



GBS1-32

BLOCK GAUGES

PIN GAUGES

PIN VISE

PIN GAUGE ACCESSORIES

USE • For general measurement and reference standard in workshop

MATERIAL • High carbon high chromium steel

FEATURES • Conforms to JIS (Grade 1) Standard

SPECIFICATIONS

Size (mm)		Grade 1	
Over	Below	Tolerance (μm)	Dimensional deviation (μm)
—	10	± 0.20	0.16
10	25	± 0.30	0.16
25	50	± 0.40	0.18
50	75	± 0.50	0.18
75	100	± 0.60	0.20

GAUGES

THREAD GAUGES

PLUG GAUGES

RING GAUGES

THICKNESS GAUGES

TAPER GAUGES

WELDING GAUGES

OTHER GAUGES

Order No.	Model No.	Pieces per set	Step (mm)	Nominal Size (mm)	Number of pieces	Weight
150801	GBS1-103	103		1.005	1	3.48kg
			0.01	1.01·1.02··1.49	49	
			0.5	0.5·1.0··24.5	49	
			25	25·50·75·100	4	
150802	GBS1-76	76		1.005	1	2.1kg
			0.01	1.01·1.02··1.49	49	
			0.5	0.5·1.0··9.5	19	
			10	10·20·30·40	4	
150804	GBS1-47	47		1.005	1	2.1kg
			0.01	1.01·1.02··1.09	9	
			0.1	1.1·1.2··1.9	9	
			1.0	1·2·3··24	24	
150806	GBS1-32	32		1.005	1	1kg
			0.01	1.01·1.02··1.09	9	
			0.1	1.1·1.2··1.9	9	
			1	1·2·3··9	9	
			10	10·20·30	3	
			60		1	



SPECIFICATIONS

Size (mm)		Grade 1	
Over	Below	Tolerance (μm)	Dimensional Deviation (μm)
–	10	± 0.20	0.16
10	25	± 0.30	0.16
25	50	± 0.40	0.18
50	75	± 0.50	0.18
75	100	± 0.60	0.20
100	150	± 0.80	0.20
150	200	± 1.00	0.25
200	250	± 1.20	0.25
250	300	± 1.40	0.25
300	400	± 1.80	0.30
400	500	± 2.20	0.35
500	600	± 2.60	0.40

USE • For general measurement and reference standard in workshop

MATERIAL
• High carbon high chromium steel

FEATURES
• Conforms to JIS (Grade 1) standard

Order No.	Model No.	Size
150810	GB1-05	0.5mm
150820	GB1-10	1.0mm
150822	GB1-1-001	1.001mm
150823	GB1-1-002	1.002mm
150824	GB1-1-003	1.003mm
150825	GB1-1-004	1.004mm
150826	GB1-1-005	1.005mm
150827	GB1-1-006	1.006mm
150828	GB1-1-007	1.007mm
150829	GB1-1-008	1.008mm
150830	GB1-1-009	1.009mm
150831	GB1-101	1.01mm
150832	GB1-102	1.02mm
150833	GB1-103	1.03mm
150834	GB1-104	1.04mm
150835	GB1-105	1.05mm
150836	GB1-106	1.06mm
150837	GB1-107	1.07mm
150838	GB1-108	1.08mm
150839	GB1-109	1.09mm
150840	GB1-110	1.10mm
150841	GB1-111	1.11mm
150842	GB1-112	1.12mm
150843	GB1-113	1.13mm
150844	GB1-114	1.14mm
150845	GB1-115	1.15mm
150846	GB1-116	1.16mm
150847	GB1-117	1.17mm
150848	GB1-118	1.18mm
150849	GB1-119	1.19mm
150850	GB1-120	1.20mm
150851	GB1-121	1.21mm
150852	GB1-122	1.22mm
150853	GB1-123	1.23mm
150854	GB1-124	1.24mm
150855	GB1-125	1.25mm
150856	GB1-126	1.26mm
150857	GB1-127	1.27mm
150858	GB1-128	1.28mm
150859	GB1-129	1.29mm
150860	GB1-130	1.30mm
150861	GB1-131	1.31mm

Order No.	Model No.	Size
150862	GB1-132	1.32mm
150863	GB1-133	1.33mm
150864	GB1-134	1.34mm
150865	GB1-135	1.35mm
150866	GB1-136	1.36mm
150867	GB1-137	1.37mm
150868	GB1-138	1.38mm
150869	GB1-139	1.39mm
150870	GB1-140	1.40mm
150871	GB1-141	1.41mm
150872	GB1-142	1.42mm
150873	GB1-143	1.43mm
150874	GB1-144	1.44mm
150875	GB1-145	1.45mm
150876	GB1-146	1.46mm
150877	GB1-147	1.47mm
150878	GB1-148	1.48mm
150879	GB1-149	1.49mm
150880	GB1-150	1.50mm
150885	GB1-200	2.00mm
150886	GB1-250	2.50mm
150887	GB1-300	3.00mm
150888	GB1-350	3.50mm
150889	GB1-400	4.00mm
150890	GB1-450	4.50mm
150891	GB1-500	5.00mm
150893	GB1-550	5.50mm
150894	GB1-600	6.00mm
150895	GB1-650	6.50mm
150896	GB1-700	7.00mm
150897	GB1-750	7.50mm
150899	GB1-800	8.00mm
150900	GB1-850	8.50mm
150901	GB1-900	9.00mm
150902	GB1-950	9.50mm
150903	GB1-1000	10.00mm
150905	GB1-1050	10.50mm
150906	GB1-1100	11.00mm
150907	GB1-1150	11.50mm
150908	GB1-1200	12.00mm
150909	GB1-1250	12.50mm
150911	GB1-1300	13.00mm

Order No.	Model No.	Size
150912	GB1-1350	13.50mm
150913	GB1-1400	14.00mm
150914	GB1-1450	14.50mm
150915	GB1-1500	15.00mm
150916	GB1-1550	15.50mm
150917	GB1-1660	16.00mm
150918	GB1-1650	16.50mm
150919	GB1-1700	17.00mm
150920	GB1-1750	17.50mm
150921	GB1-1800	18.00mm
150922	GB1-1850	18.50mm
150923	GB1-1900	19.00mm
150924	GB1-1950	19.50mm
150925	GB1-2000	20.00mm
150927	GB1-2050	20.50mm
150928	GB1-2100	21.00mm
150929	GB1-2150	21.50mm
150930	GB1-2200	22.00mm
150931	GB1-2250	22.50mm
150933	GB1-2300	23.00mm
150934	GB1-2350	23.50mm
150935	GB1-2400	24.00mm
150936	GB1-2450	24.50mm
150937	GB1-2500	25.00mm
150939	GB1-3000	30.00mm
150940	GB1-4000	40.00mm
150941	GB1-5000	50.00mm
150942	GB1-6000	60.00mm
150944	GB1-7000	70.00mm
150945	GB1-7500	75.00mm
150946	GB1-8000	80.00mm
150947	GB1-9000	90.00mm
150948	GB1-10000	100.00mm
150949	GB1-12500	125mm
150950	GB1-15000	150mm
150794	GB1-17500	175mm
150795	GB1-20000	200mm
150796	GB1-25000	250mm
150797	GB1-30000	300mm
150798	GB1-40000	400mm
150799	GB1-50000	500mm
150800	GB1-60000	600mm

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OTHER GAUGES



CERAMIC BLOCK GAUGE SET



USE • For general measurement and reference standard in workshop

MATERIAL
• Ceramic (Zircon)

FEATURES
• Abrasion resistant
• Free from rust and corrosion, and easy maintenance
• Ceramic material is less susceptible to abrasion and age deterioration than steel
• Non-magnetic
• Conforms to JIS (Grade 0) Standard

SPECIFICATIONS
• Section size: less than 10mm: 30(0~-0.3) × 9(-0.05~-0.2) mm
10mm to less than 100mm: 35(0~-0.3) × 9(-0.05~-0.2) mm
• Coefficient of thermal expansion: $(9.5 \pm 1) \times 10^{-6} / K$

BC-032

SPECIFICATIONS

Size (mm)		Grade 0	
Over	Below	Tolerance (μm)	Dimensional Deviation (μm)
-	10	± 0.12	0.10
10	25	± 0.14	0.10
25	50	± 0.20	0.10
50	75	± 0.25	0.12
75	100	± 0.30	0.12

Comparison between steel and ceramic materials

Item	Materials		Ceramic	Steel
	Hardness	HV		
Hardness	HV		1300	800
Coefficient of thermal expansion	$10^{-6}K$		9.5	11.5
Specific Gravity			6	7.8
Heat conductivity	W/m·K		2.5	76

SET Item

Order No.	Model No.	Pieces per set	Step (mm)	Nominal Size (mm)	Number of piece	Weight
150770	BC-032	32	-	1.005	1	950g
			0.01	1.01·1.02··1.09	9	
			0.1	1.1·1.2··1.9	9	
			1	1·2·3··9	9	
			10	10·20·30	3	
150771	BC-047	47	-	50	1	2.25kg
			0.01	1.01·1.02··1.09	9	
			0.1	1.1·1.2··1.9	9	
			1	1·2·3··24	24	
			25	25·50·75·100	4	

SINGLE Item

Order No.	Model No.	Size (mm)
150720	BC0-100	1
150721	BC0-1-005	1.005
150722	BC0-101	1.01
150723	BC0-102	1.02
150724	BC0-103	1.03
150725	BC0-104	1.04
150726	BC0-105	1.05
150727	BC0-106	1.06
150728	BC0-107	1.07
150729	BC0-108	1.08
150730	BC0-109	1.09
150731	BC0-110	1.1
150732	BC0-120	1.2
150733	BC0-130	1.3
150734	BC0-140	1.4
150735	BC0-150	1.5
150736	BC0-160	1.6
150737	BC0-170	1.7
150738	BC0-180	1.8
150739	BC0-190	1.9
150740	BC0-200	2
150741	BC0-300	3
150742	BC0-400	4
150743	BC0-500	5
150744	BC0-600	6

Order No.	Model No.	Size (mm)
150745	BC0-700	7
150746	BC0-800	8
150747	BC0-900	9
150748	BC0-1000	10
150749	BC0-1100	11
150750	BC0-1200	12
150751	BC0-1300	13
150752	BC0-1400	14
150753	BC0-1500	15
150754	BC0-1600	16
150755	BC0-1700	17
150756	BC0-1800	18
150757	BC0-1900	19
150758	BC0-2000	20
150759	BC0-2100	21
150760	BC0-2200	22
150761	BC0-2300	23
150762	BC0-2400	24
150763	BC0-2500	25
150764	BC0-3000	30
150765	BC0-5000	50
150766	BC0-6000	60
150767	BC0-7500	75
150768	BC0-10000	100

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GAUGES

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RING GAUGES

THICKNESS GAUGES

TAPER GAUGES

WELDING GAUGES

OTHER GAUGES

SUB-ZERO Treatment (Cryogenic hardened)

FEATURES

- The most popular type.
Long life use / Sub zero treatment
- Individual Pin Gauges are also available
- Custom made Pin Gauges are available on request
- Aluminum Pin Vise is included with AA-0A to AA-9B
Pin Vise is included with AA-0E to AA-6F
- For above 1.000mm, the nominal size is marked on gauge

SPECIFICATIONS

Nominal Size (mm)	Step (mm)	Length (mm)	Tolerance (μm)	Out of Roundness/Cylindricity (μm)	Hardness (HV)
0.05 ... 0.09	0.01 Step	5~10	±0.5	0.5	More than 650
0.10 ... 0.19					
0.200 ... 0.999	0.001 Step	40	±0.8	0.5	
1.000 ... 10.000					
10.01 ... 20.00	0.01 Step	50	±1.5	0.8	
20.01 ... 30.00					
30.01 ... 41.00	—	—	±3	3.0	

※ 30.01 ~ 41.00 are custom made



AA series

(0.010mm step)

Model No.	Nominal Size (mm)	Pins per set	Aluminum Pin Vise
AA-00	0.06 · 0.07 · 0.08 ····· 0.290	24	
AA-0A	0.200 · 0.210 · 0.220 ····· 0.500	31	APV-0A
AA-0B	0.500 · 0.510 · 0.520 ····· 1.000	51	APV-0B
AA-1A	1.000 · 1.010 · 1.020 ····· 1.500	51	APV-1A
AA-1B	1.500 · 1.510 · 1.520 ····· 2.000	51	APV-1B
AA-2A	2.000 · 2.010 · 2.020 ····· 2.500	51	APV-2A
AA-2B	2.500 · 2.510 · 2.520 ····· 3.000	51	APV-2B
AA-3A	3.000 · 3.010 · 3.020 ····· 3.500	51	APV-3A
AA-3B	3.500 · 3.510 · 3.520 ····· 4.000	51	APV-3B
AA-4A	4.000 · 4.010 · 4.020 ····· 4.500	51	APV-4A
AA-4B	4.500 · 4.510 · 4.520 ····· 5.000	51	APV-4B
AA-5A	5.000 · 5.010 · 5.020 ····· 5.500	51	APV-5A
AA-5B	5.500 · 5.510 · 5.520 ····· 6.000	51	APV-5B
AA-6A	6.000 · 6.010 · 6.020 ····· 6.500	51	APV-6A
AA-6B	6.500 · 6.510 · 6.520 ····· 7.000	51	APV-6B
AA-7A	7.000 · 7.010 · 7.020 ····· 7.500	51	APV-7A
AA-7B	7.500 · 7.510 · 7.520 ····· 8.000	51	APV-7B
AA-8A	8.000 · 8.010 · 8.020 ····· 8.500	51	APV-8A
AA-8B	8.500 · 8.510 · 8.520 ····· 9.000	51	APV-8B
AA-9A	9.000 · 9.010 · 9.020 ····· 9.500	51	APV-9A
AA-9B	9.500 · 9.510 · 9.520 ····· 10.000	51	APV-9B
AA-10A	10.000 · 10.01 · 10.02 ····· 10.50	51	
AA-10B	10.50 · 10.51 · 10.52 ····· 11.00	51	
AA-11A	11.00 · 11.01 · 11.02 ····· 11.50	51	
AA-11B	11.50 · 11.51 · 11.52 ····· 12.00	51	
AA-12A	12.00 · 12.01 · 12.02 ····· 12.50	51	
AA-12B	12.50 · 12.51 · 12.52 ····· 13.00	51	
AA-13A	13.00 · 13.01 · 13.02 ····· 13.50	51	
AA-13B	13.50 · 13.51 · 13.52 ····· 14.00	51	
AA-14A	14.00 · 14.01 · 14.02 ····· 14.50	51	
AA-14B	14.50 · 14.51 · 14.52 ····· 15.00	51	
AA-15A	15.00 · 15.01 · 15.02 ····· 15.50	51	
AA-15B	15.50 · 15.51 · 15.52 ····· 16.00	51	
AA-16A	16.00 · 16.01 · 16.02 ····· 16.50	51	
AA-16B	16.50 · 16.51 · 16.52 ····· 17.00	51	
AA-17A	17.00 · 17.01 · 17.02 ····· 17.50	51	
AA-17B	17.50 · 17.51 · 17.52 ····· 18.00	51	
AA-18A	18.00 · 18.01 · 18.02 ····· 18.50	51	
AA-18B	18.50 · 18.51 · 18.52 ····· 19.00	51	
AA-19A	19.00 · 19.01 · 19.02 ····· 19.50	51	
AA-19B	19.50 · 19.51 · 19.52 ····· 20.00	51	

AA series

(0.005mm step)

Model No.	Nominal Size (mm)	Pins per set	Pin Vise
AA-0E	0.500 · 0.505 · 0.510 ····· 0.750	51	PV-0B
AA-0F	0.750 · 0.755 · 0.760 ····· 1.000	51	PV-0B
AA-1C	1.000 · 1.005 · 1.010 ····· 1.250	51	PV-1A
AA-1D	1.250 · 1.255 · 1.260 ····· 1.500	51	PV-1A
AA-1E	1.500 · 1.505 · 1.510 ····· 1.750	51	PV-1B
AA-1F	1.750 · 1.755 · 1.760 ····· 2.000	51	PV-1B
AA-2C	2.000 · 2.005 · 2.010 ····· 2.250	51	PV-2A
AA-2D	2.250 · 2.255 · 2.260 ····· 2.500	51	PV-2A
AA-2E	2.500 · 2.505 · 2.510 ····· 2.750	51	PV-2B
AA-2F	2.750 · 2.755 · 2.760 ····· 3.000	51	PV-2B
AA-3C	3.000 · 3.005 · 3.010 ····· 3.250	51	PV-3A
AA-3D	3.250 · 3.255 · 3.260 ····· 3.500	51	PV-3A
AA-3E	3.500 · 3.505 · 3.510 ····· 3.750	51	PV-3B
AA-3F	3.750 · 3.755 · 3.760 ····· 4.000	51	PV-3B
AA-4C	4.000 · 4.005 · 4.010 ····· 4.250	51	PV-4A
AA-4D	4.250 · 4.255 · 4.260 ····· 4.500	51	PV-4A
AA-4E	4.500 · 4.505 · 4.510 ····· 4.750	51	PV-4B
AA-4F	4.750 · 4.755 · 4.760 ····· 5.000	51	PV-4B
AA-5C	5.000 · 5.005 · 5.010 ····· 5.250	51	PV-5A
AA-5D	5.250 · 5.255 · 5.260 ····· 5.500	51	PV-5A
AA-5E	5.500 · 5.505 · 5.510 ····· 5.750	51	PV-5B
AA-5F	5.750 · 5.755 · 5.760 ····· 6.000	51	PV-5B
AA-6C	6.000 · 6.005 · 6.010 ····· 6.250	51	PV-6A
AA-6D	6.250 · 6.255 · 6.260 ····· 6.500	51	PV-6A
AA-6E	6.500 · 6.505 · 6.510 ····· 6.750	51	PV-6B
AA-6F	6.750 · 6.755 · 6.760 ····· 7.000	51	PV-6B
AA-7C	7.000 · 7.005 · 7.010 ····· 7.250	51	
AA-7D	7.250 · 7.255 · 7.260 ····· 7.500	51	
AA-7E	7.500 · 7.505 · 7.510 ····· 7.750	51	
AA-7F	7.750 · 7.755 · 7.760 ····· 8.000	51	
AA-8C	8.000 · 8.005 · 8.010 ····· 8.250	51	
AA-8D	8.250 · 8.255 · 8.260 ····· 8.500	51	
AA-8E	8.500 · 8.505 · 8.510 ····· 8.750	51	
AA-8F	8.750 · 8.755 · 8.760 ····· 9.000	51	
AA-9C	9.000 · 9.005 · 9.010 ····· 9.250	51	
AA-9D	9.250 · 9.255 · 9.260 ····· 9.500	51	
AA-9E	9.500 · 9.505 · 9.510 ····· 9.750	51	
AA-9F	9.750 · 9.755 · 9.760 ····· 10.000	51	

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