



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	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	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	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 24 4	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	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	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	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	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 24 4	2	4.6	2006-283

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 ACCURACY STANDARD

SIZE OVER UP TO	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

ACCURACY AT 20°C (µm)

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



CHOICE DIFFERENT SIZE GAUGE BLOCK FOR TOTAL THE HEIGHT

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.

JIS/ISO/DIN ACCURACY STANDARD

SIZE OVER UP TO	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

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			
VGB-112C-1	112	1.01-1.49	0.01	49	1	3.7	2006-190
		0.5-24.5	0.05	49			
		25-100	25	4			
VGB-103C-0	103	1.005	-	1	0	3.6	2006-091
		1.01-1.49	0.01	49			
VGB-103C-1	103	0.5-24.5	0.5	49	1	3.6	2006-191
		25-100	25	4			
VGB-87C-0	87	1.001-1.009	0.001	9	0	3	2006-092
		1.01-1.49	0.01	49			
VGB-87C-1	87	0.5-9.5	0.5	19	1	3	2006-192
		10-100	10	10			
VGB-47C-0	47	1.005	-	1	0	2.4	2006-093
		1.01-1.09	0.01	9			
VGB-47C-1	47	1.1-1.9	0.1	9	1	2.4	2006-193
		1-24	1	24			
		25-100	25	4			

HOW TO CHOOSE THE BLOCK FOR SINE BAR

DISTANCE GAUGE BLOCK CAN GET DEGREE	SIN BAR CENTER		SIN BAR CENTER	
	HEIGHT		HEIGHT	
	+50		+100	
2°	1.7405	3.4899		
3°	2.6168	5.2336		
4°	3.4878	6.9756		
5°	4.3578	8.7155		
6°	5.2264	10.4528		
7°	6.0935	12.1869		
8°	6.9587	13.9173		
9°	7.8217	15.6434		
10°	8.6824	17.3648		
11°	9.5404	19.0809		
12°	10.3956	20.7911		
13°	11.2476	22.4951		
14°	12.0961	24.1921		
15°	12.9401	25.8819		
16°	13.7819	27.5637		
17°	14.6186	29.2371		
18°	15.4058	30.9017		
19°	16.2784	32.5586		
20°	17.1010	34.2020		
21°	17.9184	35.8367		
22°	18.7303	37.4606		
23°	19.5366	39.0713		
24°	20.3368	40.6736		
25°	21.1309	42.2618		
26°	21.9186	43.8371		
27°	22.6995	45.3990		
28°	23.4736	46.9471		
29°	24.2405	48.4809		
30°	25.0000	50.0000		
31°	25.7519	51.5038		
32°	26.4960	52.9919		
33°	27.2320	54.4639		
34°	27.9596	55.9192		
35°	28.6788	57.3576		
36°	29.3893	58.7785		
37°	30.0908	60.1815		
38°	30.7831	61.5661		
39°	31.4660	62.9320		
40°	32.1394	64.2787		
41°	32.8030	65.6059		
42°	33.4565	66.9130		
43°	34.0999	68.1998		
44°	34.7329	69.4658		
45°	35.3553	70.7106		