

CERAMIC BLOCK GAUGE SET (GRADE 0)



HOWTO MOVE

GAUGE

Free from rust and corrosion, and easy maintenance



BC-032

USE

- As reference standard and for general measurement work
- As spacer and prefinished sub-assembly components

MATERIAL

- Ceramic (Zirconia)

FEATURES

- Abrasion resistant
- Free from rust and corrosion, and easy maintenance
- Ceramic material is less susceptible to abrasion and aged deterioration than steel
- Non-magnetic
- Conforms to JIS (Grade 0)
- Provided with inspection report

SPECIFICATIONS

- Section size: 10mm or under: 30(0~-0.3)×9(-0.05~-0.2)mm
Over 10mm: 35(0~-0.3)×9(-0.05~-0.2)mm
- Coefficient of thermal expansion: $(9.5 \pm 1) \times 10^{-6} / K$
- ※ Calibration and custom size production are NOT available

SPECIFICATIONS

Size (mm)		Grade 0	
Over	Or under	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	Material	Ceramics (Zirconia)	Steel
Hardness	HV	1,250	650~720
Coefficient of thermal expansion	$10^{-6}/K$	7~8	11
Specific Gravity		6	7.8
Heat conductivity	W/m·K	3	54.4

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
			-	1.005	1	
			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)	Order No.	Model No.	Size (mm)
150720	BCO-100	1	150745	BCO-700	7
150721	BCO-1-005	1.005	150746	BCO-800	8
150722	BCO-101	1.01	150747	BCO-900	9
150723	BCO-102	1.02	150748	BCO-1000	10
150724	BCO-103	1.03	150749	BCO-1100	11
150725	BCO-104	1.04	150750	BCO-1200	12
150726	BCO-105	1.05	150751	BCO-1300	13
150727	BCO-106	1.06	150752	BCO-1400	14
150728	BCO-107	1.07	150753	BCO-1500	15
150729	BCO-108	1.08	150754	BCO-1600	16
150730	BCO-109	1.09	150755	BCO-1700	17
150731	BCO-110	1.1	150756	BCO-1800	18
150732	BCO-120	1.2	150757	BCO-1900	19
150733	BCO-130	1.3	150758	BCO-2000	20
150734	BCO-140	1.4	150759	BCO-2100	21
150735	BCO-150	1.5	150760	BCO-2200	22
150736	BCO-160	1.6	150761	BCO-2300	23
150737	BCO-170	1.7	150762	BCO-2400	24
150738	BCO-180	1.8	150763	BCO-2500	25
150739	BCO-190	1.9	150764	BCO-3000	30
150740	BCO-200	2	150765	BCO-5000	50
150741	BCO-300	3	150766	BCO-6000	60
150742	BCO-400	4	150767	BCO-7500	75
150743	BCO-500	5	150768	BCO-10000	100
150744	BCO-600	6			



BLOCK GAUGE

PIN GAUGE

PIN VISE

PIN GAUGE ACCESSORIES

RING GAUGE

PLUG GAUGE

LIMIT GAUGE

THICKNESS GAUGE

TAPER GAUGE

WELDING GAUGE

OTHER GAUGES