

CERAMIC BLOCK GAUGE SET


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

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

Comparison between steel and ceramic materials

Item	Materials		Ceramic	Steel
	Hardness	HV		
Hardness	HV		1300	800
Coefficient of thermal expansion	$10^{-6}/\text{K}$		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