



Gauge blocks are fundamental standards for linear measurement. For adjusting, checking, or inspecting measuring instruments and tools, and precision workpieces. Gauge blocks are used either individually or in combination of several blocks which are wrung together. Steel gauge blocks are made of quality alloy steel. and carbide, the ceramics are also available. The hardness number of the measuring surfaces is no less than HRC64°. The blocks have fine wear resistance, They are heat treated in special ways so as to stabilize their lengths.

JIS/ISO/DIN SIZE OVER UP TO	ACCURACY STANDARD ACCURACY AT 20°C (µm)	
	GRADE 00	GRADE 0
10mm	±0.06	±0.12
10 - 25mm	+0.07	±0.14
25 - 50mm	±0.10	±0.20
50 - 75mm	±0.12	±0.25
75 - 100mm	±0.14	±0.30
100 - 150mm	-	±0.40

SIZE OVER UP TO	ACCURACY AT 20°C (µm)	
	GRADE 1	GRADE 2
10mm	±0.20	±0.45
10 - 25mm	±0.30	±0.60
25 - 50mm	±0.40	±0.80
50 - 75mm	±0.50	±1.00
75 - 100mm	±0.60	±1.20
100 - 150mm	±0.80	±1.60

STEEL METRIC GAUGE BLOCKS

ORDER NO.	Total blocks	Nominal dimension	Steps	No. of blocks	Grade	Weight (kg)	CODE NO.
VGB-112-0	112	1.0005	-	1	0	3.7	2006-070
VGB-112-1		1.001-1.009	0.001	9	1	3.7	2006-170
VGB-112-2		1.01-1.49 0.5-24.5 25-100	0.01 0.05 25	49 49 4	1 1 2	3.7	2006-270
VGB-103-0	103	1.005	-	1	0	3.6	2006-072
VGB-103-1		1.01-1.49	0.01	49	1	3.6	2006-172
VGB-103-2		0.5-24.5 25-100	0.5 25	49 4	1 2	3.6	2006-272
VGB-87-0	87	1.001-1.009	0.001	9	0	3	2006-073
VGB-87-1		1.01-1.49	0.01	49	1	3	2006-173
VGB-87-2		0.5-9.5 10-100	0.5 10	19 10	1 2	3	2006-273
VGB-47-0	47	1.005	-	1	0	2.4	2006-074
VGB-47-1		1.01-1.09	0.01	9	1	2.4	2006-174
VGB-47-2		1.1-1.9 1-24 25-100	0.1 1 25	9 1 24 4	1 1 2	2.4	2006-274
VGB-38-0	38	1.005	-	1	0	2.5	2006-075
VGB-38-1		1.01-1.09	0.01	9	1	2.5	2006-175
VGB-38-2		1.1-1.9 1-9 10-100	0.1 1 10	9 9 10	1 1 2	2.5	2006-275

CARBIDE METRIC GAUGE BLOCKS

ORDER NO.	Total blocks	Nominal dimension	Steps	No. of blocks	Grade	Weight (kgs)	CODE NO.
VGB-112T-0	112	1.0005	-	1	0	5.8	2006-080
VGB-112T-1		1.001-1.009	0.001	9	1	5.8	2006-180
VGB-112T-2		1.01-1.49 0.5-24.5 25-100	0.01 0.05 25	49 49 4	1 1 2	5.8	2006-280
VGB-103T-0	103	1.005	-	1	0	5.6	2006-081
VGB-103T-1		1.01-1.49	0.01	49	1	5.7	2006-181
VGB-103T-2		0.5-24.5 25-100	0.5 25	49 4	1 2	5.7	2006-281
VGB-87T-0	87	1.001-1.009	0.001	9	0	4.8	2006-082
VGB-87T-1		1.01-1.49	0.01	49	1	4.9	2006-182
VGB-87T-2		0.5-9.5 10-100	0.5 10	19 10	1 2	4.8	2006-282
VGB-47T-0	47	1.005	-	1	0	4.6	2006-083
VGB-47T-1		1.01-1.09	0.01	9	1	4.6	2006-183
VGB-47T-2		1.1-1.9 1-24 25-100	0.1 1 25	9 1 24 4	1 1 2	4.6	2006-283



CHOICE DIFFERENT SIZE GAUGE BLOCK FOR TOTAL THE HEIGHT

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JIS/ISO/DIN ACCURACY STANDARD

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75 - 100mm	±0.14	±0.30
100 - 150mm	-	±0.40

SIZE OVER UP TO	ACCURACY AT 20°C (µm)	
	GRADE 1	GRADE 2
10mm	±0.20	±0.45
10 - 25mm	±0.30	±0.60
25 - 50mm	±0.40	±0.80
50 - 75mm	±0.50	±1.00
75 - 100mm	±0.60	±1.20
100 - 150mm	±0.80	±1.60

CERAMIC GAUGE BLOCKS

ORDER NO.	Total blocks	Nominal dimension	Steps	No. of blocks	Grade	Weight (kgs)	CODE NO.
VGB-112C-0	112	1.0005	-	1	0	3.7	2006-090
		1.001-1.009	0.001	9			
		1.01-1.49	0.01	49			
VGB-112C-1		0.5-24.5	0.05	49	1	3.7	2006-190
	25-100	0.25	4				
VGB-103C-0	103	1.005	-	1	0	3.6	2006-091
		1.01-1.49	0.01	49			
		0.5-24.5	0.5	49			
VGB-103C-1		25-100	0.25	4	1	3.6	2006-191
VGB-87C-0	87	1.001-1.009	0.001	9	0	3	2006-092
		1.01-1.49	0.01	49			
		0.5-9.5	0.5	19			
VGB-87C-1		10-100	10	10	1	3	2006-192
VGB-47C-0	47	1.005	-	1	0	2.4	2006-093
		1.01-1.09	0.01	9			
		1.1-1.9	0.1	9			
		1-24	1	24			
VGB-47C-1		25-100	0.25	4	1	2.4	2006-193

HOW TO CHOOSE THE BLOCK FOR SINE BAR

DISTANCE GAUGE BLOCK CAN GET DEGREE	SIN BAR CENTER		SIN BAR CENTER	
	Diagram	Diagram	Diagram	Diagram
2°	Diagram	Diagram	1.7405	3.4899
3°	Diagram	Diagram	2.6168	5.2336
4°	Diagram	Diagram	3.4878	6.9756
5°	Diagram	Diagram	4.3578	8.7155
6°	Diagram	Diagram	5.2264	10.4528
7°	Diagram	Diagram	6.0935	12.1869
8°	Diagram	Diagram	6.9587	13.9173
9°	Diagram	Diagram	7.8217	15.6434
10°	Diagram	Diagram	8.6824	17.3648
11°	Diagram	Diagram	9.5404	19.0809
12°	Diagram	Diagram	10.3956	20.7911
13°	Diagram	Diagram	11.2476	22.4951
14°	Diagram	Diagram	12.0961	24.1921
15°	Diagram	Diagram	12.9401	25.8819
16°	Diagram	Diagram	13.7819	27.5637
17°	Diagram	Diagram	14.6186	29.2371
18°	Diagram	Diagram	15.4058	30.9017
19°	Diagram	Diagram	16.2784	32.5586
20°	Diagram	Diagram	17.1010	34.2020
21°	Diagram	Diagram	17.9184	35.8367
22°	Diagram	Diagram	18.7303	37.4606
23°	Diagram	Diagram	19.5366	39.0713
24°	Diagram	Diagram	20.3368	40.6736
25°	Diagram	Diagram	21.1309	42.2618
26°	Diagram	Diagram	21.9186	43.8371
27°	Diagram	Diagram	22.6995	45.3990
28°	Diagram	Diagram	23.4736	46.9471
29°	Diagram	Diagram	24.2405	48.4809
30°	Diagram	Diagram	25.0000	50.0000
31°	Diagram	Diagram	25.7519	51.5038
32°	Diagram	Diagram	26.4960	52.9919
33°	Diagram	Diagram	27.2320	54.4639
34°	Diagram	Diagram	27.9596	55.9192
35°	Diagram	Diagram	28.6788	57.3576
36°	Diagram	Diagram	29.3893	58.7785
37°	Diagram	Diagram	30.0908	60.1815
38°	Diagram	Diagram	30.7831	61.5661
39°	Diagram	Diagram	31.4660	62.9320
40°	Diagram	Diagram	32.1394	64.2787
41°	Diagram	Diagram	32.8030	65.6059
42°	Diagram	Diagram	33.4565	66.9130
43°	Diagram	Diagram	34.0999	68.1998
44°	Diagram	Diagram	34.7329	69.4658
45°	Diagram	Diagram	35.3553	70.7106