

MEASURING GAUGE

-  **CMS METROLOGY**
CONTROL MEASUREMENT SYSTEMS Measuring gauges come with new innovative design in structural quality, functionality, and accuracy, a total upgrade to satisfy your upmost demand.
- Measuring accuracy is according to Germany DIN, ISO, Japan JIS international standards. All final calibration is done by  **CMS METROLOGY**
CONTROL MEASUREMENT SYSTEMS with ISO 9001 certified and ISO 17025 accredited. Calibration report included.



Steel parts



Machining



Ultra-high Heat treated



Grinding and lapping



JCC inspection

DIN 861/ISO 3650

Gauge Blocks

Nominal length range mm		Permissible tolerances and variances (μm)											
Over	Up to (including)	Grades 00 and K			Grade 0			Grade 1			Grade 2		
		Tolerance on nominal length at all points		Permissible length variation	Tolerance on nominal length at all points		Permissible length variation	Tolerance on nominal length at all points		Permissible variation in length	Tolerance on nominal length at all points		Permissible length variation
		00	K	Max. deviation from flatness	00	K	Max. deviation from flatness	00	K	Max. deviation from flatness	00	K	Max. deviation from flatness
-	10	±0.06	±0.20	0.05	±0.12	0.10	0.10	±0.20	0.16	0.15	±0.45	0.30	0.25
10	25	±0.07	±0.30	0.05	±0.14	0.10	0.10	±0.30	0.16	0.15	±0.60	0.30	0.25
25	50	±0.10	±0.40	0.06	±0.20	0.10	0.10	±0.40	0.18	0.15	±0.80	0.30	0.25
50	75	±0.12	±0.50	0.06	±0.25	0.12	0.10	±0.50	0.18	0.15	±1.00	0.35	0.25
75	100	±0.14	±0.60	0.07	±0.30	0.12	0.10	±0.60	0.20	0.15	±1.20	0.35	0.25
100	150	—	±0.80	0.08	±0.40	0.14	0.10	±0.80	0.20	0.15	±1.60	0.40	0.25
150	200	—	±1.00	0.09	±0.50	0.16	0.15	±1.00	0.25	0.18	±2.00	0.40	0.25
200	250	—	±1.20	0.10	±0.60	0.16	0.15	±1.20	0.25	0.18	±2.40	0.45	0.25
250	300	—	±1.40	0.10	±0.70	0.18	0.15	±1.40	0.25	0.18	±2.80	0.50	0.25
300	400	—	±1.80	0.12	±0.90	0.20	0.15	±1.80	0.30	0.18	±3.60	0.50	0.25
400	500	—	±2.20	0.14	±1.10	0.25	0.15	±2.20	0.35	0.18	±4.40	0.60	0.25
500	600	—	±2.60	0.16	±1.30	0.25	0.18	±2.60	0.40	0.20	±5.00	0.70	0.25
600	700	—	±3.00	0.18	±1.50	0.30	0.18	±3.00	0.45	0.20	±6.00	0.70	0.25
700	800	—	±3.40	0.20	±1.70	0.30	0.18	±3.40	0.50	0.20	±6.50	0.80	0.25
800	900	—	±3.80	0.20	±1.90	0.35	0.18	±3.80	0.50	0.20	±7.50	0.90	0.25
900	1000	—	±4.20	0.25	±2.00	0.40	0.18	±4.20	0.60	0.20	±8.00	1.00	0.25

ASME B89.1.9-2002

MAXIMUM PERMITTED DEVIATIONS OF THE LENGTH AT ANY POINT AND TOLERANCE ON VARIATION IN LENGTH FOR INCH GAUGE BLOCKS

Nominal Length Range l_n in inches	Calibration Grade K		Grade 00		Grade 0		Grade AS-1		Grade AS-2	
	Limit Deviations of Length at any Point From Nominal Length $\pm t_p$ μin.	Tolerance for the Variation in Length t_v μin.	Limit Deviations of Length at any Point From Nominal Length $\pm t_p$ μin.	Tolerance for the Variation in Length t_v μin.	Limit Deviations of Length at any Point From Nominal Length $\pm t_p$ μin.	Tolerance for the Variation in Length t_v μin.	Limit Deviations of Length at any Point From Nominal Length $\pm t_p$ μin.	Tolerance for the Variation in Length t_v μin.	Limit Deviations of Length at any Point From Nominal Length $\pm t_p$ μin.	Tolerance for the Variation in Length t_v μin.
$l_n \leq 0.05$	12	2	4	2	6	4	12	6	24	12
$0.05 < l_n \leq 0.4$	10	2	3	2	5	4	8	6	18	12
$0.45 < l_n \leq 1$	12	2	3	2	6	4	12	6	24	12
$1 < l_n \leq 2$	16	2	4	2	8	4	16	6	32	12
$2 < l_n \leq 3$	20	2	5	3	10	4	20	6	40	14
$3 < l_n \leq 4$	24	3	6	3	12	5	24	8	48	14
$4 < l_n \leq 5$	32	3	8	3	16	5	32	8	64	16
$5 < l_n \leq 6$	32	3	8	3	16	5	32	8	64	16
$6 < l_n \leq 7$	40	4	10	4	20	6	40	10	80	16
$7 < l_n \leq 8$	40	4	10	4	20	6	40	10	80	16
$8 < l_n \leq 10$	48	4	12	4	24	6	48	10	104	18
$10 < l_n \leq 12$	56	4	14	4	28	7	56	10	112	20
$12 < l_n \leq 16$	72	5	18	5	36	8	72	12	144	20
$16 < l_n \leq 20$	88	6	20	6	44	10	88	14	176	24
$20 < l_n \leq 24$	104	6	25	6	52	10	104	16	200	28
$24 < l_n \leq 28$	120	7	30	7	60	12	120	18	240	28
$28 < l_n \leq 32$	136	8	34	8	68	12	136	20	260	32
$32 < l_n \leq 36$	152	8	38	8	76	14	152	20	300	36
$36 < l_n \leq 40$	160	10	40	10	80	16	168	24	320	40

■ Gauge Blocks (Sets)

Material : Hardened steel Hardness : HV650~800



Model No.	Spec.(mm)	Step(mm)	Quantity
GB-9122-0	1.0005	0.0005	1
Grade : 0	1.001-1.009	0.001	9
	1.01-1.49	0.01	49
	1.6-1.9	0.1	4
GB-9122-1	0.5-24.5	0.5	49
Grade : 1	30-100	10	8
	25,75	-	2
GB-9112-0	1.0005	0.0005	1
Grade : 0	1.001-1.009	0.001	9
	1.01-1.49	0.01	49
	0.5-24.5	0.5	49
GB-9112-1	25-100	25	4
Grade : 1	25-100	25	4
	25-100	25	4
GB-9103-0	1.005	0.005	1
Grade : 0	1.01-1.49	0.01	49
	0.5-24.5	0.5	49
GB-9103-1	25-100	25	4
Grade : 1	25-100	25	4
	25-100	25	4
GB-9087-0	1.001-1.009	0.001	9
Grade : 0	1.01-1.49	0.01	49
	0.5-9.5	0.5	19
GB-9087-1	10-100	10	10
Grade : 1	10-100	10	10
	10-100	10	10

*Accuracy: according to DIN 861/ISO 3650 standard

*Full set with the calibration report of JCC (ISO 17025)

Model No.	Spec.(mm)	Step(mm)	Quantity
GB-9047-0	1.005	0.005	1
Grade : 0	1.01-1.09	0.01	9
	1.1-1.9	0.1	9
	1-24	1	24
GB-9047-1	25-100	25	4
Grade : 1	25-100	25	4
	25-100	25	4
GB-9038-0	1.005	0.005	1
Grade : 0	1.01-1.09	0.01	9
	1.1-1.9	0.1	9
	1-9	1	9
GB-9038-1	10-100	10	10
Grade : 1	10-100	10	10
	10-100	10	10
GB-9020-0			
Grade : 0	5-100	5	20
	5-100	5	20
GB-9020-1			
Grade : 1	5-100	5	20
	5-100	5	20
GB-9010-0	1.0-1.5	0.25	3
Grade : 0	2.0-3.0	1	2
	5.0-25.0	5	5
GB-9010-1			
Grade : 1	5.0-25.0	5	5
	5.0-25.0	5	5
GB-9009-0			
Grade : 0	1.001-1.009	0.001	9
	1.001-1.009	0.001	9
GB-9009-1			
Grade : 1	1.001-1.009	0.001	9
	1.001-1.009	0.001	9

■ Gauge Block (Specially for outside micrometer)

For calibrating parallel and dimension accuracy of outside micrometer measuring face.

Material: Hardened steel

Model No.	Specification (mm)	Step (mm)	Quantity
GB-9012-0 Grade : 0	2.5, 5.1, 7.7, 10.3, 12.9	2.6	5
GB-9012-1 Grade : 1	15, 17.6, 20.2, 22.8	2.6	4
	25, 50, 75	25	3

GB-9012-0



Material: ceramic

Model No.	Specification (mm)	Step (mm)	Quantity
GB-C9012-0 Grade : 0	2.5, 5.1, 7.7, 10.3, 12.9	2.6	5
GB-C9012-1 Grade : 1	15, 17.6, 20.2, 22.8	2.6	4
	25, 50, 75	25	3

Accuracy: according to DIN 861/ ISO 3650 standard Full set with JCC calibration report

■ Gauge Block (Long)

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

GB-9008M



Model No.	Specification (mm)	Step (mm)	Quantity
GB-908S-0 Grade : 0	25, 50	25	8
GB-908S-1 Grade : 1	75, 100		
	125, 150		
GB-908M-0 Grade : 0	125, 150	25	8
GB-908M-1 Grade : 1	175, 200	25	
	250, 300	50	
	400, 500	100	

Model No.	Spec.(mm)	Step (mm)	Quantity
GB-905L-0 Grade : 0	600, 700	100	5
GB-905L-1 Grade : 1	800, 900		
	1000		

*Accuracy: according to DIN 861/ISO 3650 standard

*Full set with the calibration report of JCC (ISO 17025)

*Material: Hardened steel Hardness: HV650~800.

■ Gauge Block (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

Model No.	Spec.(mm)	Grade
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-1.01-0	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	1.05	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-1.1-0	1.1	0
GB-1.1-1		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

Model No.	Spec.(mm)	Grade
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-1.2-0	1.2	0
GB-1.2-1		1
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-1.3-0	1.3	0
GB-1.3-1		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



■ Gauge Block (Individual)

Material : Hardened steel Hardness : HV650~800

Model No.	Spec.(mm)	Grade
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-1.4-0	1.4	0
GB-1.4-1		1
GB-1.41-0	1.41	0
GB-1.41-1		1
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

Model No.	Spec.(mm)	Grade
GB-1.5-0	1.5	0
GB-1.5-1		1
GB-1.6-0	1.6	0
GB-1.6-1		1
GB-1.7-0	1.7	0
GB-1.7-1		1
GB-1.8-0	1.8	0
GB-1.8-1		1
GB-1.9-0	1.9	0
GB-1.9-1		1
GB-2.0-0	2.0	0
GB-2.0-1		1
GB-2.5-0	2.5	0
GB-2.5-1		1
GB-3.0-0	3.0	0
GB-3.0-1		1
GB-3.5-0	3.5	0
GB-3.5-1		1
GB-4.0-0	4.0	0
GB-4.0-1		1
GB-4.5-0	4.5	0
GB-4.5-1		1
GB-5.0-0	5.0	0
GB-5.0-1		1
GB-5.5-0	5.5	0
GB-5.5-1		1
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

Model No.	Spec.(mm)	Grade
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
GB-14.5-0	14.5	0
GB-14.5-1		1
GB-15.0-0	15.0	0
GB-15.0-1		1

■ Gauge Block (Individual)

Material : Hardened steel Hardness : HV650~800



Model No.	Spec.(mm)	Grade
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
GB-23.0-0	23.0	0
GB-23.0-1		1
GB-23.5-0	23.5	0
GB-23.5-1		1

Model No.	Spec.(mm)	Grade
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-85.0-1		1
GB-90.0-0	90	0
GB-90.0-1		1
GB-95.0-0	95	0
GB-95.0-1		1

Model No.	Spec.(mm)	Grade
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 3650 standard**

■ Gauge Block (Sets)

Material: Tungsten carbide Hardness HV1300-1600



Model No.	Spec.(mm)	Step (mm)	Quantity
GB-T9122-0	1.0005	0.0005	1
Grade : 0	1.001-1.009	0.001	9
	1.01-1.49	0.01	49
	1.6-1.9	0.1	4
GB-T9122-1	0.5-24.5	0.5	49
Grade : 1	30-100	10	8
	25,75	-	2
GB-T9112-0	1.0005	0.0005	1
Grade : 0	1.001-1.009	0.001	9
	1.01-1.49	0.01	49
	0.5-24.5	0.5	49
GB-T9112-1	25-100	25	4
Grade : 1	1.005	0.005	1
	1.01-1.49	0.01	49
	0.5-24.5	0.5	49
GB-T9103-0	1.005	0.005	1
Grade : 0	1.01-1.49	0.01	49
	0.5-24.5	0.5	49
	25-100	25	4
GB-T9103-1	1.005	0.005	1
Grade : 0	1.01-1.49	0.01	49
	0.5-24.5	0.5	49
	25-100	25	4
GB-T9087-0	1.001-1.009	0.001	9
Grade : 0	1.01-1.49	0.01	49
	0.5-9.5	0.5	19
	10-100	10	10
GB-T9087-1	1.001-1.009	0.001	9
Grade : 0	1.01-1.49	0.01	49
	0.5-9.5	0.5	19
	10-100	10	10

Model No.	Spec.(mm)	Step (mm)	Quantity
GB-T9047-0	1.005	0.005	1
Grade : 0	1.01-1.09	0.01	9
	1.1-1.9	0.1	9
	1-24	1	24
GB-T9047-1	25-100	25	4
Grade : 1	1.005	0.005	1
	1.01-1.09	0.01	9
	1.1-1.9	0.1	9
GB-T9038-0	1.005	0.005	1
Grade : 0	1.01-1.09	0.01	9
	1.1-1.9	0.1	9
	1-9	1	9
GB-T9038-1	10-100	10	10
Grade : 1	1.0-1.5	0.25	3
	2.0-3.0	1	2
	5.0-25.0	5	5
GB-T9010-0	1.0-1.5	0.25	3
Grade : 0	2.0-3.0	1	2
	5.0-25.0	5	5
GB-T9010-1	1.0-1.5	0.25	3
Grade : 0	2.0-3.0	1	2
	5.0-25.0	5	5
GB-T9009-0	1.001-1.009	0.001	9
Grade : 0	1.01-1.09	0.01	9
	1.1-1.9	0.1	9
	1-24	1	24
GB-T9009-1	25-100	25	4
Grade : 1	1.005	0.005	1
	1.01-1.09	0.01	9
	1.1-1.9	0.1	9

*Accuracy: according to DIN 861/ISO 3650 standard

*Full set with the calibration report of JCC (ISO 17025)

■ Gauge Block (Individual)

Material: Tungsten carbide Hardness HV1300-1600



Model No.	Spec.(mm)	Grade
GB-T0.5-0	0.5	0
GB-T0.5-1		1
GB-T1.0-0	1.0	0
GB-T1.0-1		1
GB-T1.0005-0	1.0005	0
GB-T1.0005-1		1
GB-T1.001-0	1.001	0
GB-T1.001-1		1
GB-T1.002-0	1.002	0
GB-T1.002-1		1
GB-T1.003-0	1.003	0
GB-T1.003-1		1
GB-T1.004-0	1.004	0
GB-T1.004-1		1
GB-T1.005-0	1.005	0
GB-T1.005-1		1
GB-T1.006-0	1.006	0
GB-T1.006-1		1
GB-T1.007-0	1.007	0
GB-T1.007-1		1
GB-T1.008-0	1.008	0
GB-T1.008-1		1
GB-T1.009-0	1.009	0
GB-T1.009-1		1
GB-T1.01-0	1.01	0
GB-T1.01-1		1
GB-T1.02-0	1.02	0
GB-T1.02-1		1
GB-T1.03-0	1.03	0
GB-T1.03-1		1
GB-T1.04-0	1.04	0
GB-T1.04-1		1
GB-T1.05-0	1.05	0
GB-T1.05-1		1

Model No.	Spec.(mm)	Grade
GB-T1.06-0	1.06	0
GB-T1.06-1		1
GB-T1.07-0	1.07	0
GB-T1.07-1		1
GB-T1.08-0	1.08	0
GB-T1.08-1		1
GB-T1.09-0	1.09	0
GB-T1.09-1		1
GB-T1.1-0	1.1	0
GB-T1.1-1		1
GB-T1.11-0	1.11	0
GB-T1.11-1		1
GB-T1.12-0	1.12	0
GB-T1.12-1		1
GB-T1.13-0	1.13	0
GB-T1.13-1		1
GB-T1.14-0	1.14	0
GB-T1.14-1		1
GB-T1.15-0	1.15	0
GB-T1.15-1		1
GB-T1.16-0	1.16	0
GB-T1.16-1		1
GB-T1.17-0	1.17	0
GB-T1.17-1		1
GB-T1.18-0	1.18	0
GB-T1.18-1		1
GB-T1.19-0	1.19	0
GB-T1.19-1		1
GB-T1.2-0	1.2	0
GB-T1.2-1		1
GB-T1.21-0	1.21	0
GB-T1.21-1		1
GB-T1.22-0	1.22	0
GB-T1.22-1		1

Model No.	Spec.(mm)	Grade
GB-T1.23-0	1.23	0
GB-T1.23-1		1
GB-T1.24-0	1.24	0
GB-T1.24-1		1
GB-T1.25-0	1.25	0
GB-T1.25-1		1
GB-T1.26-0	1.26	0
GB-T1.26-1		1
GB-T1.27-0	1.27	0
GB-T1.27-1		1
GB-T1.28-0	1.28	0
GB-T1.28-1		1
GB-T1.29-0	1.29	0
GB-T1.29-1		1
GB-T1.30-0	1.30	0
GB-T1.30-1		1
GB-T1.31-0	1.31	0
GB-T1.31-1		1
GB-T1.32-0	1.32	0
GB-T1.32-1		1
GB-T1.33-0	1.33	0
GB-T1.33-1		1
GB-T1.34-0	1.34	0
GB-T1.34-1		1
GB-T1.35-0	1.35	0
GB-T1.35-1		1
GB-T1.36-0	1.36	0
GB-T1.36-1		1
GB-T1.37-0	1.37	0
GB-T1.37-1		1
GB-T1.38-0	1.38	0
GB-T1.38-1		1
GB-T1.39-0	1.39	0
GB-T1.39-1		1



■ Gauge Block (Individual)

Material: Tungsten carbide Hardness HV1300-1600

Model No.	Spec.(mm)	Grade
GB-T1.4-0	1.4	0
GB-T1.4-1		1
GB-T1.41-0	1.41	0
GB-T1.41-1		1
GB-T1.42-0	1.42	0
GB-T1.42-1		1
GB-T1.43-0	1.43	0
GB-T1.43-1		1
GB-T1.44-0	1.44	0
GB-T1.44-1		1
GB-T1.45-0	1.45	0
GB-T1.45-1		1
GB-T1.46-0	1.46	0
GB-T1.46-1		1
GB-T1.47-0	1.47	0
GB-T1.47-1		1
GB-T1.48-0	1.48	0
GB-T1.48-1		1
GB-T1.49-0	1.49	0
GB-T1.49-1		1
GB-T1.5-0	1.5	0
GB-T1.5-1		1
GB-T1.6-0	1.6	0
GB-T1.6-1		1
GB-T1.7-0	1.7	0
GB-T1.7-1		1
GB-T1.8-0	1.8	0
GB-T1.8-1		1
GB-T1.9-0	1.9	0
GB-T1.9-1		1
GB-T2.0-0	2.0	0
GB-T2.0-1		1
GB-T2.5-0	2.5	0
GB-T2.5-1		1

Model No.	Spec.(mm)	Grade
GB-T3.0-0	3.0	0
GB-T3.0-1		1
GB-T3.5-0	3.5	0
GB-T3.5-1		1
GB-T4.0-0	4.0	0
GB-T4.0-1		1
GB-T4.5-0	4.5	0
GB-T4.5-1		1
GB-T5.0-0	5.0	0
GB-T5.0-1		1
GB-T5.5-0	5.5	0
GB-T5.5-1		1
GB-T6.0-0	6.0	0
GB-T6.0-1		1
GB-T6.5-0	6.5	0
GB-T6.5-1		1
GB-T7.0-0	7.0	0
GB-T7.0-1		1
GB-T7.5-0	7.5	0
GB-T7.5-1		1
GB-T8.0-0	8.0	0
GB-T8.0-1		1
GB-T8.5-0	8.5	0
GB-T8.5-1		1
GB-T9.0-0	9.0	0
GB-T9.0-1		1
GB-T9.5-0	9.5	0
GB-T9.5-1		1
GB-T10.0-0	10.0	0
GB-T10.0-1		1
GB-T10.5-0	10.5	0
GB-T10.5-1		1
GB-T11.0-0	11.0	0
GB-T11.0-1		1

Model No.	Spec.(mm)	Grade
GB-T11.5-0	11.5	0
GB-T11.5-1		1
GB-T12.0-0	12.0	0
GB-T12.0-1		1
GB-T12.5-0	12.5	0
GB-T12.5-1		1
GB-T13.0-0	13.0	0
GB-T13.0-1		1
GB-T13.5-0	13.5	0
GB-T13.5-1		1
GB-T14.0-0	14.0	0
GB-T14.0-1		1
GB-T14.5-0	14.5	0
GB-T14.5-1		1
GB-T15.0-0	15.0	0
GB-T15.0-1		1
GB-T15.5-0	15.5	0
GB-T15.5-1		1
GB-T16.0-0	16.0	0
GB-T16.0-1		1
GB-T16.5-0	16.5	0
GB-T16.5-1		1
GB-T17.0-0	17.0	0
GB-T17.0-1		1
GB-T17.5-0	17.5	0
GB-T17.5-1		1
GB-T18.0-0	18.0	0
GB-T18.0-1		1
GB-T18.5-0	18.5	0
GB-T18.5-1		1
GB-T19.0-0	19.0	0
GB-T19.0-1		1
GB-T19.5-0	19.5	0
GB-T19.5-1		1



■ Gauge Block (Individual)

Material: Tungsten carbide Hardness HV1300-1600

Model No.	Spec.(mm)	Grade
GB-T20.0-0	20	0
GB-T20.0-1		1
GB-T20.5-0	20.5	0
GB-T20.5-1		1
GB-T21.0-0	21	0
GB-T21.0-1		1
GB-T21.5-0	21.5	0
GB-T21.5-1		1
GB-T22.0-0	22	0
GB-T22.0-1		1
GB-T22.5-0	22.5	0
GB-T22.5-1		1
GB-T23.0-0	23	0
GB-T23.0-1		1
GB-T23.5-0	23.5	0
GB-T23.5-1		1
GB-T24.0-0	24	0
GB-T24.0-1		1
GB-T24.5-0	24.5	0
GB-T24.5-1		1

Model No.	Spec.(mm)	Grade
GB-T25.0-0	25	0
GB-T25.0-1		1
GB-T30.0-0	30	0
GB-T30.0-1		1
GB-T40.0-0	40	0
GB-T40.0-1		1
GB-T50.0-0	50	0
GB-T50.0-1		1
GB-T60.0-0	60	0
GB-T60.0-1		1
GB-T70.0-0	70	0
GB-T70.0-1		1
GB-T75.0-0	75	0
GB-T75.0-1		1
GB-T80.0-0	80	0
GB-T80.0-1		1
GB-T90.0-0	90	0
GB-T90.0-1		1
GB-T100.0-0	100	0
GB-T100.0-1		1

Accuracy: according to DIN 861/ ISO 3650 standard
 Each individual with JCC calibration report

■ Gauge Block (Sets)

Material: Ceramic

Hardness HV1100-1400



Model No.	Spec.(mm)	Step(mm)	Quantity
GB-C9122-0	1.0005	0.0005	1
Grade : 0	1.001-1.009	0.001	9
	1.01-1.49	0.01	49
	1.6-1.9	0.1	4
GB-C9122-1	0.5-24.5	0.5	49
	30-100	10	8
	25,75	-	2
GB-C9112-0	1.0005	0.0005	1
Grade : 0	1.001-1.009	0.001	9
	1.01-1.49	0.01	49
	1.6-1.9	0.1	4
GB-C9112-1	0.5-24.5	0.5	49
	25-100	25	4
GB-C9103-0	1.005	0.005	1
Grade : 0	1.01-1.49	0.01	49
	0.5-24.5	0.5	49
GB-C9103-1	25-100	25	4
Grade : 1			
GB-C9087-0	1.001-1.009	0.001	9
Grade : 0	1.01-1.49	0.01	49
	0.5-9.5	0.5	19
GB-C9087-1	10-100	10	10
Grade : 1			

Model No.	Spec.(mm)	Step(mm)	Quantity
GB-C9047-0	1.005	0.005	1
Grade : 0	1.01-1.09	0.01	9
	1.1-1.9	0.1	9
	1-24	1	24
GB-C9047-1	25-100	25	4
Grade : 1			
GB-C9038-0	1.005	0.005	1
Grade : 0	1.01-1.09	0.01	9
	1.1-1.9	0.1	9
	1-9	1	9
GB-C9038-1	10-100	10	10
Grade : 1			
GB-C9011-0	1.0	-	1
Grade : 0	1.0005	-	1
	1.001-1.009	0.001	9
GB-C9011-1			
Grade : 1			
GB-C9010-0	1.0-1.5	0.25	3
Grade : 0	2.0-3.0	1	2
	5.0-25.0	5	5
GB-C9010-1			
Grade : 1			

*Accuracy: according to DIN 861/ISO 3650 standard

*Full set with the calibration report of JCC (ISO 17025)

■ Gauge Block (Individual)

Material: Ceramic Hardness HV1100-1400



Model No.	Spec.(mm)	Grade
GB-C0.5-0	0.5	0
GB-C0.5-1		1
GB-C1.0-0	1.0	0
GB-C1.0-1		1
GB-C1.0005-0	1.0005	0
GB-C1.0005-1		1
GB-C1.001-0	1.001	0
GB-C1.001-1		1
GB-C1.002-0	1.002	0
GB-C1.002-1		1
GB-C1.003-0	1.003	0
GB-C1.003-1		1
GB-C1.004-0	1.004	0
GB-C1.004-1		1
GB-C1.005-0	1.005	0
GB-C1.005-1		1
GB-C1.006-0	1.006	0
GB-C1.006-1		1
GB-C1.007-0	1.007	0
GB-C1.007-1		1
GB-C1.008-0	1.008	0
GB-C1.008-1		1
GB-C1.009-0	1.009	0
GB-C1.009-1		1
GB-C1.01-0	1.01	0
GB-C1.01-1		1
GB-C1.02-0	1.02	0
GB-C1.02-1		1
GB-C1.03-0	1.03	0
GB-C1.03-1		1
GB-C1.04-0	1.04	0
GB-C1.04-1		1
GB-C1.05-0	1.05	0
GB-C1.05-1		1

Model No.	Spec.(mm)	Grade
GB-C1.06-0	1.06	0
GB-C1.06-1		1
GB-C1.07-0	1.07	0
GB-C1.07-1		1
GB-C1.08-0	1.08	0
GB-C1.08-1		1
GB-C1.09-0	1.09	0
GB-C1.09-1		1
GB-C1.1-0	1.1	0
GB-C1.1-1		1
GB-C1.11-0	1.11	0
GB-C1.11-1		1
GB-C1.12-0	1.12	0
GB-C1.12-1		1
GB-C1.13-0	1.13	0
GB-C1.13-1		1
GB-C1.14-0	1.14	0
GB-C1.14-1		1
GB-C1.15-0	1.15	0
GB-C1.15-1		1
GB-C1.16-0	1.16	0
GB-C1.16-1		1
GB-C1.17-0	1.17	0
GB-C1.17-1		1
GB-C1.18-0	1.18	0
GB-C1.18-1		1
GB-C1.19-0	1.19	0
GB-C1.19-1		1
GB-C1.2-0	1.2	0
GB-C1.2-1		1
GB-C1.21-0	1.21	0
GB-C1.21-1		1
GB-C1.22-0	1.22	0
GB-C1.22-1		1

Model No.	Spec.(mm)	Grade
GB- C1.23-0	1.23	0
GB- C1.23-1		1
GB- C1.24-0	1.24	0
GB- C1.24-1		1
GB- C1.25-0	1.25	0
GB- C1.25-1		1
GB- C1.26-0	1.26	0
GB- C1.26-1		1
GB- C1.27-0	1.27	0
GB-C1.27-1		1
GB- C1.28-0	1.28	0
GB- C1.28-1		1
GB- C1.29-0	1.29	0
GB- C1.29-1		1
GB- C1.30-0	1.30	0
GB- C1.30-1		1
GB- C1.31-0	1.31	0
GB- C1.31-1		1
GB- C1.32-0	1.32	0
GB- C1.32-1		1
GB- C1.33-0	1.33	0
GB- C1.33-1		1
GB- C1.34-0	1.34	0
GB- C1.34-1		1
GB- C1.35-0	1.35	0
GB-C1.35-1		1
GB-C1.36-0	1.36	0
GB-C1.36-1		1
GB-C1.37-0	1.37	0
GB-C1.37-1		1
GB-C1.38-0	1.38	0
GB-C1.38-1		1
GB-C1.39-0	1.39	0
GB-C1.39-1		1

■ Gauge Block (Individual)

Material: Ceramic Hardness HV1100-1400



Model No.	Spec.(mm)	Grade
GB-C1.4-0	1.4	0
GB-C1.4-1		1
GB-C1.41-0	1.41	0
GB-C1.41-1		1
GB-C1.42-0	1.42	0
GB-C1.42-1		1
GB-C1.43-0	1.43	0
GB-C1.43-1		1
GB-C1.44-0	1.44	0
GB-C1.44-1		1
GB-C1.45-0	1.45	0
GB-C1.45-1		1
GB-C1.46-0	1.46	0
GB-C1.46-1		1
GB-C1.47-0	1.47	0
GB-C1.47-1		1
GB-C1.48-0	1.48	0
GB-C1.48-1		1
GB-C1.49-0	1.49	0
GB-C1.49-1		1
GB-C1.5-0	1.5	0
GB-C1.5-1		1
GB-C1.6-0	1.6	0
GB-C1.6-1		1
GB-C1.7-0	1.7	0
GB-C1.7-1		1
GB-C1.8-0	1.8	0
GB-C1.8-1		1
GB-C1.9-0	1.9	0
GB-C1.9-1		1
GB-C2.0-0	2.0	0
GB-C2.0-1		1
GB-C2.5-0	2.5	0
GB-C2.5-1		1

Model No.	Spec.(mm)	Grade
GB-C3.0-0	3.0	0
GB-C3.0-1		1
GB-C3.5-0	3.5	0
GB-C3.5-1		1
GB-C4.0-0	4.0	0
GB-C4.0-1		1
GB-C4.5-0	4.5	0
GB-C4.5-1		1
GB-C5.0-0	5.0	0
GB-C5.0-1		1
GB-C5.5-0	5.5	0
GB-C5.5-1		1
GB-C6.0-0	6.0	0
GB-C6.0-1		1
GB-C6.5-0	6.5	0
GB-C6.5-1		1
GB-C7.0-0	7.0	0
GB-C7.0-1		1
GB-C7.5-0	7.5	0
GB-C7.5-1		1
GB-C8.0-0	8.0	0
GB-C8.0-1		1
GB-C8.5-0	8.5	0
GB-C8.5-1		1
GB-C9.0-0	9.0	0
GB-C9.0-1		1
GB-C9.5-0	9.5	0
GB-C9.5-1		1
GB-C10.0-0	10.0	0
GB-C10.0-1		1
GB-C10.5-0	10.5	0
GB-C10.5-1		1
GB-C11.0-0	11.0	0
GB-C11.0-1		1

Model No.	Spec.(mm)	Grade
GB-C11.5-0	11.5	0
GB-C11.5-1		1
GB-C12.0-0	12.0	0
GB-C12.0-1		1
GB-C12.5-0	12.5	0
GB-C12.5-1		1
GB-C13.0-0	13.0	0
GB-C13.0-1		1
GB-C13.5-0	13.5	0
GB-C13.5-1		1
GB-C14.0-0	14.0	0
GB-C14.0-1		1
GB-C14.5-0	14.5	0
GB-C14.5-1		1
GB-C15.0-0	15.0	0
GB-C15.0-1		1
GB-C15.5-0	15.5	0
GB-C15.5-1		1
GB-C16.0-0	16.0	0
GB-C16.0-1		1
GB-C16.5-0	16.5	0
GB-C16.5-1		1
GB-C17.0-0	17.0	0
GB-C17.0-1		1
GB-C17.5-0	17.5	0
GB-C17.5-1		1
GB-C18.0-0	18.0	0
GB-C18.0-1		1
GB-C18.5-0	18.5	0
GB-C18.5-1		1
GB-C19.0-0	19.0	0
GB-C19.0-1		1
GB-C19.5-0	19.5	0
GB-C19.5-1		1



■ Gauge Block (Individual)

Material: Ceramic Hardness HV1100-1400

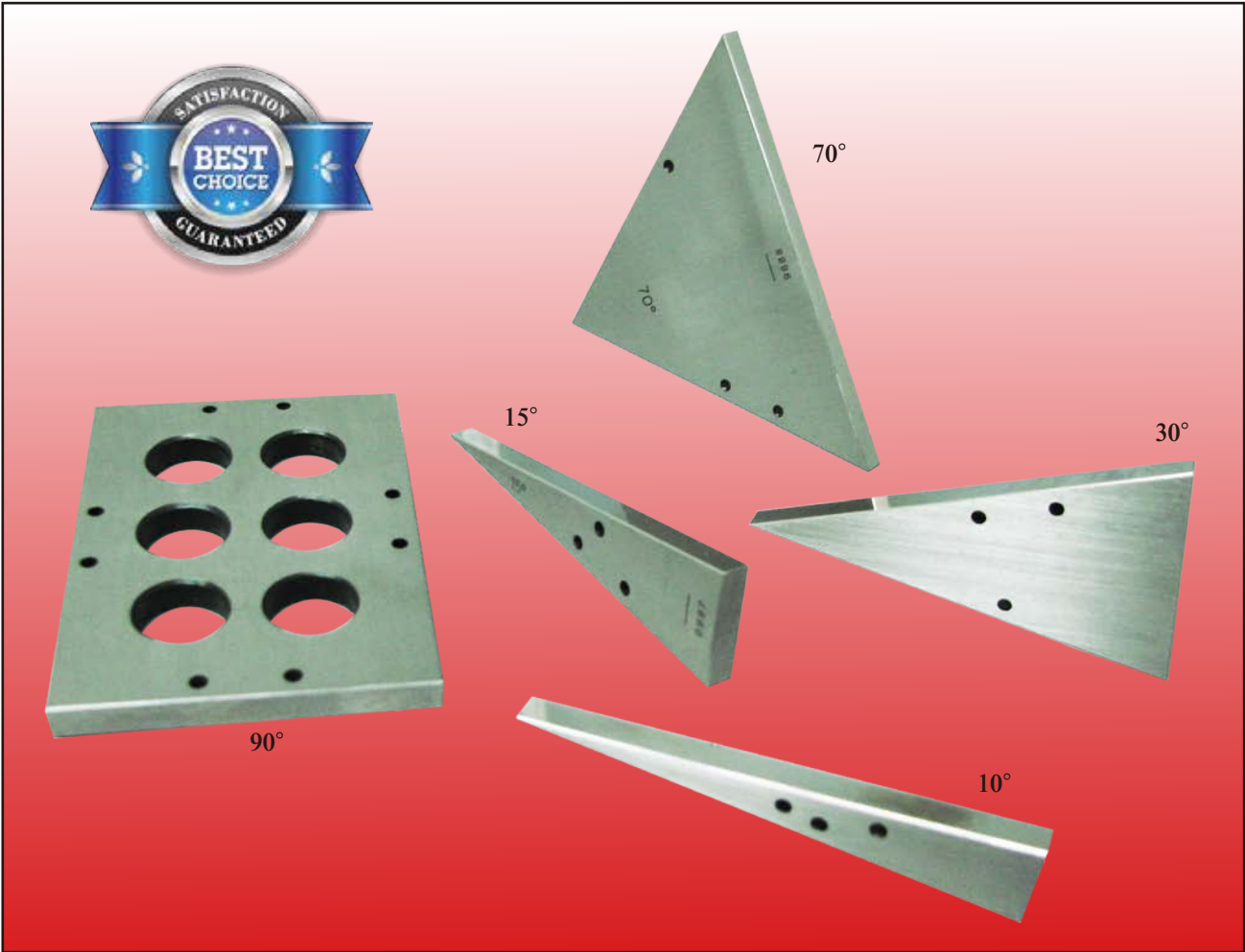
Model No.	Spec.(mm)	Grade
GB-C20.0-0	20	0
GB-C20.0-1		1
GB-C20.5-0	20.5	0
GB-C20.5-1		1
GB-C21.0-0	21	0
GB-C21.0-1		1
GB-C21.5-0	21.5	0
GB-C21.5-1		1
GB-C22.0-0	22	0
GB-C22.0-1		1
GB-C22.5-0	22.5	0
GB-C22.5-1		1
GB-C23.0-0	23	0
GB-C23.0-1		1
GB-C23.5-0	23.5	0
GB-C23.5-1		1
GB-C24.0-0	24	0
GB-C24.0-1		1
GB-C24.5-0	24.5	0
GB-C24.5-1		1
GB-C25.0-0	25	0
GB-C25.0-1		1
GB-C30.0-0	30	0
GB-C30.0-1		1

Model No.	Spec.(mm)	Grade
GB-C40.0-0	40	0
GB-C40.0-1		1
GB-C41.3-0	41.3	0
GB-C41.3-1		1
GB-C50.0-0	50	0
GB-C50.0-1		1
GB-C60.0-0	60	0
GB-C60.0-1		1
GB-C70.0-0	70	0
GB-C70.0-1		1
GB-C75.0-0	75	0
GB-C75.0-1		1
GB-C80.0-0	80	0
GB-C80.0-1		1
GB-C90.0-0	90	0
GB-C90.0-1		1
GB-C100.0-0	100	0
GB-C100.0-1		1
GB-C125.0-0	125	0
GB-C125.0-1		1
GB-C131.4-0	131.4	0
GB-C131.4-1		1
GB-C150.0-0	150	0
GB-C150.0-1		1

Accuracy: according to DIN 861/ ISO 3650 standard
 Each individual with JCC calibration report

■ Angle Block

For angle standard, checking angle of parts, calibrating universal bevel protractors and all other measuring gages.



Model No.	Specification.(mm)	Step(mm)	Quantity
AB-9036	15° 1' ; 15° 2'.....15° 9'	1'	9
	15° 10' ; 15° 20'...15° 50'	10'	5
	10° 11°20°	1°	11
	30° ;40°70°	10°	5
	10° 0' 30"		1
	45°		1
	80° -80° -100° -99°		1
	89° 10' - 89° 20' - 90° 50' - 90° 40'		1
	89° 30' - 89° 40' - 90° 30' - 90° 20'		1
	90° - 90° - 90° - 90°		1
Accuracy : ±10" Material : Hardened Steel Hardness : HRC 58~62			
AB-9012	0.25° , 0.5° , 1° , 2°		12
	3° , 4° , 5° , 10°		
	15° , 20° , 25° , 30°		
Accuracy : ±20" Material : Hardened Steel Hardness : HRC 58~62			



AB-9036

■ Digital Outside Snap Gauge

For measuring thickness of paper, film, wire, metal sheet, jewel, leather, and etc.



Model No.	Measuring Range	Resolution	Accuracy
ES-9001	0-12mm / 0.5"	0.01mm/0.0005"	±0.02mm
ES-9002	0-25mm / 1"		±0.03mm

Resolution : 0.01mm / 0.0005"

■ Digital Single Wide Face Gauge

For measuring thickness of paper, film, wire, metal sheet, jewel, leather, cutting tools, machining parts and etc.

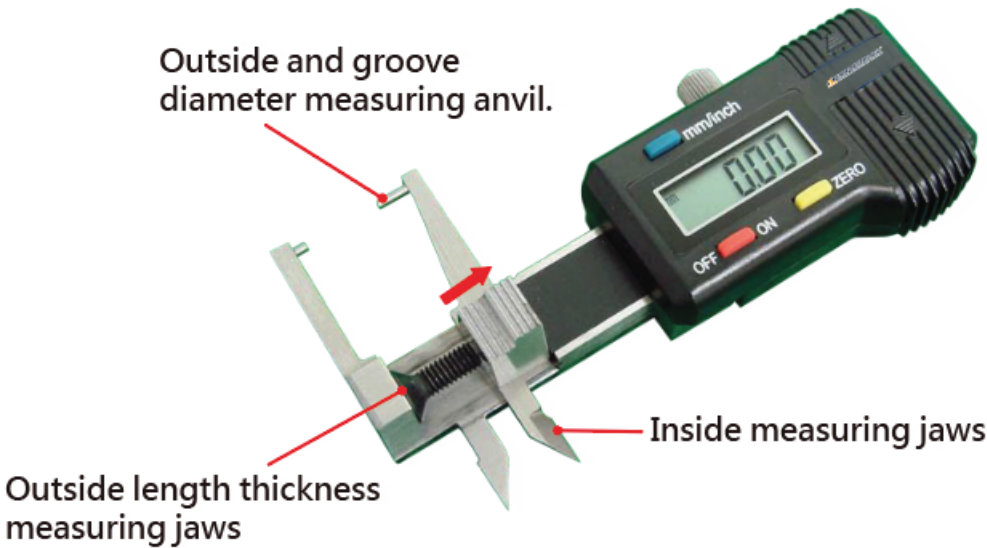


Model No.	Measuring Range	Resolution	Accuracy	Remark
ES-9000SW	0-30mm / 1.2"	0.01mm/0.0005	±0.03mm	Wide measuring face Width:12mm

Resolution : 0.01mm / 0.0005"

■ Digital 3-way Gauge

For measuring outside, inside diameter and outside groove diameter on small objects.



Model No.	Measuring Range	Resolution	Accuracy
ES-9000TU	0-25mm / 1"	0.01mm/0.0005	±0.03mm

Resolution : 0.01mm / 0.0005"

■ Digital Welding Gauge

For measuring thickness and height of welding points.



Model No.	Measuring Range	Resolution	Accuracy
ES-9000WD	0-12.5mm / 0.5"	0.01mm/0.0005	±0.02mm

Resolution : 0.01mm / 0.0005"

■ Digital Depth Gauge

For measuring depth of tire treads and thickness, depth, steps of varies parts.

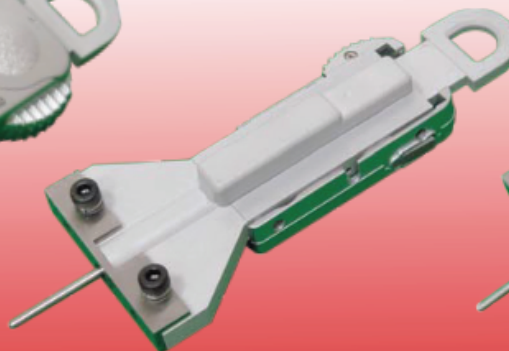


Model No.	Measuring Range	Accuracy	Remark
ES-9000DP	0-25mm / 1"	±0.03mm	Plastic base Length: 53mm
ES-9000DS			Steel base Length: 53mm
ES-EB150	L: 150mm		Steel extension base (For DS type)

Resolution: 0.01mm/0.0005"



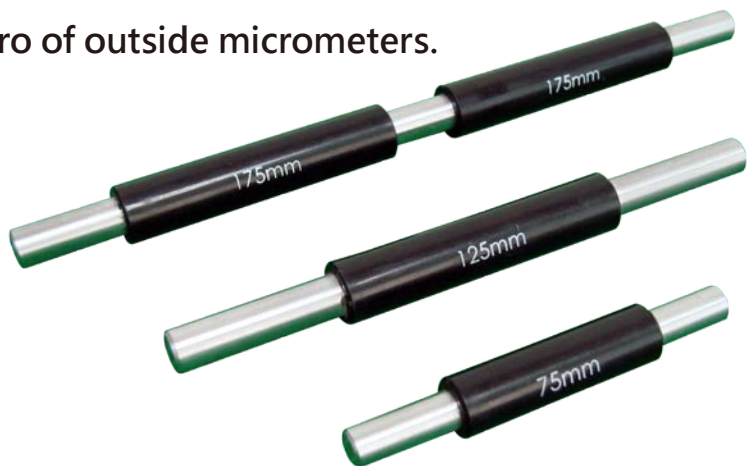
ES-9000DS



ES-EB150

■ **Micrometer Standard Bar**

For setting zero of outside micrometers.



Model No.	Length(mm)	Accuracy(um)	Model No.	Length(mm)	Accuracy(um)
SB-9025	25	±2.0	SB-9175	175	±3.5
SB-9050	50	±2.0	SB-9200	200	±3.5
SB-9075	75	±2.5	SB-9225	225	±4.0
SB-9100	100	±2.5	SB-9250	250	±4.0
SB-9125	125	±3.0	SB-9275	275	±4.5
SB-9150	150	±3.0	SB-9300	300	±4.5
Measuring Anvil Type : Flat					



Model No.	Length(mm)	Accuracy(um)	Model No.	Length(mm)	Accuracy(um)
SB-9325	325	±5.0	SB-9625	625	±10
SB-9350	350	±5.5	SB-9675	675	±11
SB-9375	375	±6.0	SB-9725	725	±12
SB-9400	400	±6.5	SB-9775	775	±13
SB-9425	425	±7.0	SB-9825	825	±14
SB-9450	450	±7.5	SB-9875	875	±15
SB-9475	475	±8.0	SB-9925	925	±17
SB-9500	500	±8.5	SB-9975	975	±19
SB-9525	525	±9.0	SB-91050	1050	±20
SB-9575	575	±9.5	SB-91150	1150	±22
Measuring Anvil Type : Spherical					

■ Pin gauge (Sets)



PG-9010N



PG-9040N

Material : Bearing steel hardness : HRC 58-62 Step : 0.01mm

Model No.	Measuring Range	pcs/set	Accuracy
PG-9001N	0.2-0.5mm	31	±0.003mm
PG-9002N	0.51-1.00mm	50	
PG-9003N	1.01-1.50mm		
PG-9004N	1.51-2.00mm		
PG-9005N	2.01-2.50mm		
PG-9006N	2.51-3.00mm		
PG-9007N	3.01-3.50mm		
PG-9008N	3.51-4.00mm		
PG-9009N	4.01-4.50mm		
PG-9010N	4.51-5.00mm		
PG-9011N	5.01-5.50mm		
PG-9012N	5.51-6.00mm		
PG-9013N	6.01-6.50mm		
PG-9014N	6.51-7.00mm		
PG-9015N	7.01-7.50mm		
PG-9016N	7.51-8.00mm		
PG-9017N	8.01-8.50mm		
PG-9018N	8.51-9.00mm		
PG-9019N	9.01-9.50mm		
PG-9020N	9.51-10.00mm		

Model No.	Measuring Range	pcs/set	Accuracy
PG-9021N	10.01-10.50mm	50	±0.004mm
PG-9022N	10.51-11.00mm		
PG-9023N	11.01-11.50mm		
PG-9024N	11.51-12.00mm		
PG-9025N	12.01-12.50mm		
PG-9026N	12.51-13.00mm		
PG-9027N	13.01-13.50mm		
PG-9028N	13.51-14.00mm		
PG-9029N	14.01-14.50mm		
PG-9030N	14.51-15.00mm		
PG-9031N	15.01-15.50mm		
PG-9032N	15.51-16.00mm		
PG-9033N	16.01-16.50mm		
PG-9034N	16.51-17.00mm		
PG-9035N	17.01-17.50mm		
PG-9036N	17.51-18.00mm		
PG-9037N	18.01-18.50mm		
PG-9038N	18.51-19.00mm		
PG-9039N	19.01-19.50mm		
PG-9040N	19.51-20.00mm		

*With plastic & wooden case (0.2~6.0mm)

*Custom sizes and accuracy requirements available

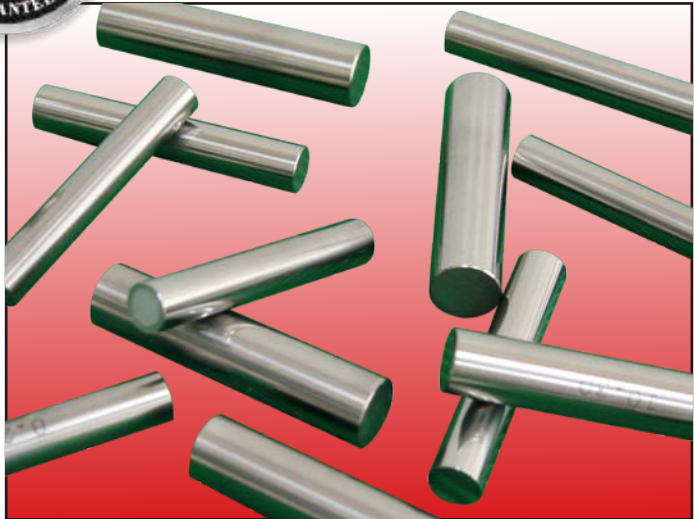
*With wooden case (Over 6.0mm)

*Calibration report (Charge)



■ Pin Gauge (Individual)

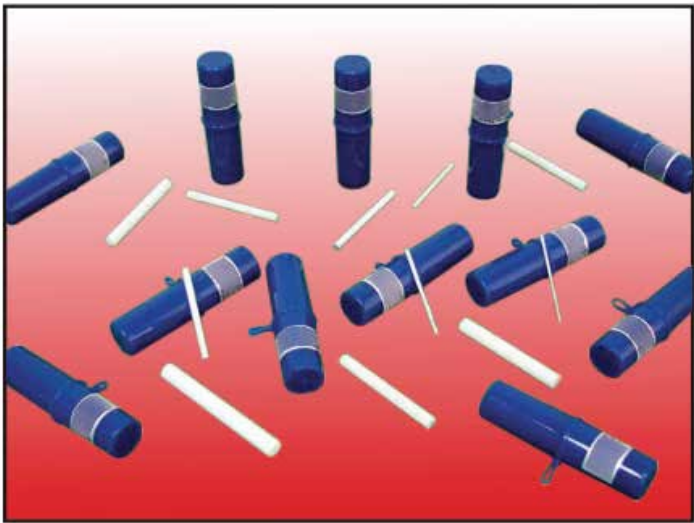
Range (mm)	Step (mm)	Accuracy
0.1-10	0.01	±0.003mm
10.01-13.00		±0.004mm
13.01-15.00		±0.004mm
15.01-20.00		±0.004mm



- * Material: Bearing steel
- Hardness: HRC 58-62 Length: 50mm
- * Each pin gauge with plastic case.
- * Requirement of specific size and accuracy provided by custom order

■ Ceramic Pin Gauge (Individual)

Range (mm)	Length(mm)	Step (mm)	Accuracy
φ 1.00~1.99mm	32	0.01	±0.001mm
φ 2.00~2.99mm	32		
φ 3.00~3.99mm	40		
φ 4.00~4.99mm	40		
φ 5.00~5.99mm	40		
φ 6.00~6.99mm	50		
φ 7.00~7.99mm	50		
φ 8.00~8.99mm	50		
φ 9.00~10.00mm	50		



*Individual come with plastic case packing. *Custom sizes and accuracy requirements available.

■ Go & No Go gauge

Order specs diagram

Material: Bearing steel, alloy steel, tool steel, tungsten carbide, requirements available.

Specifications: custom size, style, material, hardness, accuracy requirements available.



Order example

Size : 20mm Tolerance : $\begin{matrix} - 0.02 \\ + 0.02 \end{matrix}$ mm Accuracy : ±0.003mm Material : SKD11 Hardness : HRC60

■ Ring Gauge

For zero setting and accuracy inspections of calipers, inside micrometers, snap gauge, 3 point inside micrometers, bore gauges, and measuring equipment.



Accuracy : According to DIN 2250 standards

Material : Hardened steel Hardness HRC 58-62

**Roundness & Cylindricity : 0.001mm(2-50mm) 0.002mm(50-100mm)
0.003mm(100-200mm) 0.004mm(200-300mm)**

Model No.	Range(mm)	Tolerance(size)
RG-2~4	Φ2~4	±2um
RG-4~5	Φ4~5	±2um
RG-6~10	Φ6~10	±2um
RG-11~20	Φ11~20	±2um
RG-21~30	Φ20~30	±3um
RG-31~40	Φ31~40	±3um
RG-41~50	Φ41~50	±3um
RG-51~60	Φ51~60	±4um
RG-61~70	Φ61~70	±4um
RG-71~80	Φ71~80	±4um
RG-81~90	Φ81~90	±4um
RG-91~100	Φ91~100	±4um
RG-101~110	Φ101~110	±5um

Model No.	Range(mm)	Tolerance(size)
RG-111~120	Φ111~120	±5um
RG-121~130	Φ121~130	±5um
RG-131~140	Φ131~140	±5um
RG-141~150	Φ141~150	±5um
RG-151~160	Φ151~160	±6um
RG-161~170	Φ161~170	±6um
RG-171~180	Φ171~180	±6um
RG-181~190	Φ181~190	±6um
RG-191~200	Φ191~200	±6um
RG-201~225	Φ201~225	±7um
RG-226~250	Φ226~250	±7um
RG-251~275	Φ251~275	±7um
RG-276~300	Φ276~300	±7um

* Requirement of specific size, material, type and accuracy provided by custom order

* With the calibration report of JCC (ISO / IEC 17025)

■

Thread Plug & Ring Gauge



GO/NO GO Thread Plug Gauge

GO/NO GO Thread Ring Gauge

Model No.	Product	Specification	Order Example
ITP-M*P	ISO Metric Thread Plug Gauge	M2~M200	ITP-M10*1.0 6H
ITR-M*P	ISO Metric Thread Ring Gauge		ITR-M10*1.0 6g
JTP-M*P	JIS Metric Thread Plug Gauge		JTP-M10*1.0
JTR-M*P	JIS Metric Thread Ring Gauge		JTR-M10*1.0
TP-D*N	Unified Thread Plug Gauge	No.4~4"	UTP-½" *13UNC
TR-D*N	Unified Thread Ring Gauge		UTR-½" *20UNF
TTP-D*N	NPT Taper Thread Plug Gauge	⅛" ~8"	TTP-1" *11½NPT
TTR-D*N	NPT Taper Thread Ring Gauge		TTR-1" *11½NPT
TTPF-D*N	NPTF Taper Thread Plug Gauge	1⅛" ~4"	TTP-1" *11½NPTF
TTRF-D*N	NPTF Taper Thread Ring Gauge		TTR-1" *11½NPTF

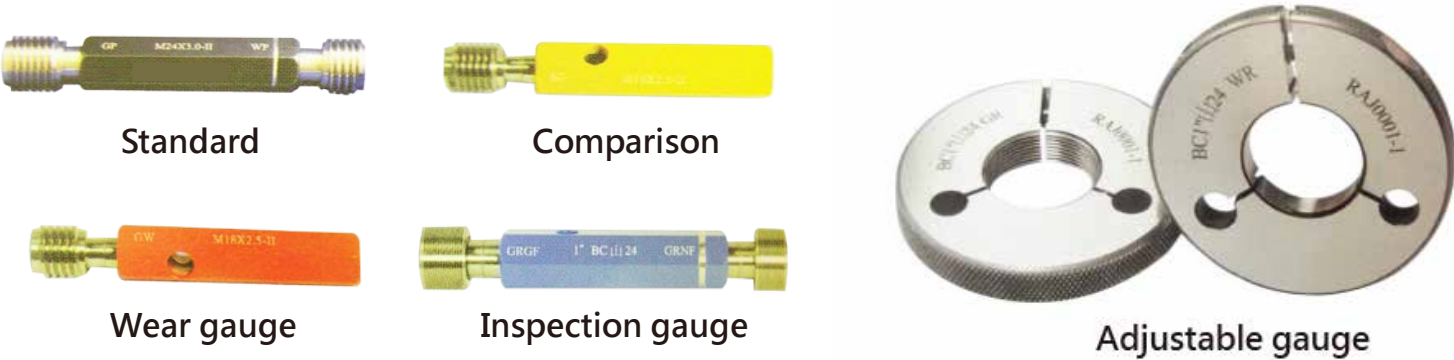
I.S Taper Thread Gauge (B.S.P.T)

B.S Cycle Thread Gauge

B.S.P/B.S.P.F Thread Gauge

BSW/BSF Thread Gauge

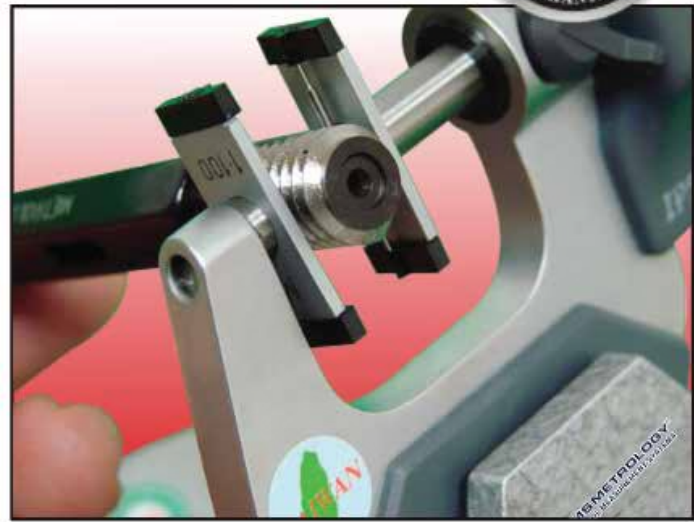
British Association Thread Gauge





■ 3-Wire Thread Gauge

For measuring pitch diameter of threads, and tap.



Model No.	Wire Dia.(mm)	Metric (pitch)	Whitworth (TPI)	US Std.(TPI)
TW-0.170	0.170	0.25/0.30		
TW-0.195	0.195			80
TW-0.220	0.220	0.35		72
TW-0.250	0.250	0.40	60	64
TW-0.290	0.290	0.45/0.5		56
TW-0.335	0.335	0.60	48/40	48/44
TW-0.390	0.390			40
TW-0.455	0.455	0.70/0.75/0.80		36/32
TW-0.530	0.530	0.90	32/28	28
TW-0.620	0.620	1.0	26/24	24
TW-0.725	0.725	1.25	22/20/19	20
TW-0.895	0.895	1.50	18/16	18/16
TW-1.100	1.100	1.75	14	14/13
TW-1.350	1.350	2.0	12/11	12/11
TW-1.650	1.650	2.50	10/9	10/9
TW-2.050	2.050	3.0/3.50	8/7	8/7
TW-2.550	2.550	4.0/4.50	6	6
TW-3.200	3.200	5.0/5.50/6.0	5/4½	5/4½
TW-9018S	Range: 0.170-3.200mm 18 pair / set Clamp Hole Φ6.5mm or Φ6.35mm			

Remark: Efficient dia. (pitch dia.) Formula: $E = M + 0.866025p - 3dm$ Dia.(MPE):0.001mm



■ Thread Pitch Diameter Comparator

For comparing pitch diameter of threads, and tap.



Model No.	Measuring Range	Accuracy	Remark
PD-9001	2-30mm	0.005mm	With 60° V-type anvil
PD-9002	30-70mm	0.005mm	55° Whitworth anvil (Option)

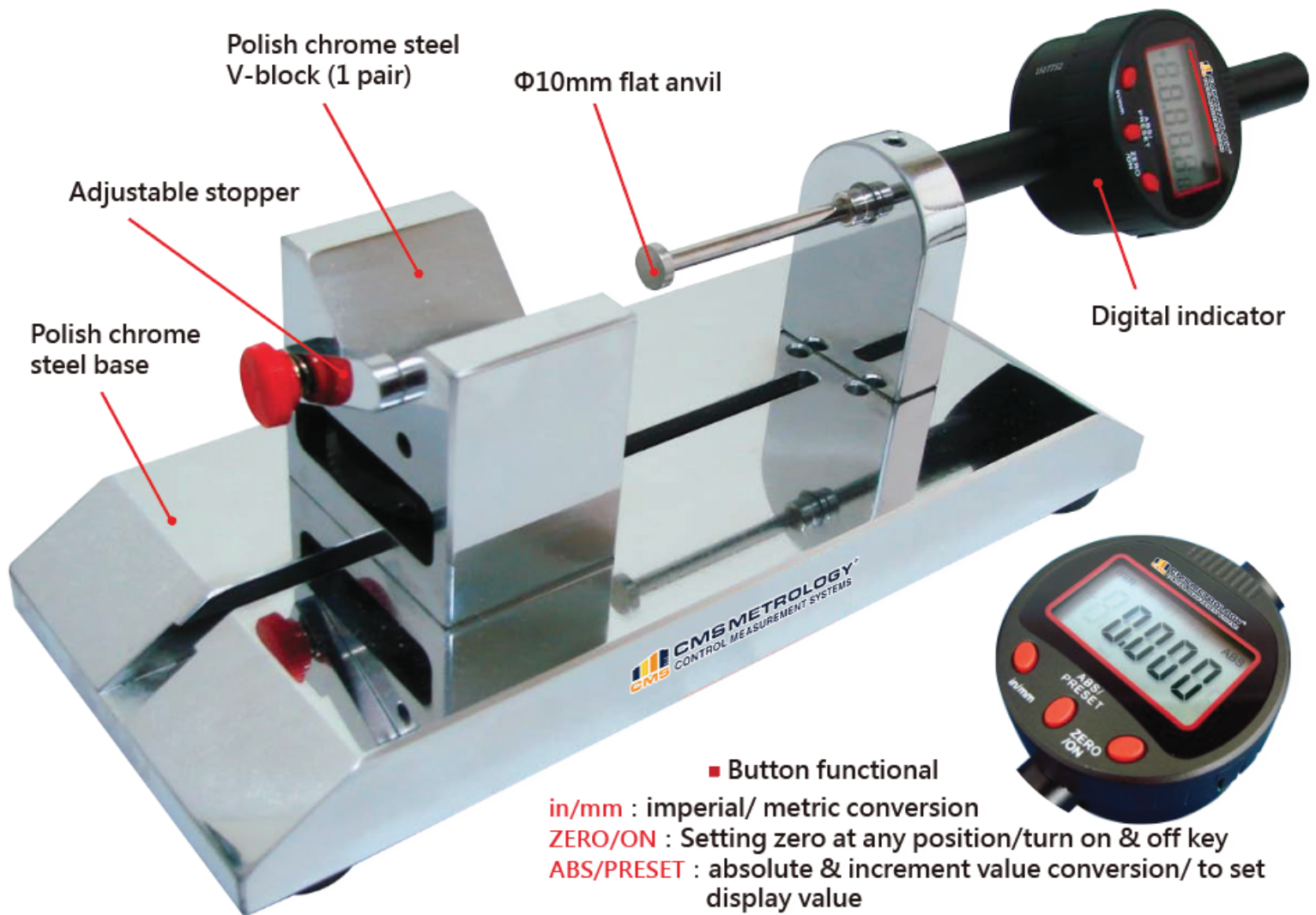
*Dial indicator and setting gauge purchased by option.

■ Thread Length Measuring Gauge



Model No.	Measuring Range	Accuracy	Remark
TL-9000	0-150mm	0.04mm	With 0-50mm digital dial gauge & 50mm setting gauge, datum base.

Resolution : 0.01mm/0.0005"



Screw head thickness measuring



Setting gauge



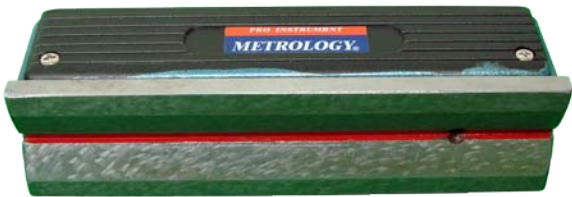
Thread length measuring

■ Spirit Level (Horizontal)

For checking and leveling flat or cylindrical surfaces of X-Y axis direction of any machines.



LE-9150H



V-type base precision scraping machining.

Model No.	Measuring Range	Accuracy
LE-9150H	L:150mm	±0.004mm
LE-9200H	L:200mm	±0.004mm
LE-9300H	L:300mm	±0.004mm

*Sensitivity: 0.02mm/M

■ Spirit Level (Square)

For checking and leveling flat or cylindrical surfaces in both horizontal and vertical positions of any machines.



LE-9150S



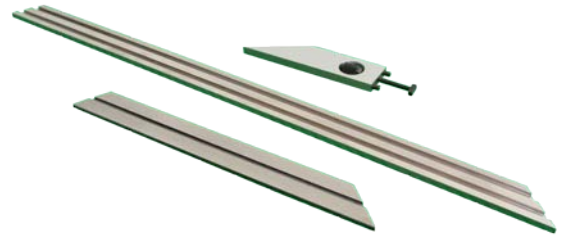
V-type base precision scraping machining.

Model No.	Measuring Range	Accuracy
LE-9150S	L:150*150mm	±0.004mm
LE-9200S	L*200*200mm	±0.004mm
LE-9300S	L*300*300mm	±0.004mm

*Sensitivity: 0.02mm/M

■ Universal Bevel Protractor

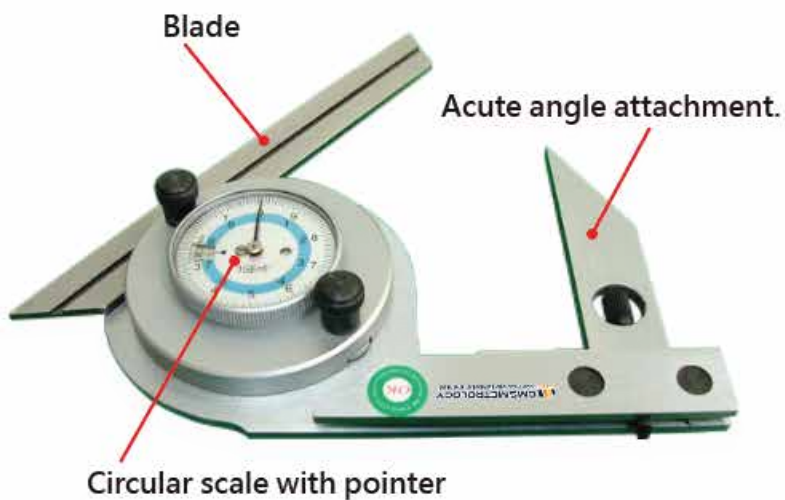
Sets include stainless steel body, 6" and 12" length blade and acute angle attachment.



Vernier type

Model No.	Measuring Range	Accuracy
UA-9000	0~360°	±5'

*Graduation: 5'



Dial type

Model No.	Measuring Range	Accuracy
UA-9000D	4*90°	±5'

*Graduation: 5'



Digital type

Model No.	Measuring Range	Accuracy
UA-9000E	0~360°	±4'

*Resolution: 1' / 0.01°

Angle Finder



AF-A1

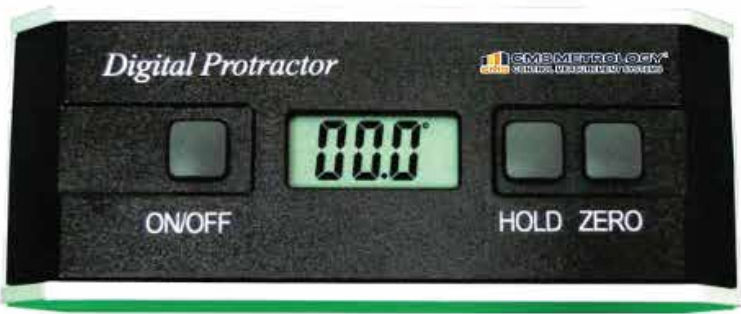


AF-A2

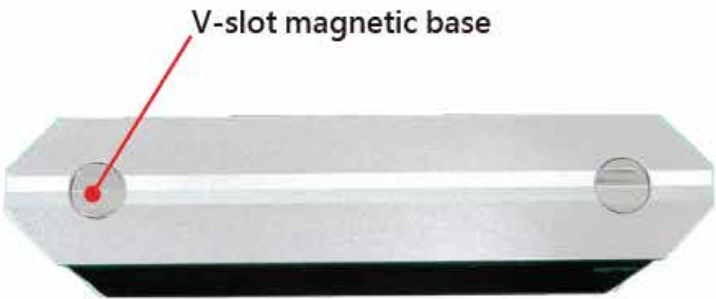
Model No.	Measuring Range	Resolution	Accuracy	Remark
AF-A1	0-180°	0.1°	±0.2°	With aluminum measuring bar
AF-A2	0-360°	0.05°		With magnetic base & spirit level

Digital Protractor

Purpose: For angle measuring of machine assembly, machining, structural engineering, and QC inspections.



PT-A1



PT-A2

Model No.	Measuring Range	Resolution	Accuracy	Remark
PT-A1	0-180°	0.1°	±0.2°	Without magnet base, Length: 150mm
PT-A2				With magnet base, Length: 150mm

Button functional

ON/OFF: turn on/off key
HOLD: memory display value
ZERO: Setting zero at any position, with self-calibrating function

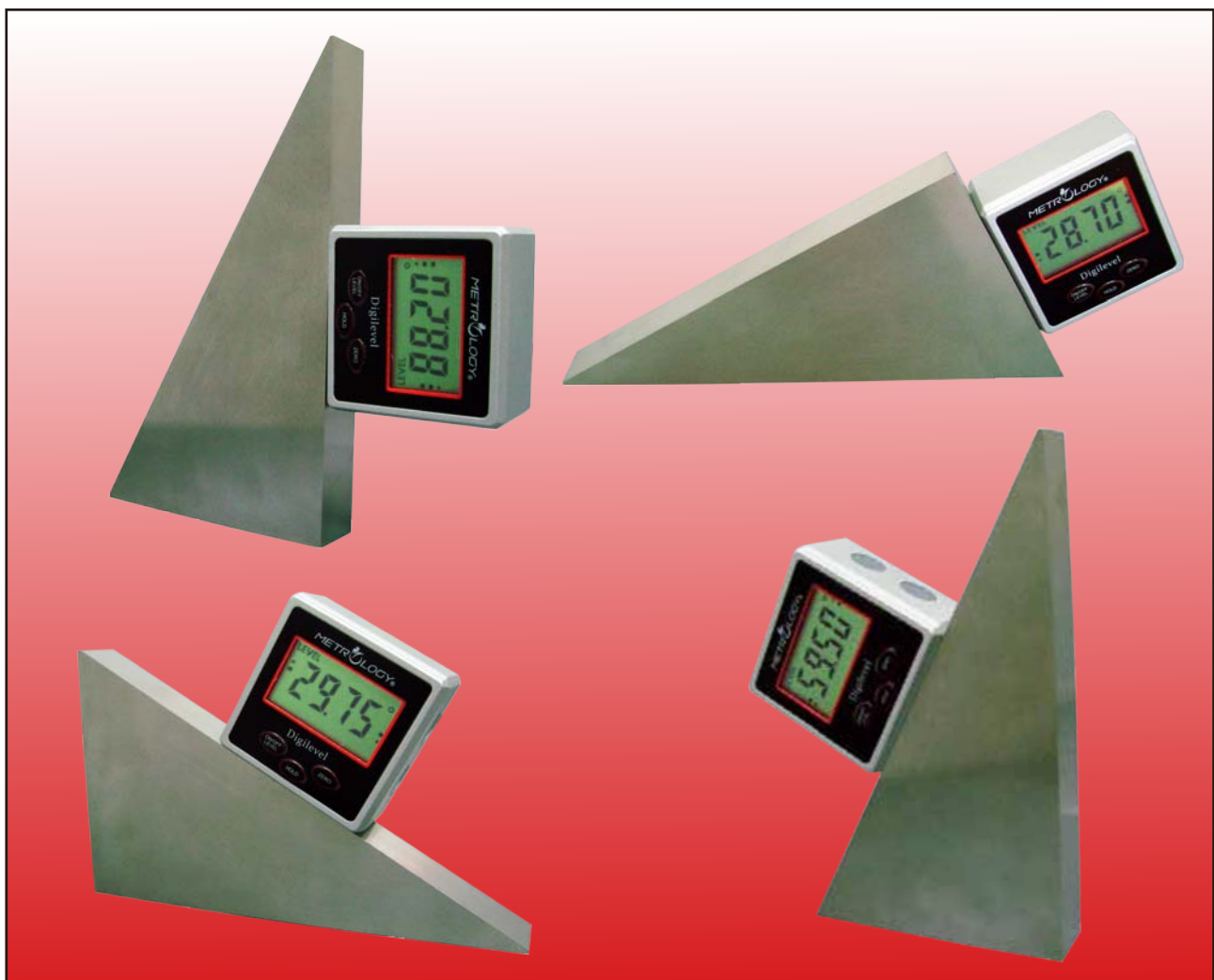


■ Bevel Box

- Can be used for measuring level and angles of machine assembly, measuring instrument, machine shops, and parts inspections.
- Can be set to zero at any angle, relative angles measurements of both faces.
- Can be use instantly as absolute level measurement after power on.
- Lightweight aluminum housing, includes magnetic face on 3 sides.
- **Button Function:**
ON/OFF: turn on/off key
Level: absolute level key
Zero: set zero
Hold: number lock

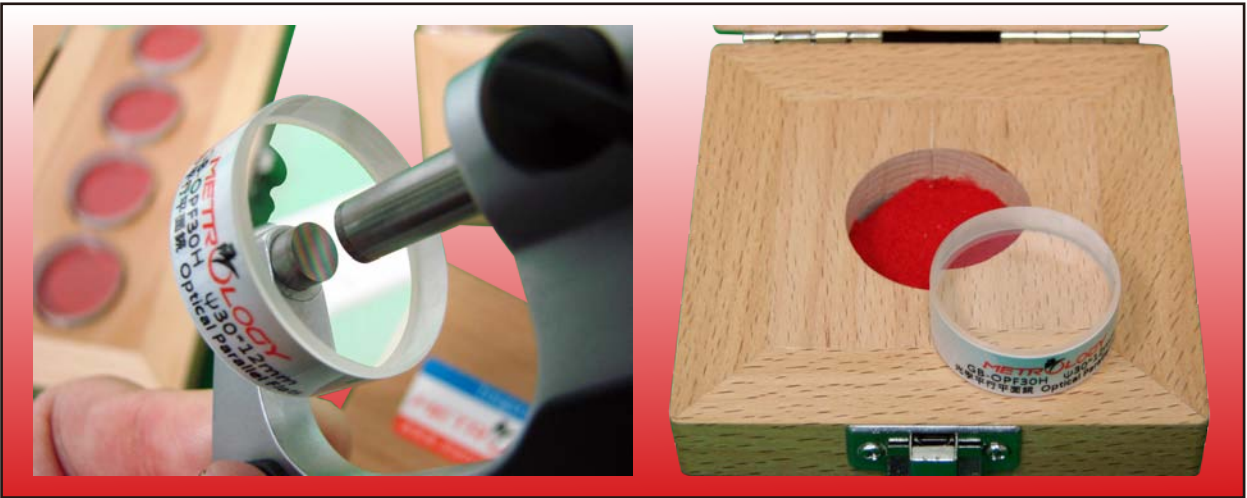


Model No.	Measuring Range	Resolution	Accuracy	Dimension
BB-digilevel	4X90°	0.05°	±0.2°	56*56*30mm



■ **Optical Parallel Flats**

For checking the parallelism & flatness of seals, mating and gages surface.



Model No.	Spec.(mm)	Accuracy	
GB-OPF30N	Φ30*12	Parallelism 0.4μm	Flatness 0.2μm
GB-OPF30H		Parallelism 0.2μm	Flatness 0.1μm

■ **Optical Flats**

For checking the flatness of seals, mating and gages surface.



Model No.	Spec.(mm)	Accuracy
GB-OF45S	Φ45*15 Single Face	Flatness 0.1μm
GB-OF45D	Φ45*15 Double Face	
GB-OF50S	Φ50*20 Single Face	Flatness 0.03μm
GB-OF50D	Φ50*20 Double Face	
GB-OF60S	Φ60*20 Single Face	
GB-OF60D	Φ60*20 Double Face	
GB-OF75S	Φ75*20 Single Face	
GB-OF75D	Φ75*20 Double Face	



■ Optical Parallel Sets

For checking micrometer anvil and spindle face for flatness and squareness to the spindle axis.



Model No.	Specification (mm)	Accuracy
GB-OP12S	Φ30 (Thickness: 12, 12.12, 12.25, 12.37; 4 pcs/set) For 0-25mm	Flatness 0.1μm
GB-OP25S	Φ30 (Thickness: 25, 25.12, 25.25, 25.37; 4 pcs/set) For 25-50mm	Parallelism 0.2μm

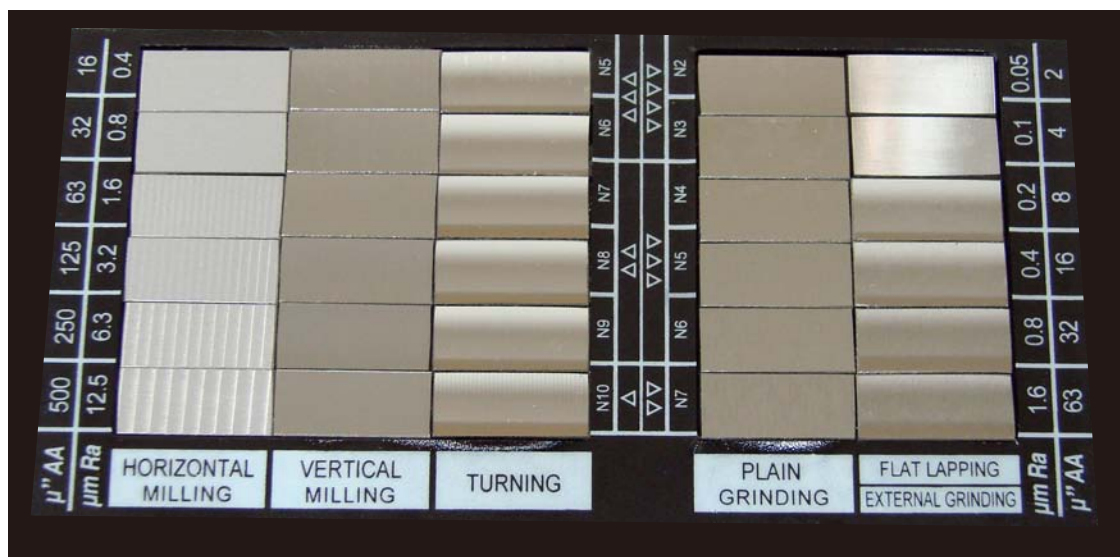
■ Monochromatic Light (for optical parallel and flats)

TYPE C LIGHT, for General Purpose use. Available in 4", 8" and 12" capacity.

FLAT WORK FLATNESS DEVIATION: 0 = 1mk OR LESS 	CYLINDRICAL (CONVEX) DEVIATION: 1 BAND = 11.8mk 	SPHERICAL (CONVEX) DEVIATION: 2 BANDS = 23.2mk
PROGRESSIVE GROOVE 	PEAKS AND VALLEYS DEVIATION: 5 BANDS = 58mk 	IRREGULAR RING

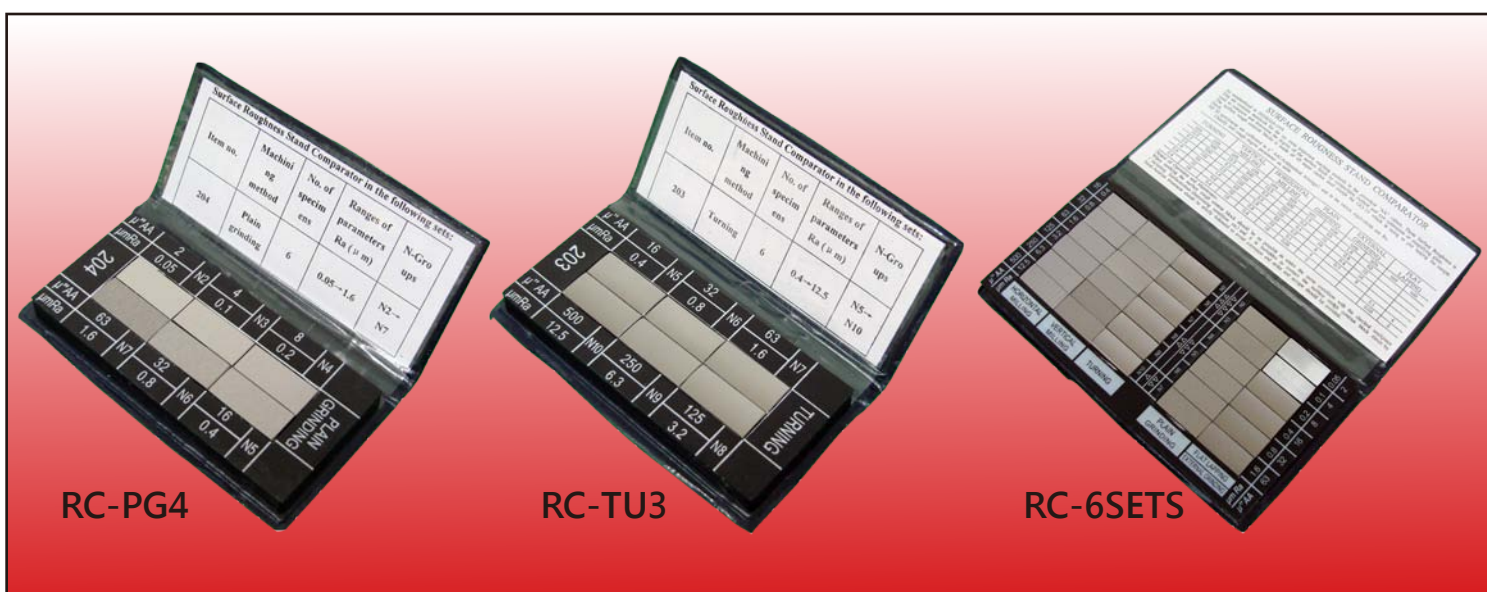
■ Roughness Comparison Specimens

For roughness comparison by sight, touch, microscope and etc.



RC-6SETS

Model No.	Measuring Range	Pcs	Remark
RC-PG4	Ra: 0.05/0.1/0.2/0.4/0.8/1.6 μm	6	Plain Grinding
RC-TU3	Ra: 0.4/0.8/1.6/3.2/6.3/12.5 μm	6	Lathe Turning
RC-6SETS	Horizontal Milling /Vertical Milling/Turning Ra: 0.4/0.8/1.6/3.2/6.3/12.5 μm Plain Grinding Ra: 0.05/0.1/0.2/0.4/0.8/1.6 μm Flat Lapping Ra: 0.05/0.1 μm External Grinding Ra: 0.2/0.4/0.8/1.6 μm	30	Horizontal Milling Vertical Milling Lathe Turning Plain Grinding Flat Lapping External Grinding



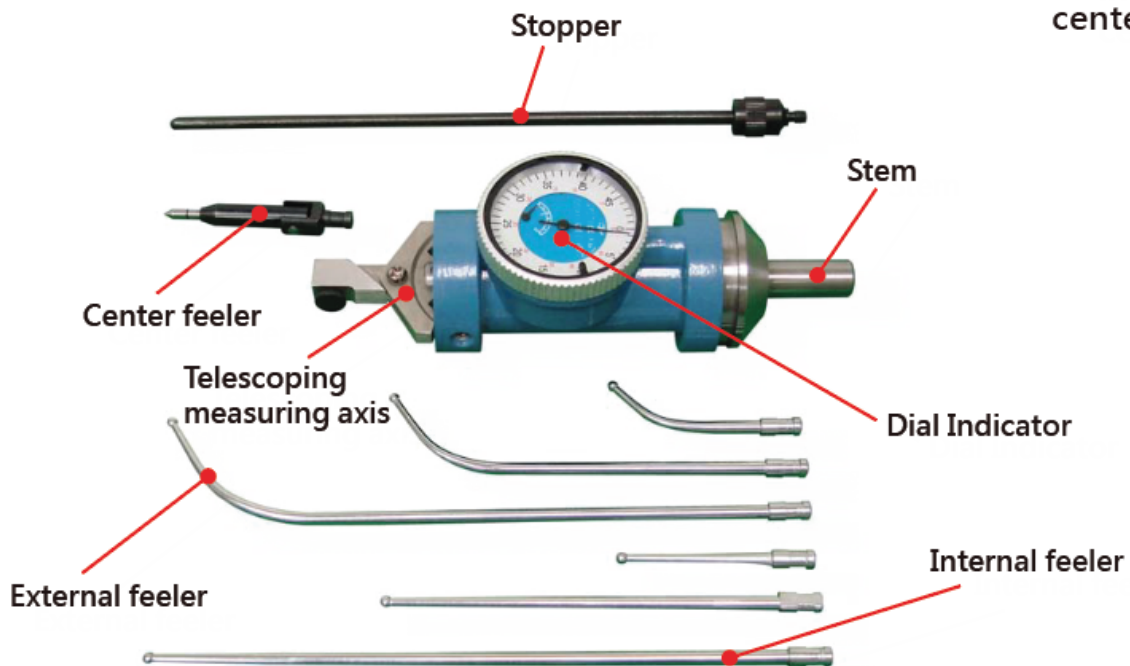
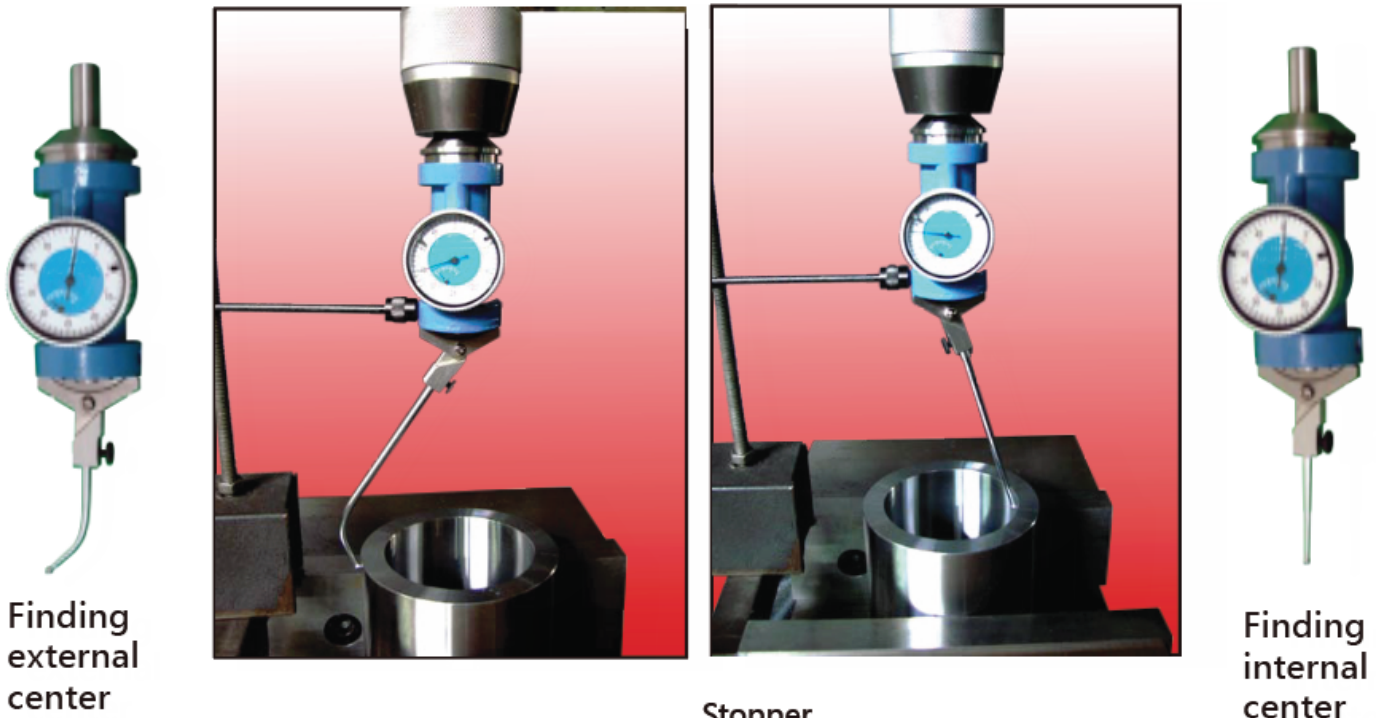
RC-PG4

RC-TU3

RC-6SETS

■ Dial Center Finder

Can be fitted on to spindle chucks of varies machines to find the centers of workpieces.



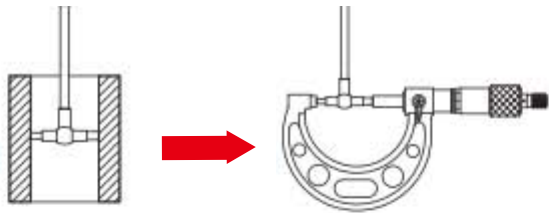
Model No.	Measuring Range	Graduation	Accuracy	Remark
CF-9000	Indicator 0-3mm	0.01mm	0.01mm	Full set with indicator. Straight feeler 3 pieces, curved feeler 3 pieces, center point feeler 1 piece, stopper bar 1 piece.
	Short Feeler ϕ 3-100mm			
	Middle Feeler ϕ 3-200mm			
	Long Feeler ϕ 3-300mm			
	Center Point Feeler ϕ 0-3mm			

Graduation : 0.01mm

■ Telescoping Gauge



Model No.	Measuring Range	Depth (mm)
TG-9001	8-12.7	102
TG-9002	12.7-19	
TG-9003	19-32	
TG-9004	32-54	127
TG-9005	54-90	
TG-9006	90-150	
TG-9000S	8-150mm (Set)	



Operation method
For measuring internal diameter or internal through-groove of workpieces by comparative method.
Reading can be shown on the outside micrometer

■ Dial Crank Shank Gage

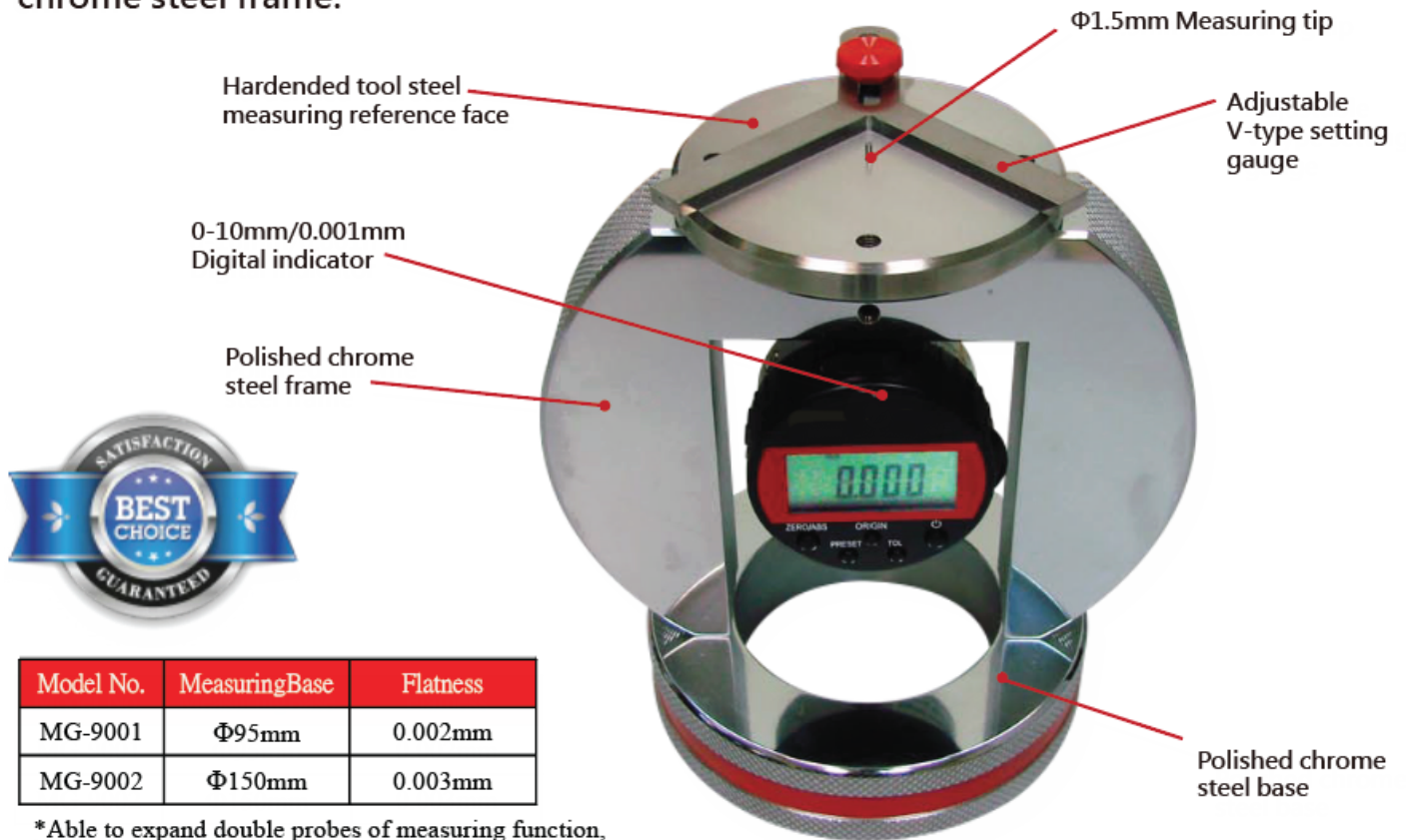


Model No.	Measuring Range	Graduation	Remark
CS-9000	Indicator 0-3mm With extension measuring bar 60-500mm	0.01mm	Full set with indicator, measuring anvil & extension bar

Graduation : 0.01mm

■ Inverted Measuring Gauge

For inspecting parallelism, flatness of workpieces.
Inverted for measurements of height, depth, steps without datum faces. Polished chrome steel frame.



*Able to expand double probes of measuring function,
for measuring workpiece actual thickness.



■ Arc Radius Measuring Gauge

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



Inner arc extension

Measuring Jaw



C=10



C=20



C=30



C=60



C=100



■ Arc Radius Measuring Gauge

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



Radius : 12.54 Dia. : Φ 25.08



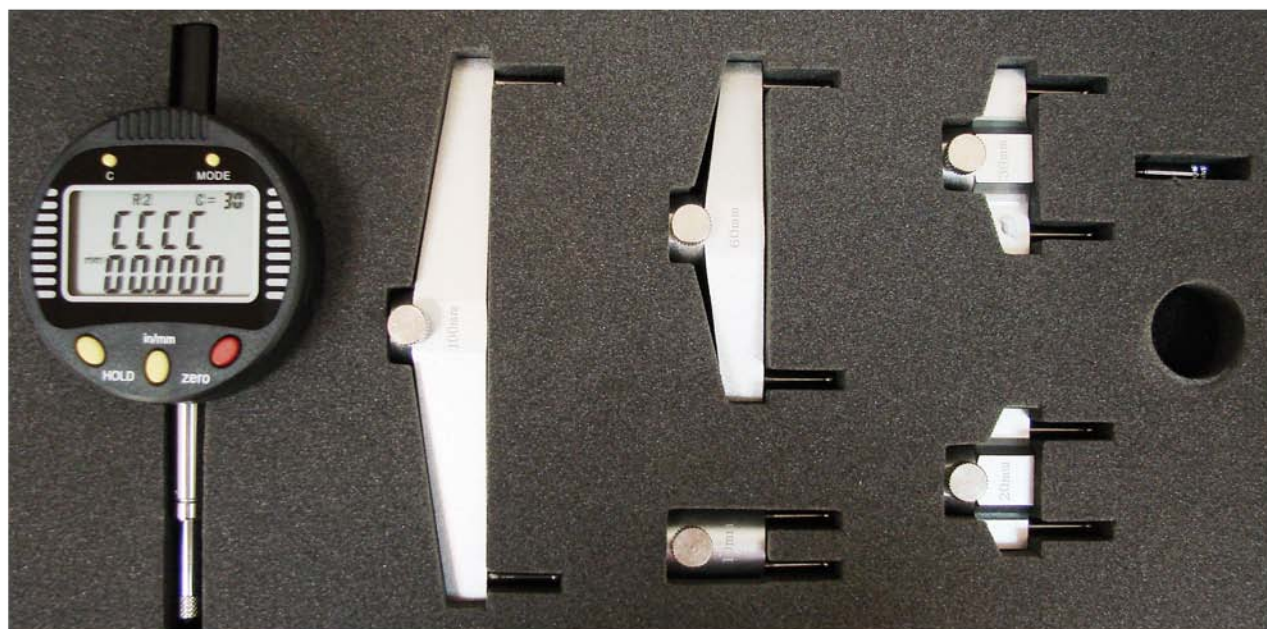
Radius : 24.99 Dia. : Φ 49.98



Radius : 50.00 Dia. : Φ 100.00

Outer ARC	The best measuring range	Inner ARC	The best measuring range
C = 10	R = 5 – 13mm	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



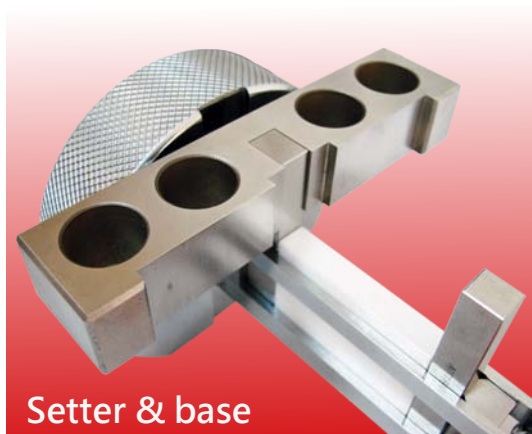
Model No : ARG-9000C

■ Bore Gauge Checkmaster

For dimension set zero & calibration of bore gauge.

Vertical setting

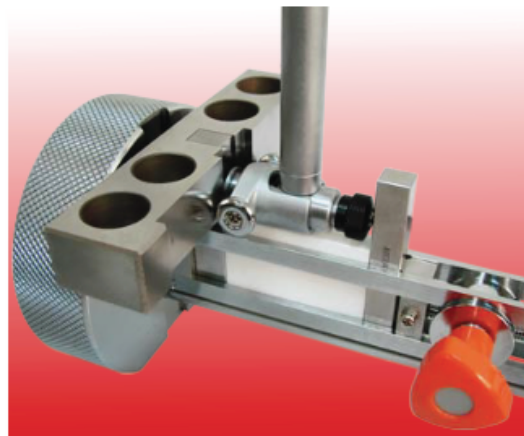
Horizontal setting



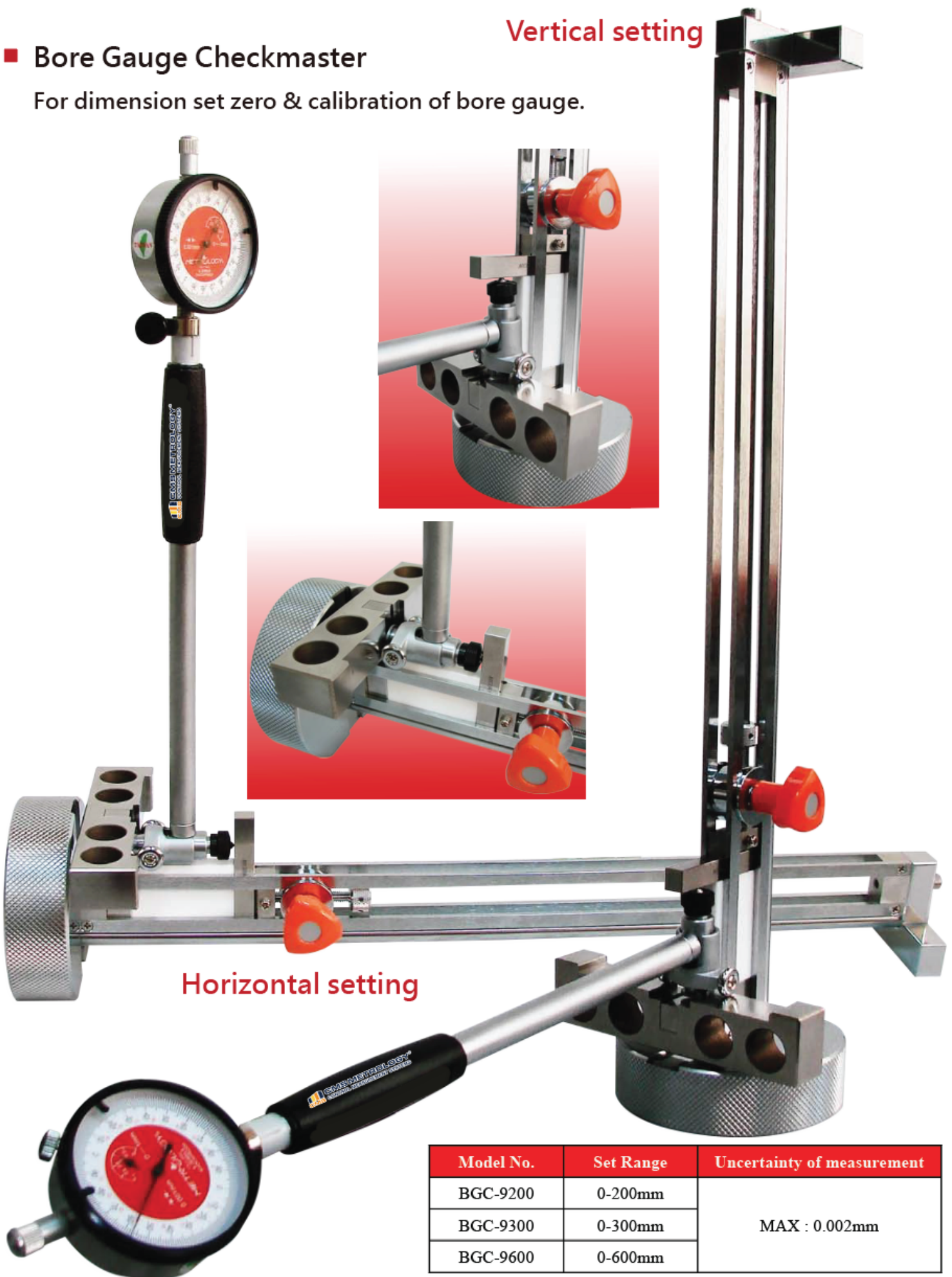
■ Bore Gauge Checkmaster

For dimension set zero & calibration of bore gauge.

Vertical setting



Horizontal setting



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

***Gauge block optional**