

GAUGE BLOCKS


Accuracy according to ISO3650

Nominal length (mm)	Grade 0		Grade 1		Grade 2	
	Limit deviation of length	Tolerance for the variation in length	Limit deviation of length	Tolerance for the variation in length	Limit deviation of length	Tolerance for the variation in length
over 0.5 to 10	±0.12µm	0.10µm	±0.20µm	0.16µm	±0.45µm	0.30µm
over 10 to 25	±0.14µm	0.10µm	±0.30µm	0.16µm	±0.60µm	0.30µm
over 25 to 50	±0.20µm	0.10µm	±0.40µm	0.18µm	±0.80µm	0.30µm
over 50 to 75	±0.25µm	0.12µm	±0.50µm	0.18µm	±1.00µm	0.35µm
over 75 to 100	±0.30µm	0.12µm	±0.60µm	0.20µm	±1.20µm	0.35µm
over 100 to 150	±0.40µm	0.14µm	±0.80µm	0.20µm	±1.60µm	0.40µm
over 150 to 200	±0.50µm	0.16µm	±1.00µm	0.25µm	±2.00µm	0.40µm
over 200 to 250	±0.60µm	0.16µm	±1.20µm	0.25µm	±2.40µm	0.45µm
over 250 to 300	±0.70µm	0.18µm	±1.40µm	0.25µm	±2.80µm	0.50µm
over 300 to 400	±0.90µm	0.20µm	±1.80µm	0.30µm	±3.60µm	0.50µm
over 400 to 500	±1.10µm	0.25µm	±2.20µm	0.35µm	±4.40µm	0.60µm
over 500 to 600	±1.30µm	0.25µm	±2.60µm	0.40µm	±5.00µm	0.70µm
over 600 to 700	±1.50µm	0.30µm	±3.00µm	0.45µm	±6.00µm	0.70µm
over 700 to 800	±1.70µm	0.30µm	±3.40µm	0.50µm	±6.50µm	0.80µm
over 800 to 900	±1.90µm	0.35µm	±3.80µm	0.50µm	±7.50µm	0.90µm
over 900 to 1000	±2.00µm	0.40µm	±4.20µm	0.60µm	±8.00µm	1.00µm

Grade and application

Grade	Application
0	To be used as basic standards in calibration laboratories by skilled inspection staff, to calibrate or set high accuracy measuring instruments, to calibrate gauge blocks of grade 1 and 2.
1	To be used in inspection rooms, to check gauges, inspect high accuracy parts and set measuring instruments.
2	To be used in workshops, to check production gauges, set measuring instruments and mount tools.

Inspection certificate




CERTIFICATE OF INSPECTION

CODE: 4100-32
GRADE: 0

GAUGE BLOCKS

Nominal Size (mm)	Identification No.	Deviation (µm)	Nominal Size (mm)	Identification No.	Deviation (µm)	Nominal Size (mm)	Identification No.	Deviation (µm)
1.005	118495	+0.04	1.20	108993	+0.08	4	115718	+0.08
1.01	119495	0.00	1.30	091140	+0.03	5	114033	-0.02
1.02	101529	+0.08	1.40	112170	-0.02	6	111940	+0.07
1.03	112855	+0.06	1.5	116887	-0.02	7	116970	0.00
1.04	112140	0.00	1.6	102449	+0.05	8	119266	+0.05
1.05	106748	0.00	1.7	114998	+0.07	9	114947	+0.02
1.06	113999	-0.03	1.8	101023	+0.02	10	111705	+0.08
1.07	092053	+0.03	1.9	111542	+0.05	20	115586	+0.02
1.08	111782	0.00	1	115273	0.00	30	101817	+0.09
1.09	108008	-0.02	2	114741	+0.05	50	115454	0.00
1.10	110489	+0.07	3	116918	+0.05			

Set Serial No.: 113019 Material: Steel Date: Jun. 08. 2011
 Standard: ISO3650 Standard reference temperature: 20°C Inspector: 

CERAMIC GAUGE BLOCK SET



4105-87

- Made of ceramic, extremely wear resistance and corrosion resistance, excellent dimension stability
- Meet ISO3650
- Supplied with inspection certificate

Blocks per set	Blocks included in set			Code	
	Size (mm)	Step (mm)	Quantity	Grade 0	Grade 1
112	1.0005		1	4105-112	4105-1112
	1.001-1.009	0.001	9		
	1.01-1.49	0.01	49		
	0.5-24.5	0.5	49		
	25-100	25	4		
103	1.005		1	4105-103	4105-1103
	1.01-1.49	0.01	49		
	0.5-24.5	0.5	49		
	25-100	25	4		
88	1.0005		1	4105-88	4105-188
	1.001-1.009	0.001	9		
	1.01-1.49	0.01	49		
	0.5-9.5	0.5	19		
87	1.001-1.009	0.001	9	4105-87	4105-187
	1.01-1.49	0.01	49		
	0.5-9.5	0.5	19		
	10-100	10	10		
76	1.005		1	4105-76	4105-176
	1.01-1.49	0.01	49		
	0.5-9.5	0.5	19		
	10-40	10	4		
	50-100	25	3		
56	0.5		1	4105-56	4105-156
	1.001-1.009	0.001	9		
	1.01-1.09	0.01	9		
	1.1-1.9	0.1	9		
	1-24	1	24		
	25-100	25	4		

Blocks per set	Blocks included in set			Code	
	Size (mm)	Step (mm)	Quantity	Grade 0	Grade 1
47	1.005		1	4105-47A	4105-147A
	1.01-1.09	0.01	9		
	1.1-1.9	0.1	9		
	1-24	1	24		
	25-100	25	4		
47	1.005		1	4105-47	4105-147
	1.01-1.19	0.01	19		
	1.2-1.9	0.1	8		
	1-9	1	9		
	10-100	10	10		
46	1.001-1.009	0.001	9	4105-46	4105-146
	1.01-1.09	0.01	9		
	1.1-1.9	0.1	9		
	1-9	1	9		
	10-100	10	10		
34	1.0005		1	4105-34	4105-134
	1.001-1.009	0.001	9		
	1.01-1.09	0.01	9		
	1.1-1.9	0.1	9		
	1-5	1	5		
32	1.005		1	4105-32	4105-132
	1.01-1.09	0.01	9		
	1.1-1.9	0.1	9		
	1-9	1	9		
	10-30	10	3		
8	125-175	25	3	4105-8	4105-18
	200-250	50	2		
	300-500	100	3		

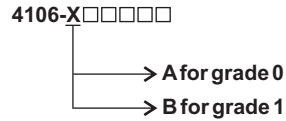
INDIVIDUAL CERAMIC GAUGE BLOCK



4106-A80

- Made of ceramic, extremely wear resistance and corrosion resistance
- Meet ISO3650
- Supplied with inspection certificate

Code explanation:



Code examples:

Size	Grade	Code
0.5mm	0	4106-AD5
10mm	1	4106-B10

Size	Code
0.5mm	4106- <u>X</u> D5
1mm	4106- <u>X</u> 1
1.0005mm	4106- <u>X</u> 1D0005
1.001mm	4106- <u>X</u> 1D001
1.002mm	4106- <u>X</u> 1D002
1.003mm	4106- <u>X</u> 1D003
1.004mm	4106- <u>X</u> 1D004
1.005mm	4106- <u>X</u> 1D005
1.006mm	4106- <u>X</u> 1D006
1.007mm	4106- <u>X</u> 1D007
1.008mm	4106- <u>X</u> 1D008
1.009mm	4106- <u>X</u> 1D009
1.01mm	4106- <u>X</u> 1D01
1.02mm	4106- <u>X</u> 1D02
1.03mm	4106- <u>X</u> 1D03
1.04mm	4106- <u>X</u> 1D04
1.05mm	4106- <u>X</u> 1D05
1.06mm	4106- <u>X</u> 1D06
1.07mm	4106- <u>X</u> 1D07
1.08mm	4106- <u>X</u> 1D08
1.09mm	4106- <u>X</u> 1D09
1.1mm	4106- <u>X</u> 1D1
1.11mm	4106- <u>X</u> 1D11
1.12mm	4106- <u>X</u> 1D12
1.13mm	4106- <u>X</u> 1D13
1.14mm	4106- <u>X</u> 1D14
1.15mm	4106- <u>X</u> 1D15
1.16mm	4106- <u>X</u> 1D16
1.17mm	4106- <u>X</u> 1D17
1.18mm	4106- <u>X</u> 1D18
1.19mm	4106- <u>X</u> 1D19
1.2mm	4106- <u>X</u> 1D2
1.21mm	4106- <u>X</u> 1D21
1.22mm	4106- <u>X</u> 1D22

Size	Code
1.23mm	4106- <u>X</u> 1D23
1.24mm	4106- <u>X</u> 1D24
1.25mm	4106- <u>X</u> 1D25
1.26mm	4106- <u>X</u> 1D26
1.27mm	4106- <u>X</u> 1D27
1.28mm	4106- <u>X</u> 1D28
1.29mm	4106- <u>X</u> 1D29
1.3mm	4106- <u>X</u> 1D3
1.31mm	4106- <u>X</u> 1D31
1.32mm	4106- <u>X</u> 1D32
1.33mm	4106- <u>X</u> 1D33
1.34mm	4106- <u>X</u> 1D34
1.35mm	4106- <u>X</u> 1D35
1.36mm	4106- <u>X</u> 1D36
1.37mm	4106- <u>X</u> 1D37
1.38mm	4106- <u>X</u> 1D38
1.39mm	4106- <u>X</u> 1D39
1.4mm	4106- <u>X</u> 1D4
1.41mm	4106- <u>X</u> 1D41
1.42mm	4106- <u>X</u> 1D42
1.43mm	4106- <u>X</u> 1D43
1.44mm	4106- <u>X</u> 1D44
1.45mm	4106- <u>X</u> 1D45
1.46mm	4106- <u>X</u> 1D46
1.47mm	4106- <u>X</u> 1D47
1.48mm	4106- <u>X</u> 1D48
1.49mm	4106- <u>X</u> 1D49
1.5mm	4106- <u>X</u> 1D5
1.6mm	4106- <u>X</u> 1D6
1.7mm	4106- <u>X</u> 1D7
1.8mm	4106- <u>X</u> 1D8
1.9mm	4106- <u>X</u> 1D9
2mm	4106- <u>X</u> 2
2.5mm	4106- <u>X</u> 2D5

Size	Code
3mm	4106- <u>X</u> 3
3.5mm	4106- <u>X</u> 3D5
4mm	4106- <u>X</u> 4
4.5mm	4106- <u>X</u> 4D5
5mm	4106- <u>X</u> 5
5.1mm	4106- <u>X</u> 5D1
5.5mm	4106- <u>X</u> 5D5
6mm	4106- <u>X</u> 6
6.5mm	4106- <u>X</u> 6D5
7mm	4106- <u>X</u> 7
7.5mm	4106- <u>X</u> 7D5
7.7mm	4106- <u>X</u> 7D7
8mm	4106- <u>X</u> 8
8.5mm	4106- <u>X</u> 8D5
9mm	4106- <u>X</u> 9
9.5mm	4106- <u>X</u> 9D5
10mm	4106- <u>X</u> 10
10.3mm	4106- <u>X</u> 10D3
10.5mm	4106- <u>X</u> 10D5
11mm	4106- <u>X</u> 11
11.5mm	4106- <u>X</u> 11D5
12mm	4106- <u>X</u> 12
12.5mm	4106- <u>X</u> 12D5
12.9mm	4106- <u>X</u> 12D9
13mm	4106- <u>X</u> 13
13.5mm	4106- <u>X</u> 13D5
14mm	4106- <u>X</u> 14
14.5mm	4106- <u>X</u> 14D5
15mm	4106- <u>X</u> 15
15.5mm	4106- <u>X</u> 15D5
16mm	4106- <u>X</u> 16
16.5mm	4106- <u>X</u> 16D5
17mm	4106- <u>X</u> 17
17.5mm	4106- <u>X</u> 17D5

Size	Code
17.6mm	4106- <u>X</u> 17D6
18mm	4106- <u>X</u> 18
18.5mm	4106- <u>X</u> 18D5
19mm	4106- <u>X</u> 19
19.5mm	4106- <u>X</u> 19D5
20mm	4106- <u>X</u> 20
20.2mm	4106- <u>X</u> 20D2
20.5mm	4106- <u>X</u> 20D5
21mm	4106- <u>X</u> 21
21.5mm	4106- <u>X</u> 21D5
22mm	4106- <u>X</u> 22
22.5mm	4106- <u>X</u> 22D5
22.8mm	4106- <u>X</u> 22D8
23mm	4106- <u>X</u> 23
23.5mm	4106- <u>X</u> 23D5
24mm	4106- <u>X</u> 24
24.5mm	4106- <u>X</u> 24D5
25mm	4106- <u>X</u> 25
30mm	4106- <u>X</u> 30
40mm	4106- <u>X</u> 40
41.3mm	4106- <u>X</u> 41D3
50mm	4106- <u>X</u> 50
60mm	4106- <u>X</u> 60
70mm	4106- <u>X</u> 70
75mm	4106- <u>X</u> 75
80mm	4106- <u>X</u> 80
90mm	4106- <u>X</u> 90
100mm	4106- <u>X</u> 100
125mm	4106- <u>X</u> 125
131.4mm	4106- <u>X</u> 131D4
150mm	4106- <u>X</u> 150

STEEL GAUGE BLOCK SET



4100-87

- Made of alloy steel
- Meet ISO3650
- Supplied with inspection certificate

Blocks per set	Blocks included in set			Code		
	Size (mm)	Step (mm)	Quantity	Grade 0	Grade 1	Grade 2
122	1.0005		1	4100-122	4100-1122	4100-2122
	1.001-1.009	0.001	9			
	1.01-1.49	0.01	49			
	1.6-1.9	0.1	4			
	0.5-24.5	0.5	49			
	30-100	10	8			
	25-75	50	2			
112	1.0005		1	4100-112	4100-1112	4100-2112
	1.001-1.009	0.001	9			
	1.01-1.49	0.01	49			
	0.5-24.5	0.5	49			
	25-100	25	4			
103	1.005		1	4100-103	4100-1103	4100-2103
	1.01-1.49	0.01	49			
	0.5-24.5	0.5	49			
	25-100	25	4			
88	1.0005		1	4100-88	4100-188	4100-288
	1.001-1.009	0.001	9			
	1.01-1.49	0.01	49			
	0.5-9.5	0.5	19			
	10-100	10	10			
87	1.001-1.009	0.001	9	4100-87	4100-187	4100-287
	1.01-1.49	0.01	49			
	0.5-9.5	0.5	19			
	10-100	10	10			
83	0.5		1	4100-83	4100-183	4100-283
	1		1			
	1.005		1			
	1.01-1.49	0.01	49			
	1.5-1.9	0.1	5			
	2-9.5	0.5	16			
	10-100	10	10			

To be continued

Continued from page H4

Blocks per set	Blocks included in set			Code		
	Size (mm)	Step (mm)	Quantity	Grade 0	Grade 1	Grade 2
76	1.005		1	4100-76	4100-176	4100-276
	1.01-1.49	0.01	49			
	0.5-9.5	0.5	19			
	10-40	10	4			
	50-100	25	3			
56	0.5		1	4100-56	4100-156	4100-256
	1.001-1.009	0.001	9			
	1.01-1.09	0.01	9			
	1.1-1.9	0.1	9			
	1-24	1	24			
	25-100	25	4			
47	1.005		1	4100-47A	4100-147A	4100-247A
	1.01-1.09	0.01	9			
	1.1-1.9	0.1	9			
	1-24	1	24			
	25-100	25	4			
47	1.005		1	4100-47	4100-147	4100-247
	1.01-1.19	0.01	19			
	1.2-1.9	0.1	8			
	1-9	1	9			
	10-100	10	10			
46	1.001-1.009	0.001	9	4100-46	4100-146	4100-246
	1.01-1.09	0.01	9			
	1.1-1.9	0.1	9			
	1-9	1	9			
	10-100	10	10			
34	1.0005		1	4100-34	4100-134	4100-234
	1.001-1.009	0.001	9			
	1.01-1.09	0.01	9			
	1.1-1.9	0.1	9			
	1-5	1	5			
	10		1			
32	1.005		1	4100-32	4100-132	4100-232
	1.01-1.09	0.01	9			
	1.1-1.9	0.1	9			
	1-9	1	9			
	10-30	10	3			
	60		1			
9	1.001-1.009	0.001	9	4100-9	4100-19	4100-29
9	0.991-0.999	0.001	9	4100-9A	4100-19A	4100-29A
8	125-175	25	3	4100-8	4100-18	4100-28
	200-250	50	2			
	300-500	100	3			

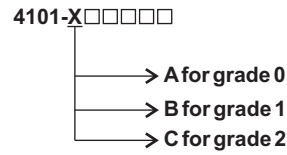
INDIVIDUAL STEEL GAUGE BLOCK



4101-A70

- Made of alloy steel
- Meet ISO3650
- Supplied with inspection certificate
- Grade 0 is not available from 0.25mm to 0.49mm

Code explanation:



Code examples:

Size	Grade	Code
0.5mm	0	4101-AD5
1mm	1	4101-B1
10.5mm	2	4101-C10D5

Size	Code
0.25mm	4101- <u>XD</u> 25
0.26mm	4101- <u>XD</u> 26
0.27mm	4101- <u>XD</u> 27
0.28mm	4101- <u>XD</u> 28
0.29mm	4101- <u>XD</u> 29
0.3mm	4101- <u>XD</u> 3
0.31mm	4101- <u>XD</u> 31
0.32mm	4101- <u>XD</u> 32
0.33mm	4101- <u>XD</u> 33
0.34mm	4101- <u>XD</u> 34
0.35mm	4101- <u>XD</u> 35
0.36mm	4101- <u>XD</u> 36
0.37mm	4101- <u>XD</u> 37
0.38mm	4101- <u>XD</u> 38
0.39mm	4101- <u>XD</u> 39
0.4mm	4101- <u>XD</u> 4
0.41mm	4101- <u>XD</u> 41
0.42mm	4101- <u>XD</u> 42
0.43mm	4101- <u>XD</u> 43
0.44mm	4101- <u>XD</u> 44
0.45mm	4101- <u>XD</u> 45
0.46mm	4101- <u>XD</u> 46
0.47mm	4101- <u>XD</u> 47
0.48mm	4101- <u>XD</u> 48
0.49mm	4101- <u>XD</u> 49
0.5mm	4101- <u>XD</u> 5
0.51mm	4101- <u>XD</u> 51
0.52mm	4101- <u>XD</u> 52
0.53mm	4101- <u>XD</u> 53
0.54mm	4101- <u>XD</u> 54

Size	Code
0.55mm	4101- <u>XD</u> 55
0.56mm	4101- <u>XD</u> 56
0.57mm	4101- <u>XD</u> 57
0.58mm	4101- <u>XD</u> 58
0.59mm	4101- <u>XD</u> 59
0.6mm	4101- <u>XD</u> 6
0.61mm	4101- <u>XD</u> 61
0.62mm	4101- <u>XD</u> 62
0.63mm	4101- <u>XD</u> 63
0.64mm	4101- <u>XD</u> 64
0.65mm	4101- <u>XD</u> 65
0.66mm	4101- <u>XD</u> 66
0.67mm	4101- <u>XD</u> 67
0.68mm	4101- <u>XD</u> 68
0.69mm	4101- <u>XD</u> 69
0.7mm	4101- <u>XD</u> 7
0.71mm	4101- <u>XD</u> 71
0.72mm	4101- <u>XD</u> 72
0.73mm	4101- <u>XD</u> 73
0.74mm	4101- <u>XD</u> 74
0.75mm	4101- <u>XD</u> 75
0.76mm	4101- <u>XD</u> 76
0.77mm	4101- <u>XD</u> 77
0.78mm	4101- <u>XD</u> 78
0.79mm	4101- <u>XD</u> 79
0.8mm	4101- <u>XD</u> 8
0.81mm	4101- <u>XD</u> 81
0.82mm	4101- <u>XD</u> 82
0.83mm	4101- <u>XD</u> 83
0.84mm	4101- <u>XD</u> 84

Size	Code
0.85mm	4101- <u>XD</u> 85
0.86mm	4101- <u>XD</u> 86
0.87mm	4101- <u>XD</u> 87
0.88mm	4101- <u>XD</u> 88
0.89mm	4101- <u>XD</u> 89
0.9mm	4101- <u>XD</u> 9
0.91mm	4101- <u>XD</u> 91
0.92mm	4101- <u>XD</u> 92
0.93mm	4101- <u>XD</u> 93
0.94mm	4101- <u>XD</u> 94
0.95mm	4101- <u>XD</u> 95
0.96mm	4101- <u>XD</u> 96
0.97mm	4101- <u>XD</u> 97
0.98mm	4101- <u>XD</u> 98
0.99mm	4101- <u>XD</u> 99
0.991mm	4101- <u>XD</u> 991
0.992mm	4101- <u>XD</u> 992
0.993mm	4101- <u>XD</u> 993
0.994mm	4101- <u>XD</u> 994
0.995mm	4101- <u>XD</u> 995
0.996mm	4101- <u>XD</u> 996
0.997mm	4101- <u>XD</u> 997
0.998mm	4101- <u>XD</u> 998
0.999mm	4101- <u>XD</u> 999
1mm	4101- <u>X</u> 1
1.0005mm	4101- <u>X1D</u> 0005
1.001mm	4101- <u>X1D</u> 001
1.002mm	4101- <u>X1D</u> 002
1.003mm	4101- <u>X1D</u> 003
1.004mm	4101- <u>X1D</u> 004

Size	Code
1.005mm	4101- <u>X1D</u> 005
1.006mm	4101- <u>X1D</u> 006
1.007mm	4101- <u>X1D</u> 007
1.008mm	4101- <u>X1D</u> 008
1.009mm	4101- <u>X1D</u> 009
1.01mm	4101- <u>X1D</u> 01
1.02mm	4101- <u>X1D</u> 02
1.03mm	4101- <u>X1D</u> 03
1.04mm	4101- <u>X1D</u> 04
1.05mm	4101- <u>X1D</u> 05
1.06mm	4101- <u>X1D</u> 06
1.07mm	4101- <u>X1D</u> 07
1.08mm	4101- <u>X1D</u> 08
1.09mm	4101- <u>X1D</u> 09
1.1mm	4101- <u>X1D</u> 1
1.11mm	4101- <u>X1D</u> 11
1.12mm	4101- <u>X1D</u> 12
1.13mm	4101- <u>X1D</u> 13
1.14mm	4101- <u>X1D</u> 14
1.15mm	4101- <u>X1D</u> 15
1.16mm	4101- <u>X1D</u> 16
1.17mm	4101- <u>X1D</u> 17
1.18mm	4101- <u>X1D</u> 18
1.19mm	4101- <u>X1D</u> 19
1.2mm	4101- <u>X1D</u> 2
1.21mm	4101- <u>X1D</u> 21
1.22mm	4101- <u>X1D</u> 22
1.23mm	4101- <u>X1D</u> 23
1.24mm	4101- <u>X1D</u> 24
1.25mm	4101- <u>X1D</u> 25

To be continued

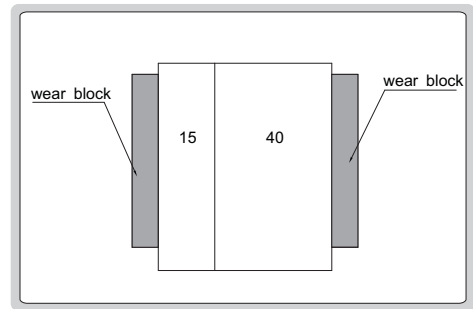
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Size	Code	Size	Code	Size	Code	Size	Code
1.26mm	4101-X1D26	2.05mm	4101-X2D05	2.49mm	4101-X2D49	19.5mm	4101-X19D5
1.27mm	4101-X1D27	2.06mm	4101-X2D06	2.5mm	4101-X2D5	20mm	4101-X20
1.28mm	4101-X1D28	2.07mm	4101-X2D07	2.6mm	4101-X2D6	20.2mm	4101-X20D2
1.29mm	4101-X1D29	2.08mm	4101-X2D08	2.7mm	4101-X2D7	20.5mm	4101-X20D5
1.3mm	4101-X1D3	2.09mm	4101-X2D09	2.8mm	4101-X2D8	21mm	4101-X21
1.31mm	4101-X1D31	2.1mm	4101-X2D1	2.9mm	4101-X2D9	21.5mm	4101-X21D5
1.32mm	4101-X1D32	2.11mm	4101-X2D11	3mm	4101-X3	22mm	4101-X22
1.33mm	4101-X1D33	2.12mm	4101-X2D12	3.5mm	4101-X3D5	22.5mm	4101-X22D5
1.34mm	4101-X1D34	2.13mm	4101-X2D13	4mm	4101-X4	22.8mm	4101-X22D8
1.35mm	4101-X1D35	2.14mm	4101-X2D14	4.5mm	4101-X4D5	23mm	4101-X23
1.36mm	4101-X1D36	2.15mm	4101-X2D15	5mm	4101-X5	23.5mm	4101-X23D5
1.37mm	4101-X1D37	2.16mm	4101-X2D16	5.1mm	4101-X5D1	24mm	4101-X24
1.38mm	4101-X1D38	2.17mm	4101-X2D17	5.5mm	4101-X5D5	24.5mm	4101-X24D5
1.39mm	4101-X1D39	2.18mm	4101-X2D18	6mm	4101-X6	25mm	4101-X25
1.4mm	4101-X1D4	2.19mm	4101-X2D19	6.5mm	4101-X6D5	25.25mm	4101-X25D25
1.41mm	4101-X1D41	2.2mm	4101-X2D2	7mm	4101-X7	30mm	4101-X30
1.42mm	4101-X1D42	2.21mm	4101-X2D21	7.5mm	4101-X7D5	35mm	4101-X35
1.43mm	4101-X1D43	2.22mm	4101-X2D22	7.7mm	4101-X7D7	40mm	4101-X40
1.44mm	4101-X1D44	2.23mm	4101-X2D23	8mm	4101-X8	41.3mm	4101-X41D3
1.45mm	4101-X1D45	2.24mm	4101-X2D24	8.5mm	4101-X8D5	45mm	4101-X45
1.46mm	4101-X1D46	2.25mm	4101-X2D25	9mm	4101-X9	50mm	4101-X50
1.47mm	4101-X1D47	2.26mm	4101-X2D26	9.5mm	4101-X9D5	60mm	4101-X60
1.48mm	4101-X1D48	2.27mm	4101-X2D27	10mm	4101-X10	70mm	4101-X70
1.49mm	4101-X1D49	2.28mm	4101-X2D28	10.3mm	4101-X10D3	75mm	4101-X75
1.5mm	4101-X1D5	2.29mm	4101-X2D29	10.5mm	4101-X10D5	80mm	4101-X80
1.6mm	4101-X1D6	2.3mm	4101-X2D3	11mm	4101-X11	90mm	4101-X90
1.7mm	4101-X1D7	2.31mm	4101-X2D31	11.5mm	4101-X11D5	100mm	4101-X100
1.8mm	4101-X1D8	2.32mm	4101-X2D32	12mm	4101-X12	125mm	4101-X125
1.9mm	4101-X1D9	2.33mm	4101-X2D33	12.5mm	4101-X12D5	131.4mm	4101-X131D4
2mm	4101-X2	2.34mm	4101-X2D34	12.9mm	4101-X12D9	150mm	4101-X150
2.0005mm	4101-X2D0005	2.35mm	4101-X2D35	13mm	4101-X13	175mm	4101-X175
2.001mm	4101-X2D001	2.36mm	4101-X2D36	13.5mm	4101-X13D5	200mm	4101-X200
2.002mm	4101-X2D002	2.37mm	4101-X2D37	14mm	4101-X14	250mm	4101-X250
2.003mm	4101-X2D003	2.38mm	4101-X2D38	14.5mm	4101-X14D5	300mm	4101-X300
2.004mm	4101-X2D004	2.39mm	4101-X2D39	15mm	4101-X15	400mm	4101-X400
2.005mm	4101-X2D005	2.4mm	4101-X2D4	15.5mm	4101-X15D5	500mm	4101-X500
2.006mm	4101-X2D006	2.41mm	4101-X2D41	16mm	4101-X16	600mm	4101-X600
2.007mm	4101-X2D007	2.42mm	4101-X2D42	16.5mm	4101-X16D5	700mm	4101-X700
2.008mm	4101-X2D008	2.43mm	4101-X2D43	17mm	4101-X17	750mm	4101-X750
2.009mm	4101-X2D009	2.44mm	4101-X2D44	17.5mm	4101-X17D5	800mm	4101-X800
2.01mm	4101-X2D01	2.45mm	4101-X2D45	17.6mm	4101-X17D6	900mm	4101-X900
2.02mm	4101-X2D02	2.46mm	4101-X2D46	18mm	4101-X18	1000mm	4101-X1000
2.03mm	4101-X2D03	2.47mm	4101-X2D47	18.5mm	4101-X18D5		
2.04mm	4101-X2D04	2.48mm	4101-X2D48	19mm	4101-X19		

WEAR BLOCK SET



4111-2



Blocks per set	Size	Material	Code	
			Grade 0	Grade 1
2	1.0mm	ceramic	4111-1	4111-11
2	1.0mm	alloy steel	4111-1A	4111-11A
2	2.0mm	ceramic	4111-2	4111-12
2	2.0mm	alloy steel	4111-2A	4111-12A

- Protect the measuring surfaces of gauge blocks from excessive wear
- Meet ISO3650
- Supplied with inspection certificate

MICROMETER INSPECTION GAUGE BLOCK SET



4107-10

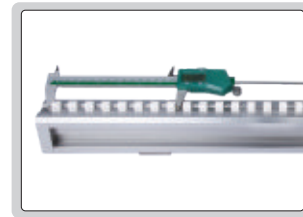
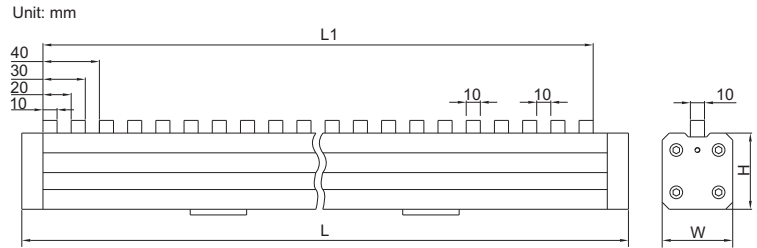
- One piece of optical parallel in each set
- Meet ISO3650/grade 0

Code	Material	Blocks and parallel included in set	Applicable micrometer
4107-10	ceramic	2.5mm, 5.1mm, 7.7mm, 10.3mm, 12.9mm, 15mm, 17.6mm, 20.2mm, 22.8mm, 25mm, optical parallel	0-25mm
4107-101	alloy steel	2.5mm, 5.1mm, 7.7mm, 10.3mm, 12.9mm, 15mm, 17.6mm, 20.2mm, 22.8mm, 25mm, optical parallel	0-25mm

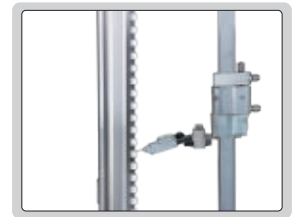
CHECK MASTER



6882-600A



horizontal orientation



vertical orientation

- To check the accuracy of table movement of machine tools, to calibrate height gauges and CMMs
- Ceramic gauge blocks
- Can be used in either vertical and horizontal orientation
- Supplied with inspection certificate

(mm)

Code	Range	Step	Accuracy	Parallelism of blocks	L	L1	H	W
6882-300A	300mm	10mm	±2.5µm	1.2µm	350	310	49	45
6882-450A	450mm	10mm	±3.5µm	1.5µm	510	470	54	50
6882-600A	600mm	10mm	±3.5µm	1.5µm	650	610	54	50

ANGLE GAUGE BLOCK SET

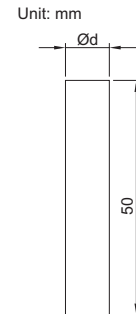
Code	Blocks per set	Angle	Step	Quantity
4109-7A	7	15°10'		1
		30°20'		1
		45°30'		1
		50°		1
		60°40'		1
		75°50'		1
		90°/90°/90°/90°		1
4109-36A	36	10° - 20°	1°	11
		30° - 70°	10°	5
		45°		1
		15°10' - 15°50'	10'	5
		15°1' - 15°9'	1'	9
		10°00'30"		1
		80°/81°/100°/99°		1
		89°10'/89°20'/90°50'/90°40'		1
		89°30'/89°40'/90°30'/90°20'		1
		90°/90°/90°/90°		1



4109-7A

- Standard for angle measurement
- Accuracy ±10"

PIN GAUGE SET



4166-6D

- Made of alloy steel
- Hardness HRC62-65

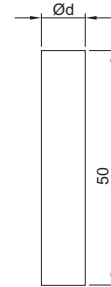
Code	Diameter Ød(mm)	Step	Pin gauges per set	Diameter accuracy
4166-0D	0.20, 0.21, 0.22, … 0.50	0.01mm	31	±1µm
4166-1	0.50, 0.51, 0.52, … 1.00	0.01mm	51	±1µm
4166-1D	1.00, 1.01, 1.02, … 1.50	0.01mm	51	±1µm
4166-2	1.50, 1.51, 1.52, … 2.00	0.01mm	51	±1µm
4166-2D	2.00, 2.01, 2.02, … 2.50	0.01mm	51	±1µm
4166-3	2.50, 2.51, 2.52, … 3.00	0.01mm	51	±1µm
4166-3D	3.00, 3.01, 3.02, … 3.50	0.01mm	51	±1µm
4166-4	3.50, 3.51, 3.52, … 4.00	0.01mm	51	±1µm
4166-4D	4.00, 4.01, 4.02, … 4.50	0.01mm	51	±1µm
4166-5	4.50, 4.51, 4.52, … 5.00	0.01mm	51	±1µm
4166-5D	5.00, 5.01, 5.02, … 5.50	0.01mm	51	±1µm
4166-6	5.50, 5.51, 5.52, … 6.00	0.01mm	51	±1µm
4166-6D	6.00, 6.01, 6.02, … 6.50	0.01mm	51	±1µm
4166-7	6.50, 6.51, 6.52, … 7.00	0.01mm	51	±1µm
4166-7D	7.00, 7.01, 7.02, … 7.50	0.01mm	51	±1µm
4166-8	7.50, 7.51, 7.52, … 8.00	0.01mm	51	±1µm
4166-8D	8.00, 8.01, 8.02, … 8.50	0.01mm	51	±1µm
4166-9	8.50, 8.51, 8.52, … 9.00	0.01mm	51	±1µm
4166-9D	9.00, 9.01, 9.02, … 9.50	0.01mm	51	±1µm
4166-10	9.50, 9.51, 9.52, … 10.00	0.01mm	51	±1µm
4166-411	1.0, 1.1, 1.2, … 5.0	0.1mm	41	±1µm
4166-511	5.0, 5.1, 5.2, … 10.0	0.1mm	51	±1µm

INDIVIDUAL PIN GAUGE



4110-9D98

Unit: mm



- Diameter range: Ø0.20 - Ø10.00mm
- Diameter accuracy: ±1µm
- Made of alloy steel
- Hardness HRC62-65
- Optional accessory: wooden box (code 7340)

Code
4110-xxxx

Ordering examples:

Diameter	Code
0.21mm	4110-0D21
5.56mm	4110-5D56
8.00mm	4110-8D00

Note: "D" stands for "."

Diameter Ød(mm)	
0.20, 0.21, 0.22, 0.23,	1.00
1.01, 1.02, 1.03, 1.04,	2.00
2.01, 2.02, 2.03, 2.04,	3.00
3.01, 3.02, 3.03, 3.04,	4.00
4.01, 4.02, 4.03, 4.04,	5.00
5.01, 5.02, 5.03, 5.04,	6.00
6.01, 6.02, 6.03, 6.04,	7.00
7.01, 7.02, 7.03, 7.04,	8.00
8.01, 8.02, 8.03, 8.04,	9.00
9.01, 9.02, 9.03, 9.04,	10.00

BOX FOR PIN GAUGES



7340

- Accept maximum 51 individual pin gauges (series 4110)

Code
7340

PLAIN PLUG GAUGE

- Supplied with Go and No-Go gauges together
- Class H7
- Hardness HRC 60±2

Code	Size	Code	Size
4124-2	2mm	4124-24	24mm
4124-3	3mm	4124-27	27mm
4124-4	4mm	4124-30	30mm
4124-5	5mm	4124-32	32mm
4124-6	6mm	4124-35	35mm
4124-8	8mm	4124-40	40mm
4124-10	10mm	4124-42	42mm
4124-12	12mm	4124-45	45mm
4124-14	14mm	4124-50	50mm
4124-15	15mm	4124-55	55mm
4124-18	18mm	4124-60	60mm
4124-20	20mm		



4124-10

THREAD PLUG GAUGE



4130-10

- Supplied with Go and No-Go gauges together
- Class 6H
- Standard ISO1502

Individual

Code	Size(mm)
4130-2	M2x0.4
4130-2D2	M2.2x0.45
4130-2D5	M2.5x0.45
4130-3	M3x0.5
4130-3D5	M3.5x0.6
4130-4	M4x0.7
4130-5	M5x0.8
4130-6	M6x1

Code	Size(mm)
4130-7	M7x1
4130-8	M8x1.25
4130-9	M9x1.25
4130-10	M10x1.5
4130-11	M11x1.5
4130-12	M12x1.75
4130-14	M14x2
4130-16	M16x2

Code	Size(mm)
4130-18	M18x2.5
4130-20	M20x2.5
4130-22	M22x2.5
4130-24	M24x3
4130-27	M27x3
4130-30	M30x3.5
4130-33	M33x3.5
4130-36	M36x4

Code	Size(mm)
4130-39	M39x4
4130-42	M42x4.5
4130-45	M45x4.5
4130-48	M48x5
4130-52	M52x5
4130-56	M56x5.5
4130-60	M60x5.5

Set

Code	Thread plug gauges included
4130-S7	M3x0.5(4130-3), M4x0.7(4130-4), M5x0.8(4130-5), M6x1(4130-6), M8x1.25(4130-8), M10x1.5(4130-10), M12x1.75(4130-12)

FINE THREAD PLUG GAUGE



4139-20R

- Supplied with Go and No-Go gauges together
- Class 6H
- Standard ISO1502

Code	Size(mm)	Code	Size(mm)	Code	Size(mm)	Code	Size(mm)	Code	Size(mm)
4139-2B	M2x0.25	4139-11L	M11x0.75	4139-20L	M20x0.75	4139-33L	M33x0.75	4139-45X	M45x4
4139-2D2B	M2.2x0.25	4139-11P	M11x1	4139-20P	M20x1	4139-33P	M33x1	4139-48P	M48x1
4139-2D5D	M2.5x0.35	4139-12G	M12x0.5	4139-20R	M20x1.5	4139-33R	M33x1.5	4139-48R	M48x1.5
4139-3D	M3x0.35	4139-12L	M12x0.75	4139-20T	M20x2	4139-33T	M33x2	4139-48T	M48x2
4139-3D5D	M3.5x0.35	4139-12P	M12x1	4139-22G	M22x0.5	4139-33V	M33x3	4139-48V	M48x3
4139-4G	M4x0.5	4139-12Q	M12x1.25	4139-22L	M22x0.75	4139-36P	M36x1	4139-48X	M48x4
4139-5G	M5x0.5	4139-12R	M12x1.5	4139-22P	M22x1	4139-36R	M36x1.5	4139-52P	M52x1
4139-6G	M6x0.5	4139-14G	M14x0.5	4139-22R	M22x1.5	4139-36T	M36x2	4139-52R	M52x1.5
4139-6L	M6x0.75	4139-14L	M14x0.75	4139-22T	M22x2	4139-36V	M36x3	4139-52T	M52x2
4139-7G	M7x0.5	4139-14P	M14x1	4139-24L	M24x0.75	4139-39P	M39x1	4139-52V	M52x3
4139-7L	M7x0.75	4139-14Q	M14x1.25	4139-24P	M24x1	4139-39R	M39x1.5	4139-52X	M52x4
4139-8G	M8x0.5	4139-14R	M14x1.5	4139-24R	M24x1.5	4139-39T	M39x2	4139-56P	M56x1
4139-8L	M8x0.75	4139-16G	M16x0.5	4139-24T	M24x2	4139-39V	M39x3	4139-56R	M56x1.5
4139-8P	M8x1	4139-16L	M16x0.75	4139-27L	M27x0.75	4139-42P	M42x1	4139-56T	M56x2
4139-9G	M9x0.5	4139-16P	M16x1	4139-27P	M27x1	4139-42R	M42x1.5	4139-56V	M56x3
4139-9L	M9x0.75	4139-16R	M16x1.5	4139-27R	M27x1.5	4139-42T	M42x2	4139-56X	M56x4
4139-9P	M9x1	4139-18G	M18x0.5	4139-27T	M27x2	4139-42V	M42x3	4139-60P	M60x1
4139-10G	M10x0.5	4139-18L	M18x0.75	4139-30L	M30x0.75	4139-42X	M42x4	4139-60R	M60x1.5
4139-10L	M10x0.75	4139-18P	M18x1	4139-30P	M30x1	4139-45P	M45x1	4139-60T	M60x2
4139-10P	M10x1	4139-18R	M18x1.5	4139-30R	M30x1.5	4139-45R	M45x1.5	4139-60V	M60x3
4139-10Q	M10x1.25	4139-18T	M18x2	4139-30T	M30x2	4139-45T	M45x2	4139-60X	M60x4
4139-11G	M11x0.5	4139-20G	M20x0.5	4139-30V	M30x3	4139-45V	M45x3		

THREAD RING GAUGE



4120-20



4120-20N

- Go and No-Go gauges are supplied separately
- Class 6g
- Standard ISO1502

Individual

Code Go	Code No Go	Size(mm)
4120-2	4120-2N	M2x0.4
4120-2D2	4120-2D2N	M2.2x0.45
4120-2D5	4120-2D5N	M2.5x0.45
4120-3	4120-3N	M3x0.5
4120-3D5	4120-3D5N	M3.5x0.6
4120-4	4120-4N	M4x0.7
4120-5	4120-5N	M5x0.8
4120-6	4120-6N	M6x1
4120-7	4120-7N	M7x1
4120-8	4120-8N	M8x1.25
4120-9	4120-9N	M9x1.25

Code Go	Code No Go	Size(mm)
4120-10	4120-10N	M10x1.5
4120-11	4120-11N	M11x1.5
4120-12	4120-12N	M12x1.75
4120-14	4120-14N	M14x2
4120-16	4120-16N	M16x2
4120-18	4120-18N	M18x2.5
4120-20	4120-20N	M20x2.5
4120-22	4120-22N	M22x2.5
4120-24	4120-24N	M24x3
4120-27	4120-27N	M27x3
4120-30	4120-30N	M30x3.5

Code Go	Code No Go	Size(mm)
4120-33	4120-33N	M33x3.5
4120-36	4120-36N	M36x4
4120-39	4120-39N	M39x4
4120-42	4120-42N	M42x4.5
4120-45	4120-45N	M45x4.5
4120-48	4120-48N	M48x5
4120-52	4120-52N	M52x5
4120-56	4120-56N	M56x5.5
4120-60	4120-60N	M60x5.5

Go ring gauge set

Code	Thread ring gauges included
4120-S7	M3x0.5(4120-3), M4x0.7(4120-4), M5x0.8(4120-5), M6x1(4120-6), M8x1.25(4120-8), M10x1.5(4120-10), M12x1.75(4120-12)

No Go ring gauge set

Code	Thread ring gauges included
4120-S7N	M3x0.5(4120-3N), M4x0.7(4120-4N), M5x0.8(4120-5N), M6x1(4120-6N), M8x1.25(4120-8N), M10x1.5(4120-10N), M12x1.75(4120-12N)

FINE THREAD RING GAUGE



4129-20R

4129-20RN

- Go and No-Go gauges are supplied separately
- Class 6g
- Standard ISO1502

Code Go	Code No Go	Size(mm)
4129-2B	4129-2BN	M2x0.25
4129-2D2B	4129-2D2BN	M2.2x0.25
4129-2D5D	4129-2D5DN	M2.5x0.35
4129-3D	4129-3DN	M3x0.35
4129-3D5D	4129-3D5DN	M3.5x0.35
4129-4G	4129-4GN	M4x0.5
4129-5G	4129-5GN	M5x0.5
4129-6G	4129-6GN	M6x0.5
4129-6L	4129-6LN	M6x0.75
4129-7G	4129-7GN	M7x0.5
4129-7L	4129-7LN	M7x0.75
4129-8G	4129-8GN	M8x0.5
4129-8L	4129-8LN	M8x0.75
4129-8P	4129-8PN	M8x1
4129-9G	4129-9GN	M9x0.5
4129-9L	4129-9LN	M9x0.75
4129-9P	4129-9PN	M9x1
4129-10G	4129-10GN	M10x0.5
4129-10L	4129-10LN	M10x0.75
4129-10P	4129-10PN	M10x1
4129-10Q	4129-10QN	M10x1.25
4129-11G	4129-11GN	M11x0.5
4129-11L	4129-11LN	M11x0.75
4129-11P	4129-11PN	M11x1
4129-12G	4129-12GN	M12x0.5
4129-12L	4129-12LN	M12x0.75
4129-12P	4129-12PN	M12x1
4129-12Q	4129-12QN	M12x1.25
4129-12R	4129-12RN	M12x1.5
4129-14G	4129-14GN	M14x0.5
4129-14L	4129-14LN	M14x0.75
4129-14P	4129-14PN	M14x1
4129-14Q	4129-14QN	M14x1.25
4129-14R	4129-14RN	M14x1.5
4129-16G	4129-16GN	M16x0.5
4129-16L	4129-16LN	M16x0.75
4129-16P	4129-16PN	M16x1

Code Go	Code No Go	Size(mm)
4129-16R	4129-16RN	M16x1.5
4129-18G	4129-18GN	M18x0.5
4129-18L	4129-18LN	M18x0.75
4129-18P	4129-18PN	M18x1
4129-18R	4129-18RN	M18x1.5
4129-18T	4129-18TN	M18x2
4129-20G	4129-20GN	M20x0.5
4129-20L	4129-20LN	M20x0.75
4129-20P	4129-20PN	M20x1
4129-20R	4129-20RN	M20x1.5
4129-20T	4129-20TN	M20x2
4129-22G	4129-22GN	M22x0.5
4129-22L	4129-22LN	M22x0.75
4129-22P	4129-22PN	M22x1
4129-22R	4129-22RN	M22x1.5
4129-22T	4129-22TN	M22x2
4129-24L	4129-24LN	M24x0.75
4129-24P	4129-24PN	M24x1
4129-24R	4129-24RN	M24x1.5
4129-24T	4129-24TN	M24x2
4129-27L	4129-27LN	M27x0.75
4129-27P	4129-27PN	M27x1
4129-27R	4129-27RN	M27x1.5
4129-27T	4129-27TN	M27x2
4129-30L	4129-30LN	M30x0.75
4129-30P	4129-30PN	M30x1
4129-30R	4129-30RN	M30x1.5
4129-30T	4129-30TN	M30x2
4129-30V	4129-30VN	M30x3
4129-33L	4129-33LN	M33x0.75
4129-33P	4129-33PN	M33x1
4129-33R	4129-33RN	M33x1.5
4129-33T	4129-33TN	M33x2
4129-33V	4129-33VN	M33x3
4129-36P	4129-36PN	M36x1
4129-36R	4129-36RN	M36x1.5
4129-36T	4129-36TN	M36x2

Code Go	Code No Go	Size(mm)
4129-36V	4129-36VN	M36x3
4129-39P	4129-39PN	M39x1
4129-39R	4129-39RN	M39x1.5
4129-39T	4129-39TN	M39x2
4129-39V	4129-39VN	M39x3
4129-42P	4129-42PN	M42x1
4129-42R	4129-42RN	M42x1.5
4129-42T	4129-42TN	M42x2
4129-42V	4129-42VN	M42x3
4129-42X	4129-42XN	M42x4
4129-45P	4129-45PN	M45x1
4129-45R	4129-45RN	M45x1.5
4129-45T	4129-45TN	M45x2
4129-45V	4129-45VN	M45x3
4129-45X	4129-45XN	M45x4
4129-48P	4129-48PN	M48x1
4129-48R	4129-48RN	M48x1.5
4129-48T	4129-48TN	M48x2
4129-48V	4129-48VN	M48x3
4129-48X	4129-48XN	M48x4
4129-52P	4129-52PN	M52x1
4129-52R	4129-52RN	M52x1.5
4129-52T	4129-52TN	M52x2
4129-52V	4129-52VN	M52x3
4129-52X	4129-52XN	M52x4
4129-56P	4129-56PN	M56x1
4129-56R	4129-56RN	M56x1.5
4129-56T	4129-56TN	M56x2
4129-56V	4129-56VN	M56x3
4129-56X	4129-56XN	M56x4
4129-60P	4129-60PN	M60x1
4129-60R	4129-60RN	M60x1.5
4129-60T	4129-60TN	M60x2
4129-60V	4129-60VN	M60x3
4129-60X	4129-60XN	M60x4