
4°	3.4878	5.2350	6.9756
5°	4.3578	6.5400	8.7155
6°	5.2264	7.8375	10.4528
7°	6.0935	9.1425	12.1869
8°	6.9587	10.4400	13.9173
9°	7.8217	11.7300	15.6434
10°	8.6824	13.0200	17.3648
11°	9.5404	14.3100	19.0809
12°	10.3956	15.5925	20.7911
13°	11.2476	16.8750	22.4951
14°	12.0961	18.1425	24.1921
15°	12.9410	19.4100	25.8819
16°	13.7819	20.6700	27.5637
17°	14.6186	21.9300	29.2371
18°	15.4058	23.1750	30.9017
19°	16.2784	24.4200	32.5586
20°	17.1010	25.6500	34.2020
21°	17.9184	26.8800	35.8367
22°	18.7303	28.0950	37.4606
23°	19.5366	29.3025	39.0713
24°	20.3368	30.5025	40.6736
25°	21.1309	31.6950	42.2618
26°	21.9186	32.8800	43.8371
27°	22.6995	34.0500	45.3990
28°	23.4736	35.2125	46.9471
29°	24.2405	36.3600	48.4809
30°	25.0000	37.5000	50.0000

• RECTANGULAR METRIC GAUGE BLOCK SETS-FOR WORKSHOP

UNIT: mm

ITEM NO.	50100422	50100423	50100424
30°	25.0000	37.50000	50.0000
31°	25.7519	38.6250	51.5038
32°	26.4960	39.7425	52.9919
33°	27.2320	40.8450	54.4639
34°	27.9596	41.9400	55.9192
35°	28.6788	43.0200	57.3576
36°	29.3893	44.0850	58.7785
37°	30.0908	45.1350	60.1815
38°	307831	46.1775	61.5661
39°	31.4660	47.1975	62.9320
40°	32.1394	48.2100	64.2787
41°	32.8030	49.2075	65.6059
42°	33.4565	50.1825	66.9130
43°	34.0999	51.1500	68.1988
44°	34.7329	52.1025	69.4658
45°	35.3553	53.0325	70.7106
46°	35.9650	53.9475	71.9339



RECTANGULAR METRIC HIGH SPEED STEEL GAUGE BLOCK SETS – FOR INSPECTION OR WORKSHOP

FEATURES:

- Suitable for adjusting, inspecting measuring instrument and precision tools.
- Collocation with several gauge blocks is feasible.
- Demagnetized and special heat treatment with over HRC64°, to increase stability.

CLASS 0

- Applied in controlled environment by senior inspection members, for calibration and benchmarking.

CLASS 1

- Used in calibrating electrical measurement instrument in inspection area.

CLASS 2

- Used in factory floor for calibrating clamping tools or measurement instrument.



UNIT: mm

ITEM NO.	TOTAL BLOCKS	CLASS	NOMINAL DIMENSION	STEPS	NO. OF BLOCKS	N.W. (kgs)
50100101	87	0	1.001-1.009	0.001	9	1.68
50100102	87	1	1.01-1.49	0.01	49	
50100305	87	2	0.5-9.5	0.5	19	
50100103	103	0	10-100	10	10	2.19
50100104	103	1	1.005	-	1	
50100104	103	1	1.01-1.49	0.01	49	
50100306	103	2	0.5-24.5	0.5	49	2.23
50100105	112	0	25-100	25	4	
50100105	112	0	1.0005	-	1	
50100106	112	1	1.001-1.009	0.001	9	2.23
50100106	112	1	1.01-1.49	0.01	49	
50100307	112	2	0.5-24.5	0.5	49	
			25-100	25	4	

APPLICATION EXAMPLES:



H1 - STEEL/ CARBIDE/ CERAMIC GAUGE BLOCK SETS

MEASURING TOOLS

“ MEASURING TOOLS



RECTANGULAR METRIC CARBIDE GAUGE BLOCK SETS – FOR WORKSHOP

CARBIDE METRIC GAUGE BLOCKS

- Gauge blocks are fundamental standards for linear measurement. They are used for adjusting, checking or inspecting measuring instruments and tools, and precision workpieces.
- Gauge blocks are used either individually or in combinations of several blocks.
- Gauge blocks through heat treated in special ways to stabilize their lengths. The hardness HRC72° ±2°. Don't easily transform.



UNIT: mm

ITEM NO.	TOTAL BLOCKS	CLASS	NOMINAL DIMENSION	STEPS	NO.OF BLOCKS	N.W. (kgs)
50100308	87	0	1.001-1.009	0.001	9	3.2
50100309	87	1	1.01-1.49	0.01	49	
50100310	87	2	0.5-9.5	0.5	19	
50100311	103	0	10-100	10	10	
50100312	103	1	1.005	-	1	4.26
50100313	103	1	1.01-1.49	0.01	49	
50100314	103	2	0.5-24.5	0.5	49	
50100315	112	0	25-100	25	4	
50100316	112	1	1.0005	-	1	4.2
50100317	112	1	1.001-1.009	0.001	9	
50100318	112	2	1.01-1.49	0.01	49	
50100319	112	2	0.5-24.5	0.5	49	
50100320	112	2	25-100	25	4	



RECTANGULAR METRIC CERAMIC GAUGE BLOCK SETS – FOR WORKSHOP

CERAMIC GAUGE BLOCKS

FEATURES:

- Superior resistance in abrasion, service life is 5-10 times than that of steel.
- Best corrosion resistance, without special protection in use and less maintenance.
- Excellent dimensional stability ensuring precision measurements over an extended period of time.
- Microlite material produced through super precision ensures surface smoothly and good wringing ability.
- Similar coefficient of thermal expansion to steel, making it an ideal substitute.
- Due to antimagnetic antistatic and nonconductive properties, it can be used in the presence of magnetic fields or dust.
- While surface allows laser inscribed marking to be highly visible and easy to read.



UNIT: mm

ITEM NO.	TOTAL BLOCKS	CLASS	NOMINAL DIMENSION	STEPS	NO.OF BLOCKS
50100317	87	0	1.001-1.009	0.001	9
50100111	87	1	1.01-1.49	0.01	49
50100318	103	0	0.5-9.5	0.5	19
50100112	103	1	10-100	10	10
50100319	112	0	1.005	-	1
50100113	112	1	1.01-1.49	0.01	49
50100320	112	2	0.5-24.5	0.5	49
50100321	112	2	25-100	25	4
50100322	112	0	1.0005	-	1
50100323	112	1	1.001-1.009	0.001	9
50100324	112	2	1.01-1.49	0.01	49
50100325	112	2	0.5-24.5	0.5	49
50100326	112	2	25-100	25	4



PRECISION ACCESSORIES FOR GRINDING MACHINE



ACCURACY

UNIT: mm

DIAMETER	EACH STEP SIZE	LENGTH	ACCURACY IN DIAMETER	ROUNDNESS TOLERANCE
0.05~0.09	0.01	5~10	$\pm 0.5 \mu\text{m}$	$\pm 0.5 \mu\text{m}$
0.10~0.19	0.01	20	$\pm 0.5 \mu\text{m}$	$\pm 0.5 \mu\text{m}$
0.20~0.99	0.01	40	$\pm 1 \mu\text{m}$	$\pm 0.8 \mu\text{m}$
1.00~10.00	0.01	50	$\pm 1 \mu\text{m}$	$\pm 0.8 \mu\text{m}$
10.01~20.00	0.01	50	$\pm 1.5 \mu\text{m}$	$\pm 1.6 \mu\text{m}$
20.00~30.00	0.01	50	$\pm 1.5 \mu\text{m}$	$\pm 1.6 \mu\text{m}$

• Pin gauge is a necessary measuring instrument for checking hole's spec, holes distance and depth of holes.

HIGH SPEED STEEL PIN GAUGE

EACH 0.01mm FOR ONE STEP SIZE

UNIT: mm

ITEM NO.	NOMINAL DIMENSION EACH 0.01mm FOR 1PCS	TOTAL BLOCKS	WEIGHT (kgs)
50100320	0.50, 0.51, 0.52~1.00	51	1.11
50100321	1.00, 1.01, 1.02~1.50	51	1.13
50100322	1.50, 1.51, 1.52~2.00	51	1.15
50100323	2.00, 2.01, 2.02~2.50	51	1.19
50100324	2.50, 2.51, 2.52~3.00	51	1.23
50100325	3.00, 3.01, 3.02~3.50	51	1.27
50100326	3.50, 3.51, 3.52~4.00	51	1.33
50100327	4.00, 4.01, 4.02~4.50	51	1.39
50100328	4.50, 4.51, 4.52~5.00	51	1.47
50100329	5.00, 5.01, 5.02~5.50	51	1.55
50100330	5.50, 5.51, 5.52~6.00	51	1.63
50100331	6.00, 6.01, 6.02~6.50	51	1.73
50100332	6.50, 6.51, 6.52~7.00	51	1.83
50100333	7.00, 7.01, 7.02~7.50	51	1.95
50100334	7.50, 7.51, 7.52~8.00	51	2.07
50100335	8.00, 8.01, 8.02~8.50	51	2.19
50100336	8.50, 8.51, 8.52~9.00	51	2.33
50100337	9.00, 9.01, 9.02~9.50	51	2.47
50100338	9.50, 9.51, 9.52~10.00	51	2.63

• Custom made of diameter accuracy $\pm 0.5\mu$ and $\pm 0.3\mu$ are available.



H1 - STEEL/ CARBIDE/ CERAMIC GAUGE BLOCK SETS

MEASURING TOOLS

H “ MEASURING TOOLS



PRECISION ACCESSORIES FOR GRINDING MACHINE



CARBIDE PIN GAUGE

EACH 0.01mm FOR ONE STEP SIZE

UNIT: mm

ITEM NO.	NOMINAL DIMENSION EACH 0.01mm FOR 1PCS	TOTAL BLOCKS	WEIGHT (kgs)
50100339	0.50, 0.51, 0.52~1.00	51	0.90
50100340	1.00, 1.01, 1.02~1.50	51	0.94
50100341	1.50, 1.51, 1.52~2.00	51	1.00
50100342	2.00, 2.01, 2.02~2.50	51	1.07
50100343	2.50, 2.51, 2.52~3.00	51	1.17
50100344	3.00, 3.01, 3.02~3.50	51	1.28
50100345	3.50, 3.51, 3.52~4.00	51	1.42
50100346	4.00, 4.01, 4.02~4.50	51	1.57
50100347	4.50, 4.51, 4.52~5.00	51	1.74
50100348	5.00, 5.01, 5.02~5.50	51	1.93
50100349	5.50, 5.51, 5.52~6.00	51	2.14
50100350	6.00, 6.01, 6.02~6.50	51	2.37
50100351	6.50, 6.51, 6.52~7.00	51	2.62
50100352	7.00, 7.01, 7.02~7.50	51	2.88
50100353	7.50, 7.51, 7.52~8.00	51	3.17
50100354	8.00, 8.01, 8.02~8.50	51	3.47
50100355	8.50, 8.51, 8.52~9.00	51	3.80
50100356	9.00, 9.01, 9.02~9.50	51	4.14
50100357	9.50, 9.51, 9.52~10.00	51	4.50

• Custom made of diameter accuracy ±0.5μ and ±0.3μ are available.



CERAMIC PIN GAUGE

EACH 0.01mm FOR ONE STEP SIZE

UNIT: mm

ITEM NO.	NOMINAL DIMENSION EACH 0.01mm FOR 1PCS	TOTAL BLOCKS	WEIGHT (kgs)
50100358	0.50, 0.51, 0.52~1.00	51	0.88
50100359	1.00, 1.01, 1.02~1.50	51	0.89
50100360	1.50, 1.51, 1.52~2.00	51	0.90
50100361	2.00, 2.01, 2.02~2.50	51	0.91
50100362	2.50, 2.51, 2.52~3.00	51	0.92
50100363	3.00, 3.01, 3.02~3.50	51	0.93
50100364	3.50, 3.51, 3.52~4.00	51	0.95
50100365	4.00, 4.01, 4.02~4.50	51	0.97
50100366	4.50, 4.51, 4.52~5.00	51	0.99
50100367	5.00, 5.01, 5.02~5.50	51	1.01
50100368	5.50, 5.51, 5.52~6.00	51	1.04
50100369	6.00, 6.01, 6.02~6.50	51	1.06
50100370	6.50, 6.51, 6.52~7.00	51	1.09
50100371	7.00, 7.01, 7.02~7.50	51	1.13
50100372	7.50, 7.51, 7.52~8.00	51	1.16
50100373	8.00, 8.01, 8.02~8.50	51	1.20
50100374	8.50, 8.51, 8.52~9.00	51	1.24
50100375	9.00, 9.01, 9.02~9.50	51	1.28
50100376	9.50, 9.51, 9.52~10.00	51	1.32

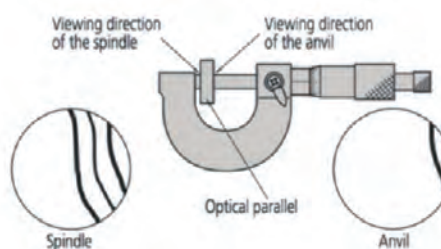
• Custom made of diameter accuracy ±0.5μ and ±0.3μ are available.



MEASURING TOOL – OPTICAL PARALLEL

FEATURES:

- Used for inspecting the flatness of micrometers or gauge blocks' measuring face with high accuracy.
- Supplied with fitted wooden case.



UNIT: mm

ITEM NO.	SPEC.	DIA.	THICKNESS	FLATNESS	SURFACE
50100425	Optical parallel	ø30	12	0.2 µm	0.1 µm
50100426	Optical parallel	ø30	12	0.4 µm	0.2 µm

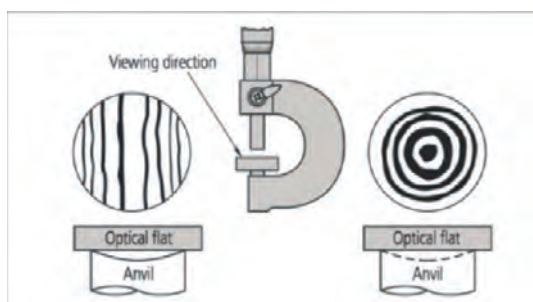


MEASURING TOOL – OPTICAL FLAT



FEATURES:

- Used for inspecting the flatness of micrometers or gauge blocks' measuring face with high accuracy.
- Supplied with fitted wooden case.



UNIT: mm

ITEM NO.	SPEC.	DIA.	THICKNESS	SURFACE
50100427	Single optical	ø45	15	0.1 µm
50100428	Double optical	ø45	15	0.1 µm
50100429	Single optical	ø45	15	0.03 µm
50100430	Double optical	ø45	15	0.03 µm
50100431	Single optical	ø50	20	0.03 µm
50100432	Double optical	ø50	20	0.03 µm
50100433	Single optical	ø60	20	0.03 µm
50100434	Double optical	ø60	20	0.03 µm
50100435	Single optical	ø75	20	0.03 µm
50100436	Double optical	ø75	20	0.03 µm



“ MEASURING TOOLS



ANGLE LEVEL— OIL BATHED PROTRACTORS WITH MAGNET

APPLICATION:

- For instantly checking or measuring horizon or any inclined angle.

FEATURES:

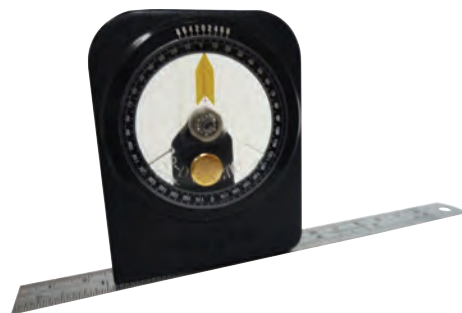
- For setting a pseudo-horizon, upon which a new angle based on the pseudo-horizon can be directly measured.
- High-impact ABS or metal base.

UNIT: mm

ITEM NO.	DIMENSION L x W x H	HOUSING	ACCURACY
50100114	78 x 62 x 14	Abs, w/ 6" steel ruler	±0.2°
50100115	93 x 79 x 16	Abs, w/6" steel ruler	±0.1°
50100419	95 x 102x 10	Metal + ABS	±0.1°
50100116	93 x 79 x 20	Metal	±0.083°
50100117	140 x140 x 30	Metal	±0.05°
50100420	140 x140 x 50	Metal + laser dot.	±0.05°
50100118	70 x 65 x 30	Abs, w/ tape ruler	±0.2°
	Ruler 13 mm / 1/2" x 3 m / 10'		
50100119	95 x 90 x 45 mm	Abs, w/ tape ruler	±0.1°
	Ruler 19 mm / 3/4" x 7.5 m / 25'		
50100120	335 x 73 x 30 mm	Aluminum, w/ tape ruler	±0.2°
	Ruler 13 mm / 1/2" x 3 m / 10'		



▲ ITEM NO. 50100115



▲ ITEM NO. 50100114



▲ ITEM NO. 50100419



▲ ITEM NO. 50100116



▲ ITEM NO. 50100420



▲ ITEM NO. 50100117



▲ ITEM NO. 50100119 (7.5 m)



▲ ITEM NO. 50100118 (3 m)



▲ ITEM NO. 50100120 (3 m)



H2 - ANGLE LEVELS

MEASURING TOOLS

MEASURING TOOLS



LEVEL RULERS

> MAGNET INSIDE

FEATURES:

- ABS stuff
- 90° / 0° / 45°.
- magnet on underside.
- packing of pp bag.



ITEM NO.	SIZE (inch/cm)	DIMENSION (mm)	BOX / CTN (pcs)	N.W. (kgs) / G.W. (kgs) / CUFT
50100377	8 / 20	200 x 38 x 15	20 / 240	18.1 / 19.1 / 1.6'



▲ MAGNET INSIDE

FEATURES:

- Magnet inside.
- Stuff of aluminum and ABS.
- Aluminum thickness of 1.8 mm.
- 90° / 0° / 45° or 90° / 0° / 90°.
- Anodized.
- Skin bag.

ITEM NO.	SIZE (inch/cm)	DIMENSION (mm)	BOX / CTN (pcs)	N.W. (kgs) / G.W. (kgs) / CUFT
50100445	12 / 30	12" x 48 x 23	6 / 48	12.0 / 13.0 / 1.2'
50100446	16 / 40	16" x 48 x 23	6 / 48	16.0 / 17.0 / 1.5'
50100447	18 / 45	18" x 48 x 23	6 / 48	18.0 / 19.0 / 1.7'
50100448	20 / 50	20" x 48 x 23	6 / 36	15.0 / 16.0 / 1.4'
50100449	24 / 60	24" x 48 x 23	6 / 36	18.0 / 19.0 / 1.7'
50100450	28 / 70	28" x 48 x 23	6 / 24	13.0 / 14.0 / 1.3'
50100451	32 / 80	32" x 48 x 23	6 / 24	15.0 / 16.0 / 1.5'
50100452	36 / 90	36" x 48 x 23	6 / 18	13.0 / 14.0 / 1.3'
50100453	40 / 100	40" x 48 x 23	6 / 18	14.5 / 15.5 / 1.4'
50100454	48 / 120	48" x 48 x 23	6 / 18	17.0 / 18.0 / 1.6'



FEATURES:

- Stuff of aluminum and ABS.
- Aluminum thickness of 1.8mm.
- 90° / 0° / 45° or 90° / 0° / 90°.
- Anodized.
- Skin bag.

ITEM NO.	SIZE (inch/cm)	DIMENSION (mm)	BOX / CTN (pcs)	N.W. (kgs) / G.W. (kgs) / CUFT
50100455	12 / 30	12" x 48 x 23	6 / 48	10.5 / 11.5 / 1.2'
50100456	16 / 40	16" x 48 x 23	6 / 48	13.8 / 14.8 / 1.5'
50100457	18 / 45	18" x 48 x 23	6 / 48	15.5 / 16.5 / 1.7'
50100458	20 / 50	20" x 48 x 23	6 / 36	12.8 / 13.8 / 1.4'
50100459	24 / 60	24" x 48 x 23	6 / 36	14.7 / 15.7 / 1.7'
50100460	28 / 70	28" x 48 x 23	6 / 24	11.2 / 12.2 / 1.3'
50100461	32 / 80	32" x 48 x 23	6 / 24	13.0 / 14.0 / 1.5'
50100462	36 / 90	36" x 48 x 23	6 / 18	11.3 / 12.3 / 1.3'
50100463	40 / 100	40" x 48 x 2	6 / 18	12.5 / 13.5 / 1.4'
50100464	48 / 120	48" x 48 x 23	6 / 18	15.0 / 16.0 / 1.6'

FEATURES:

- Acrylic stuff.
- 90° / 0°.
- Magnet on underside x 2pcs.
- Packing of transparent plastic box.



Powerful Magnet

ITEM NO.	SIZE (inch/cm)	DIMENSION (mm)	BOX / CTN (pcs)	N.W. (kgs) / G.W. (kgs) / CUFT
50100465	4 / 10	100 x 40 x 15	12 / 72	16.0 / 17.0 / 0.7'



LASER LINE PROJECTOR



▲ MAGNET

< ITEM NO.50100378

SPECIFICATIONS:

- Laser right line, accuracy: ± 0.36 mm / 3M
- Laser beam angle: 100 degree
- Laser line breadth 2 mm / 4 M
- Laser power: 635 nm x 2 mw
- Effective distance: 10M
- Battery: CR 123A DC 3V
- Magnetic base
- Size: 85 x 23 x 32 mm
- Weight: 100 g
- IOP: <45mA
- MTBF: >5000Hrs.

FEATURES:

- Up and down vertical laser line
- Slope (angle) of laser line
- Plane of laser line
- Two laser line 90 degree position



LASER LINE PROJECTOR, LASER LINE VERTICAL PROJECTOR



▲ MAGNET

< ITEM NO.50100379

SPECIFICATIONS:

- Laser right line, accuracy: ± 0.36 mm / 3M
- Laser beam angle: 100 degree
- Laser line breadth 2 mm / 4M
- Laser power: 635 nm x 2 mw
- Effective distance: 10M
- Battery: CR 123A DC 3V
- Magnetic base
- Size: 85 x 23 x 32 mm
- Weight: 100 g
- IOP: <45mA
- MTBF: >5000Hrs.

FEATURES:

- Up and down vertical laser line
- Slope (angle) of laser line
- Plane of laser line
- Two laser line 90 degree position



ACCURACY BABBLE LEVEL



▲ MAGNET

< ITEM NO.50100380

SPECIFICATIONS:

- Accuracy: $\pm 30''$ (0.015 degree)
- Magnetic base
- Size: 54 x 30 x 27 mm
- Weight: 50 g
- Material: metal & glass

FEATURES:

- Put on level device for more accuracy.



H2 - ANGLE LEVELS

MEASURING TOOLS

“MEASURING TOOLS



HIGH PRECISION ELECTRONIC LASER LEVELS

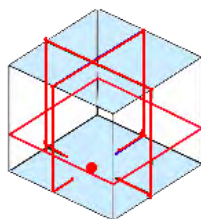
The function of press-button

Press **V1** = Front V + Back V, Re-Press = OFF

Press **V2** = Front V + Left V, Re-Press = OFF

Press **H** = Font 2H + Re-press = 4H, Re-press again = OFF

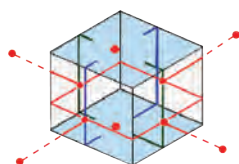
Press **out door** = Signal for detector



4V4H1D



ITEM NO.	50100381 (IP54)
Laser lines	9 Beams: 4 vertical lines, 4 horizontal lines, 1 down dot
Wave length	635 nm (Down dot 650nm)
Laser module power	5 mW or 10 mW
H.v. accuracy	±1mm/ 10M
Square accuracy(90° & 180°)	±1mm/10M
Repeatability	0.5 mm/10M
Time of stabilization	<5 sec
Self leveling range	±3.5°
Working range	Indoor: >15M; Outdoor: >35M (with receiver)
Continuous operating time	5 hours
Working temperature	-10°C~+40°C
Batteries	4 pieces of 3A battery
Weight	1.25 kgs (with battery)
Dimensions	Dia.100 mm x H150 mm + 48 mm
Option accessory	5/8" Tripod, Receiver for 5.5~10 KHZ, Rechargeable batteries, charger.



< GIMBALS STYLE

FUNCTION:

4V + 4H + 6 dots

Add 4 dot for extension distance of laser beam.

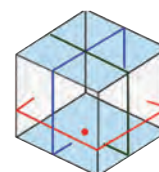
ITEM NO.	ACCURACY	WEIGHT	DIMENSION (L x W x H)
50100383	±1mm / 5M	0.55 kg	80 x 60 x 160 mm

GIMBALS STYLE >

FUNCTION:

2V + 2H + 1C + 1dot

ITEM NO.	ACCURACY	WEIGHT	DIMENSION (L x W x H)
50100384	±1mm / 5M	0.5 kg	70 x 70 x 133 mm





Z AXIS PRESET GAUGES WITH LIGHT DISPLAY OR INDICATOR TYPE

FEATURES:

- Height 50 mm.
- **Base built-in magnets for easy set-up.**
- The red lamp will be lighted up when touched.
- Height can be micro adjusted and audited by gauge block.
- Can be used vertically or horizontally.
- Weight: 0.3 kg.
- Battery type: LR44/A76/G13 x 2PCS
- Accuracy: within 0.005 mm



▲ MAGNETIC BASE

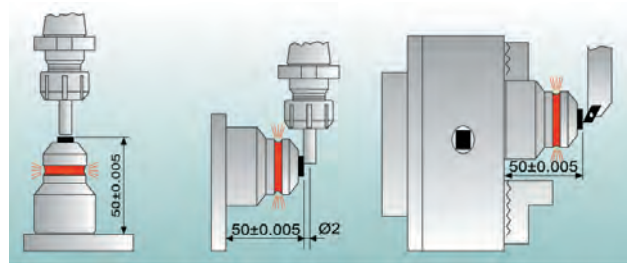
▲ ITEM NO. 50100122



▲ ITEM NO. 50100136

UNIT: mm

ITEM NO.	HEIGHT	G.W. (kgs)	DIMENSION (L x W x H)
50100122	50 ±0.005	0.64	110×100×80
50100136	50 +0.008 -0	1.08	110×100×80
50100385	100 +0.005 -0	1.56	160×120×76



Z AXIAL PRESET GAUGES (INDICATOR TYPE)



▲ ITEM NO.50100387

FEATURES:

- For setting tool length on machining centers & lathe centers.
- Setting height: 50.00±0.005 mm
- Large measuring surface and easy to operate.
- Low spring force to avoid breakage of small end mill and drill.
- Easy to be calibrated by a ground parallel or gauge block.
- Better parallelism, sensitivity, and precision for use.



▲ ITEM NO.50100133

UNIT: mm

ITEM NO.	HEIGHT	G.W. (kgs)	DIMENSION (L x W x H)
50100133	50 +0.008 -0	1.66	180×100×70
50100387	50 +0.005 -0	1.22	110×100×80

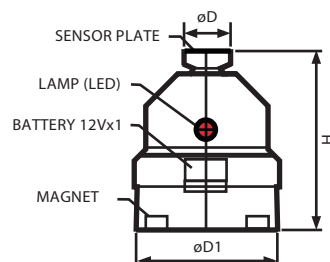


H “ MEASURING TOOLS

ELECTRONIC TOOL LENGTH SETTER

> ITEM NO.50100134

Housing is made by stainless steel, 100% rustproof.
Thanks to the power magnet is inserted at the bottom of the base, this setter can be used in horizontal and vertical position.



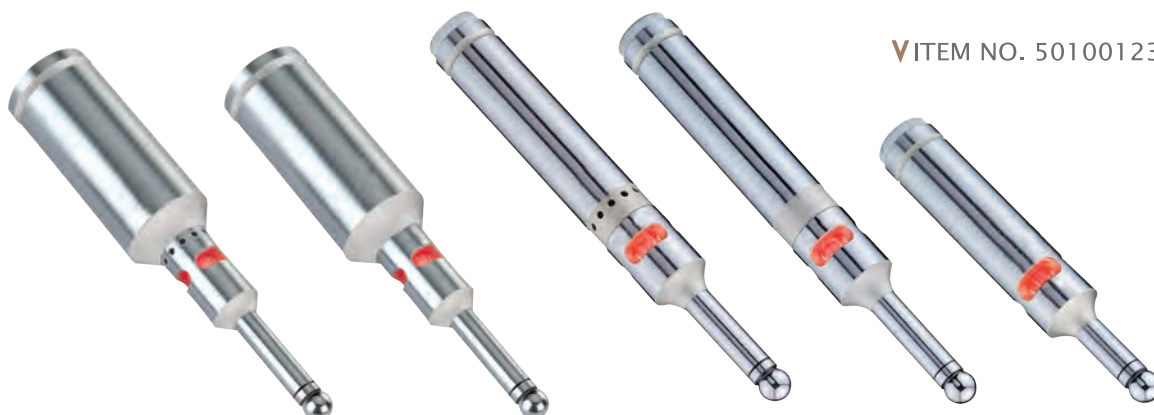
UNIT: mm

ITEM NO.	D	H	ØD1	BATTERY	BEEP
50100134	ø40	50 $\begin{smallmatrix} +0.005 \\ -0 \end{smallmatrix}$	ø16	(LR44)1.5Vx2	NO

OPTICAL EDGE FINDERS

V ITEM NO. 50100124

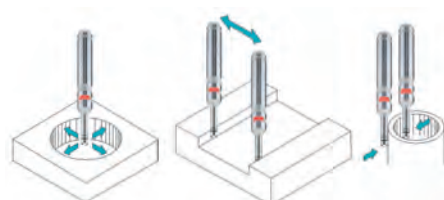
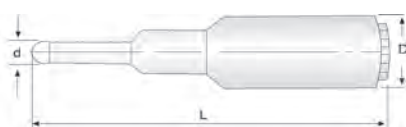
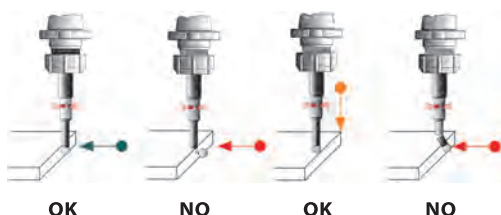
V ITEM NO. 50100123



Δ ITEM NO. 50100389

Δ ITEM NO. 50100126

Δ ITEM NO. 50100125



FEATURES:

- Not necessary to rotate while measuring.
- Quickly locate work edges.
- Save time to find positions, for milling machine, jig borers, and other machine tools.
- Accuracy 0.005 mm
- **ITEM NO. 50100125 & 50100389 are built-in with a beeper.**

IS A HIGH SENSIBLE POSITION MEASURING

- Uses dry batteries to light the red lamp.
- The scope of application includes edge surface, inside and outside diameters and high efficiency.
- There is a safety spring puller which puts the ball precisely back to the position when ball breaks away from ball seat.

BATTERY TYPE:

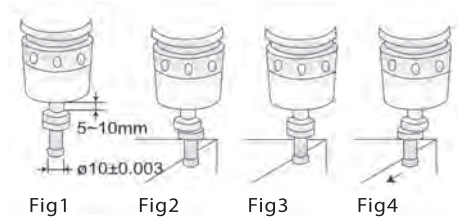
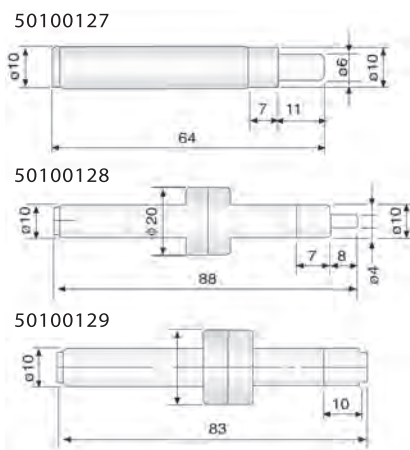
- UM5#, 1.5V x 2PCS (50100124,50100126)
- UM5#, 23A x 12V x 1PCS (50100123,50100389,50100125)

UNIT: mm

ITEM NO.	D	L	d	G.W. (kg)	DIMENSION (L x W x H)
50100123	ø20	120	ø10	0.3	200x72x45
50100124	ø20	158	ø10	0.36	200x72x45
50100125	ø20	158	ø10	0.36	200x72x45
50100126	ø32	158	ø10	0.64	200x72x45
50100389	ø32	158	ø10	0.64	200x72x45



MECHANICAL EDGE FINDERS



FEATURES:

- $\varnothing 10$ mm straight shank can be installed directly on milling chuck or drilling chuck (refer to Fig. 1)
- Press slightly on edge of sensor unit with hands to keep eccentricity at 0.5 mm (refer to Fig. 2)
- Rotate with speed of 400-600RPM.
- Make sensor unit contact to the end face of workpiece shown as Fig. 2. Then, contact and move gradually, it is going to turn into Fig. 3 and sensor unit keeps still. Furthermore, if fine feed is started, then sensor unit will move according to a specific direction. The start point of this movement is the basis position to look for.
- The position of end face of the workpiece is the coordinate position of sensor unit plus radius 5 mm.

CAUTIONS:

- Do not use the bend part or to drag or pull with force.
- Never let impurities of foreign things stain on the slide face.
- While using, be sure the speed not over 600RPM.
- Never apply it on machine of horizontal type.

The mep type is nonmagnetic HV 2500°

UNIT: mm

ITEM NO.	TYPE	G.W. (kg)	DIMENSION (L x W x H)
50100392	10	0.08	120 x 45 x 25
50100393	410	0.08	120 x 45 x 25

Material by stainless steel HRC: 60° UNIT: mm

ITEM NO.	TYPE	G.W. (kg)	DIMENSION (L x W x H)
50100394	420ST	0.07	95 x 26 x 26
50100395	1020ST	0.07	95 x 26 x 26

Steel: CR-MO, alloy steel HRC: 58° UNIT: mm

ITEM NO.	TYPE	G.W. (kg)	DIMENSION (L x W x H)
50100127	610	0.04	95 x 26 x 26
50100128	420	0.07	95 x 26 x 26
50100129	1020	0.07	95 x 26 x 26



H4 - EDGE FINDERS

MEASURING TOOLS

H “ MEASURING TOOLS

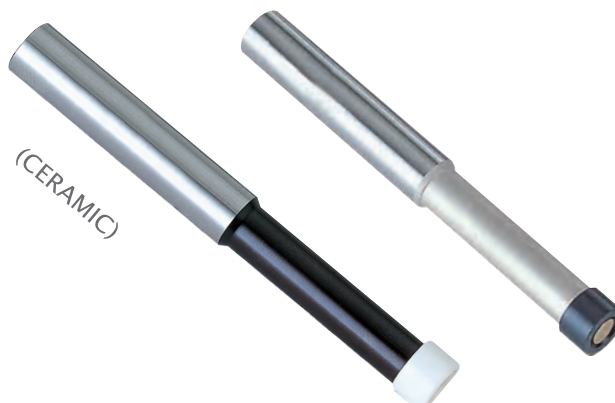


CERAMIC EDGE FINDERS



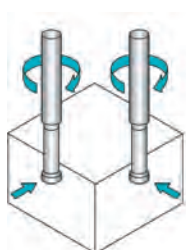
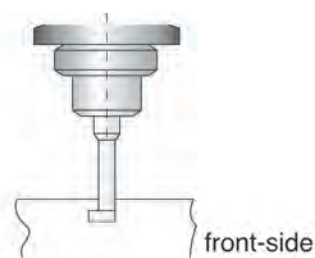
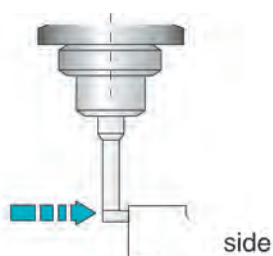
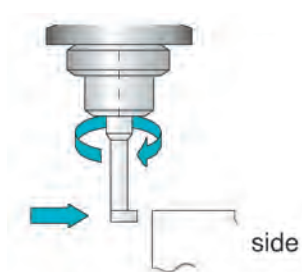
▲ ITEM NO. 50100397

- Edge finder (Ceramic)
- Accuracy: ± 0.002

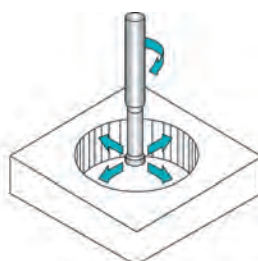


▲ ITEM NO. 50100396

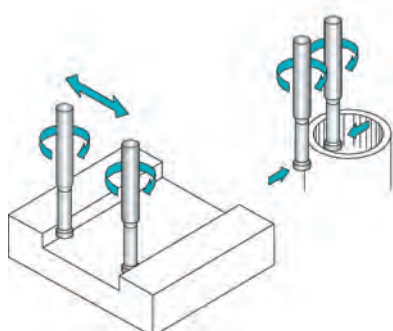
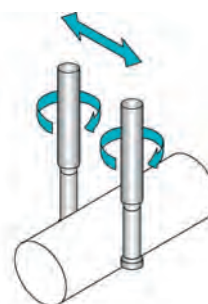
- Ceramic edge finder
- The mep type is nonmagnetic, and the front tip wholly made of ceramic.



Set up the standard position



Measure the internal diameter



Ceramic HV:1350°

UNIT: mm

ITEM NO.	TYPE	G.W.	DIMENSION (L x W x H)
50100396	M-10	0.06 kg	120×45×25

UNIT: mm

ITEM NO.	TYPE	SHANK DIA.	LENGTH	PROBE DIA.
50100397	C-10	10	84	ø10×15L

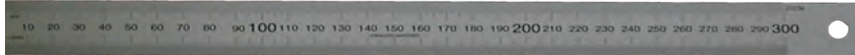


STAINLESS STEEL STRAIGHT RULERS

- HOW TO USE THE GRADUATION SYSTEM: FRONT+BACK ->A+E or B+D or B+E or D+B



< A: METRIC/INCH



< B: METRIC



< D: INCH



< E: CONVERSION TABLE

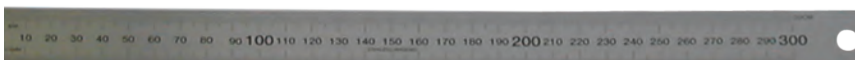


TOP QUALITY SERIES

Inch / Metric



- Surface treatment: Hard chrome finish
- Material: SUS#420J2
- Process of scale: Acid-etched
- Packing: PVC bag



ITEM NO.	GRADUATION (inch/cm)	SIZE (mm) L x W x T	PACKING	N.W. (kg) / G.W. (kg) / CUFT
50100200	6 / 15	170×15.0×0.6	100PCS/Box, 1500PCS/CTN	22.5 / 23.5 / 0.35'
50100201	12 / 30	334×25.5×1.0	20PCS/Box, 400PCS/CTN	28.0 / 29.0 / 0.55'
50100202	18 / 45	484×30.0×1.0	10PCS/Box, 200PCS/CTN	22.0 / 23.0 / 0.60'
50100203	24 / 60	638×31.2×1.2	10PCS/Box, 150PCS/CTN	27.3 / 28.3 / 0.60'
50100204	40 / 100	1043×35.0×1.5	10PCS/Box, 80PCS/CTN	33.6 / 34.6 / 0.65'

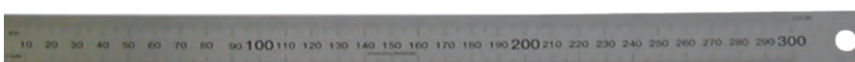


STANDARD SERIES

Inch / Metric



- Surface treatment: Polished finish
- Material: SUS#430
- Process of scale: Acid-etched
- Packing: PVC bag



ITEM NO.	GRADUATION (inch/cm)	SIZE (mm) L x W x T	PACKING	N.W. (kg) / G.W. (kg) / CUFT
50100205	6 / 15	170×15.0×0.6	100PCS/Box, 1500PCS/CTN	22.5 / 23.5 / 0.35'
50100206	8 / 20	226×20.0×0.6	20PCS/Box, 800PCS/CTN	28.0 / 29.0 / 0.66'
50100207	12 / 30	334×23.7×1.0	20PCS/Box, 400PCS/CTN	26.0 / 27.0 / 0.55'
50100208	16 / 40	427×23.7×1.0	20PCS/Box, 300PCS/CTN	25.5 / 26.5 / 0.55'
50100209	18 / 45	484×28.5×1.0	10PCS/Box, 200PCS/CTN	22.0 / 23.0 / 0.60'
50100210	20 / 50	534×28.5×1.2	10PCS/Box, 160PCS/CTN	23.2 / 24.2 / 0.55'
50100211	24 / 60	638×28.5×1.2	10PCS/Box, 150PCS/CTN	26.3 / 27.3 / 0.60'
50100213	40 / 100	1043×35.0×1.2	10PCS/Box, 80PCS/CTN	28.4 / 29.4 / 0.54'
50100214	60 / 150	1568×39.0×2.0	10PCS/Bundle, 60PCS/CTN	58.0 / 61.0 / 0.70'
50100215	80 / 200	2068×39.0×2.0	10PCS/Bundle, 40PCS/CTN	52.0 / 55.0 / 0.60'



“MEASURING TOOLS



STAINLESS STEEL STRAIGHT RULERS— STATIONARY SERIES

Metric



- Surface treatment: Polished finish
- Material: SUS#430
- Process of scale: Acid-etched
- Packing: PVC bag or PP bag

ITEM NO.	GRADUATION (cm)	SIZE (mm) L x W x T	PACKING	N.W. (kg) / G.W. (kg) / CUFT
50100216	15	170×12.3×0.6	12PCS/Bundle, 2160PCS/CTN	21.6 / 22.6 / 0.35'
50100217	30	334×21.7×1.0	12PCS/Bundle, 300PCS/CTN	18.0 / 19.0 / 0.23'
50100218	45	484×25.5×1.0	10PCS/Bundle, 240PCS/CTN	30.0 / 31.0 / 0.27'
50100219	60	638×25.5×1.2	10PCS/Bundle, 150PCS/CTN	23.3 / 24.3 / 0.23'
50100220	100	1043×31.0×1.5	10PCS/Bundle, 100PCS/CTN	32.0 / 33.0 / 0.54'

Metric



- Surface treatment: Polished finish
- Material: SUS#301
- Process of scale: Acid-etched
- Packing: PVC bag or PP bag

ITEM NO.	GRADUATION (cm)	SIZE (mm) L x W x T	PACKING	N.W. (kg) / G.W. (kg) / CUFT
50100221	10	118×13.0×0.4	200PCS/Box, 5000PCS/CTN	22.5 / 23.5 / 0.35'
50100222	15	168×13.0×0.4	200PCS/Box, 4000PCS/CTN	26.0 / 27.0 / 0.55'
50100223	20	218×13.0×0.4	100PCS/Box, 3000PCS/CTN	24.8 / 25.8 / 0.55'
50100224	25	268×13.0×0.4	50PCS/Box, 2000PCS/CTN	21.0 / 22.0 / 0.60'
50100225	30	318×13.0×0.4	50PCS/Box, 2000PCS/CTN	24.5 / 25.5 / 0.50'
50100226	40	418×16.0×0.4	30PCS/Box, 1500PCS/CTN	24.5 / 25.5 / 0.50'
50100227	50	518×16.0×0.4	30PCS/Box, 1200PCS/CTN	24.3 / 25.3 / 0.55'



FLEXIBLE STEEL CORK RULERS

Inch / Metric



- Surface treatment: Polished finish
- Material: SUS#301
- Process of scale: Acid-etched
- Packing: PVC bag or PP bag

ITEM NO.	GRADUATION (inch/cm)	SIZE (mm) L x W x T	PACKING	N.W. (kg) / G.W. (kg) / CUFT
50100228	6 / 15	156×31×0.4	12PCS/Box, 1200PCS/CTN	24.0 / 26.0 / 0.54'
50100229	12 / 30	309×31×0.4	12PCS/Box, 480PCS/CTN	16.5 / 18.0 / 0.42'
50100230	16 / 40	410×31×0.4	12PCS/Box, 240PCS/CTN	9.6 / 10.6 / 0.28'
50100231	18 / 45	461×31×0.4	12PCS/Box, 180PCS/CTN	9.0 / 10.0 / 0.26'
50100232	24 / 60	613×31×0.4	12PCS/Box, 120PCS/CTN	8.2 / 9.2 / 0.25'

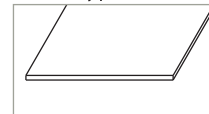


ALUMINUM RULERS

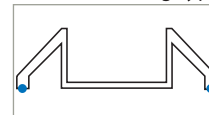
Inch / Metric



A: Flat type



B: Double tilting type



C: Grooves type



Specify shape when ordering

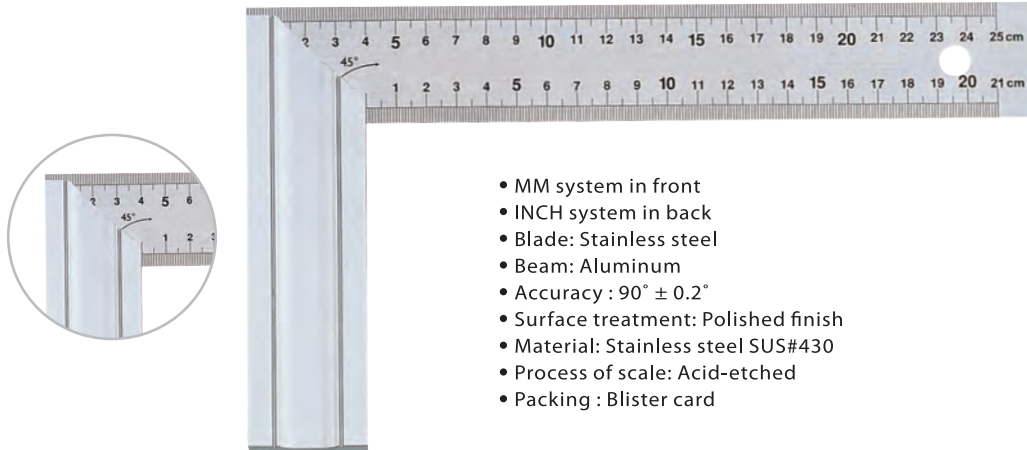
- Surface treatment: Anodized
- Material: Aluminum
- Process of scale: Silkscreen printed
- Packing: PVC bag

ITEM NO.	GRADUATION (inch/cm)	SIZE (mm) L x W x T	PACKING	N.W. (kg) / G.W. (kg) / CUFT
50100234	12 / 30	310 × 35 × 3.5	12PCS/Box, 108PCS/CTN	5.7 / 6.6 / 0.43'
50100235	18 / 45	460 × 35 × 3.5	12PCS/Box, 108PCS/CTN	8.5 / 9.4 / 0.62'
50100236	24 / 60	610 × 35 × 3.5	12PCS/Box, 108PCS/CTN	11.0 / 12.0 / 0.80'
50100237	40 / 100	1010 × 35 × 3.5	12PCS/Box, 108PCS/CTN	18.0 / 19.5 / 1.30'



ALUMINUM SQUARES – POLISHED FINISH

Metric



- MM system in front
- INCH system in back
- Blade: Stainless steel
- Beam: Aluminum
- Accuracy : $90^\circ \pm 0.2^\circ$
- Surface treatment: Polished finish
- Material: Stainless steel SUS#430
- Process of scale: Acid-etched
- Packing : Blister card

ITEM NO.	GRADUATION (cm)	SIZE (mm) L x W x T	PACKING	N.W. (kg) / G.W. (kg) / CUFT
50100238	15	150 × 40 × 1.0	25PCS/Box, 100PCS/CTN	17.5 / 18.5 / 0.7'
50100239	20	200 × 40 × 1.0	25PCS/Box, 100PCS/CTN	19.5 / 20.5 / 0.9'
50100240	25	250 × 40 × 1.0	20PCS/Box, 80PCS/CTN	17.7 / 18.7 / 1.5'
50100241	30	300 × 40 × 1.0	20PCS/Box, 80PCS/CTN	19.3 / 20.3 / 1.6'
50100242	40	400 × 40 × 1.0	20PCS/Box, 80PCS/CTN	27.6 / 28.6 / 2.5'



H5 - STRAIGHT RULERS

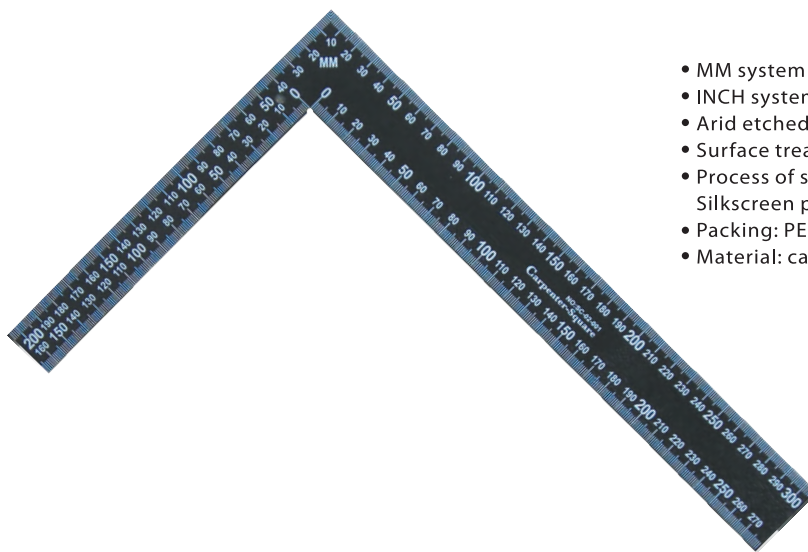
MEASURING TOOLS

H “ MEASURING TOOLS



CARPENTERS – SQUARE STEEL RULERS

Inch / Metric



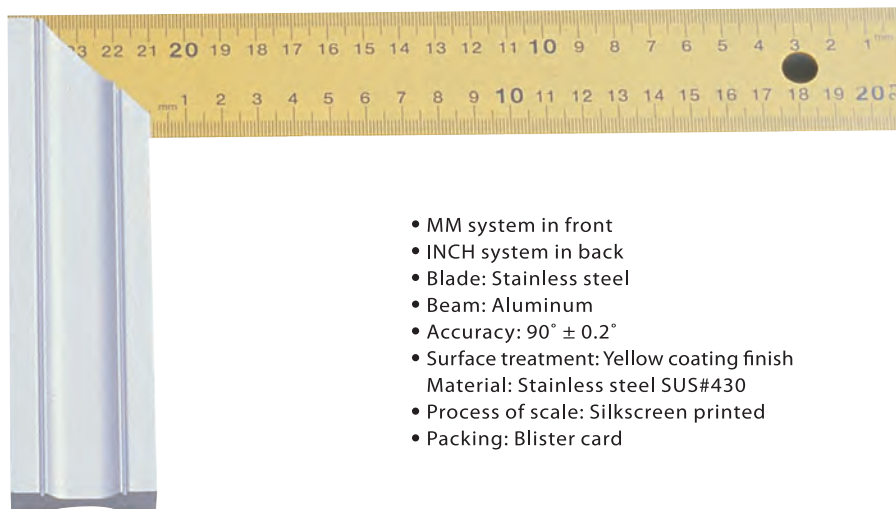
- MM system in front
- INCH system in back
- Arid etched or silkscreen printed
- Surface treatment: Black coating
- Process of scale: Acid etched & Silkscreen printed
- Packing: PE bag
- Material: carbon steel

ITEM NO.		GRADUATION		SIZE (mm)				PACKING	N.W. (kg) / G.W. (kg) / CUFT
ACID ETCHED	SILKSCREEN PRINTED	LONG HANDLE (inch/cm)	SHORT HANDLE (inch/cm)	A	B	C	D		
–	50100263	12 / 30	8 / 20	305	203	38	26	100PCS/CTN	19.0/20.0/0.7'
–	50100264	24 / 60	16 / 40	609	407	51	38	30PCS/CTN	22.8/23.8/1.0'



ALUMINUM SQUARES – YELLOW COATING

Metric



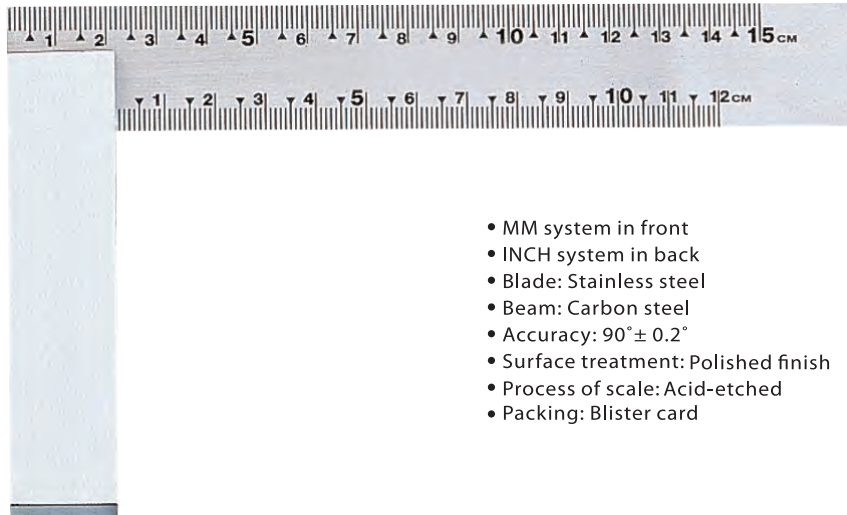
- MM system in front
- INCH system in back
- Blade: Stainless steel
- Beam: Aluminum
- Accuracy: $90^{\circ} \pm 0.2^{\circ}$
- Surface treatment: Yellow coating finish
- Material: Stainless steel SUS#430
- Process of scale: Silkscreen printed
- Packing: Blister card

ITEM NO.	GRADUATION (cm)	SIZE (mm) L x W x T	PACKING	N.W. (kg) / G.W. (kg) / CUFT
50100248	15	150×40×1.0	25PCS/Box, 100PCS/CTN	17.5 / 18.5 / 0.7'
50100249	20	200×40×1.0	25PCS/Box, 100PCS/CTN	19.5 / 20.5 / 0.9'
50100250	25	250×40×1.0	20PCS/Box, 80PCS/CTN	17.7 / 18.7 / 1.5'
50100251	30	300×40×1.0	20PCS/Box, 80PCS/CTN	19.3 / 20.3 / 1.6'
50100252	40	400×40×1.0	20PCS/Box, 80PCS/CTN	27.6 / 28.6 / 2.5'



STAINLESS STEEL SQUARES

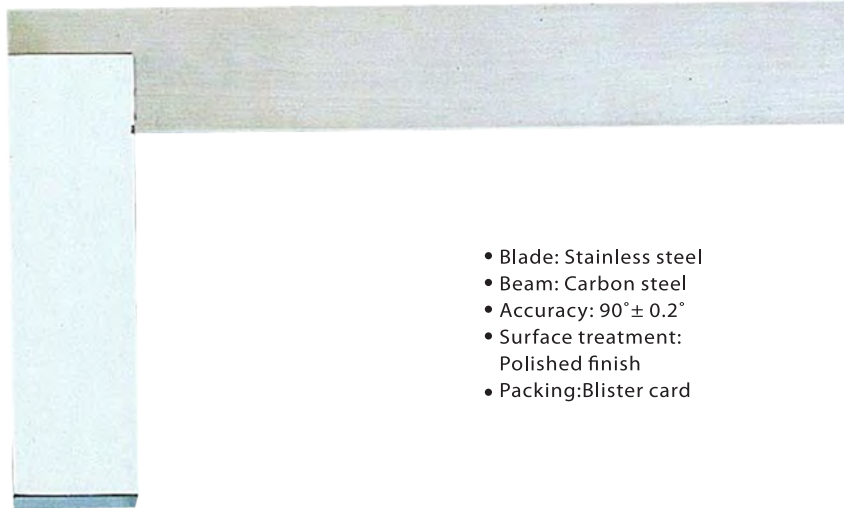
Inch / Metric



- MM system in front
- INCH system in back
- Blade: Stainless steel
- Beam: Carbon steel
- Accuracy: $90^\circ \pm 0.2^\circ$
- Surface treatment: Polished finish
- Process of scale: Acid-etched
- Packing: Blister card

ITEM NO.	GRADUATION (BLADE) (inch/cm)	SIZE (mm) L x W x T	PACKING	N.W. (kg) / G.W. (kg) / CUFT
50100265	4 / 10	66 x 22 x 12	25PCS/Box, 150PCS/CTN	26.3 / 27.3 / 0.7'
50100266	5 / 12	76 x 22 x 12	25PCS/Box, 150PCS/CTN	31.5 / 32.5 / 0.8'
50100267	6 / 15	91 x 22 x 12	25PCS/Box, 100PCS/CTN	27.0 / 28.0 / 0.7'
50100268	8 / 20	106 x 22 x 12	25PCS/Box, 100PCS/CTN	32.5 / 33.5 / 0.9'
50100269	10 / 25	121 x 25.4 x 19	10PCS/Box, 40PCS/CTN	23.6 / 24.6 / 0.9'
50100270	12 / 30	136 x 25.4 x 19	10PCS/Box, 40PCS/CTN	27.2 / 28.2 / 1.0'

Inch / Metric



- Blade: Stainless steel
- Beam: Carbon steel
- Accuracy: $90^\circ \pm 0.2^\circ$
- Surface treatment: Polished finish
- Packing: Blister card

ITEM NO.	GRADUATION (BLADE) (inch/cm)	SIZE (mm) L x W x T	PACKING	N.W. (kg) / G.W. (kg) / CUFT
50100272	4 / 10	66 x 22 x 12	25PCS/Box, 150PCS/CTN	26.3 / 27.3 / 0.7'
50100273	5 / 12	76 x 22 x 12	25PCS/Box, 150PCS/CTN	31.5 / 32.5 / 0.8'
50100274	6 / 15	91 x 22 x 12	25PCS/Box, 100PCS/CTN	27.0 / 28.0 / 0.7'
50100275	8 / 20	106 x 22 x 12	25PCS/Box, 100PCS/CTN	32.5 / 33.5 / 0.9'
50100276	10 / 25	121 x 25.4 x 19	10PCS/Box, 40PCS/CTN	23.6 / 24.6 / 0.9'
50100277	12 / 30	136 x 25.4 x 19	10PCS/Box, 40PCS/CTN	27.2 / 28.2 / 1.0'



H6 - SQUARES

MEASURING TOOLS

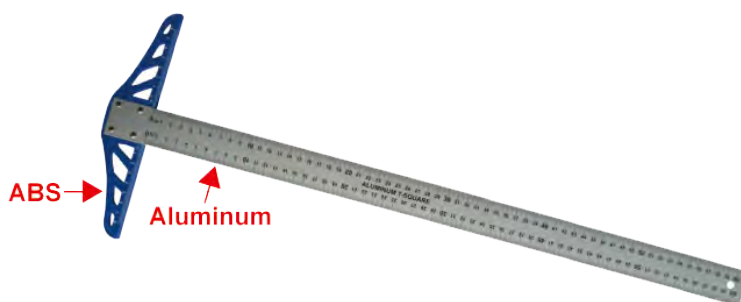
“ MEASURING TOOLS



T-SQUARES

FEATURES:

- Base head of ABS.
- Ruler of aluminum and anodized finished.
- UV ink printed.
- Packing of skin.



ITEM NO.	DIMENSION (mm)	PACKING	N.W. (kgs) / G.W. (kgs) / CUFT
50100466	12" / 300 x 38.1 x 1.6	6PCS/Box, 36PCS/CTN	3.0 / 4.5 / 0.76'
50100467	15" / 400 x 38.1x 1.6	6PCS/Box, 36PCS/CTN	3.4 / 5.3 / 0.90'
50100468	18" / 450 x 38.1 x 1.6	6PCS/Box, 36PCS/CTN	3.8 / 5.7 / 1.13'
50100469	24" / 600 x 38.1 x 1.6	6PCS/Box, 36PCS/CTN	4.5 / 7.0 / 1.46'
50100470	30" / 750 x 38.1 x 1.6	6PCS/Box, 36PCS/CTN	5.6 / 8.4 / 1.78'
50100471	36" / 900 x 38.1 x 1.6	6PCS/Box, 36PCS/CTN	6.7 / 9.8 / 2.11'

FEATURES:

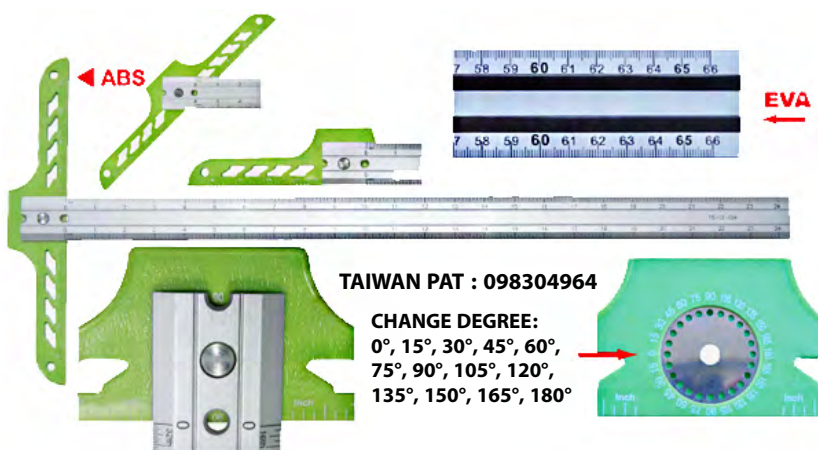
- Base head of aluminum and black coating.
- Ruler of stainless steel and polish finished.
- UV ink printed.
- Packing of skin.



ITEM NO.	DIMENSION (mm)	PACKING	N.W. (kgs) / G.W. (kgs) / CUFT
50100472	18" / 450 x 38.1 x 1.2	6PCS/Box, 36PCS/CTN	10.2 / 10.8 / 2.43'
50100473	24" / 600 x 38.1 x 1.2	6PCS/Box, 36PCS/CTN	13.6 / 15.2 / 2.56'
50100474	30" / 760 x 38.1 x 1.2	6PCS/Box, 36PCS/CTN	16.7 / 18.2 / 3.84'
50100475	36" / 920 x 38.1 x 1.2	6PCS/Box, 36PCS/CTN	18.3 / 21.1 / 4.27'
50100476	42" / 1060 x 38.1 x 1.2	6PCS/Box, 36PCS/CTN	21.2 / 23.2 / 4.47'
50100477	48" / 1220 x 38.1 x 1.2	6PCS/Box, 36PCS/CTN	22.7 / 25.7 / 5.63'

FEATURES:

- Base head of ABS.
- Ruler of aluminum and anodized finished.
- UV ink printed.
- Packing of skin.



ITEM NO.	DIMENSION (inch/mm)	PACKING	N.W. (kgs) / G.W. (kgs) / CUFT
50100478	18 / 450	10PCS/Box, 80PCS/CTN	14.5 / 19.6 / 1.19'
50100479	24 / 600	10PCS/Box, 60PCS/CTN	13.0 / 17.6 / 1.10'
50100480	30 / 750	10PCS/Box, 60PCS/CTN	15.0 / 20.4 / 1.30'
50100481	36 / 900	10PCS/Box, 40PCS/CTN	11.5 / 15.6 / 1.02'
50100482	42 / 1050	10PCS/Box, 40PCS/CTN	13.0 / 17.5 / 1.15'
50100483	48 / 1200	10PCS/Box, 40PCS/CTN	14.5 / 19.4 / 1.29'



STAINLESS STEEL SQUARES



- Surface treatment: Anodized
- Material: Aluminum W/ABS Handle
- Process of scale: UV ink printed
- Packing: PVC bag

ITEM NO.	GRADUATION (inch/mm)	PACKING	N.W. (kgs) / G.W. (kgs) / CUFT
50100302	24 / 600	12PCS/Box, 48PCS/CTN	14.5 / 16.0 / 1.45'
50100303	36 / 900	12PCS/Box, 48PCS/CTN	18.0 / 20.0 / 2.0'
50100406	42 / 1050	12PCS/Box, 48PCS/CTN	20.0 / 22.0 / 2.25'



POCKET RULERS

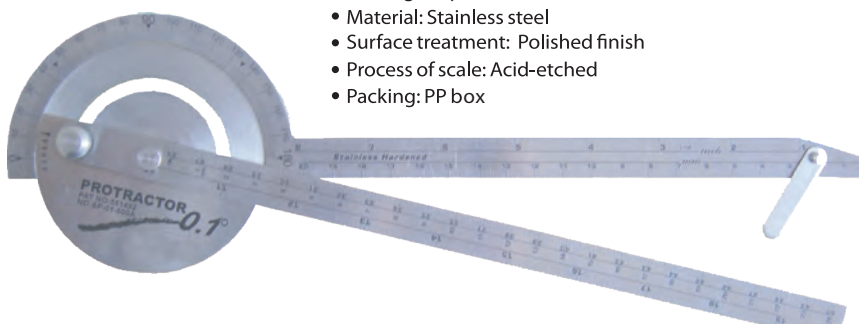


- Metric /Inch
- Conversion system in back
- Surface treatment: Polished finish
- Material: Stainless steel
- Process of scale: Acid-etched
- Packing: PP bag

ITEM NO.	GRADUATION (inch/mm)	PACKING	N.W. (kgs) / G.W. (kgs) / CUFT
50100304	6 / 150	100PCS/Box, 2500PCS/CTN	25.0 / 26.0 / 1.43'



STAINLESS STEEL PROTRACTOR



- 0.1 degree protractor
- Material: Stainless steel
- Surface treatment: Polished finish
- Process of scale: Acid-etched
- Packing: PP box

- Stainless steel. Polish finished. Scale etched. Plastic box. 0.1 degree protractor

ITEM NO.	MODEL	SIZE (mm)	PACKING	N.W. (kgs) / G.W. (kgs) / CUFT
50100405	SP-01-500A	500 × 57 × 1.5	1PCS/Box, 24PCS/CTN	7.4 / 8 / 0.75'

- Any available angle for measure and operation.
- A pin, not necessary for holding when you measure.

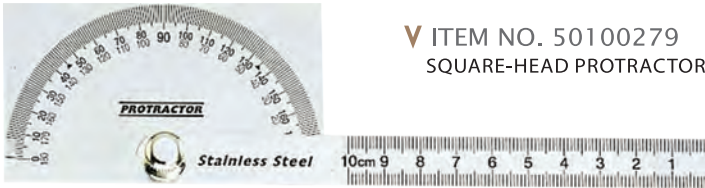


H “ MEASURING TOOLS

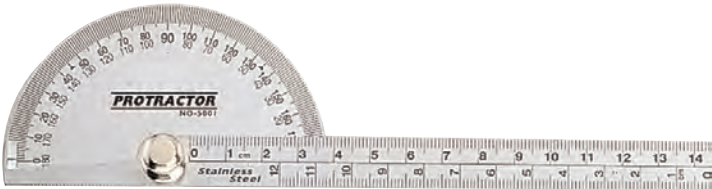


STAINLESS STEEL PROTRACTORS

V ITEM NO. 50100278,50100283
 HALF-ROUND PROTRACTOR



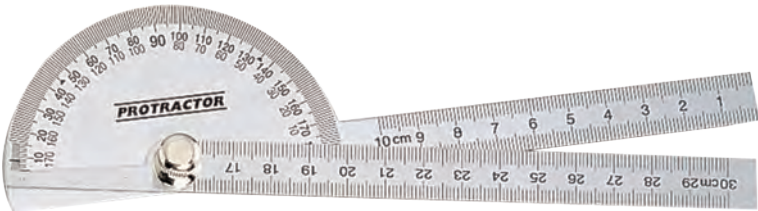
V ITEM NO. 50100279
 SQUARE-HEAD PROTRACTOR



V ITEM NO. 50100281
 TWIN-HANDLE PROTRACTOR



V ITEM NO. 50100280
 RIVET MODE PROTRACTOR



V ITEM NO. 50100282
 TWIN-HANDLE PROTRACTOR (EXTRA LONG BLADE)

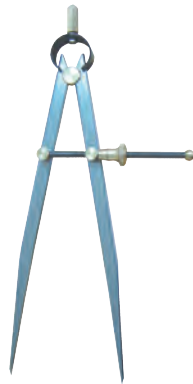


- Polished finish: SUS 430
- Hard chromed: SUS 420J2
- Surface treatment:
Polished finish or hard chromed
- Process of scale: Acid-etched
- Packing: Blister card

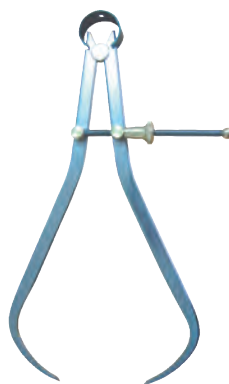
ITEM NO.		DESCRIPTION OF GOODS	PACKING		N.W. (kgs) / G.W. (kgs) / CUFT
POLISH	HARD CHROME		IN BOX	OUT BOX	
50100278	50100283	Half-round protractor	10PCS/Box	250PCS/CTN	17.5 / 18.5 / 1.43'
50100279	–	Square-head protractor	10PCS/Box	250PCS/CTN	20.0 / 21.0 / 1.43'
50100280	–	Rivet mode protractor	20PCS/Box	500PCS/CTN	27.5 / 28.5 / 1.43'
50100281	–	Twin-handle protractor	10PCS/Box	250PCS/CTN	21.3 / 22.3 / 1.43'
50100282	–	Twin-handle protractor (Extra long)	10PCS/Box	120pcs/CTN	18.0 / 19.0 / 1.90'



DIVIDER AND CALIPERS



DIVIDER



OUTSIDE CALIPER



INSIDE CALIPER

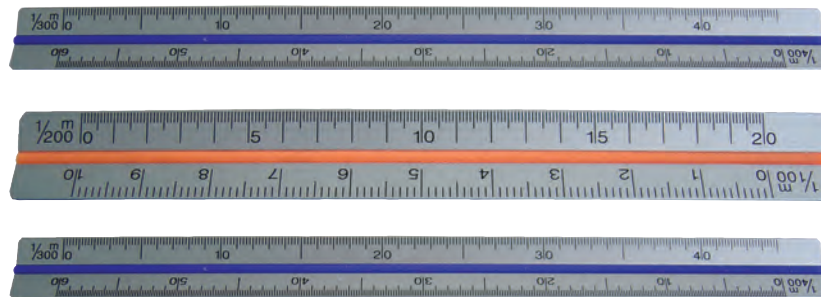
- Hardness: HRC 45°~50°
- Surface treatment: Polished finish or black coating finish
- Material: Carbon steel
- Packing: Blister card

ITEM NO.		SIZE (inch)	DESCRIPTION	PACKING	N.W. (kgs) / G.W. (kgs) / CUFT
POLISH	QUICK ADJUST				
50100484	-	4"	Divider	10PCS/Box, 100PCS/CTN	10.0 / 11.5 / 2.5'
50100287	50100407	6"	Divider	10PCS/Box, 100PCS/CTN	12.0 / 13.5 / 2.5'
50100288	50100408	8"	Divider	10PCS/Box, 100PCS/CTN	14.0 / 15.5 / 2.5'
50100289	50100409	6"	Outside Caliper	10PCS/Box, 100PCS/CTN	12.0 / 13.5 / 2.5'
50100290	50100410	8"	Outside Caliper	10PCS/Box, 100PCS/CTN	14.0 / 15.5 / 2.5'
50100291	50100411	6"	Inside Caliper	10PCS/Box, 100PCS/CTN	12.0 / 13.5 / 2.5'
50100292	50100412	8"	Inside Caliper	10PCS/Box, 100PCS/CTN	14.0 / 15.5 / 2.5'

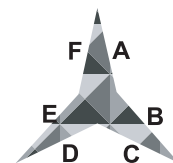


RATIO-SCALE RULERS

FEATURES: Aluminum, exquisite design, resistant to all weather
Inch / Metric



- Surface treatment: Anodized
- Material: Aluminum
- Process of scale: UV ink printed
- Packing: PVC bag



SIDE RATIO

A	1:100
B	1:200
C	1:300
D	1:400
E	1:500
F	1:600

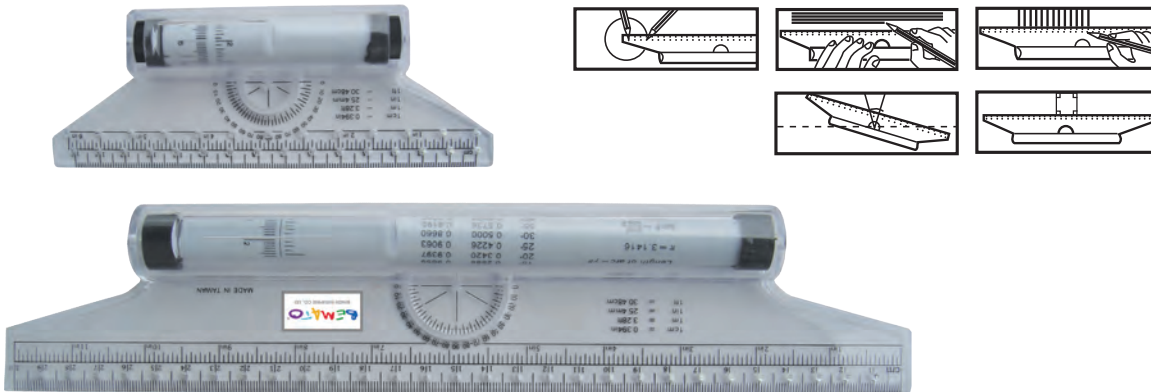
ITEM NO.	SIZE (inch/mm)	PACKING	PACKING	N.W. (kgs) / G.W. (kgs) / CUFT
50100299	4" / 100	PVC bag	10PCS/Box, 500PCS/CTN	12.0 / 13.0 / 0.6'
50100300	6" / 150	PVC bag	10PCS/Box, 500PCS/CTN	16.5 / 17.5 / 0.9'
50100301	12" / 300	PVC bag	10PCS/Box, 100PCS/CTN	12.8 / 13.8 / 2.7'



H “ MEASURING TOOLS



ROLLING RULERS

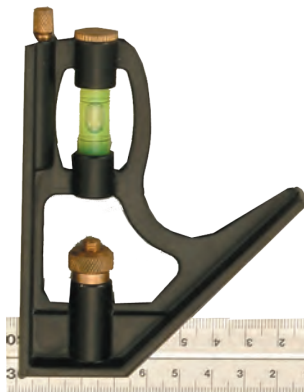


PVC. Silkscreen printed. Paper box.

ITEM NO.	SIZE (inch/mm)	PACKING	N.W. (kgs) / G.W. (kgs) / CUFT
50100413	6" / 150	1PC/Box, 288PCS/CTN	13.0 / 15.0 / 3.10'
50100414	12" / 300	1PC/Box, 144PCS/CTN	13.0 / 15.0 / 3.10'

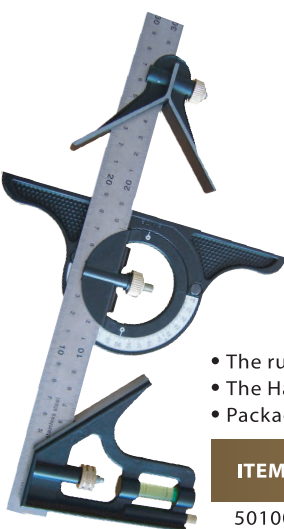


COMBINATION SQUARE RULERS



- The ruler: Stainless Steel / Polish Finished
- The handle: Zinc Alloy cast / Black Coated
- Slide card

ITEM NO.	SIZE (inch/mm)	DIMENSION (mm)	PACKING	N.W. (kgs) / G.W. (kgs)
50100415	8" / 200	203.2 × 25.4	25PCS/Box, 100PCS/CTN	21.5 / 22.5
50100416	12" / 300	304.8 × 25.4	12PCS/Box, 60PCS/CTN	18.5 / 19.5
50100417	16" / 400	406.4 × 25.4	12PCS/Box, 60PCS/CTN	22.8 / 23.8



- The ruler: Stainless Steel / Polish Finished.
- The Handle: Zinc Alloy Cast / Black coated.
- Package: Paper Box.

ITEM NO.	SIZE (inch/mm)	DIMENSION (mm)	PACKING	N.W. (kgs) / G.W. (kgs)
50100418	12" / 300	304.8 × 25.4	6 PCS/Box, 24PCS/CTN	15.8 / 16.8



5/10" PROFILE CONTOUR GAUGES (RED/ BLUE COLOR)

FEATURES:

- With 2 PCS / 4 PCS - magnetic block.
- Made of impact - plastic body.
- Metric & imperial scale.
- Copies awkward shapes when tiling, wallpapering, taying carpet, vinyl and laminate flooring.
- Packing: 5"/126 mm PC-sliding card, 30/60PCS/CTN, 16 kgs / 17 kgs / 1.5'
- 10"/254 mm PC-sliding card, 10/40PCS/CTN, 21 kgs / 22 kgs / 2.8'.



▲ ITEM NO. 50100440 (5"), 50100441 (10")



▲ ITEM NO. 50100442 (5"), 50100443 (10")



6" PROFESSIONAL STEEL COUNTER GAUGE

FEATURES:

- Inch and metric graduation on body
- Paint-black finished.
- Stainless steel pin l= 3-1/4" (82 mm)
- Packing: PC-sliding card, 10/100PCS/CTN, 22 /23 kgs/2.5'



▲ ITEM NO. 50100444



H “MEASURING TOOLS



TSCHORN 3D-TESTER-GERMANY



The 3D protection system is constructed in 4 levels:

Level 1 - breaking point 1
(= bending the narrow probe tip)



Level 2 - breaking point 2
(= a fracture on the taper)



Level 3 - mechanical limits
(= the probe mechanic's mech. limits in X/Y)



FEATURES	
★ Weight	Lighter easy to grip
★ Maximum diameter	Smaller diameter easy to grip hard to drop
★ Stuff of probe tip	Stainless steel hard to break low maintenance
Country of origin	Germany
★ Outward appearance	Attractive
★ Precision of probe tip	Stainless steel higher precision
★ Commitment of repair	Repair center in Taiwan full of spare parts fair price
★ Price	Fair price



▲ Probe Tip Standard



▲ Probe Tip Long

UNIT: mm

ITEM NO.	DESCRIPTION	SHANK	LENGTH	TRACER
50100421	3D-Tester	Ø12	ca. 118	Ø3
50100421-1	Probe tip standard	-	27	Ø3
50100421-2	Probe tip long	-	62	Ø6