

Gauge Blocks (Long)

For accuracy inspection of mid to large size measuring tools, instruments and machine tools.



Model No.	Spec. (mm)	Step (mm)	Quantity	Model No.	Spec. (mm)	Step (mm)	Quantity
GB-908S-0 Grade: 0	25, 50 75, 100	25	8	GB-905L-0 Grade: 0	600, 700 800, 900 1000	100	5
GB-908S-1 Grade: 1	125, 150 175, 200			GB-905L-1 Grade: 1			
GB-908M-0 Grade: 0	125, 150 175, 200	25 25	8	*Accuracy: according to DIN 861/ISO 3650 standard *Full set with the calibration report of JCC (ISO 17025) *Material: Hardened steel Hardness: HV650~800.			
GB-908M-1 Grade: 1	250, 300 400, 500	50 100					

Gauge Blocks (Individual)

Material: Hardened steel, Hardness: HV650-800

Model No.	Spec. (mm)	Grade
GB-0.2-0	0.2	0
GB-0.2-1		1
GB-0.3-0	0.3	0
GB-0.3-1		1
GB-0.4-0	0.4	0
GB-0.4-1		1
GB-0.5-0	0.5	0
GB-0.5-1		1
GB-0.6-0	0.6	0
GB-0.6-1		1
GB-0.7-0	0.7	0
GB-0.7-1		1
GB-0.8-0	0.8	0
GB-0.8-1		1
GB-0.9-0	0.9	0
GB-0.9-1		1
GB-1.0-0	1.0	0
GB-1.0-1		1
GB-1.0005-0	1.0005	0
GB-1.0005-1		1
GB-1.001-0	1.001	0
GB-1.001-1		1
GB-1.002-0	1.002	0
GB-1.002-1		1
GB-1.003-0	1.003	0
GB-1.003-1		1
GB-1.004-0	1.004	0
GB-1.004-1		1
GB-1.005-0	1.005	0
GB-1.005-1		1
GB-1.006-0	1.006	0
GB-1.006-1		1
GB-1.007-0	1.007	0
GB-1.007-1		1
GB-1.008-0	1.008	0
GB-1.008-1		1
GB-1.009-0	1.009	0
GB-1.009-1		1
GB-1.010-0	1.010	0
GB-1.010-1		1

Model No.	Spec. (mm)	Grade
GB-1.01-0	1.01	0
GB-1.01-1		1
GB-1.02-0	1.02	0
GB-1.02-1		1
GB-1.03-0	1.03	0
GB-1.03-1		1
GB-1.04-0	1.04	0
GB-1.04-1		1
GB-1.05-0	10.5	0
GB-1.05-1		1
GB-1.06-0	1.06	0
GB-1.06-1		1
GB-1.07-0	1.07	0
GB-1.07-1		1
GB-1.08-0	1.08	0
GB-1.08-1		1
GB-1.09-0	1.09	0
GB-1.09-1		1
GB-1.1	1.10	0
GB-1.0		1
GB-1.11-0	1.11	0
GB-1.11-1		1
GB-1.12-0	1.12	0
GB-1.12-1		1
GB-1.13-0	1.13	0
GB-1.13-1		1
GB-1.14-0	1.14	0
GB-1.14-1		1
GB-1.15-0	1.15	0
GB-1.15-1		1
GB-1.16-0	1.16	0
GB-1.16-1		1
GB-1.17-0	1.17	0
GB-1.17-1		1
GB-1.18-0	1.18	0
GB-1.18-1		1
GB-1.19-0	1.19	0
GB-1.19-1		1
GB-1.20-0	1.20	0
GB-1.20-1		1

Model No.	Spec. (mm)	Grade
GB-1.21-0	1.21	0
GB-1.21-1		1
GB-1.22-0	1.22	0
GB-1.22-1		1
GB-1.23-0	1.23	0
GB-1.23-1		1
GB-1.24-0	1.24	0
GB-1.24-1		1
GB-1.25-0	1.25	0
GB-1.25-1		1
GB-1.26-0	1.26	0
GB-1.26-1		1
GB-1.27-0	1.27	0
GB-1.27-1		1
GB-1.28-0	1.28	0
GB-1.28-1		1
GB-1.29-0	1.29	0
GB-1.29-1		1
GB-1.30-0	1.30	0
GB-1.30-1		1
GB-1.31-0	1.31	0
GB-1.31-1		1
GB-1.32-0	1.32	0
GB-1.32-1		1
GB-1.33-0	1.33	0
GB-1.33-1		1
GB-1.34-0	1.34	0
GB-1.34-1		1
GB-1.35-0	1.35	0
GB-1.35-1		1
GB-1.36-0	1.36	0
GB-1.36-1		1
GB-1.37-0	1.37	0
GB-1.37-1		1
GB-1.38-0	1.38	0
GB-1.38-1		1
GB-1.39-0	1.39	0
GB-1.39-1		1
GB-1.40-0	1.40	0
GB-1.40-1		1
GB-1.41-0	1.41	0
GB-1.41-1		1

Model No.	Spec. (mm)	Grade
GB-1.42-0	1.42	0
GB-1.42-1		1
GB-1.43-0	1.43	0
GB-1.43-1		1
GB-1.44-0	1.44	0
GB-1.44-1		1
GB-1.45-0	1.45	0
GB-1.45-1		1
GB-1.46-0	1.46	0
GB-1.46-1		1
GB-1.47-0	1.47	0
GB-1.47-1		1
GB-1.48-0	1.48	0
GB-1.48-1		1
GB-1.49-0	1.49	0
GB-1.49-1		1
GB-1.50-0	1.50	0
GB-1.50-1		1
GB-1.60-0	1.60	0
GB-1.60-1		1
GB-1.70-0	1.70	0
GB-1.70-1		1
GB-1.80-0	1.80	0
GB-1.80-1		1
GB-1.90-0	1.90	0
GB-1.90-1		1
GB-2.00-0	2.0	0
GB-2.00-1		1
GB-2.50-0	2.5	0
GB-2.50-1		1
GB-3.00-0	3.0	0
GB-3.00-1		1
GB-3.50-0	3.5	0
GB-3.50-1		1
GB-4.00-0	4.0	0
GB-4.00-1		1
GB-4.50-0	4.5	0
GB-4.50-1		1
GB-5.00-0	5.0	0
GB-5.00-1		1
GB-5.50-0	5.5	0
GB-5.50-1		1

Gauge Blocks (Individual)

Material: Hardened steel, Hardness: HV650-800



Model No.	Spec. (mm)	Grade
GB-6.0-0	6.0	0
GB-6.0-1		1
GB-6.5-0	6.5	0
GB-6.5-1		1
GB-7.0-0	7.0	0
GB-7.0-1		1
GB-7.5-0	7.5	0
GB-7.5-1		1
GB-8.0-0	8.0	0
GB-8.0-1		1
GB-8.5-0	8.5	0
GB-8.5-1		1
GB-9.0-0	9.0	0
GB-9.0-1		1
GB-9.5-0	9.5	0
GB-9.5-1		1
GB-10.0-0	10.0	0
GB-10.0-1		1
GB-10.5-0	10.5	0
GB-10.5-1		1
GB-11.0-0	11.0	0
GB-11.0-1		1
GB-11.5-0	11.5	0
GB-11.5-1		1
GB-12.0-0	12.0	0
GB-12.0-1		1
GB-12.5-0	12.5	0
GB-12.5-1		1
GB-13.0-0	13.0	0
GB-13.0-1		1
GB-13.5-0	13.5	0
GB-13.5-1		1
GB-14.0-0	14.0	0
GB-14.0-1		1

Model No.	Spec. (mm)	Grade
GB-14.5-0	14.5	0
GB-14.5-1		1
GB-15.0-0	15.0	0
GB-15.0-1		1
GB-15.5-0	15.5	0
GB-15.5-1		1
GB-16.0-0	16.0	0
GB-16.0-1		1
GB-16.5-0	16.5	0
GB-16.5-1		1
GB-17.0-0	17.0	0
GB-17.0-1		1
GB-17.5-0	17.5	0
GB-17.5-1		1
GB-18.0-0	18.0	0
GB-18.0-1		1
GB-18.5-0	18.5	0
GB-18.5-1		1
GB-19.0-0	19.0	0
GB-19.0-1		1
GB-19.5-0	19.5	0
GB-19.5-1		1
GB-20.0-0	20.0	0
GB-20.0-1		1
GB-20.5-0	20.5	0
GB-20.5-1		1
GB-21.0-0	21.0	0
GB-21.0-1		1
GB-21.5-0	21.5	0
GB-21.5-1		1
GB-22.0-0	22.0	0
GB-22.0-1		1
GB-22.5-0	22.5	0
GB-22.5-1		1

Model No.	Spec. (mm)	Grade
GB-23.0-0	23.0	0
GB-23.0-1		1
GB-23.5-0	23.5	0
GB-23.5-1		1
GB-24.0-0	24.0	0
GB-24.0-1		1
GB-24.5-0	24.5	0
GB-24.5-1		1
GB-25.0-0	25	0
GB-25.0-1		1
GB-30.0-0	30	0
GB-30.0-1		1
GB-35.0-0	35	0
GB-35.0-1		1
GB-40.0-0	40	0
GB-40.0-1		1
GB-45.0-0	45	0
GB-45.0-1		1
GB-50.0-0	50	0
GB-50.0-1		1
GB-55.0-0	55	0
GB-55.0-1		1
GB-60.0-0	60	0
GB-60.0-1		1
GB-65.0-0	65	0
GB-65.0-1		1
GB-70.0-0	70	0
GB-70.0-1		1
GB-75.0-0	75	0
GB-75.0-1		1
GB-80.0-0	80	0
GB-80.0-1		1
GB-85.0-0	85	0
GB-80.0-1		1

Model No.	Spec. (mm)	Grade
GB-90.0-0	90	0
GB-90.0-1		1
GB-95.0-0	95	0
GB-95.0-1		1
GB-100.0-0	100	0
GB-100.0-1		1
GB-125.0-0	125	0
GB-125.0-1		1
GB-150.0-0	150	0
GB-150.0-1		1
GB-175.0-0	175	0
GB-175.0-1		1
GB-200.0-0	200	0
GB-200.0-1		1
GB-250.0-0	250	0
GB-250.0-1		1
GB-300.0-0	300	0
GB-300.0-1		1
GB-400.0-0	400	0
GB-400.0-1		1
GB-500.0-0	500	0
GB-500.0-1		1
GB-600.0-0	600	0
GB-600.0-1		1
GB-700.0-0	700	0
GB-700.0-1		1
GB-800.0-0	800	0
GB-800.0-1		1
GB-900.0-0	900	0
GB-900.0-1		1
GB-1000.0-0	1000	0
GB-1000.0-1		1

Accuracy: according to
DIN 861/ISO 3560 standard

Gauge Blocks (Set)

Material: Tungsten carbide,
Hardness: HV1300-1600



Model No.	Spec. (mm)	Step (mm)	Quantity	Model No.	Spec. (mm)	Step (mm)	Quantity	
GB-T9122-0 Grade: 0	1.0005	0.0005	1	GB-T9047-0 Grade: 0	1.005	0.005	1	
	1.001-1.009	0.001	9		1.01-1.09	0.01	9	
	1.01-1.49	0.01	49	GB-T9047-1 Grade: 1	1.1-1.9	0.1	9	
	1.6-1.9	0.1	4		1-24	1	24	
GB-T9122-1 Grade: 1	0.5-24.5	0.5	49	GB-T9038-0 Grade: 0	25-100	25	4	
	30-100	10	8		1.005	0.005	1	
	25,75	-	2	1.01-1.09	0.01	9		
GB-T9112-0 Grade: 0	1.0005	0.0005	1	GB-T9038-1 Grade: 1	1.1-1.9	0.1	9	
	1.001-1.009	0.001	9		1-9	1	9	
	1.01-1.49	0.01	49	10-100	10	10		
GB-T9112-1 Grade: 1	0.5-24.5	0.5	49	GB-T9010-0 Grade: 0	1.0-1.5	0.25	3	
	25-100	25	4		2.0-3.0	1	2	
GB-T9103-0 Grade: 0	1.005	0.005	1	GB-T9010-1 Grade: 1	5.0-25.0	5	5	
	1.01-1.49	0.01	49		GB-T9009-0 Grade: 0	1.001-1.009	0.001	9
GB-T9103-1 Grade: 1	0.5-24.5	0.5	49	GB-T9009-1 Grade: 1				
	25-100	25	4					
GB-T9087-0 Grade: 0	1.001-1.009	0.001	9	*Accuracy: according to DIN 861/ISO 3650 standard *Full set with the calibration report of JCC (ISO 17025)				
	1.01-1.49	0.01	49					
GB-9087-1 Grade: 1	0.5-9.5	0.5	19					
	10-100	10	10					

Micro Height Gauge

MICRO plus I&II



Machine base



Mechanical probe



Traveling lock



Interface port



Rechargeable battery



Air bearing



Hardened aluminum column



Servomotor



Clutch



Workpiece stopper



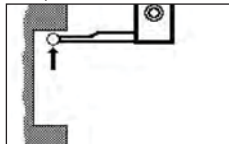
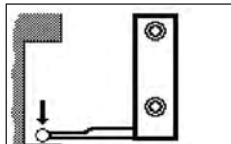
Linear bearing slider



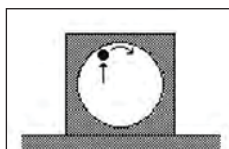
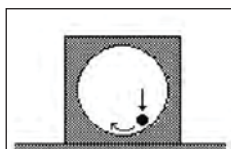
Magnetic sensor

Basic Measurements

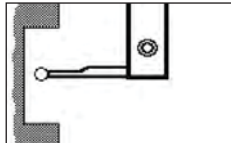
1. Surface measurement (Height, Depth, Thickness, Distance, Flatness, Parallelism)



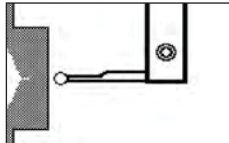
3. Bore measurement (Diameter, Concentricity)



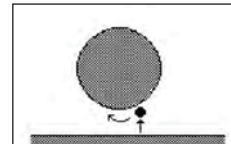
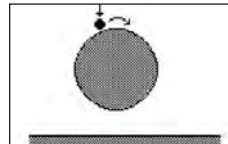
6. Groove width & Center measurement



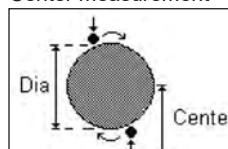
7. Ledge width & Center measurement



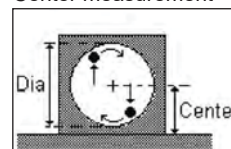
2. Shaft measurement (Diameter, Concentricity)



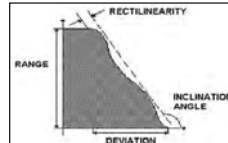
4. Shaft diameter & Center measurement



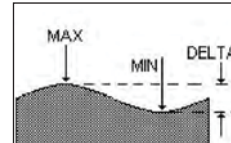
5. Bore diameter & Center measurement



8. Squareness (perpendicularity) measurement

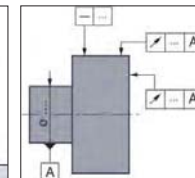
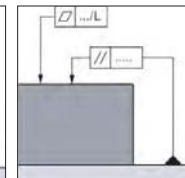
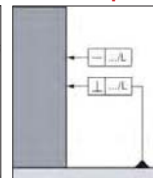
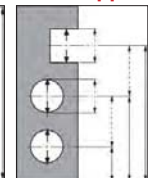
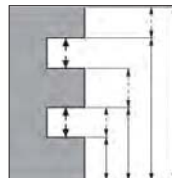
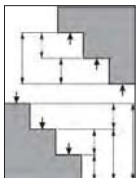


9. Min., Max., DELTA measurement



10. Offset Function (Expendable measuring range)

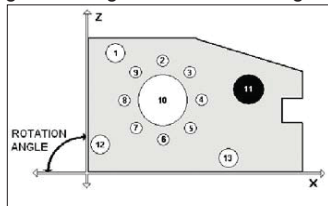
Application examples



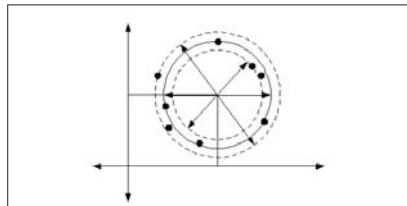
Model	MHG-E450I(II)	MHG-E600I(II)	MHG-E1000I(II)
Measuring range	450 mm	600 mm	1000 mm
Expendable range	765 mm	915 mm	1315 mm
Resolution	0.0005 mm / 0.00002 in.		
Measuring accuracy	1D : 3+L/400um (2D : 2+L/400um) L=length in mm		
Repeatability (2σ)	plane : 0.0015 mm bore : 0.003 mm		
Squareness	1D : 6um (2D : 4um)	1D : 9um (2D : 6um)	1D : 13um (2D : 8um)
MAX. counting speed	600mm/sec		
Measuring force	1 N ± 0.2N		
Battery charging time	1D : 8 hours 2D : 4 hours		
Battery operation life	1D : 16 hours 2D : 8 hours		
AC Adapter Specification	Input 100 – 240 VAC , 50/60 Hz Output 24 VDC , 2.5A		
Weight of instrument	23kg	25kg	30kg

2D Dimension Measurement

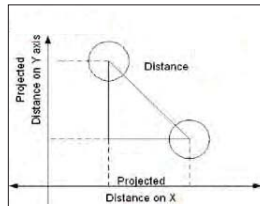
1. 2D measuring of bore, shaft, groove, ledge, line, distance, angle.



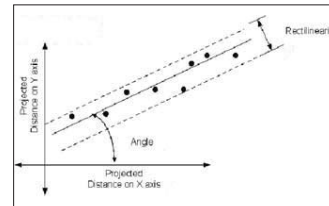
2. PCD (pitch circle diameter) function DMIN, DMAX, PCD of the XY center coordinates



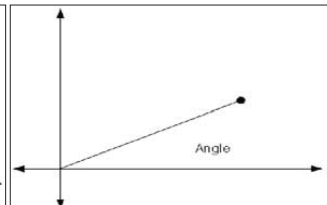
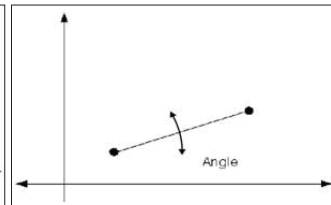
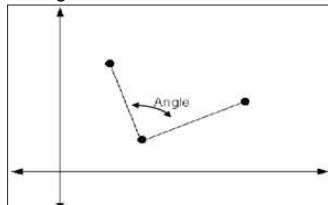
3. Distance function



4. Line function



5. Angle function



Other functions and settings

- Programming & Replay
- Tolerance mode
- Report Generation using PC utility
- Printer settings and operation
- Statistical Analysis of the results

Electronic Dial & Gauge Calibrator

Indicator calibration, Measuring gauge calibration, Length measurement



- For calibrating varies types of dial indicators, bore gauges, pin gauges, plug gauge, thread plug gauges, inside micrometers, standard bar, and measuring concentric, thickness, length of parts.
- Hardened tool steel, heat treated, precision grinding, and surface coating rust resistant.
- Easy to operate, by simply moving concentric slide to set distance and to lock position, then proceed to measuring or calibration.
- Full set includes wooden case, operational manual, quality warranty, and JCC calibration report comply with ISO 9001 measuring traceability & ISO/IEC 17025 accreditation.

Model No.	Direct Calibration	Comparison Calibration	Resolution	Accuracy (mm)	Combination Sets
D&G-9001	0-25mm/0-1"	200mm	0.001mm/0.00005"	0.003	BS1+CS1+EM1+TJ+UC
D&G-9001	0-25mm/0-1"	200mm		0.002	BS2+CS2+EM1+TJ+UC
D&G-9001	0-50mm/0-2"	300mm		0.004	BS3+CS3+EM2+TJ+UC
D&G-9001	0-25mm/0-1"	200mm	0.0001mm/0.000005"	0.001	BS4+CS4+EM1H+TJ+UC

*Accuracy: Max Permissible Error



Germany invention patent Taiwan invention patent

Standard Accessories

Calibrator standard Base



Model No.	Max.measuring Length	Materials
D&G-BS1	200mm	Hardened Chromed Steel
D&G-BS2	200mm	Hardened Tool Steel
D&G-BS3	300mm	Hardened Chromed Steel
D&G-BS4	200mm	Hardened Tool Steel

Concentric slide



Model No.	Center Height	Concentricity	Materials
D&G-CS1	85mm 2pcs/pair	2μm	Hardened Chromed Steel
D&G-CS2		1μm	Hardened Tool Steel
D&G-CS3		2μm	Hardened Chromed Steel
D&G-CS4		1μm	Hardened Tool Steel

Digital micrometer head



Model No.	Specification
D&G-EM1	0-25mm/0.001mm/0.00005"
D&G-EM2	0-50mm/0.001mm/0.00005"
D&G-EM1H	0-25mm/0.0001mm/0.000005"

*Tungsten carbide measuring anvil

Universal clamp



Model No.	Specification
D&G-UC	Length: 133mm Dia.Φ8mm

*Steel

Two-way measuring jaws



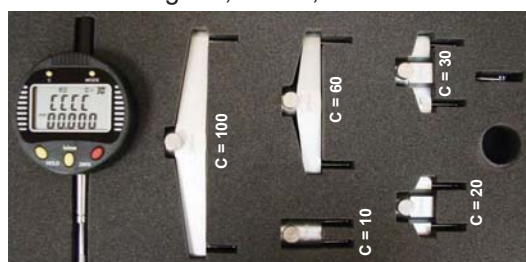
Model No.	Specification
D&G-TJ	Dia.Φ6.5 / Φ8mm (2 Step)

*Hardened tool steel



Arc Radius Measuring Gauge

For measuring arc, radius, diameter of inner & outer circular workpiece.



Outer ARC	The best measuring range	Inner ARC	The best measuring range
C = 10	R = 5-15mm	C = 10	R = 6.5-15mm
C = 20	R = 11-26mm	C = 20	R = 14-30mm
C = 30	R = 22-100mm	C = 30	R = 27-100mm
C = 60	R = 94-260mm	C = 60	R = 94-260mm
C = 100	R = 255-700mm	C = 100	R = 255-700mm

* C : center distance R : radius of arc

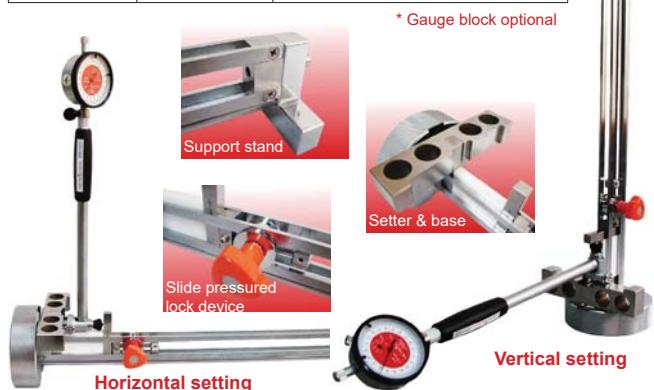
Digital indicator Measuring range: 0-13mm, Resolution: 0.01mm.

Radius Measuring range : 5-9999.9mm.

Bore Gauge Checkmaster

For dimension set zero & calibration of bore gauge.

Model No.	Set Range	Uncertainty of measurement
BGC-9200	0-200mm	MAX : 0.002mm
BGC-9300	0-300mm	
BGC-9600	0-600mm	



Universal Length Measuring Instrument

ABBE Principle - Foundation of modern precision measurement



Measuring software functions

- English interface
- External comparison measurement
- Double yoke internal measurement
- Internal thread gauge measurement
- Preset value
- Internal accuracy compensation
- Report settings
- Temperature compensation
- External absolute measurement
- Magic eye internal measurement
- External thread gauge measurement
- Data input
- External accuracy compensation
- Color settings
- Section correction

Measuring range

External direct measuring range	0-100mm
External comparison measuring range	0-700mm
Internal direct measuring range	1-60mm
Internal comparison measuring range	10-450mm
External thread measuring range	till 200mm
Internal thread measuring range	M13 - M90
Expandable	M6 - M200 (optional)

Work table

Vertical distance	0-100mm/1mm
Horizontal distance	0-25mm/ 0.01mm
Left-right swivel angle	±4°
Up-down tilt angle	±3°
Resolution	0.0001mm/0.00001"
Measuring accuracy	±(0.5+L/200)μm
Uncertainty of measurement	(0.2+L/200)μm
Measuring force	0, 1.5, 2.5N
The best temperature of measurement	20°C ± 1°C
Power	220V±10%
Instrument weight	100KG
Instrument dimension	000x380x450mm

METROLOGY

Squareness Checkmaster



Taiwan patent



EU 28 countries international patented

Model No.	Measuring Range	Max.error
SCM-G300	300mm	0.003mm
SCM-G600	600mm	0.004mm
SCM-G900	900mm	0.005mm

*Custom specifications available as per client's request



Measuring software functions



Standard gauge block absolute calibration



Long gauge block comparison calibration (vertical)



Long gauge block comparison calibration (horizontal)



Large size ring gauge calibration with magic eyes device



Small size ring gauge calibration with inner double yoke



Medium size ring gauge calibration with inner double yokes



Standard bar calibration



External snap gauge calibration



Internal setting gauge calibration



3 wire External thread gauge measurement with center carrier



3 wire External thread gauge measurement with V-type holder



Concentric bar External measurement with center carrier



Dial gauge calibration



Digital dial gauge calibration



Level-type indicator calibration



Setting inner thread with set gauge



Inner thread gauge measurement with double yokes



Inner thread gauge measurement



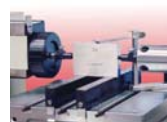
Plug gauge calibration with V-shaped carrier



Cylinder gauge calibration



External micrometer calibration



Gauge block calibration with spherical measuring anvil



Small size ring gauge calibration with magic eye device



Setting zero for inner thread set gauge