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## GAGE 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 gage blocks of grade 1 and 2.
1	To be used in inspection rooms, to check gages, inspect high accuracy parts and set measuring instruments.
2	To be used in workshops, to check production gages, set measuring instruments and mount tools.

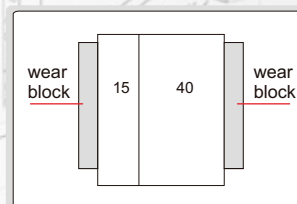
## WEAR BLOCK SETS



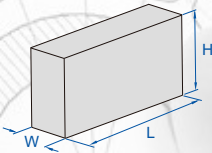
- Protect the measuring surfaces of gage blocks from excessive wear
- Meet ISO3650
- Supplied with manufacturer inspection certificate



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



## CERAMIC GAGE BLOCK SETS



Dimension:

Size(L)	W	H
0.5 ≤ L ≤ 10mm	9mm	30mm
L > 10mm	9mm	35mm

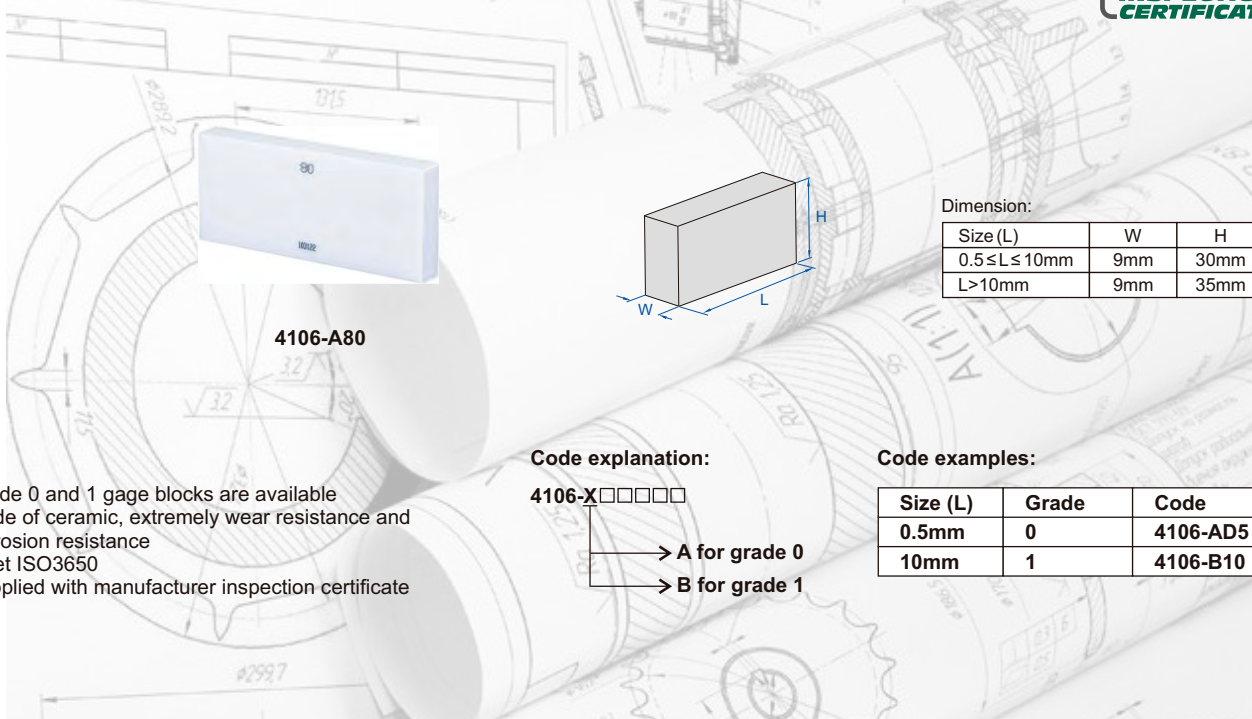


4105-87

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

Blocks per set	Gage blocks included in set			Code		Blocks per set	Gage blocks included in set			Code	
	Size (mm)	Step (mm)	Quantity	Grade 0	Grade 1		Size (mm)	Step (mm)	Quantity	Grade 0	Grade 1
112	1.0005		1	4105-112	4105-1112	47	1.005		1	4105-47A	4105-147A
	1.001-1.009	0.001	9				1.01-1.09	0.01	9		
	1.01-1.49	0.01	49				1.1-1.9	0.1	9		
	0.5-24.5	0.5	49				1-24	1	24		
	25-100	25	4				25-100	25	4		
103	1.005		1	4105-103	4105-1103	47	1.005		1	4105-47	4105-147
	1.01-1.49	0.01	49				1.01-1.19	0.01	19		
	0.5-24.5	0.5	49				1.2-1.9	0.1	8		
	25-100	25	4				1-9	1	9		
88	1.0005		1	4105-88	4105-188	46	10-100	10	10	4105-46	4105-146
	1.001-1.009	0.001	9				1.001-1.009	0.001	9		
	1.01-1.49	0.01	49				1.01-1.09	0.01	9		
	0.5-9.5	0.5	19				1.1-1.9	0.1	9		
	10-100	10	10				1-9	1	9		
87	1.001-1.009	0.001	9	4105-87	4105-187	34	10-100	10	10	4105-34	4105-134
	1.01-1.49	0.01	49				1.0005		1		
	0.5-9.5	0.5	19				1.001-1.009	0.001	9		
	10-100	10	10				1.01-1.09	0.01	9		
76	1.005		1	4105-76	4105-176	32	1.1-1.9	0.1	9	4105-32	4105-132
	1.01-1.49	0.01	49				1-5	1	5		
	0.5-9.5	0.5	19				10		1		
	10-40	10	4				1.005		1		
	50-100	25	3				1.01-1.09	0.01	9		
56	0.5		1	4105-56	4105-156	32	1.1-1.9	0.1	9	4105-32	4105-132
	1.001-1.009	0.001	9				1-9	1	9		
	1.01-1.09	0.01	9				10-30	10	3		
	1.1-1.9	0.1	9				50		1		
	1-24	1	24								
	25-100	25	4								

# CERAMIC INDIVIDUAL GAGE BLOCKS



4106-A80

Dimension:

Size (L)	W	H
0.5 ≤ L ≤ 10mm	9mm	30mm
L > 10mm	9mm	35mm

Code explanation:

4106-X□□□□□

→ A for grade 0

→ B for grade 1

Code examples:

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

- Grade 0 and 1 gage blocks are available
- Made of ceramic, extremely wear resistance and corrosion resistance
- Meet ISO3650
- Supplied with manufacturer inspection certificate

Size	Code	Size	Code	Size	Code	Size	Code
0.5mm	4106-XD5	1.23mm	4106-X1D23	3mm	4106-X3	17.6mm	4106-X17D6
1mm	4106-X1	1.24mm	4106-X1D24	3.5mm	4106-X3D5	18mm	4106-X18
1.0005mm	4106-X1D0005	1.25mm	4106-X1D25	4mm	4106-X4	18.5mm	4106-X18D5
1.001mm	4106-X1D001	1.26mm	4106-X1D26	4.5mm	4106-X4D5	19mm	4106-X19
1.002mm	4106-X1D002	1.27mm	4106-X1D27	5mm	4106-X5	19.5mm	4106-X19D5
1.003mm	4106-X1D003	1.28mm	4106-X1D28	5.1mm	4106-X5D1	20mm	4106-X20
1.004mm	4106-X1D004	1.29mm	4106-X1D29	5.5mm	4106-X5D5	20.2mm	4106-X20D2
1.005mm	4106-X1D005	1.3mm	4106-X1D3	6mm	4106-X6	20.5mm	4106-X20D5
1.006mm	4106-X1D006	1.31mm	4106-X1D31	6.5mm	4106-X6D5	21mm	4106-X21
1.007mm	4106-X1D007	1.32mm	4106-X1D32	7mm	4106-X7	21.5mm	4106-X21D5
1.008mm	4106-X1D008	1.33mm	4106-X1D33	7.5mm	4106-X7D5	22mm	4106-X22
1.009mm	4106-X1D009	1.34mm	4106-X1D34	7.7mm	4106-X7D7	22.5mm	4106-X22D5
1.01mm	4106-X1D01	1.35mm	4106-X1D35	8mm	4106-X8	22.8mm	4106-X22D8
1.02mm	4106-X1D02	1.36mm	4106-X1D36	8.5mm	4106-X8D5	23mm	4106-X23
1.03mm	4106-X1D03	1.37mm	4106-X1D37	9mm	4106-X9	23.5mm	4106-X23D5
1.04mm	4106-X1D04	1.38mm	4106-X1D38	9.5mm	4106-X9D5	24mm	4106-X24
1.05mm	4106-X1D05	1.39mm	4106-X1D39	10mm	4106-X10	24.5mm	4106-X24D5
1.06mm	4106-X1D06	1.4mm	4106-X1D4	10.3mm	4106-X10D3	25mm	4106-X25
1.07mm	4106-X1D07	1.41mm	4106-X1D41	10.5mm	4106-X10D5	30mm	4106-X30
1.08mm	4106-X1D08	1.42mm	4106-X1D42	11mm	4106-X11	40mm	4106-X40
1.09mm	4106-X1D09	1.43mm	4106-X1D43	11.5mm	4106-X11D5	41.3mm	4106-X41D3
1.1mm	4106-X1D1	1.44mm	4106-X1D44	12mm	4106-X12	50mm	4106-X50
1.11mm	4106-X1D11	1.45mm	4106-X1D45	12.5mm	4106-X12D5	60mm	4106-X60
1.12mm	4106-X1D12	1.46mm	4106-X1D46	12.9mm	4106-X12D9	70mm	4106-X70
1.13mm	4106-X1D13	1.47mm	4106-X1D47	13mm	4106-X13	75mm	4106-X75
1.14mm	4106-X1D14	1.48mm	4106-X1D48	13.5mm	4106-X13D5	80mm	4106-X80
1.15mm	4106-X1D15	1.49mm	4106-X1D49	14mm	4106-X14	90mm	4106-X90
1.16mm	4106-X1D16	1.5mm	4106-X1D5	14.5mm	4106-X14D5	100mm	4106-X100
1.17mm	4106-X1D17	1.6mm	4106-X1D6	15mm	4106-X15	125mm	4106-X125
1.18mm	4106-X1D18	1.7mm	4106-X1D7	15.5mm	4106-X15D5	131.4mm	4106-X131D4
1.19mm	4106-X1D19	1.8mm	4106-X1D8	16mm	4106-X16	150mm	4106-X150
1.2mm	4106-X1D2	1.9mm	4106-X1D9	16.5mm	4106-X16D5		
1.21mm	4106-X1D21	2mm	4106-X2	17mm	4106-X17		
1.22mm	4106-X1D22	2.5mm	4106-X2D5	17.5mm	4106-X17D5		

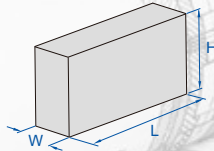
**CUSTOM-MADE**  
CAN SUPPLY ANY SIZES FROM  
0.5 TO 100MM, SUCH AS 70.672MM



## CERAMIC INDIVIDUAL GAGE BLOCKS



4103-A80



Dimension:

Size (L)	W	H
0.5 ≤ L ≤ 10mm	9mm	30mm
L > 10mm	9mm	35mm

### Code explanation:

4103-X□□□□□

- K for grade K
- A for grade 0
- B for grade 1

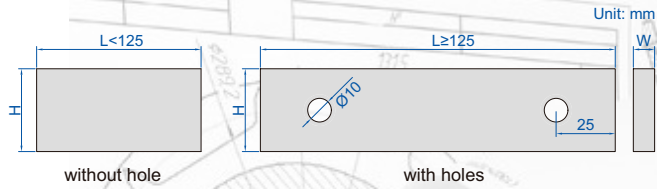
- Grade K, 0 and 1 gage blocks are available
- Made of ceramic, extremely wear resistance and corrosion resistance
- Meet ISO3650
- Supplied with manufacturer inspection certificate

### Code examples:

Size (L)	Grade	Code
0.5mm	K	4103-KD5
10mm	0	4103-A10
10mm	1	4103-B10

Size	Code	Size	Code	Size	Code	Size	Code
0.5mm	4103-XD5	1.23mm	4103-X1D23	3mm	4103-X3	20mm	4103-X20
1mm	4103-X1	1.24mm	4103-X1D24	3.5mm	4103-X3D5	20.5mm	4103-X20D5
1.0005mm	4103-X1D0005	1.25mm	4103-X1D25	4mm	4103-X4	21mm	4103-X21
1.001mm	4103-X1D001	1.26mm	4103-X1D26	4.5mm	4103-X4D5	21.5mm	4103-X21D5
1.002mm	4103-X1D002	1.27mm	4103-X1D27	5mm	4103-X5	22mm	4103-X22
1.003mm	4103-X1D003	1.28mm	4103-X1D28	5.5mm	4103-X5D5	22.5mm	4103-X22D5
1.004mm	4103-X1D004	1.29mm	4103-X1D29	6mm	4103-X6	23mm	4103-X23
1.005mm	4103-X1D005	1.3mm	4103-X1D3	6.5mm	4103-X6D5	23.5mm	4103-X23D5
1.006mm	4103-X1D006	1.31mm	4103-X1D31	7mm	4103-X7	24mm	4103-X24
1.007mm	4103-X1D007	1.32mm	4103-X1D32	7.5mm	4103-X7D5	24.5mm	4103-X24D5
1.008mm	4103-X1D008	1.33mm	4103-X1D33	8mm	4103-X8	25mm	4103-X25
1.009mm	4103-X1D009	1.34mm	4103-X1D34	8.5mm	4103-X8D5	30mm	4103-X30
1.01mm	4103-X1D01	1.35mm	4103-X1D35	9mm	4103-X9	40mm	4103-X40
1.02mm	4103-X1D02	1.36mm	4103-X1D36	9.5mm	4103-X9D5	50mm	4103-X50
1.03mm	4103-X1D03	1.37mm	4103-X1D37	10mm	4103-X10	60mm	4103-X60
1.04mm	4103-X1D04	1.38mm	4103-X1D38	10.5mm	4103-X10D5	70mm	4103-X70
1.05mm	4103-X1D05	1.39mm	4103-X1D39	11mm	4103-X11	75mm	4103-X75
1.06mm	4103-X1D06	1.4mm	4103-X1D4	11.5mm	4103-X11D5	80mm	4103-X80
1.07mm	4103-X1D07	1.41mm	4103-X1D41	12mm	4103-X12	90mm	4103-X90
1.08mm	4103-X1D08	1.42mm	4103-X1D42	12.5mm	4103-X12D5	100mm	4103-X100
1.09mm	4103-X1D09	1.43mm	4103-X1D43	13mm	4103-X13		
1.1mm	4103-X1D1	1.44mm	4103-X1D44	13.5mm	4103-X13D5		
1.11mm	4103-X1D11	1.45mm	4103-X1D45	14mm	4103-X14		
1.12mm	4103-X1D12	1.46mm	4103-X1D46	14.5mm	4103-X14D5		
1.13mm	4103-X1D13	1.47mm	4103-X1D47	15mm	4103-X15		
1.14mm	4103-X1D14	1.48mm	4103-X1D48	15.5mm	4103-X15D5		
1.15mm	4103-X1D15	1.49mm	4103-X1D49	16mm	4103-X16		
1.16mm	4103-X1D16	1.5mm	4103-X1D5	16.5mm	4103-X16D5		
1.17mm	4103-X1D17	1.6mm	4103-X1D6	17mm	4103-X17		
1.18mm	4103-X1D18	1.7mm	4103-X1D7	17.5mm	4103-X17D5		
1.19mm	4103-X1D19	1.8mm	4103-X1D8	18mm	4103-X18		
1.2mm	4103-X1D2	1.9mm	4103-X1D9	18.5mm	4103-X18D5		
1.21mm	4103-X1D21	2mm	4103-X2	19mm	4103-X19		
1.22mm	4103-X1D22	2.5mm	4103-X2D5	19.5mm	4103-X19D5		

## STEEL GAGE BLOCK SETS



Dimension:

Size (L)	W	H
0.5 ≤ L ≤ 10mm	9mm	30mm
L > 10mm	9mm	35mm

Code example:  
"-122" stands for "4100-122"

- Made of alloy steel
- Meet ISO3650
- Gage blocks ≥ 125mm have clamping holes
- Supplied with manufacturer inspection certificate



POPULAR MODEL

4100-87

Blocks per set	Gage blocks included in set			Code (4100)		
	Size (mm)	Step (mm)	Quantity	Grade 0	Grade 1	Grade 2
122	1.0005		1	<b>-122</b>	<b>-1122</b>	<b>-2122</b>
	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	<b>-112</b>	<b>-1112</b>	<b>-2112</b>
	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	<b>-103</b>	<b>-1103</b>	<b>-2103</b>
	1.01-1.49	0.01	49			
	0.5-24.5	0.5	49			
	25-100	25	4			
88	1.0005		1	<b>-88</b>	<b>-188</b>	<b>-288</b>
	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	<b>-87</b>	<b>-187</b>	<b>-287</b>
	1.01-1.49	0.01	49			
	0.5-9.5	0.5	19			
	10-100	10	10			
83	0.5		1	<b>-83</b>	<b>-183</b>	<b>-283</b>
	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				
76	1.005		1	<b>-76</b>	<b>-176</b>	<b>-276</b>
	1.01-1.49	0.01	49			
	0.5-9.5	0.5	19			
	10-40	10	4			
	50-100	25	3			

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

**CUSTOM-MADE**  
CAN SUPPLY ANY SIZES FROM  
0.5 TO 1000MM, SUCH AS 72.672MM

**INSPECTION  
CERTIFICATE**

## STEEL INDIVIDUAL GAGE BLOCKS

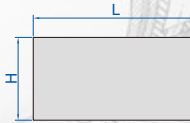


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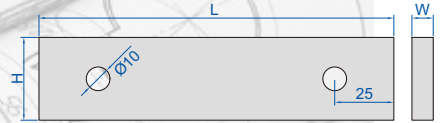


4101-A200

Unit: mm



without hole



with holes

- Grade 0, 1 and 2 gage blocks are available
- Made of alloy steel
- Meet ISO3650
- Gage blocks with clamping holes: 125, 150, 175, 200, 250, 300, 400, 500, 600, 700, 800, 900, 1000mm
- Supplied with manufacturer inspection certificate

**Code explanation:**

4101-X□□□□□

- A for grade 0
- B for grade 1
- C for grade 2

**Code examples:**

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

**Dimension:**

Size (L)	W	H
0.5 ≤ L ≤ 10mm	9mm	30mm
L > 10mm	9mm	35mm

Size	Code	Size	Code	Size	Code	Size	Code
0.5mm	4101-XD5	1.19mm	4101-X1D19	3.5mm	4101-X3D5	20.2mm	4101-X20D2
0.991mm	4101-XD991	1.2mm	4101-X1D2	4mm	4101-X4	20.5mm	4101-X20D5
0.992mm	4101-XD992	1.21mm	4101-X1D21	4.5mm	4101-X4D5	21mm	4101-X21
0.993mm	4101-XD993	1.22mm	4101-X1D22	5mm	4101-X5	21.5mm	4101-X21D5
0.994mm	4101-XD994	1.23mm	4101-X1D23	5.1mm	4101-X5D1	22mm	4101-X22
0.995mm	4101-XD995	1.24mm	4101-X1D24	5.5mm	4101-X5D5	22.5mm	4101-X22D5
0.996mm	4101-XD996	1.25mm	4101-X1D25	6mm	4101-X6	22.8mm	4101-X22D8
0.997mm	4101-XD997	1.26mm	4101-X1D26	6.5mm	4101-X6D5	23mm	4101-X23
0.998mm	4101-XD998	1.27mm	4101-X1D27	7mm	4101-X7	23.5mm	4101-X23D5
0.999mm	4101-XD999	1.28mm	4101-X1D28	7.5mm	4101-X7D5	24mm	4101-X24
1mm	4101-X1	1.29mm	4101-X1D29	7.7mm	4101-X7D7	24.5mm	4101-X24D5
1.0005mm	4101-X1D0005	1.3mm	4101-X1D3	8mm	4101-X8	25mm	4101-X25
1.001mm	4101-X1D001	1.31mm	4101-X1D31	8.5mm	4101-X8D5	30mm	4101-X30
1.002mm	4101-X1D002	1.32mm	4101-X1D32	9mm	4101-X9	35mm	4101-X35
1.003mm	4101-X1D003	1.33mm	4101-X1D33	9.5mm	4101-X9D5	40mm	4101-X40
1.004mm	4101-X1D004	1.34mm	4101-X1D34	10mm	4101-X10	41.3mm	4101-X41D3
1.005mm	4101-X1D005	1.35mm	4101-X1D35	10.3mm	4101-X10D3	45mm	4101-X45
1.006mm	4101-X1D006	1.36mm	4101-X1D36	10.5mm	4101-X10D5	50mm	4101-X50
1.007mm	4101-X1D007	1.37mm	4101-X1D37	11mm	4101-X11	60mm	4101-X60
1.008mm	4101-X1D008	1.38mm	4101-X1D38	11.5mm	4101-X11D5	70mm	4101-X70
1.009mm	4101-X1D009	1.39mm	4101-X1D39	12mm	4101-X12	75mm	4101-X75
1.01mm	4101-X1D01	1.4mm	4101-X1D4	12.5mm	4101-X12D5	80mm	4101-X80
1.02mm	4101-X1D02	1.41mm	4101-X1D41	12.9mm	4101-X12D9	90mm	4101-X90
1.03mm	4101-X1D03	1.42mm	4101-X1D42	13mm	4101-X13	100mm	4101-X100
1.04mm	4101-X1D04	1.43mm	4101-X1D43	13.5mm	4101-X13D5	125mm	4101-X125
1.05mm	4101-X1D05	1.44mm	4101-X1D44	14mm	4101-X14	131.4mm	4101-X131D4
1.06mm	4101-X1D06	1.45mm	4101-X1D45	14.5mm	4101-X14D5	150mm	4101-X150
1.07mm	4101-X1D07	1.46mm	4101-X1D46	15mm	4101-X15	175mm	4101-X175
1.08mm	4101-X1D08	1.47mm	4101-X1D47	15.5mm	4101-X15D5	200mm	4101-X200
1.09mm	4101-X1D09	1.48mm	4101-X1D48	16mm	4101-X16	250mm	4101-X250
1.1mm	4101-X1D1	1.49mm	4101-X1D49	16.5mm	4101-X16D5	300mm	4101-X300
1.11mm	4101-X1D11	1.5mm	4101-X1D5	17mm	4101-X17	400mm	4101-X400
1.12mm	4101-X1D12	1.6mm	4101-X1D6	17.5mm	4101-X17D5	500mm	4101-X500
1.13mm	4101-X1D13	1.7mm	4101-X1D7	17.6mm	4101-X17D6	600mm	4101-X600
1.14mm	4101-X1D14	1.8mm	4101-X1D8	18mm	4101-X18	700mm	4101-X700
1.15mm	4101-X1D15	1.9mm	4101-X1D9	18.5mm	4101-X18D5	750mm	4101-X750
1.16mm	4101-X1D16	2mm	4101-X2	19mm	4101-X19	800mm	4101-X800
1.17mm	4101-X1D17	2.5mm	4101-X2D5	19.5mm	4101-X19D5	900mm	4101-X900
1.18mm	4101-X1D18	3mm	4101-X3	20mm	4101-X20	1000mm	4101-X1000

# STEEL INDIVIDUAL GAGE BLOCKS

**INSIZE PLUS**  
MADE IN EUROPE



CUSTOM-MADE  
CAN SUPPLY ANY SIZES FROM  
0.1 TO 1000MM, SUCH AS 72.672MM



4104-A70

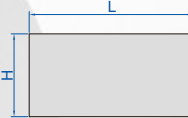


4104-A200

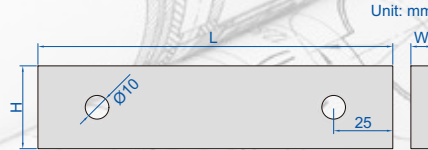
**Code explanation:**

4104-X□□□□□

- K for grade K
- A for grade 0
- B for grade 1



without hole



with holes

Unit: mm

**Code examples:**

Size (L)	Grade	Code
0.5mm	K	4104-KD5
1mm	0	4104-A1
10.5mm	1	4104-B10D5

**Dimension:**

Size (L)	W	H
0.5 ≤ L ≤ 10mm	9mm	30mm
L > 10mm	9mm	35mm

- Grade K, 0 and 1 gage blocks are available
- Made of alloy steel
- Meet ISO3650
- Gage blocks with clamping holes: 125, 150, 175, 200, 250, 300, 400, 500, 600, 700, 800, 900, 1000mm
- Supplied with manufacturer inspection certificate

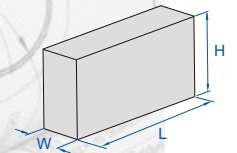
Size	Code	Size	Code	Size	Code	Size	Code
0.1mm	4104-XD1	1.21mm	4104-X1D21	3mm	4104-X3	21mm	4104-X21
0.2mm	4104-XD2	1.22mm	4104-X1D22	3.5mm	4104-X3D5	21.5mm	4104-X21D5
0.3mm	4104-XD3	1.23mm	4104-X1D23	4mm	4104-X4	22mm	4104-X22
0.4mm	4104-XD4	1.24mm	4104-X1D24	4.5mm	4104-X4D5	22.5mm	4104-X22D5
0.5mm	4104-XD5	1.25mm	4104-X1D25	5mm	4104-X5	23mm	4104-X23
1mm	4104-X1	1.26mm	4104-X1D26	5.5mm	4104-X5D5	23.5mm	4104-X23D5
1.0005mm	4104-X1D0005	1.27mm	4104-X1D27	6mm	4104-X6	24mm	4104-X24
1.001mm	4104-X1D001	1.28mm	4104-X1D28	6.5mm	4104-X6D5	24.5mm	4104-X24D5
1.002mm	4104-X1D002	1.29mm	4104-X1D29	7mm	4104-X7	25mm	4104-X25
1.003mm	4104-X1D003	1.3mm	4104-X1D3	7.5mm	4104-X7D5	30mm	4104-X30
1.004mm	4104-X1D004	1.31mm	4104-X1D31	8mm	4104-X8	40mm	4104-X40
1.005mm	4104-X1D005	1.32mm	4104-X1D32	8.5mm	4104-X8D5	50mm	4104-X50
1.006mm	4104-X1D006	1.33mm	4104-X1D33	9mm	4104-X9	60mm	4104-X60
1.007mm	4104-X1D007	1.34mm	4104-X1D34	9.5mm	4104-X9D5	70mm	4104-X70
1.008mm	4104-X1D008	1.35mm	4104-X1D35	10mm	4104-X10	75mm	4104-X75
1.009mm	4104-X1D009	1.36mm	4104-X1D36	10.5mm	4104-X10D5	80mm	4104-X80
1.01mm	4104-X1D01	1.37mm	4104-X1D37	11mm	4104-X11	90mm	4104-X90
1.02mm	4104-X1D02	1.38mm	4104-X1D38	11.5mm	4104-X11D5	100mm	4104-X100
1.03mm	4104-X1D03	1.39mm	4104-X1D39	12mm	4104-X12	125mm	4104-X125
1.04mm	4104-X1D04	1.4mm	4104-X1D4	12.5mm	4104-X12D5	131.4mm	4104-X131D4
1.05mm	4104-X1D05	1.41mm	4104-X1D41	13mm	4104-X13	150mm	4104-X150
1.06mm	4104-X1D06	1.42mm	4104-X1D42	13.5mm	4104-X13D5	175mm	4104-X175
1.07mm	4104-X1D07	1.43mm	4104-X1D43	14mm	4104-X14	200mm	4104-X200
1.08mm	4104-X1D08	1.44mm	4104-X1D44	14.5mm	4104-X14D5	243.5mm	4104-X243D5
1.09mm	4104-X1D09	1.45mm	4104-X1D45	15mm	4104-X15	250mm	4104-X250
1.1mm	4104-X1D1	1.46mm	4104-X1D46	15.5mm	4104-X15D5	281.2mm	4104-X281D2
1.11mm	4104-X1D11	1.47mm	4104-X1D47	16mm	4104-X16	300mm	4104-X300
1.12mm	4104-X1D12	1.48mm	4104-X1D48	16.5mm	4104-X16D5	400mm	4104-X400
1.13mm	4104-X1D13	1.49mm	4104-X1D49	17mm	4104-X17	481.1mm	4104-X481D1
1.14mm	4104-X1D14	1.5mm	4104-X1D5	17.5mm	4104-X17D5	500mm	4104-X500
1.15mm	4104-X1D15	1.6mm	4104-X1D6	18mm	4104-X18	550mm	4104-X550
1.16mm	4104-X1D16	1.7mm	4104-X1D7	18.5mm	4104-X18D5	600mm	4104-X600
1.17mm	4104-X1D17	1.8mm	4104-X1D8	19mm	4104-X19	700mm	4104-X700
1.18mm	4104-X1D18	1.9mm	4104-X1D9	19.5mm	4104-X19D5	800mm	4104-X800
1.19mm	4104-X1D19	2mm	4104-X2	20mm	4104-X20	900mm	4104-X900
1.2mm	4104-X1D2	2.5mm	4104-X2D5	20.5mm	4104-X20D5	1000mm	4104-X1000



## CARBIDE GAGE BLOCK SETS



4164-32



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

Dimension:

Size(L)	W	H
0.5 ≤ L ≤ 10mm	9mm	30mm
L > 10mm	9mm	35mm

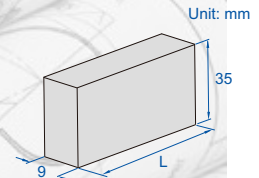
Blocks per set	Gage blocks included in set			Code	
	Size (mm)	Step (mm)	Quantity	Grade 0	Grade 1
122	1.0005		1	4164-122	4164-1122
	1.001-1.009	0.001	9		
	1.01-1.49	0.01	49		
	1.6-1.9	0.1	4		
	0.5-24.5	0.5	49		
	30-100	10	8		
	25-75	50	2		
112	1.0005		1	4164-112	4164-1112
	1.001-1.009	0.001	9		
	1.01-1.49	0.01	49		
	0.5-24.5	0.5	49		
	25-100	25	4		
103	1.005		1	4164-103	4164-1103
	1.01-1.49	0.01	49		
	0.5-24.5	0.5	49		
	25-100	25	4		
87	1.001-1.009	0.001	9	4164-87	4164-187
	1.01-1.49	0.01	49		
	0.5-9.5	0.5	19		
	10-100	10	10		
83	0.5		1	4164-83	4164-183
	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		

Blocks per set	Gage blocks included in set			Code	
	Size (mm)	Step (mm)	Quantity	Grade 0	Grade 1
76	1.005		1	4164-76	4164-176
	1.01-1.49	0.01	49		
	0.5-9.5	0.5	19		
	10-40	10	4		
	50-100	25	3		
47	1.005		1	4164-47A	4164-147A
	1.01-1.09	0.01	9		
	1.1-1.9	0.1	9		
	1-24	1	24		
47	1.005		1	4164-47	4164-147
	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	4164-46	4164-146
	1.01-1.09	0.01	9		
	1.1-1.9	0.1	9		
	1-9	1	9		
	10-100	10	10		
	100-1000	100	1		
32	1.005		1	4164-32	4164-132
	1.01-1.09	0.01	9		
	1.1-1.9	0.1	9		
	1-9	1	9		
	10-30	10	3		
	30-100	10	3		
	50		1		

**CALIPER INSPECTION GAGE BLOCK SET**



**4108-3005**



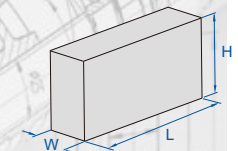
- Meet ISO3650/grade 2
- Supplied with manufacturer inspection certificate

Code	Material	Gage blocks included in set (L)	Applicable calipers
4108-3005	alloy steel	30, 41.3, 131.4, 243.5, 281.2	0-150, 0-200, 0-300

**MICROMETER INSPECTION GAGE BLOCK SETS**



**4107-10**



- One piece of optical flat is included in **4107-10** and **4107-101**
- Meet ISO3650/grade 0
- Supplied with manufacturer inspection certificate

Dimension:

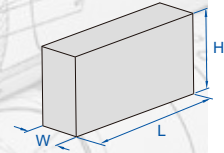
Size (L)	W	H
0.5 ≤ L ≤ 10mm	9mm	30mm
L > 10mm	9mm	35mm

Code	Material	Gage blocks included in set (mm)	Applicable micrometer	Optical flat
4107-10	ceramic	2.5, 5.1, 7.7, 10.3, 12.9, 15, 17.6, 20.2, 22.8, 25, optical flat	0-25mm	included
4107-101	alloy steel	2.5, 5.1, 7.7, 10.3, 12.9, 15, 17.6, 20.2, 22.8, 25, optical flat	0-25mm	included
4107-112	alloy steel	25, 27.5, 30.1, 32.7, 35.3, 37.9, 40, 42.6, 45.2, 47.8, 50	25-50mm	not included
4107-113	alloy steel	50, 52.5, 55.1, 57.7, 60.3, 62.9, 65, 67.6, 70.2, 72.8, 75	50-75mm	not included
4107-114	alloy steel	75, 77.5, 80.1, 82.7, 85.3, 87.9, 90, 92.6, 95.2, 97.8, 100	75-100mm	not included
4107-115	alloy steel	5.12, 10.24, 15.36, 21.5, 25, 30.12, 35.24, 40.36, 46.5, 50, 55.12, 60.24, 65.36, 71.5, 75, 80.12, 85.24, 90.36, 96.5, 100	0-100mm	not included

**INSPECTION  
CERTIFICATE**

**MICROMETER INSPECTION GAGE BLOCK SET**

application



Dimension:

Size (L)	W	H
0.5 ≤ L ≤ 10mm	9mm	30mm
L > 10mm	9mm	35mm

- Meet ISO3650/grade 0
- One piece of optical flat is included (size Ø30x12mm)
- Supplied with manufacturer inspection certificate

4160-10

optical flat (included)

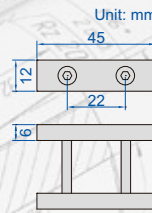


Code	Material	Gage blocks included in set	Applicable micrometer
4160-10	alloy steel	2.5mm, 5.1mm, 7.7mm, 10.3mm, 12.9mm, 15mm, 17.6mm, 20.2mm, 22.8mm, 25mm	0-25mm

**GAGE BLOCK HOLDERS**

- Made of aluminum
- To be used with individual steel gage blocks (code 4101) as Go and No-Go gage

Code	Applicable gage block size
6883-1	1.5-5mm
6883-2	5-10mm
6883-3	10-15mm
6883-4	15-20mm
6883-5	20-25mm



6883-4

to be used as Go and No-Go gage



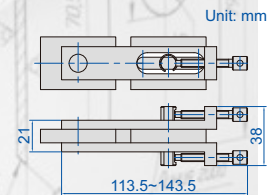
**GAGE BLOCK HOLDER**

- For gage blocks over 125mm with clamping holes
- Optional accessory: gage block holder accessory, gage block accessory (code 6881)

Code  
6886-1



6886-1



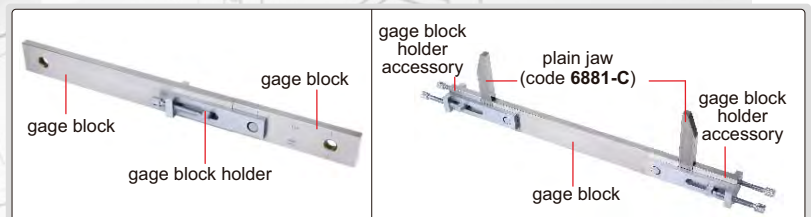
application

**GAGE BLOCK HOLDER ACCESSORY**

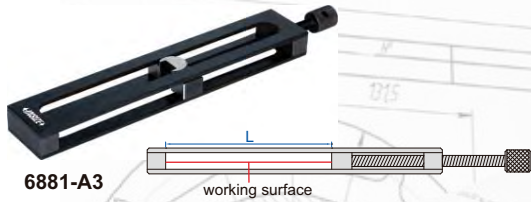


Code  
6886-A

6886-A



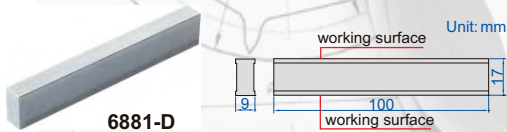
GAGE BLOCK ACCESSORIES



6881-A3

Code	Name	Clamping range* (L)
6881-A1	holder	0-25mm
6881-A2	holder	25-50mm
6881-A3	holder	50-100mm
6881-A4	holder	100-200mm
6881-A5	holder	200-300mm
6881-A6**	holder	300-500mm
6881-A7**	holder	500-750mm
6881-A8**	holder	750-1000mm

\*The actual clamping range should deduct the width of jaws  
 \*\* Not suitable for base 6881-B



6881-D

Code	Name	Remark
6881-D	parallel jaw	made of carbide

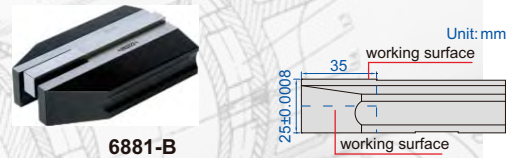


6881-S17

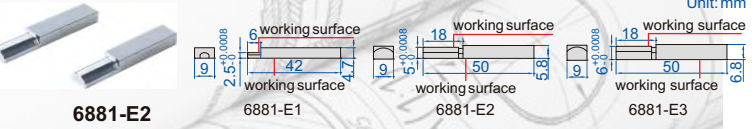
GAGE BLOCK ACCESSORY SET

Code	Remark
6881-S17	17 pcs (including below items)

holder, 0-25mm (code 6881-A1)	1 pc
holder, 25-50mm (code 6881-A2)	1 pc
holder, 50-100mm (code 6881-A3)	1 pc
holder, 100-200mm (code 6881-A4)	1 pc
holder, 200-300mm (code 6881-A5)	1 pc
base (code 6881-B)	1 pc
plain jaw (code 6881-C)	1 pair
parallel jaw (code 6881-D)	1 pc
half round jaw, 2.5mm (code 6881-E1)	1 pair
half round jaw, 5.0mm (code 6881-E2)	1 pair
half round jaw, 6.0mm (code 6881-E3)	1 pair
scraper (code 6881-F)	1 pc
centre point (code 6881-G)	1 pc



6881-B



6881-E2

Code	Name	Size	Remark
6881-E1	half round jaw	2.5mm	made of carbide, supplied in pair
6881-E2	half round jaw	5.0mm	made of carbide, supplied in pair
6881-E3	half round jaw	6.0mm	made of carbide, supplied in pair



6881-C

Code	Name	Remark
6881-C	plain jaw	made of carbide, supplied in pair



6881-F

Code	Name	Remark
6881-F	scraper	made of carbide



6881-G

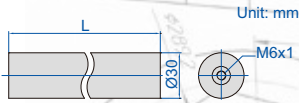
Code	Name	Remark
6881-G	centre point	the tip is made of carbide

application

<p>(plain jaw+holder) set zero for bore gage and inside micrometers</p>	<p>(base+holder+scraper) measure height or scribe</p>	<p>(half round jaw+holder) measure inside diameter</p>
<p>(scraper+centre point+holder) scribe circle</p>	<p>(plain jaw+parallel jaw+holder) Go and No Go inspection</p>	

CYLINDER GAGE BLOCKS

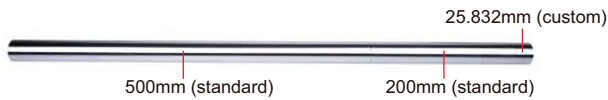
CUSTOM-MADE  
CAN SUPPLY ANY LENGTH, SUCH AS 80.672MM



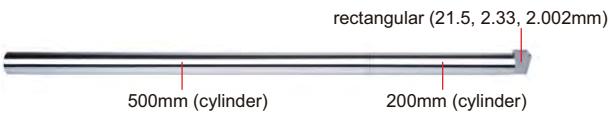
- Made of special alloy steel, hardness HRC64, high stability, wear resistance and easy combination
- Meet ISO3650 grade 1
- Can be connected with M6x1 screw and combined to any sizes up to 4m

can be combined to any sizes up to 4m

Combination 1: combined by several standard size cylinder gage blocks and one custom size cylinder gage block  
For example: 500 (standard) + 200 (standard) + 25.832 (custom)=725.832mm  
Note: in order to reduce cost, custom size should be within 100mm



Combination 2: combined by standard size cylinder gage blocks and rectangular gage blocks  
For example: 500 (cylinder) + 200 (cylinder) + 21.5 (rectangular) + 2.33 (rectangular) + 2.002 (rectangular)=725.832mm



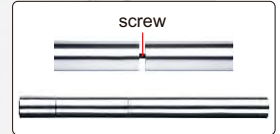
Code	Length (L)
4001-25 *	25mm
4001-50 *	50mm
4001-75 *	75mm
4001-100 *	100mm
4001-200 *	200mm
4001-300 *	300mm
4001-400 *	400mm
4001-500 *	500mm

\* Supplied with manufacturer inspection certificate

high stability in vertical position, suitable for checking height gages



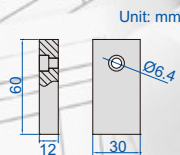
connected with M6x1mm screw



INTERNAL BLOCKS



4001-A



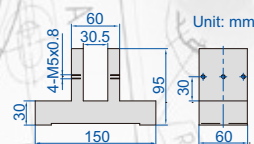
- Can be attached to cylinder and rectangular gage blocks
- Made of special alloy steel, hardness HRC64, high stability, wear resistance and easy combination
- Supplied in a matched pair

Code	Size	Flatness
4001-A	12mm	0.2µm

BASE



4001-B

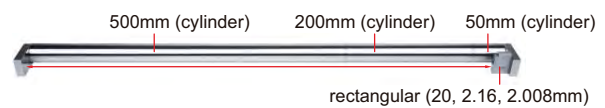


Code	Remark
4001-B	supplied in pair

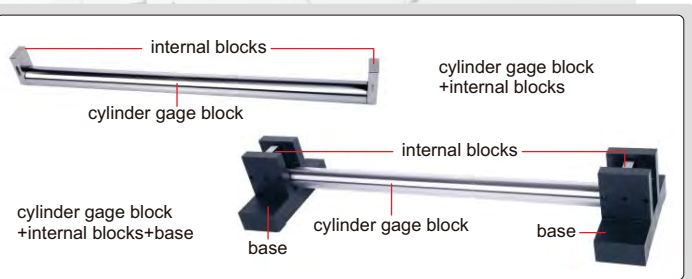
Combination 1: combined by several standard size cylinder gage blocks and one custom size cylinder gage block  
For example: 500 (standard) + 200 (standard) + 25.832 (custom)=725.832mm  
Note: in order to reduce cost, custom size should be within 100mm



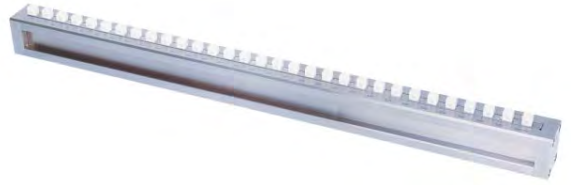
Combination 2: combined by standard size cylinder gage blocks and rectangular gage blocks  
For example: 500 (cylinder) + 200 (cylinder) + 50 (rectangular) - 20 (rectangular) - 2.16 (rectangular) - 2.008 (rectangular)=725.832mm



working with base

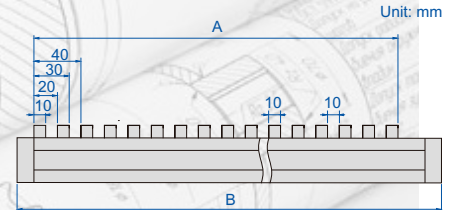


## CMM CHECK MASTERS



6882-600A

- To check the accuracy of table movements of machine tools and calibrate CMM
- Horizontal use and vertical use
- Constructed with ceramic gage blocks
- Can be used with stand



### Standard accuracy

Code	Size	Step	A	B
6882-300A *	0-300mm	10mm	310mm	350mm
6882-400A *	0-400mm	10mm	410mm	450mm
6882-500A *	0-500mm	10mm	510mm	550mm
6882-600A *	0-600mm	10mm	610mm	650mm
6882-1000A *	0-1000mm	10mm	1010mm	1050mm

### High accuracy

Code	Size	Step	A	B
6882-300H *	0-300mm	10mm	310mm	350mm
6882-400H *	0-400mm	10mm	410mm	450mm
6882-500H *	0-500mm	10mm	510mm	550mm
6882-600H *	0-600mm	10mm	610mm	650mm
6882-1000H *	0-1000mm	10mm	1010mm	1050mm

\* Supplied with manufacturer inspection certificate



horizontal use

14

### Accuracy

Range (mm)	Standard accuracy	High accuracy
≤300	±1.3µm	±0.8µm
>300, ≤400	±1.6µm	±1.0µm
>400, ≤500	±2.0µm	±1.0µm
>500, ≤600	±2.5µm	±1.0µm
>600, ≤800	±3.0µm	±2.5µm
>800, ≤1000	±4.0µm	±2.5µm

### Stand (optional)

Code	Applicable check masters
6882-S1	6882-300A, 6882-300H
6882-S2	6882-400A, 6882-400H
6882-S3	6882-500A, 6882-500H
6882-S4	6882-600A, 6882-600H
6882-S5	6882-1000A, 6882-1000H



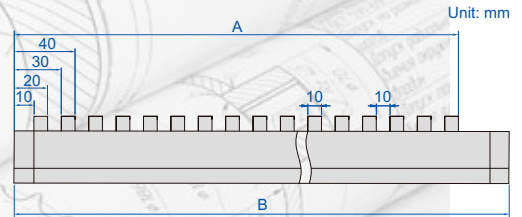
can be used with stand (optional)

# CMM CHECK MASTERS (ADVANCED TYPE)



6874-1000

- To check the accuracy of table movements of machine tools and calibrate CMM
- Horizontal use and vertical use
- Constructed with ceramic gage blocks
- Can be used with stand



Code	Size	Step	A	B
6874-300 *	0-300mm	10mm	320mm	345mm
6874-450 *	0-450mm	10mm	470mm	495mm
6874-600 *	0-600mm	10mm	620mm	645mm
6874-1000 *	0-1000mm	10mm	1020mm	1045mm

\* Supplied with ISO17025 calibration certificate of Shenzhen Institute of Metrology&Quality Inspection (SMQ)



ISO17025 calibration certificate

### Accuracy

Range (mm)	Accuracy	Work face size variation
≤100	±1.0µm	0.5µm
>100, ≤200	±1.1µm	0.5µm
>200, ≤300	±1.3µm	0.6µm
>300, ≤400	±1.6µm	0.7µm
>400, ≤500	±2.0µm	0.8µm
>500, ≤600	±2.5µm	1.0µm
>600, ≤800	±3.0µm	1.4µm
>800, ≤1000	±4.0µm	1.8µm

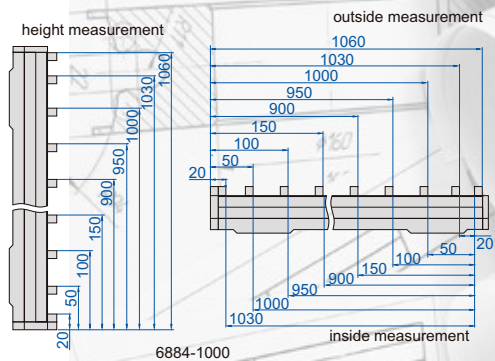
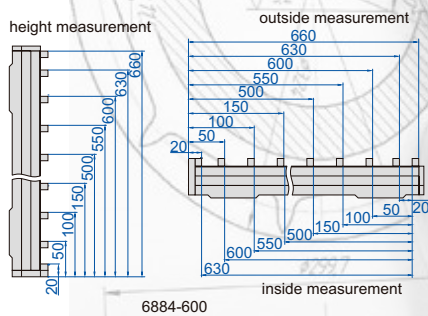
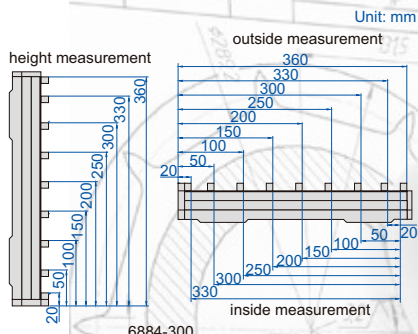
### Stand (optional)

Code	Applicable check masters
6874-A	6874-300, 6874-450, 6874-600
6874-B	6874-1000



can be used with stand (optional)

**CALIPER/HEIGHT GAGE CHECKERS**



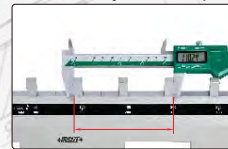
**6884-300**

- To check calipers and height gages
- Constructed with steel gage blocks

check upper jaws of calipers



check lower jaws of calipers



check height gages



Code	Size	Range of inside measurement	Range of outside measurement	Range of height measurement	Accuracy (mm)
<b>6884-300*</b>	0-300mm	20, 50, 100, 150, 200, 250, 300, 330	20, 50, 100, 150, 200, 250, 300, 330, 360	20, 50, 100, 150, 200, 250, 300, 330, 360	±3µm
<b>6884-600*</b>	0-600mm	20, 50, 100, 150, 200, 250, 300, 350, 400, 450, 500, 550, 600, 630	20, 50, 100, 150, 200, 250, 300, 350, 400, 450, 500, 550, 600, 630, 660	20, 50, 100, 150, 200, 250, 300, 350, 400, 450, 500, 550, 600, 630, 660	±5µm
<b>6884-1000*</b>	0-1000mm	20, 50, 100, 150, 200, 250, 300, 350, 400, 450, 500, 550, 600, 650, 700, 750, 800, 850, 900, 950, 1000, 1030	20, 50, 100, 150, 200, 250, 300, 350, 400, 450, 500, 550, 600, 650, 700, 750, 800, 850, 900, 950, 1000, 1030, 1060	20, 50, 100, 150, 200, 250, 300, 350, 400, 450, 500, 550, 600, 650, 700, 750, 800, 850, 900, 950, 1000, 1030, 1060	±7µm

\*Supplied with manufacturer inspection certificate

**INSIDE MICROMETER ACCESSORY**

- Supplied with a pair of 5mm carbide gage blocks

**Code**  
**6884-A10\***



**6884-A10**

\*Supplied with manufacturer inspection certificate

set inside micrometers

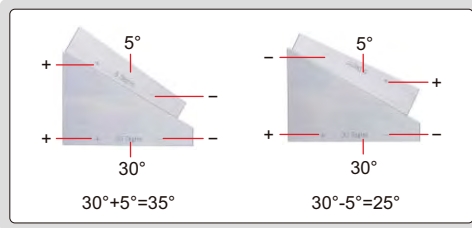




ANGLE GAGE BLOCKS

INSPECTION CERTIFICATE

combination

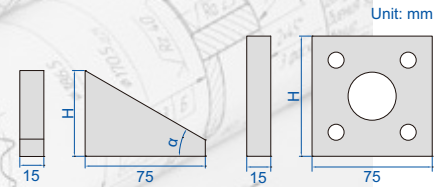


4002-15

- Accuracy:  $\pm 2''$
- To inspect protractor, taper gage, index plate, index head and goniometer, can also be used to set angle
- Made of special alloy steel, hardness HRC64, high stability, wear resistance and easy combination
- Can be combined to any angle with interval 6 seconds after combination (6", 12", 18", ... , 360°)

Individual

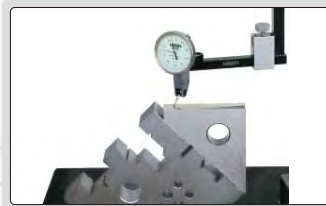
Code	Angle ( $\alpha$ )	H (mm)
4002-A1 *	1°	11.5
4002-A3 *	3°	14.0
4002-A5 *	5°	16.5
4002-A9 *	9°	22.0
4002-A15 *	15°	30.5
4002-A27 *	27°	48.0
4002-A30 *	30°	53.5
4002-A41 *	41°	75.0
4002-A45 *	45°	84.0
4002-B1 *	1'	10.0
4002-B3 *	3'	10.0
4002-B5 *	5'	10.0
4002-B9 *	9'	10.0
4002-B20 *	20'	10.0
4002-B27 *	27'	10.0
4002-B30 *	30'	10.0
4002-C6 *	6"	10.0
4002-C12 *	12"	10.0
4002-C18 *	18"	10.0
4002-C30 *	30"	10.0
4002-D *	90°/90°/90°/90°	75.0



Unit: mm

inspect angle

set angle of plate



Set

Code	Angle ( $\alpha$ )	Total quantity
4002-13 *	1°, 3°, 9°, 27°, 41°, 1', 3', 9', 27', 6", 18", 30", 90°/90°/90°/90°	13
4002-15 *	1°, 3°, 5°, 15°, 30°, 45°, 1', 3', 5', 20', 30', 6", 12", 30", 90°/90°/90°/90°	15

\* Supplied with manufacturer inspection certificate

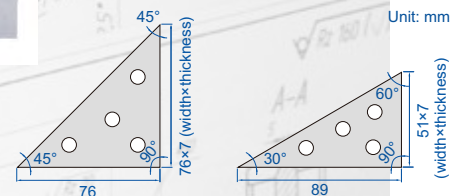
ANGLE BLOCK SET

- For angle set-up in tooling, production and inspection
- Accuracy of angle:  $\pm 9$  seconds
- Made of alloy steel
- Hardness HRC60 $\pm 2$



6540-1

Code	Angle plates included	Angle
6540-1	2	45°, 45°, 90° 30°, 60°, 90°



Unit: mm

## CARBIDE PIN GAGE SETS

- Meet DIN2269, grade 1
- Made of carbide
- Hardness HRA90-90.5
- Diameter accuracy:  $\pm 1\mu\text{m}$



Code	Diameter $\varnothing d$ (mm)	Step	Pin gages per set
4194-1S	0.30, 0.31, 0.32, ..., 1.00	0.01mm	71
4194-2S	1.00, 1.01, 1.02, ..., 2.00	0.01mm	101
4194-3S	2.00, 2.01, 2.02, ..., 3.00	0.01mm	101
4194-4S	3.00, 3.01, 3.02, ..., 4.00	0.01mm	101
4194-5S	4.00, 4.01, 4.02, ..., 5.00	0.01mm	101
4194-6S	5.00, 5.01, 5.02, ..., 6.00	0.01mm	101
4194-7S	6.00, 6.01, 6.02, ..., 7.00	0.01mm	101
4194-8S	7.00, 7.01, 7.02, ..., 8.00	0.01mm	101
4194-9S	8.00, 8.01, 8.02, ..., 9.00	0.01mm	101
4194-10S	9.00, 9.01, 9.02, ..., 10.00	0.01mm	101
4194-10D	10.00, 10.01, 10.02, ..., 10.50	0.01mm	51
4194-11	10.50, 10.51, 10.52, ..., 11.00	0.01mm	51
4194-11D	11.00, 11.01, 11.02, ..., 11.50	0.01mm	51
4194-12	11.50, 11.51, 11.52, ..., 12.00	0.01mm	51
4194-12D	12.00, 12.01, 12.02, ..., 12.50	0.01mm	51
4194-13	12.50, 12.51, 12.52, ..., 13.00	0.01mm	51
4194-13D	13.00, 13.01, 13.02, ..., 13.50	0.01mm	51
4194-14	13.50, 13.51, 13.52, ..., 14.00	0.01mm	51
4194-14D	14.00, 14.01, 14.02, ..., 14.50	0.01mm	51
4194-15	14.50, 14.51, 14.52, ..., 15.00	0.01mm	51

4194-10D

Unit: mm



## CARBIDE INDIVIDUAL PIN GAGES

- Meet DIN2269, grade 1
- Diameter range:  $\varnothing 0.300\text{--}\varnothing 30.000\text{mm}$  with three decimal, for example 0.311mm, 5.562mm, 16.298mm
- Diameter accuracy:  $\pm 1\mu\text{m}$
- Made of carbide
- Hardness HRA90-90.5
- Optional accessory: wooden box (code 7340)



4193-8D015

Unit: mm



### Ordering examples:

Diameter	Code
0.311mm	4193-0D311
5.562mm	4193-5D562
16.298mm	4193-16D298

Note: "D" stands for "."



Code	Diameter range $\varnothing d$ (mm)
4193-□□□□*	0.300-30.000

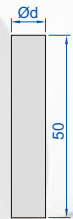
\* Supplied with manufacturer inspection certificate

POPULAR MODEL

## STEEL PIN GAGE SETS

- Meet DIN2269, grade 1
- Made of alloy steel
- Hardness HRC62-65
- Diameter accuracy:  $\pm 1\mu\text{m}$

Unit: mm



4166-10

Code	Diameter Ød (mm)	Step	Pin gages per set
4166-2S	1.00, 1.01, 1.02, ... 2.00	0.01mm	101
4166-3S	2.00, 2.01, 2.02, ... 3.00	0.01mm	101
4166-4S	3.00, 3.01, 3.02, ... 4.00	0.01mm	101
4166-5S	4.00, 4.01, 4.02, ... 5.00	0.01mm	101
4166-6S	5.00, 5.01, 5.02, ... 6.00	0.01mm	101
4166-7S	6.00, 6.01, 6.02, ... 7.00	0.01mm	101
4166-8S	7.00, 7.01, 7.02, ... 8.00	0.01mm	101
4166-9S	8.00, 8.01, 8.02, ... 9.00	0.01mm	101
4166-10S	9.00, 9.01, 9.02, ... 10.00	0.01mm	101

Code	Diameter Ød (mm)	Step	Pin gages per set
4166-411	1.0, 1.1, 1.2, ... 5.0	0.1mm	41
4166-511	5.0, 5.1, 5.2, ... 10.0	0.1mm	51
4166-512	10.0, 10.1, 10.2, ... 15.0	0.1mm	51
4166-513	15.0, 15.1, 15.2, ... 20.0	0.1mm	51

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

Code	Diameter Ød (mm)	Step	Pin gages per set
4166-10D	10.00, 10.01, 10.02, ... 10.50	0.01mm	51
4166-11	10.50, 10.51, 10.52, ... 11.00	0.01mm	51
4166-11D	11.00, 11.01, 11.02, ... 11.50	0.01mm	51
4166-12	11.50, 11.51, 11.52, ... 12.00	0.01mm	51
4166-12D	12.00, 12.01, 12.02, ... 12.50	0.01mm	51
4166-13	12.50, 12.51, 12.52, ... 13.00	0.01mm	51
4166-13D	13.00, 13.01, 13.02, ... 13.50	0.01mm	51
4166-14	13.50, 13.51, 13.52, ... 14.00	0.01mm	51
4166-14D	14.00, 14.01, 14.02, ... 14.50	0.01mm	51
4166-15	14.50, 14.51, 14.52, ... 15.00	0.01mm	51
4166-15D	15.00, 15.01, 15.02, ... 15.50	0.01mm	51
4166-16	15.50, 15.51, 15.52, ... 16.00	0.01mm	51
4166-16D	16.00, 16.01, 16.02, ... 16.50	0.01mm	51
4166-17	16.50, 16.51, 16.52, ... 17.00	0.01mm	51
4166-17D	17.00, 17.01, 17.02, ... 17.50	0.01mm	51
4166-18	17.50, 17.51, 17.52, ... 18.00	0.01mm	51
4166-18D	18.00, 18.01, 18.02, ... 18.50	0.01mm	51
4166-19	18.50, 18.51, 18.52, ... 19.00	0.01mm	51
4166-19D	19.00, 19.01, 19.02, ... 19.50	0.01mm	51
4166-20	19.50, 19.51, 19.52, ... 20.00	0.01mm	51

## STEEL INDIVIDUAL PIN GAGES WITH TWO DECIMAL PLACES (0.01MM STEP)

### Ordering examples:

Diameter	Code
0.21mm	4110-0D21
5.56mm	4110-5D56
16.00mm	4110-16D00

Note : "D" stands for "."



4110-9D98

- Meet DIN2269, grade 1
- Diameter range: Ø0.20~Ø20.00mm
- Diameter accuracy: ±1µm
- Made of alloy steel
- Hardness HRC62-65
- Optional accessory: wooden box (code 7340)

### Diameter Ød (mm)

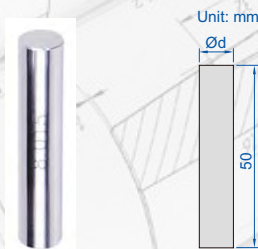
0.20, 0.21, 0.22, 0.23, .... 1.00
1.01, 1.02, 1.03, 1.04, .... 2.00
2.01, 2.02, 2.03, 2.04, .... 3.00
3.01, 3.02, 3.03, 3.04, .... 4.00
4.01, 4.02, 4.03, 4.04, .... 5.00
5.01, 5.02, 5.03, 5.04, .... 6.00
6.01, 6.02, 6.03, 6.04, .... 7.00
7.01, 7.02, 7.03, 7.04, .... 8.00
8.01, 8.02, 8.03, 8.04, .... 9.00
9.01, 9.02, 9.03, 9.04, .... 10.00
10.01, 10.02, 10.03, 10.04, .... 11.00
11.01, 11.02, 11.03, 11.04, .... 12.00
12.01, 12.02, 12.03, 12.04, .... 13.00
13.01, 13.02, 13.03, 13.04, .... 14.00
14.01, 14.02, 14.03, 14.04, .... 15.00
15.01, 15.02, 15.03, 15.04, .... 16.00
16.01, 16.02, 16.03, 16.04, .... 17.00
17.01, 17.02, 17.03, 17.04, .... 18.00
18.01, 18.02, 18.03, 18.04, .... 19.00
19.01, 19.02, 19.03, 19.04, .... 20.00

### Code

4110-□□□□

## STEEL INDIVIDUAL PIN GAGES WITH THREE DECIMAL PLACES (0.001MM STEP)

- Meet DIN2269, grade 1
- Diameter range: Ø0.200~Ø30.000mm with three decimal, for example 0.211mm, 5.562mm, 16.298mm
- Diameter accuracy: ±1µm
- Made of alloy steel
- Hardness HRC62-65
- Optional accessory: wooden box (code 7340)



4118-8D015



### Ordering examples:

Diameter	Code
0.211mm	4118-0D211
5.562mm	4118-5D562
16.298mm	4118-16D298

Note: "D" stands for "."

### Code

4118-□□□□\*

### Diameter range Ød (mm)

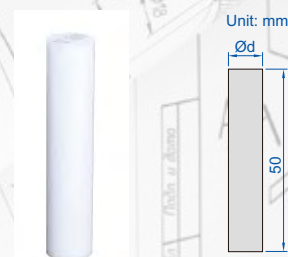
0.200~30.000

\* Supplied with manufacturer inspection certificate

14

## CERAMIC INDIVIDUAL PIN GAGES

- Meet DIN2269, grade 1
- Diameter range: Ø1.000~Ø15.000mm
- With three decimal, for example 1.211mm, 5.562mm, 14.955mm
- Diameter accuracy: ±1µm
- Made of ceramic, extremely wear resistance, corrosion resistance and dimensional stability
- Optional accessory: wooden box (code 7340)



4192-10D000

### Ordering examples:

Diameter	Code
1.211mm	4192-1D211
5.562mm	4192-5D562
14.955mm	4192-14D955

Note : "D" stands for "."

### Code

4192-□□□□

### Diameter range Ød (mm)

1.000-15.000

## BOXES FOR PIN GAGES

- For individual pin gages (4110, 4118, 4192 and 4193 series)



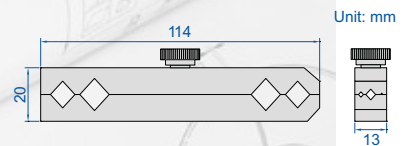
7340

Code	Applicable pin gage diameter Ød	Quantity of pin gages
7340	0.20-10.00mm	51 pcs
7340-101	0.20-10.00mm	101 pcs
7340-201	10.00-15.00mm	51 pcs
7340-202	15.00-20.00mm	51 pcs

## PIN GAGE HANDLE



7345-13



Unit: mm

application

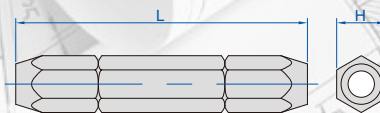
- Operated without wrench
- Made of aluminum

Code	Applicable pin gage diameter
7345-13	1~13mm



## PIN GAGE HANDLES (OPERATED WITHOUT WRENCH)

- Operated without wrench
- Made of aluminum
- Pin gages can be installed



7342-M1

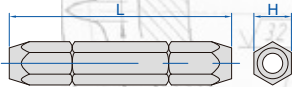
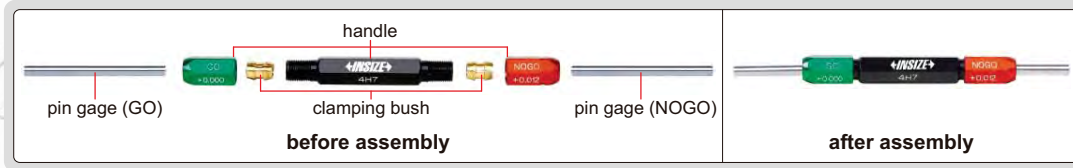
Code	Applicable pin gage diameter	H	L
7342-M0	0.30-1.50mm/0.011-0.049"	10	112
7342-M1	1.51-6.35mm/0.050-0.250"	24	131
7342-M2	6.36-12.70mm/0.251-0.500"	32	152
7342-M3	12.71-15.88mm/0.501-0.625"	37	152
7342-M4	15.89-19.00mm/0.626-0.750"	37	152
7342-M5	19.01-21.13mm/0.751-0.832"	40	158
7342-M6	21.14-23.27mm/0.833-0.916"	40	158
7342-M7	23.28-25.40mm/0.917-1.000"	40	158

(mm)

application



## PIN GAGE HANDLES (OPERATED WITH WRENCH)



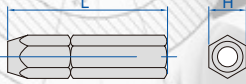
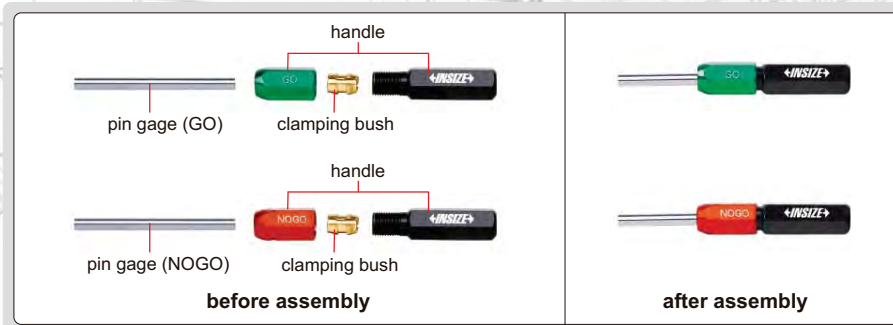
brass clamping bush  
(0.2~7.14mm)

aluminum clamping bush  
(7.14~24.80mm)

- Wrench is needed to install pins
- Clamping bushes (0.2~7.14mm) are made of brass, clamping bushes (7.14~24.80mm) are made of aluminum

Code	Applicable pin gage diameter	Including		(mm)	
		handle	clamping bush (mm)	H	L
7341-0S	0.2-1.02mm	1 pc	6 pairs (the clamping range are 0.2-0.38, 0.38-0.51, 0.51-0.64, 0.64-0.76, 0.76-0.89, 0.89-1.02)	7	57
7341-1S	1.02-1.91mm	1 pc	7 pairs (the clamping range are 1.02-1.14, 1.14-1.27, 1.27-1.40, 1.40-1.52, 1.52-1.65, 1.65-1.78, 1.78-1.91)	7	57
7341-2S	1.91-3.33mm	1 pc	8 pairs (the clamping range are 1.91-2.08, 2.08-2.26, 2.26-2.44, 2.44-2.62, 2.62-2.79, 2.79-2.97, 2.97-3.15, 3.15-3.33)	9	73
7341-3S	3.33-4.57mm	1 pc	7 pairs (the clamping range are 3.33-3.51, 3.51-3.68, 3.68-3.86, 3.86-4.04, 4.04-4.22, 4.22-4.39, 4.39-4.57)	9	73
7341-4S	4.57-5.79mm	1 pc	6 pairs (the clamping range are 4.57-4.78, 4.78-4.98, 4.98-5.18, 5.18-5.38, 5.38-5.59, 5.59-5.79)	14	79
7341-5S	5.79-7.14mm	1 pc	6 pairs (the clamping range are 5.79-5.99, 5.99-6.20, 6.20-6.40, 6.40-6.63, 6.63-6.88, 6.88-7.14)	14	79
7341-6S	7.14-8.66mm	1 pc	6 pairs (the clamping range are 7.14-7.39, 7.39-7.65, 7.65-7.90, 7.90-8.15, 8.15-8.41, 8.41-8.66)	19	91
7341-7S	8.66-10.31mm	1 pc	6 pairs (the clamping range are 8.66-8.92, 8.9-9.17, 9.17-9.42, 9.42-9.70, 9.70-10.01, 10.01-10.31)	19	91
7341-8S	10.31-11.81mm	1 pc	4 pairs (the clamping range are 10.31-10.67, 10.67-11.05, 11.05-11.43, 11.43-11.81)	22	106
7341-9S	11.81-12.95mm	1 pc	3 pairs (the clamping range are 11.81-12.19, 12.19-12.57, 12.57-12.95)	22	106
7341-10S	12.95-14.71mm	1 pc	4 pairs (the clamping range are 12.95-13.51, 13.51-13.89, 13.89-14.30, 14.30-14.71)	24	115
7341-11S	14.71-16.13mm	1 pc	4 pairs (the clamping range are 14.71-15.09, 15.09-15.49, 15.49-15.88, 15.88-16.13)	24	115
7341-12S	16.13-17.88mm	1 pc	4 pairs (the clamping range are 16.13-16.66, 16.66-17.07, 17.07-17.48, 17.48-17.88)	27	118
7341-13S	17.88-19.30mm	1 pc	4 pairs (the clamping range are 17.88-18.26, 18.26-18.67, 18.67-19.05, 19.05-19.30)	27	118
7341-15S	19.30-24.80mm	1 pc	8 pairs (the clamping range are 19.30-19.84, 19.84-20.62, 20.62-21.41, 21.41-22.23, 22.23-23.03, 23.03-23.80, 23.80-24.59, 24.59-24.80)	32	133

## SINGLE END PIN GAGE HANDLES (OPERATED WITH WRENCH)



**7344-4G**  
green (GO)



**7344-4R**  
red (NOGO)



brass clamping bush  
(0.2~7.14mm)



aluminum clamping bush  
(7.14~24.80mm)

- Wrench is needed to install pins
- Clamping bushes (0.2~7.14mm) are made of brass, clamping bushes (7.14~24.80mm) are made of aluminum

(mm)

Code		Including		Applicable pin gage diameter	H	L
green (GO)	red (NOGO)	handle	clamping bush (mm)			
7344-0G	7344-0R	1 pc	6 pcs (the clamping range are 0.2-0.38, 0.38-0.51, 0.51-0.64, 0.64-0.76, 0.76-0.89, 0.89-1.02)	0.2-1.02mm	7	52
7344-1G	7344-1R	1 pc	7 pcs (the clamping range are 1.02-1.14, 1.14-1.27, 1.27-1.40, 1.40-1.52, 1.52-1.65, 1.65-1.78, 1.78-1.91)	1.02-1.91mm	7	52
7344-2G	7344-2R	1 pc	8 pcs (the clamping range are 1.91-2.08, 2.08-2.26, 2.26-2.44, 2.44-2.62, 2.62-2.79, 2.79-2.97, 2.97-3.15, 3.15-3.33)	1.91-3.33mm	9	68
7344-3G	7344-3R	1 pc	7 pcs (the clamping range are 3.33-3.51, 3.51-3.68, 3.68-3.86, 3.86-4.04, 4.04-4.22, 4.22-4.39, 4.39-4.57)	3.33-4.57mm	9	68
7344-4G	7344-4R	1 pc	6 pcs (the clamping range are 4.57-4.78, 4.78-4.98, 4.98-5.18, 5.18-5.38, 5.38-5.59, 5.59-5.79)	4.57-5.79mm	14	73
7344-5G	7344-5R	1 pc	6 pcs (the clamping range are 5.79-5.99, 5.99-6.20, 6.20-6.40, 6.40-6.63, 6.63-6.88, 6.88-7.14)	5.79-7.14mm	14	73
7344-6G	7344-6R	1 pc	6 pcs (the clamping range are 7.14-7.39, 7.39-7.65, 7.65-7.90, 7.90-8.15, 8.15-8.41, 8.41-8.66)	7.14-8.66mm	19	79
7344-7G	7344-7R	1 pc	6 pcs (the clamping range are 8.66-8.92, 8.92-9.17, 9.17-9.42, 9.42-9.70, 9.70-10.01, 10.01-10.31)	8.66-10.31mm	19	79
7344-8G	7344-8R	1 pc	4 pcs (the clamping range are 10.31-10.67, 10.67-11.05, 11.05-11.43, 11.43-11.81)	10.31-11.81mm	22	93
7344-9G	7344-9R	1 pc	3 pcs (the clamping range are 11.81-12.19, 12.19-12.57, 12.57-12.95)	11.81-12.95mm	22	93
7344-10G	7344-10R	1 pc	4 pcs (the clamping range are 12.95-13.51, 13.51-13.89, 13.89-14.30, 14.30-14.71)	12.95-14.71mm	24	98
7344-11G	7344-11R	1 pc	4 pcs (the clamping range are 14.71-15.09, 15.09-15.49, 15.49-15.88, 15.88-16.13)	14.71-16.13mm	24	98
7344-12G	7344-12R	1 pc	4 pcs (the clamping range are 16.13-16.66, 16.66-17.07, 17.07-17.48, 17.48-17.88)	16.13-17.88mm	27	110
7344-13G	7344-13R	1 pc	4 pcs (the clamping range are 17.88-18.26, 18.26-18.67, 18.67-19.05, 19.05-19.30)	17.88-19.30mm	27	110
7344-15G	7344-15R	1 pc	8 pcs (the clamping range are 19.30-19.84, 19.84-20.62, 20.62-21.41, 21.41-22.23, 22.23-23.03, 23.03-23.80, 23.80-24.59, 24.59-24.80)	19.30-24.80mm	32	118

**CYLINDER GAGES**

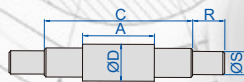
CAN SUPPLY CUSTOM SIZES FROM Ø3.000mm TO Ø200.000mm, FOR EXAMPLE, Ø20.218mm



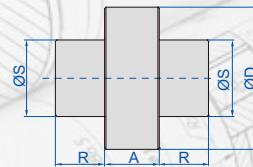
- Made of tungsten steel, quenched, ultra-low temperature treatment
- Wear resistant, long life, dimension stability
- Hardness HRC60-62



6316-30



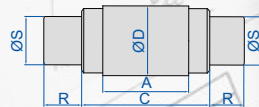
(mm)



(mm)

Diameter ØD **	A	C	R	ØS	Size *** difference	Roundness and cylindricity
3.0-3.81	9.52	17.46	11.1	2.4	±5µm	0.5µm
3.81-5.84	11.11	19.05	11.1	3.2	±5µm	0.5µm
5.84-9.27	12.7	20.64	11.1	5.6	±5µm	0.5µm

Diameter ØD **	A	ØS	R	Size *** difference	Roundness and cylindricity
38.35-51.05	31.8	22.2	15.8	±5µm	1µm
51.05-63.75	31.8	22.2	15.8	±5µm	1µm
63.75-76.45	38.1	25.4	39.8	±5µm	1.2µm
76.45-89.15	38.1	25.4	39.8	±5µm	1.2µm
89.15-101.85	38.1	25.4	39.8	±5µm	1.2µm
101.85-114.55	38.1	25.4	39.8	±5µm	1.2µm
114.55-127.25	38.1	25.4	39.8	±5µm	1.6µm
127.25-139.95	38.1	25.4	39.8	±5µm	1.6µm
139.95-152.62	38.1	25.4	39.8	±5µm	1.6µm
152.65-165.35	38.1	25.4	39.8	±5µm	1.6µm
165.35-178.05	38.1	25.4	39.8	±5µm	2µm
178.05-190.75	38.1	25.4	39.8	±5µm	2µm
190.75-203.45	38.1	25.4	39.8	±5µm	2µm



(mm)

Diameter ØD **	A	C	R	ØS	Size *** difference	Roundness and cylindricity
9.27-12.95	14.29	22.22	12.7	8.7	±5µm	0.5µm
12.95-20.96	15.88	23.81	12.7	12.7	±5µm	0.5µm
20.96-28.83	17.46	25.4	15.9	19	±5µm	0.7µm
28.83-38.35	20.64	28.58	15.9	25.4	±5µm	0.7µm

\*\* For example, 3-3.81 indicates 3mm<D≤3.8mm

\*\*\* Size difference (difference between the ordered size and the size marked on the cylinder gages when supplied).  
For example, the ordered size is Ø3.000mm, the size marked on the cylinder gages when supplied may be Ø3.003mm

Code	ØD	Code	ØD	Code	ØD	Code	ØD	Code	ØD
6316-3*	Ø3mm	6316-16*	Ø16mm	6316-29*	Ø29mm	6316-42*	Ø42mm	6316-70*	Ø70mm
6316-4*	Ø4mm	6316-17*	Ø17mm	6316-30*	Ø30mm	6316-43*	Ø43mm	6316-75*	Ø75mm
6316-5*	Ø5mm	6316-18*	Ø18mm	6316-31*	Ø31mm	6316-44*	Ø44mm	6316-80*	Ø80mm
6316-6*	Ø6mm	6316-19*	Ø19mm	6316-32*	Ø32mm	6316-45*	Ø45mm	6316-85*	Ø85mm
6316-7*	Ø7mm	6316-20*	Ø20mm	6316-33*	Ø33mm	6316-46*	Ø46mm	6316-87*	Ø87mm
6316-8*	Ø8mm	6316-21*	Ø21mm	6316-34*	Ø34mm	6316-47*	Ø47mm	6316-90*	Ø90mm
6316-9*	Ø9mm	6316-22*	Ø22mm	6316-35*	Ø35mm	6316-48*	Ø48mm	6316-95*	Ø95mm
6316-10*	Ø10mm	6316-23*	Ø23mm	6316-36*	Ø36mm	6316-49*	Ø49mm	6316-100*	Ø100mm
6316-11*	Ø11mm	6316-24*	Ø24mm	6316-37*	Ø37mm	6316-50*	Ø50mm	6316-125*	Ø125mm
6316-12*	Ø12mm	6316-25*	Ø25mm	6316-38*	Ø38mm	6316-55*	Ø55mm	6316-150*	Ø150mm
6316-13*	Ø13mm	6316-26*	Ø26mm	6316-39*	Ø39mm	6316-60*	Ø60mm	6316-175*	Ø175mm
6316-14*	Ø14mm	6316-27*	Ø27mm	6316-40*	Ø40mm	6316-62*	Ø62mm	6316-200*	Ø200mm
6316-15*	Ø15mm	6316-28*	Ø28mm	6316-41*	Ø41mm	6316-65*	Ø65mm		

\*Supplied with manufacturer inspection certificate



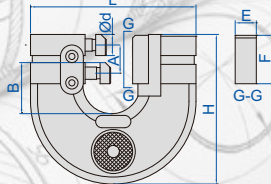
**FAST AND ACCURATE  
MEASUREMENT OF CYLINDERS**

## ADJUSTABLE SNAP GAGES

- Used as Go/No-Go gage by setting upper and lower limits
- Flatness of anvil: 1.5µm
- Parallelism of measuring faces:  
range 0-32mm: 3µm  
range 32-89mm: 4µm  
range 89-300mm: 5µm



2187-19



(mm)

Code	Range	L	A	B	E	F	H	Ød
2187-6	0-6mm	74	15	17.5	12.2	27.2	71.5	7
2187-13	6-13mm	85	15	26	12.2	27.2	79.5	12.3
2187-19	13-19mm	93	15	27	12.2	27.2	83	12.3
2187-25	19-25mm	100	15	33.5	12.2	27.2	89.5	12.3
2187-32	25-32mm	111	18	38.5	15.2	35.2	104	15.3
2187-38	32-38mm	117	18	41.5	15.2	35.2	105	15.3
2187-44	38-44mm	123	18	44.5	15.2	35.2	109	15.3
2187-51	44-51mm	130	18	48	15.2	35.2	117	15.3
2187-57	51-57mm	136	18	45	15.2	35.2	119	15.3
2187-63	57-63mm	143	18	50	15.2	35.2	122	15.3
2187-70	63-70mm	156	20	58	15.2	35.2	132	15.3
2187-76	70-76mm	163	20	60.5	15.2	35.2	137	15.3
2187-82	76-82mm	169	20	64.5	15.2	35.2	140	15.3
2187-89	82-89mm	175	20	66.5	15.2	35.2	146	15.3
2187-95	89-95mm	181	20	69.5	15.2	35.2	149	15.3
2187-101	95-101mm	188	20	70	15.2	35.2	154	15.3
2187-108	101-108mm	198	24	79	15.2	39.2	166	15.3
2187-114	108-114mm	204	24	81	15.2	39.2	172	15.3
2187-120	114-120mm	210	24	86	15.2	39.2	179	15.3
2187-127	120-127mm	217	24	89.5	15.2	39.2	186	15.3
2187-133	127-133mm	223	24	92.5	15.2	39.2	192	15.3
2187-139	133-139mm	229	24	95.5	15.2	39.2	197	15.3
2187-146	139-146mm	235	24	98.5	15.2	39.2	201	15.3
2187-152	146-152mm	242	24	102	15.2	39.2	205	15.3
2187-163	152-163mm	273	21.4	106.7	18.2	39.2	211	18.3
2187-175	163-175mm	273	21.4	106.7	18.2	39.2	211	18.3
2187-188	175-188mm	298.5	21.4	119.7	18.2	39.2	227	18.3
2187-200	188-200mm	298.5	21.4	119.7	18.2	39.2	227	18.3
2187-213	200-213mm	324	21.4	131.7	18.2	39.2	242	18.3
2187-225	213-225mm	324	21.4	131.7	18.2	39.2	242	18.3
2187-238	225-238mm	349.5	21.4	144.7	18.2	39.2	250	18.3
2187-250	238-250mm	349.5	21.4	149	18.2	39.2	250	18.3
2187-263	250-263mm	375.5	21.4	157.7	18.2	39.2	278	18.3
2187-275	263-275mm	375.5	21.4	157.7	18.2	39.2	278	18.3
2187-288	275-288mm	400	21.4	170.7	18.2	39.2	291	18.3
2187-300	288-300mm	400	21.4	170.7	18.2	39.2	291	18.3

## SETTING RINGS

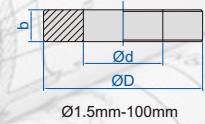


CAN SUPPLY CUSTOM SETTING RINGS FROM Ø1.50MM TO Ø400.00MM, FOR EXAMPLE, Ø17.08MM

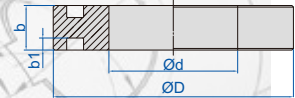
- For zero setting of inside micrometers, three points internal micrometers and bore gages
- The size marked on the setting ring is checked at the direction of the marking line
- Size difference (difference between the ordered size and the size marked on the setting ring when supplied): For example, the ordered size is Ø10.12mm, the size marked on the setting ring when supplied may be Ø10.130mm
- Meet DIN2250-1:2008



6312-20



Ø1.5mm-100mm



Ø100mm-400mm

Diameter d**	b	ØD	Size difference	Roundness and cylindricity
Ø1.5-2.5	4	22	±10.0µm	0.3µm
Ø2.5-3	5	22	±10.0µm	0.3µm
Ø3-5	5	22	±10.0µm	0.4µm
Ø5-10	8	32	±10.0µm	0.4µm
Ø10-15	10	38	±10.0µm	0.5µm
Ø15-18	12	45	±10.0µm	0.5µm
Ø18-20	12	45	±10.0µm	0.6µm
Ø20-25	14	53	±10.0µm	0.6µm
Ø25-30	16	63	±10.0µm	0.6µm
Ø30-32	16	63	±10.0µm	0.7µm
Ø32-40	18	71	±10.0µm	0.7µm
Ø40-50	20	85	±10.0µm	0.7µm
Ø50-60	20	100	±10.0µm	0.8µm
Ø60-70	24	112	±10.0µm	0.8µm
Ø70-80	24	125	±10.0µm	0.8µm
Ø80-90	24	140	±10.0µm	1.0µm
Ø90-100	24	160	±10.0µm	1.0µm

\*\* For example Ø3-5mm means Ø3mm< diameter d ≤ 5mm

Diameter d**	b	b1	ØD	Size difference	Roundness and cylindricity
Ø100-110	30	8	164	±10.0µm	1.0µm
Ø110-130	34	10	192	±10.0µm	1.0µm
Ø130-150	34	10	220	±10.0µm	1.2µm
Ø150-170	36	10	248	±10.0µm	1.5µm
Ø170-190	36	10	276	±10.0µm	1.5µm
Ø190-210	38	10	300	±10.0µm	1.5µm
Ø210-230	38	10	324	±10.0µm	2.5µm
Ø230-250	40	12	350	±10.0µm	2.5µm
Ø250-270	40	12	375	±10.0µm	3.0µm
Ø270-290	42	12	400	±10.0µm	3.0µm
Ø290-300	42	12	425	±10.0µm	3.0µm
Ø300-320	42	12	430	±10.0µm	4.0µm
Ø320-330	42	12	440	±10.0µm	4.0µm
Ø330-340	42	12	450	±10.0µm	4.0µm
Ø340-350	42	12	460	±10.0µm	4.0µm
Ø350-360	42	12	470	±10.0µm	4.0µm
Ø360-370	42	12	480	±10.0µm	4.0µm
Ø370-380	42	12	490	±10.0µm	4.0µm
Ø380-390	42	12	500	±10.0µm	4.0µm
Ø390-400	42	12	510	±10.0µm	4.0µm

(mm)		(mm)		(mm)		(mm)		(mm)	
Code	Size	Code	Size	Code	Size	Code	Size	Code	Size
6312-1D5 *	Ø1.5	6312-12D5 *	Ø12.5	6312-23D5 *	Ø23.5	6312-39 *	Ø39	6312-95 *	Ø95
6312-2 *	Ø2	6312-13 *	Ø13	6312-24 *	Ø24	6312-40 *	Ø40	6312-100 *	Ø100
6312-2D5 *	Ø2.5	6312-13D5 *	Ø13.5	6312-24D5 *	Ø24.5	6312-41 *	Ø41	6312-112D5 *	Ø112.5
6312-3 *	Ø3	6312-14 *	Ø14	6312-25 *	Ø25	6312-42 *	Ø42	6312-125 *	Ø125
6312-3D5 *	Ø3.5	6312-14D5 *	Ø14.5	6312-25D5 *	Ø25.5	6312-43 *	Ø43	6312-137D5 *	Ø137.5
6312-4 *	Ø4	6312-15 *	Ø15	6312-26 *	Ø26	6312-44 *	Ø44	6312-150 *	Ø150
6312-4D5 *	Ø4.5	6312-15D5 *	Ø15.5	6312-26D5 *	Ø26.5	6312-45 *	Ø45	6312-162D5 *	Ø162.5
6312-5 *	Ø5	6312-16 *	Ø16	6312-27 *	Ø27	6312-46 *	Ø46	6312-175 *	Ø175
6312-5D5 *	Ø5.5	6312-16D5 *	Ø16.5	6312-27D5 *	Ø27.5	6312-47 *	Ø47	6312-187D5 *	Ø187.5
6312-6 *	Ø6	6312-17 *	Ø17	6312-28 *	Ø28	6312-48 *	Ø48	6312-200 *	Ø200
6312-6D5 *	Ø6.5	6312-17D5 *	Ø17.5	6312-28D5 *	Ø28.5	6312-49 *	Ø49	6312-212D5 *	Ø212.5
6312-7 *	Ø7	6312-18 *	Ø18	6312-29 *	Ø29	6312-50 *	Ø50	6312-225 *	Ø225
6312-7D5 *	Ø7.5	6312-18D5 *	Ø18.5	6312-29D5 *	Ø29.5	6312-55 *	Ø55	6312-237D5 *	Ø237.5
6312-8 *	Ø8	6312-19 *	Ø19	6312-30 *	Ø30	6312-60 *	Ø60	6312-250 *	Ø250
6312-8D5 *	Ø8.5	6312-19D5 *	Ø19.5	6312-31 *	Ø31	6312-62 *	Ø62	6312-262D5 *	Ø262.5
6312-9 *	Ø9	6312-20 *	Ø20	6312-32 *	Ø32	6312-65 *	Ø65	6312-275 *	Ø275
6312-9D5 *	Ø9.5	6312-20D5 *	Ø20.5	6312-33 *	Ø33	6312-70 *	Ø70	6312-287D5 *	Ø287.5
6312-10 *	Ø10	6312-21 *	Ø21	6312-34 *	Ø34	6312-75 *	Ø75	6312-300 *	Ø300
6312-10D5 *	Ø10.5	6312-21D5 *	Ø21.5	6312-35 *	Ø35	6312-80 *	Ø80	6312-350 *	Ø350
6312-11 *	Ø11	6312-22 *	Ø22	6312-36 *	Ø36	6312-85 *	Ø85	6312-400 *	Ø400
6312-11D5 *	Ø11.5	6312-22D5 *	Ø22.5	6312-37 *	Ø37	6312-87 *	Ø87		
6312-12 *	Ø12	6312-23 *	Ø23	6312-38 *	Ø38	6312-90 *	Ø90		

\* Supplied with manufacturer inspection certificate



CAN SUPPLY CUSTOM SETTING RINGS FROM Ø0.40MM TO Ø50.00MM, FOR EXAMPLE, Ø17.08MM

## CARBIDE SETTING RINGS



carbide

6317-10



(mm)

- For zero setting of inside micrometers, three points internal micrometers and bore gages
- Size difference (difference between the ordered size and the size marked on the setting ring when supplied): For example, the ordered size is Ø10.00mm, the size marked on the setting ring when supplied may be Ø10.002mm
- Meet DIN2250-1:2008

Diameter d <sup>**</sup>	b	ØD	Size difference	Roundness and cylindricity
Ø0.4-0.5	4	10	±10µm	0.3µm
Ø0.5-1.6	6	10	±10µm	0.3µm
Ø1.6-12.1	8	30	±10µm	0.3µm
Ø12.1-18.1	12	40	±10µm	0.4µm
Ø18.1-25	15	50	±10µm	0.4µm
Ø25-30	15	60	±10µm	0.4µm
Ø30-35	18	80	±10µm	0.4µm
Ø35-40	20	80	±10µm	0.4µm
Ø40-45	20	90	±10µm	0.4µm
Ø45-50	20	100	±10µm	0.4µm

\*\* For example Ø0.4-0.5mm means Ø0.4mm < diameter d ≤ Ø0.5mm

Code	Size
6317-0D5 *	Ø0.5mm
6317-1 *	Ø1mm
6317-1D5 *	Ø1.5mm
6317-2 *	Ø2mm
6317-2D5 *	Ø2.5mm
6317-3 *	Ø3mm
6317-3D5 *	Ø3.5mm
6317-4 *	Ø4mm
6317-4D5 *	Ø4.5mm
6317-5 *	Ø5mm
6317-5D5 *	Ø5.5mm
6317-6 *	Ø6mm
6317-6D5 *	Ø6.5mm
6317-7 *	Ø7mm
6317-7D5 *	Ø7.5mm
6317-8 *	Ø8mm
6317-8D5 *	Ø8.5mm
6317-9 *	Ø9mm
6317-9D5 *	Ø9.5mm
6317-10 *	Ø10mm

Code	Size
6317-10D5 *	Ø10.5mm
6317-11 *	Ø11mm
6317-11D5 *	Ø11.5mm
6317-12 *	Ø12mm
6317-12D5 *	Ø12.5mm
6317-13 *	Ø13mm
6317-13D5 *	Ø13.5mm
6317-14 *	Ø14mm
6317-14D5 *	Ø14.5mm
6317-15 *	Ø15mm
6317-15D5 *	Ø15.5mm
6317-16 *	Ø16mm
6317-16D5 *	Ø16.5mm
6317-17 *	Ø17mm
6317-17D5 *	Ø17.5mm
6317-18 *	Ø18mm
6317-18D5 *	Ø18.5mm
6317-19 *	Ø19mm
6317-19D5 *	Ø19.5mm
6317-20 *	Ø20mm

Code	Size
6317-20D5 *	Ø20.5mm
6317-21 *	Ø21mm
6317-21D5 *	Ø21.5mm
6317-22 *	Ø22mm
6317-22D5 *	Ø22.5mm
6317-23 *	Ø23mm
6317-23D5 *	Ø23.5mm
6317-24 *	Ø24mm
6317-24D5 *	Ø24.5mm
6317-25 *	Ø25mm
6317-25D5 *	Ø25.5mm
6317-26 *	Ø26mm
6317-26D5 *	Ø26.5mm
6317-27 *	Ø27mm
6317-27D5 *	Ø27.5mm
6317-28 *	Ø28mm
6317-28D5 *	Ø28.5mm
6317-29 *	Ø29mm
6317-29D5 *	Ø29.5mm
6317-30 *	Ø30mm

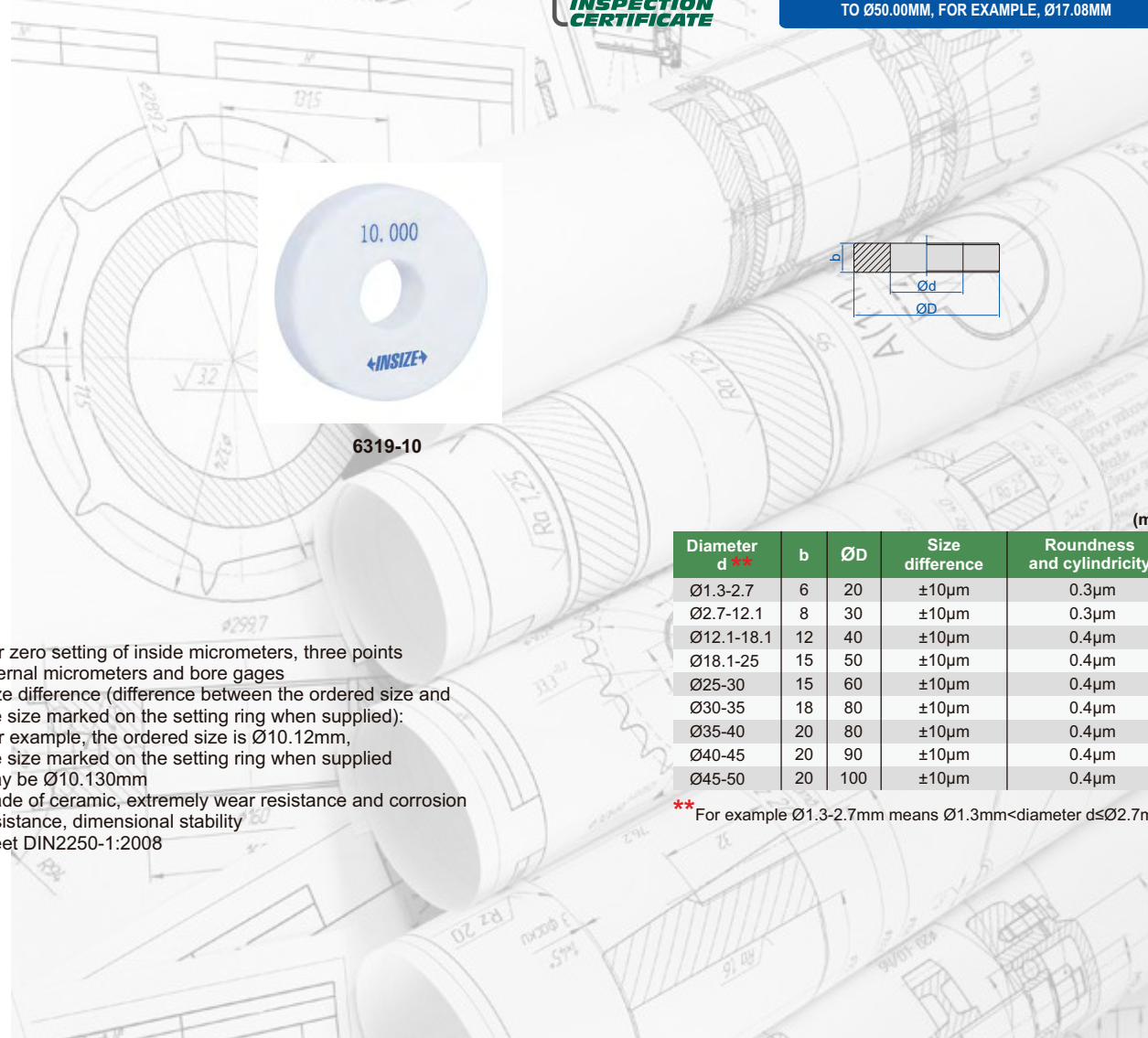
Code	Size
6317-31 *	Ø31mm
6317-32 *	Ø32mm
6317-33 *	Ø33mm
6317-34 *	Ø34mm
6317-35 *	Ø35mm
6317-36 *	Ø36mm
6317-37 *	Ø37mm
6317-38 *	Ø38mm
6317-39 *	Ø39mm
6317-40 *	Ø40mm
6317-41 *	Ø41mm
6317-42 *	Ø42mm
6317-43 *	Ø43mm
6317-44 *	Ø44mm
6317-45 *	Ø45mm
6317-46 *	Ø46mm
6317-47 *	Ø47mm
6317-48 *	Ø48mm
6317-49 *	Ø49mm
6317-50 *	Ø50mm

\* Supplied with manufacturer inspection certificate

# CERAMIC SETTING RINGS



CAN SUPPLY CUSTOM SETTING RINGS FROM Ø1.30MM TO Ø50.00MM, FOR EXAMPLE, Ø17.08MM



6319-10

- For zero setting of inside micrometers, three points internal micrometers and bore gages
- Size difference (difference between the ordered size and the size marked on the setting ring when supplied): For example, the ordered size is Ø10.12mm, the size marked on the setting ring when supplied may be Ø10.130mm
- Made of ceramic, extremely wear resistance and corrosion resistance, dimensional stability
- Meet DIN2250-1:2008

(mm)

Diameter d **	b	ØD	Size difference	Roundness and cylindricity
Ø1.3-2.7	6	20	±10µm	0.3µm
Ø2.7-12.1	8	30	±10µm	0.3µm
Ø12.1-18.1	12	40	±10µm	0.4µm
Ø18.1-25	15	50	±10µm	0.4µm
Ø25-30	15	60	±10µm	0.4µm
Ø30-35	18	80	±10µm	0.4µm
Ø35-40	20	80	±10µm	0.4µm
Ø40-45	20	90	±10µm	0.4µm
Ø45-50	20	100	±10µm	0.4µm

\*\* For example Ø1.3-2.7mm means Ø1.3mm < diameter d ≤ Ø2.7mm

Code	Size
6319-1D5 *	Ø1.5mm
6319-2 *	Ø2mm
6319-2D5 *	Ø2.5mm
6319-3 *	Ø3mm
6319-3D5 *	Ø3.5mm
6319-4 *	Ø4mm
6319-4D5 *	Ø4.5mm
6319-5 *	Ø5mm
6319-5D5 *	Ø5.5mm
6319-6 *	Ø6mm
6319-6D5 *	Ø6.5mm
6319-7 *	Ø7mm
6319-7D5 *	Ø7.5mm
6319-8 *	Ø8mm
6319-8D5 *	Ø8.5mm
6319-9 *	Ø9mm
6319-9D5 *	Ø9.5mm
6319-10 *	Ø10mm
6319-10D5 *	Ø10.5mm

Code	Size
6319-11 *	Ø11mm
6319-11D5 *	Ø11.5mm
6319-12 *	Ø12mm
6319-12D5 *	Ø12.5mm
6319-13 *	Ø13mm
6319-13D5 *	Ø13.5mm
6319-14 *	Ø14mm
6319-14D5 *	Ø14.5mm
6319-15 *	Ø15mm
6319-15D5 *	Ø15.5mm
6319-16 *	Ø16mm
6319-16D5 *	Ø16.5mm
6319-17 *	Ø17mm
6319-17D5 *	Ø17.5mm
6319-18 *	Ø18mm
6319-18D5 *	Ø18.5mm
6319-19 *	Ø19mm
6319-19D5 *	Ø19.5mm
6319-20 *	Ø20mm

Code	Size
6319-20D5 *	Ø20.5mm
6319-21 *	Ø21mm
6319-21D5 *	Ø21.5mm
6319-22 *	Ø22mm
6319-22D5 *	Ø22.5mm
6319-23 *	Ø23mm
6319-23D5 *	Ø23.5mm
6319-24 *	Ø24mm
6319-24D5 *	Ø24.5mm
6319-25 *	Ø25mm
6319-25D5 *	Ø25.5mm
6319-26 *	Ø26mm
6319-26D5 *	Ø26.5mm
6319-27 *	Ø27mm
6319-27D5 *	Ø27.5mm
6319-28 *	Ø28mm
6319-28D5 *	Ø28.5mm
6319-29 *	Ø29mm
6319-29D5 *	Ø29.5mm
6319-30 *	Ø30mm

Code	Size
6319-31 *	Ø31mm
6319-32 *	Ø32mm
6319-33 *	Ø33mm
6319-34 *	Ø34mm
6319-35 *	Ø35mm
6319-36 *	Ø36mm
6319-37 *	Ø37mm
6319-38 *	Ø38mm
6319-39 *	Ø39mm
6319-40 *	Ø40mm
6319-41 *	Ø41mm
6319-42 *	Ø42mm
6319-43 *	Ø43mm
6319-44 *	Ø44mm
6319-45 *	Ø45mm
6319-46 *	Ø46mm
6319-47 *	Ø47mm
6319-48 *	Ø48mm
6319-49 *	Ø49mm
6319-50 *	Ø50mm

\* Supplied with manufacturer inspection certificate

PLAIN PLUG GAGES

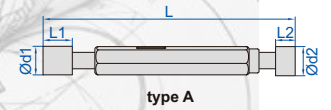
CUSTOM-MADE  
OTHER CLASSES ARE AVAILABLE, SUCH AS H8, H9  
OTHER DIAMETERS ARE AVAILABLE, SUCH AS 19.003mm  
OTHER LENGTHS ARE AVAILABLE, SUCH AS 70mm



4124-12



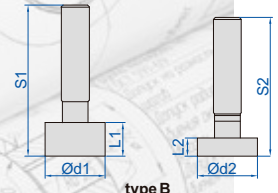
type A



type A



type B



type B

Size tolerance of H7

Diameter $\varnothing d$	Type	Size tolerance of Go gage ( $\mu\text{m}$ )	Size tolerance of No-Go gage ( $\mu\text{m}$ )	L1	L2	L	S1, S2
$\geq 2, \leq 3$	A	+0.5 / +2.5	+9 / +11	6.5	4.5	62	-
$> 3, \leq 6$	A	+0.75 / +3.25	+10.75 / +13.25	8	6	74	-
$> 6, \leq 10$	A	+0.75 / +3.25	+13.75 / +16.25	10	7	87	-
$> 10, \leq 14$	A	+1 / +4	+16.5 / +19.5	12	8	99	-
$> 14, \leq 18$	A	+1 / +4	+16.5 / +19.5	14	10	114	-
$> 18, \leq 24$	A	+1 / +5	+19 / +23	16	12	132	-
$> 24, \leq 30$	A	+1 / +5	+19 / +23	18	14	136	-
$> 30, \leq 40$	A	+1.5 / +5.5	+23 / +27	20	15	155	-
$> 40, \leq 50$	A	+1.5 / +5.5	+23 / +27	25	18	169	-
$> 50, \leq 65$	B	+1.5 / +6.5	+27.5 / +32.5	30	18	-	164, 152
$> 65, \leq 80$	B	+1.5 / +6.5	+27.5 / +32.5	35	25	-	169, 159
$> 80, \leq 100$	B	+2 / +8	+32 / +38	35	25	-	169, 159

(mm)

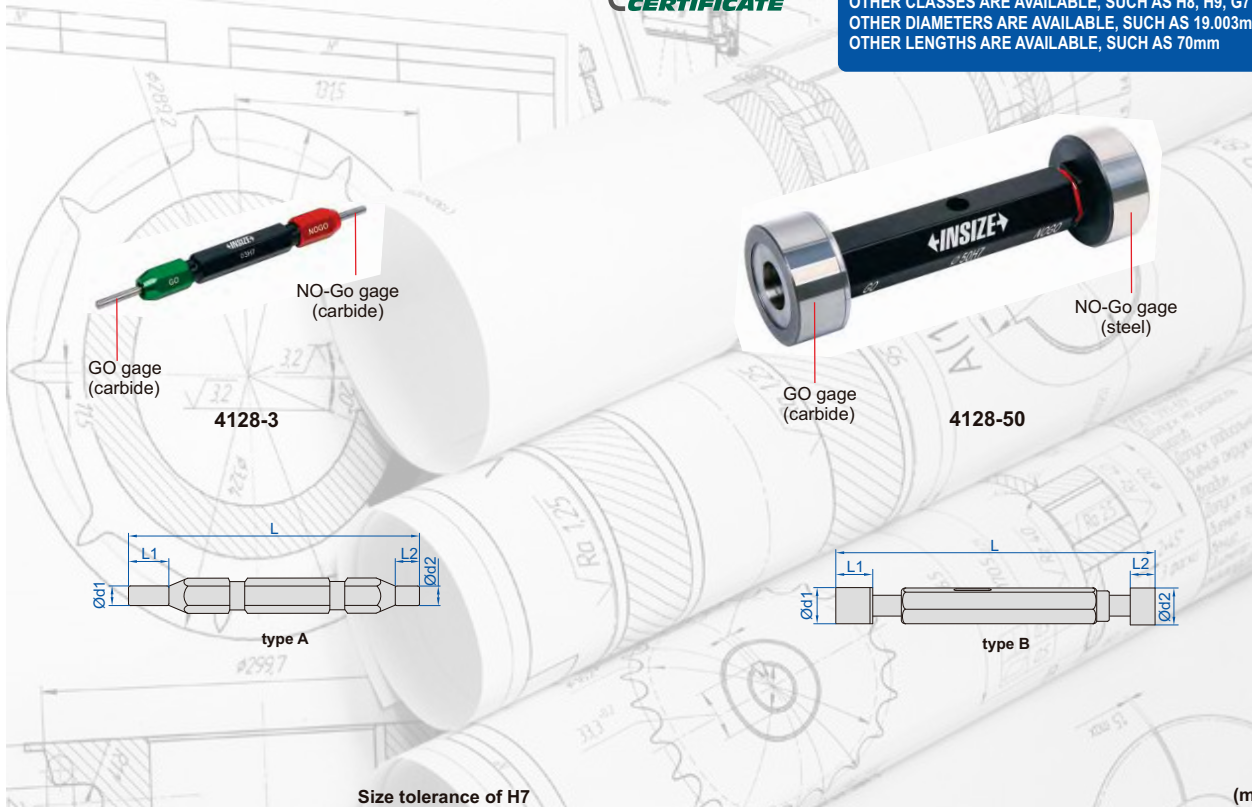
- Supplied with Go and No-Go gages together
- Class H7
- Hardness HRC 60±2
- Standard DIN7150-2

Code	Diameter	Type	Code	Diameter	Type	Code	Diameter	Type	Code	Diameter	Type
4124-2	2mm	A	4124-17	17mm	A	4124-32	32mm	A	4124-47	47mm	A
4124-3	3mm	A	4124-18	18mm	A	4124-33	33mm	A	4124-48	48mm	A
4124-4	4mm	A	4124-19	19mm	A	4124-34	34mm	A	4124-49	49mm	A
4124-5	5mm	A	4124-20	20mm	A	4124-35	35mm	A	4124-50	50mm	A
4124-6	6mm	A	4124-21	21mm	A	4124-36	36mm	A	4124-52	52mm	B
4124-7	7mm	A	4124-22	22mm	A	4124-37	37mm	A	4124-55	55mm	B
4124-8	8mm	A	4124-23	23mm	A	4124-38	38mm	A	4124-60	60mm	B
4124-9	9mm	A	4124-24	24mm	A	4124-39	39mm	A	4124-65	65mm	B
4124-10	10mm	A	4124-25	25mm	A	4124-40	40mm	A	4124-70	70mm	B
4124-11	11mm	A	4124-26	26mm	A	4124-41	41mm	A	4124-75	75mm	B
4124-12	12mm	A	4124-27	27mm	A	4124-42	42mm	A	4124-80	80mm	B
4124-13	13mm	A	4124-28	28mm	A	4124-43	43mm	A	4124-85	85mm	B
4124-14	14mm	A	4124-29	29mm	A	4124-44	44mm	A	4124-90	90mm	B
4124-15	15mm	A	4124-30	30mm	A	4124-45	45mm	A	4124-95	95mm	B
4124-16	16mm	A	4124-31	31mm	A	4124-46	46mm	A	4124-100	100mm	B

# CARBIDE PLAIN PLUG GAGES

**INSPECTION  
CERTIFICATE**

**CUSTOM-MADE**  
OTHER CLASSES ARE AVAILABLE, SUCH AS H8, H9, G7  
OTHER DIAMETERS ARE AVAILABLE, SUCH AS 19.003mm  
OTHER LENGTHS ARE AVAILABLE, SUCH AS 70mm



- Supplied with Go and No-Go gages together
- Standard DIN7150-2

**Size tolerance of H7**

(mm)

Diameter	Size tolerance of Go gage Ød1 (µm)	Size tolerance of No-Go gage Ød2 (µm)	L1	L2	L
≥1, ≤1.9	+0.5/+2.5	+9/+11	15	12	67
>1.9, ≤3	+0.5/+2.5	+9/+11	15	12	79
>3, ≤4.7	+0.75/+3.25	+10.75/+13.25	15	12	79
>4.7, ≤6	+0.75/+3.25	+10.75/+13.25	15	12	88.5
>6, ≤7.1	+0.75/+3.25	+13.75/+16.25	15	12	88.5
>7.1, ≤8	+0.75/+3.25	+13.75/+16.25	15	12	99
>8, ≤10	+0.75/+3.25	+13.75/+16.25	12	7	75
>10, ≤14	+1/+4	+16.5/+19.5	12	7	82
>14, ≤18	+1/+4	+16.5/+19.5	17	10	97
>18, ≤24	+1/+5	+19/+23	17	12	109
>24, ≤30	+1/+5	+19/+23	17	14	111
>30, ≤40	+1.5/+5.5	+23/+27	20	15	115
>40, ≤50	+1.5/+5.5	+23/+27	20	15	160
>50, ≤60	+1.5/+6.5	+27.5/+32.5	20	15	160

**14**

**H7**

(mm)

Code	Diameter	Type	Code	Diameter	Type	Code	Diameter	Type	Code	Diameter	Type
4128-1*	1	A	4128-14*	14	B	4128-27*	27	B	4128-40*	40	B
4128-2*	2	A	4128-15*	15	B	4128-28*	28	B	4128-41*	41	B
4128-3*	3	A	4128-16*	16	B	4128-29*	29	B	4128-42*	42	B
4128-4*	4	A	4128-17*	17	B	4128-30*	30	B	4128-43*	43	B
4128-5*	5	A	4128-18*	18	B	4128-31*	31	B	4128-44*	44	B
4128-6*	6	A	4128-19*	19	B	4128-32*	32	B	4128-45*	45	B
4128-7*	7	A	4128-20*	20	B	4128-33*	33	B	4128-46*	46	B
4128-8*	8	A	4128-21*	21	B	4128-34*	34	B	4128-47*	47	B
4128-9*	9	B	4128-22*	22	B	4128-35*	35	B	4128-48*	48	B
4128-10*	10	B	4128-23*	23	B	4128-36*	36	B	4128-49*	49	B
4128-11*	11	B	4128-24*	24	B	4128-37*	37	B	4128-50*	50	B
4128-12*	12	B	4128-25*	25	B	4128-38*	38	B	4128-52*	52	B
4128-13*	13	B	4128-26*	26	B	4128-39*	39	B	4128-55*	55	B
									4128-60*	60	B

\*Supplied with manufacturer inspection certificate



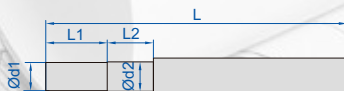
## CARBIDE PLAIN PLUG GAGES (SINGLE END)

CUSTOM-MADE  
OTHER CLASSES ARE AVAILABLE, SUCH AS H8, H9, G7  
OTHER DIAMETERS ARE AVAILABLE, SUCH AS 19.003mm  
OTHER LENGTHS ARE AVAILABLE, SUCH AS 70mm



6331-9

- Supplied with Go and No-Go gages together
- Standard DIN7150-2



Size tolerance of H7

(mm)

Diameter	Size tolerance of Go gage Ød1 (µm)	Size tolerance of No-Go gage Ød2 (µm)	L1	L2	L
≥0.5, ≤3	+0.5/+2.5	+9/+11	20	15	95
>3, ≤6	+0.75/+3.25	+10.75/+13.25	20	15	95
>6, ≤10	+0.75/+3.25	+13.75/+16.25	20	15	95
>10, ≤15	+1/+4	+16.5/+19.5	20	15	95
>15, ≤18	+1/+4	+16.5/+19.5	20	15	115
>18, ≤30	+1/+5	+19/+23	20	15	115
>30, ≤40	+1.5/+5.5	+23/+27	20	15	115

H7

(mm)

Code	Diameter	Code	Diameter
6331-1 *	1	6331-21 *	21
6331-2 *	2	6331-22 *	22
6331-3 *	3	6331-23 *	23
6331-4 *	4	6331-24 *	24
6331-5 *	5	6331-25 *	25
6331-6 *	6	6331-26 *	26
6331-7 *	7	6331-27 *	27
6331-8 *	8	6331-28 *	28
6331-9 *	9	6331-29 *	29
6331-10 *	10	6331-30 *	30
6331-11 *	11	6331-31 *	31
6331-12 *	12	6331-32 *	32
6331-13 *	13	6331-33 *	33
6331-14 *	14	6331-34 *	34
6331-15 *	15	6331-35 *	35
6331-16 *	16	6331-36 *	36
6331-17 *	17	6331-37 *	37
6331-18 *	18	6331-38 *	38
6331-19 *	19	6331-39 *	39
6331-20 *	20	6331-40 *	40

\* Supplied with manufacturer inspection certificate



## CERAMIC PLAIN PLUG GAGES (SINGLE END)

CUSTOM-MADE  
OTHER CLASSES ARE AVAILABLE, SUCH AS H8, H9, G7  
OTHER DIAMETERS ARE AVAILABLE, SUCH AS 19.003mm  
OTHER LENGTHS ARE AVAILABLE, SUCH AS 70mm



6333-10

- Supplied with Go and No-Go gages together
- Made of ceramic, extremely wear resistance and corrosion resistance, dimensional stability
- Standard DIN7150-2



Size tolerance of H7

(mm)

Diameter	Size tolerance of Go gage Ød1 (µm)	Size tolerance of No-Go gage Ød2 (µm)	L1	L2	L
≥0.5, ≤3	+0.5/+2.5	+9/+11	20	15	95
>3, ≤6	+0.75/+3.25	+10.75/+13.25	20	15	95
>6, ≤10	+0.75/+3.25	+13.75/+16.25	20	15	95
>10, ≤15	+1/+4	+16.5/+19.5	20	15	95
>15, ≤18	+1/+4	+16.5/+19.5	20	15	115
>18, ≤30	+1/+5	+19/+23	20	15	115
>30, ≤40	+1.5/+5.5	+23/+27	20	15	115

H7

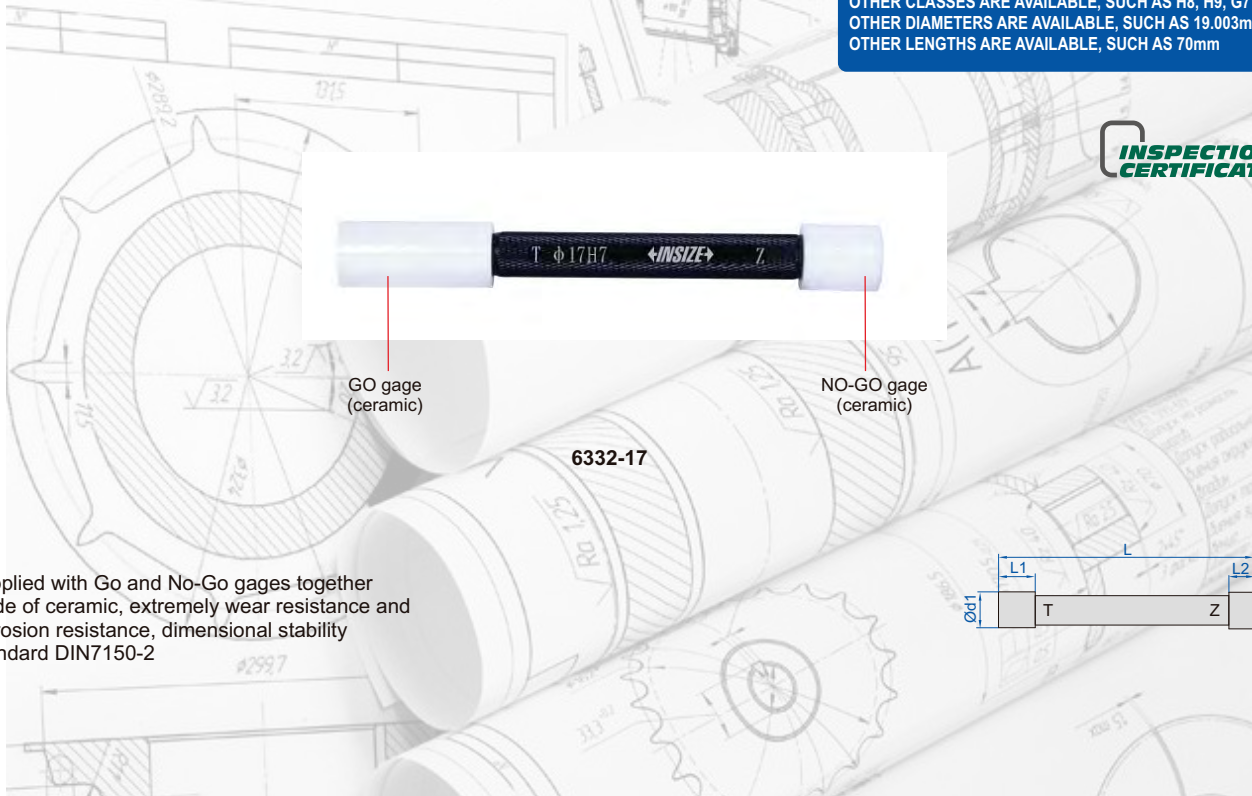
(mm)

Code	Diameter	Code	Diameter
6333-1 *	1	6333-21 *	21
6333-2 *	2	6333-22 *	22
6333-3 *	3	6333-23 *	23
6333-4 *	4	6333-24 *	24
6333-5 *	5	6333-25 *	25
6333-6 *	6	6333-26 *	26
6333-7 *	7	6333-27 *	27
6333-8 *	8	6333-28 *	28
6333-9 *	9	6333-29 *	29
6333-10 *	10	6333-30 *	30
6333-11 *	11	6333-31 *	31
6333-12 *	12	6333-32 *	32
6333-13 *	13	6333-33 *	33
6333-14 *	14	6333-34 *	34
6333-15 *	15	6333-35 *	35
6333-16 *	16	6333-36 *	36
6333-17 *	17	6333-37 *	37
6333-18 *	18	6333-38 *	38
6333-19 *	19	6333-39 *	39
6333-20 *	20	6333-40 *	40

\* Supplied with manufacturer inspection certificate

# CERAMIC PLAIN PLUG GAGES

CUSTOM-MADE  
OTHER CLASSES ARE AVAILABLE, SUCH AS H8, H9, G7  
OTHER DIAMETERS ARE AVAILABLE, SUCH AS 19.003mm  
OTHER LENGTHS ARE AVAILABLE, SUCH AS 70mm



- Supplied with Go and No-Go gages together
- Made of ceramic, extremely wear resistance and corrosion resistance, dimensional stability
- Standard DIN7150-2

Size tolerance of H7

Diameter	Size tolerance of Go gage $\phi d1$ ( $\mu m$ )	Size tolerance of No-Go gage $\phi d2$ ( $\mu m$ )	(mm)		
			L1	L2	L
$\geq 0.5, \leq 3$	+0.5/+2.5	+9/+11	20	15	95
$>3, \leq 6$	+0.75/+3.25	+10.75/+13.25	20	15	95
$>6, \leq 10$	+0.75/+3.25	+13.75/+16.25	20	15	95
$>10, \leq 15$	+1/+4	+16.5/+19.5	20	15	95
$>15, \leq 18$	+1/+4	+16.5/+19.5	20	15	115
$>18, \leq 30$	+1/+5	+19/+23	20	15	115
$>30, \leq 40$	+1.5/+5.5	+23/+27	20	15	115

H7

Code	Diameter	Code	Diameter	Code	Diameter
6332-1*	1	6332-17*	17	6332-34*	34
6332-2*	2	6332-18*	18	6332-35*	35
6332-3*	3	6332-19*	19	6332-36*	36
6332-4*	4	6332-20*	20	6332-37*	37
6332-5*	5	6332-21*	21	6332-38*	38
6332-6*	6	6332-22*	22	6332-39*	39
6332-7*	7	6332-23*	23	6332-40*	40
6332-8*	8	6332-24*	24	6332-41*	41
6332-9*	9	6332-25*	25	6332-42*	42
6332-10*	10	6332-26*	26	6332-43*	43
6332-11*	11	6332-27*	27	6332-44*	44
6332-12*	12	6332-28*	28	6332-45*	45
6332-13*	13	6332-29*	29	6332-46*	46
6332-14*	14	6332-30*	30	6332-47*	47
6332-15*	15	6332-31*	31	6332-48*	48
6332-16*	16	6332-32*	32	6332-49*	49
		6332-33*	33	6332-50*	50

\*Supplied with manufacturer inspection certificate



## CERAMIC MEASURING BALLS



4190-40D000

- Zirconia material, high strength and hardness, extremely wear resistance and corrosion resistance, good insulation, antistatic and magnetic resistance
- Mirror surface without holes
- Supplied with manufacturer inspection certificate

### Individual

Code	Diameter	Accuracy	Roundness
4190-1D000	1.000mm	±2µm	0.5µm
4190-1D200	1.200mm	±2µm	0.5µm
4190-1D300	1.300mm	±2µm	0.5µm
4190-1D340	1.340mm	±2µm	0.5µm
4190-1D500	1.500mm	±2µm	0.5µm
4190-1D588	1.588mm (1/16")	±2µm	0.5µm
4190-1D750	1.750mm	±2µm	0.5µm
4190-2D000	2.000mm	±2µm	0.5µm
4190-2D381	2.381mm (3/32")	±2µm	0.5µm
4190-2D500	2.500mm	±2µm	0.5µm
4190-2D778	2.778mm (7/64")	±2µm	0.5µm
4190-3D000	3.000mm	±2µm	0.5µm
4190-3D175	3.175mm (1/8")	±2µm	0.5µm
4190-3D500	3.500mm	±2µm	0.5µm
4190-3D969	3.969mm (5/32")	±2µm	0.5µm
4190-4D000	4.000mm	±2µm	0.5µm
4190-4D500	4.500mm	±2µm	0.5µm
4190-4D763	4.763mm (3/16")	±2µm	0.5µm
4190-5D000	5.000mm	±2µm	0.5µm
4190-5D556	5.556mm (7/32")	±2µm	0.5µm
4190-5D953	5.953mm (15/64")	±2µm	0.5µm
4190-6D000	6.000mm	±2µm	0.5µm
4190-6D350	6.350mm (1/4")	±2µm	0.5µm
4190-6D500	6.500mm	±2µm	0.5µm
4190-6D747	6.747mm (17/64")	±2µm	0.5µm
4190-7D000	7.000mm	±2µm	0.5µm
4190-7D144	7.144mm (9/32")	±2µm	0.5µm
4190-7D500	7.500mm	±2µm	0.5µm
4190-7D938	7.938mm (5/16")	±2µm	0.5µm
4190-8D000	8.000mm	±2µm	0.5µm
4190-8D731	8.731mm (11/32")	±2µm	0.5µm

### Individual

Code	Diameter	Accuracy	Roundness
4190-9D525	9.525mm (3/8")	±2µm	0.5µm
4190-10D000	10.000mm	±2µm	0.5µm
4190-10D318	10.318mm (13/32")	±2µm	0.5µm
4190-11D000	11.000mm	±2µm	0.5µm
4190-11D113	11.113mm (7/16")	±2µm	0.5µm
4190-11D509	11.509mm (29/64")	±2µm	0.5µm
4190-11D906	11.906mm (15/32")	±2µm	0.5µm
4190-12D000	12.000mm	±2µm	0.5µm
4190-12D303	12.303mm (31/64")	±2µm	0.5µm
4190-12D700	12.700mm (1/2")	±2µm	0.5µm
4190-13D000	13.000mm	±2µm	0.6µm
4190-13D494	13.494mm (17/32")	±2µm	0.6µm
4190-14D000	14.000mm	±2µm	0.6µm
4190-14D288	14.288mm (9/16")	±2µm	0.6µm
4190-15D000	15.000mm	±2µm	0.6µm
4190-15D081	15.081mm (19/32")	±2.5µm	0.6µm
4190-15D875	15.875mm (5/8")	±2.5µm	0.6µm
4190-16D000	16.000mm	±2.5µm	0.6µm
4190-16D669	16.669mm (21/32")	±2.5µm	0.6µm
4190-17D462	17.462mm (11/16")	±2.5µm	0.6µm
4190-18D000	18.000mm	±2.5µm	0.6µm
4190-18D256	18.256mm (23/32")	±2.5µm	0.6µm
4190-19D050	19.050mm (3/4")	±2.5µm	0.6µm
4190-19D844	19.844mm (25/32")	±2.5µm	0.6µm
4190-20D000	20.000mm	±2.5µm	0.6µm
4190-22D000	22.000mm	±2.5µm	1µm
4190-22D225	22.225mm (7/8")	±2.5µm	1µm
4190-23D812	23.812mm (15/16")	±2.5µm	1µm
4190-25D000	25.000mm	±2.5µm	1µm
4190-40D000	40.000mm	±2.5µm	1.5µm

### Set (25 pairs)

Code	Ceramic balls included (one pair per size)
4190-S25	1, 1.5, 2, 2.5, 3, 3.5, 4, 4.5, 5, 6, 6.5, 7, 7.5, 8, 10, 11, 12, 13, 14, 15, 16, 18, 20, 22, 25mm

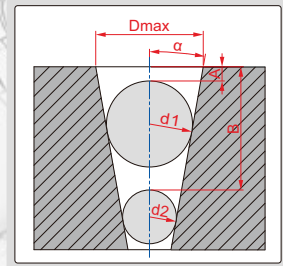
## STEEL MEASURING BALLS

- To measure angle and diameter of taper holes
- Material: tool steel
- Hardness: HRC63
- Diameter accuracy:  $\pm 3\mu\text{m}$
- Roundness:  $1\mu\text{m}$
- Supplied with manufacturer inspection certificate



4168-S25

calculate angle ( $\alpha$ ) and diameter ( $D_{\text{max}}$ ) according to the ball diameter ( $d_1$ ,  $d_2$ ), height (A) and depth (B)



### Individual

Code	Diameter
4168-01	1mm
4168-02	2mm
4168-03	3mm
4168-04	4mm
4168-05	5mm
4168-06	6mm
4168-07	7mm
4168-08	8mm
4168-09	9mm
4168-10	10mm
4168-11	11mm
4168-12	12mm
4168-13	13mm

Code	Diameter
4168-14	14mm
4168-15	15mm
4168-16	16mm
4168-17	17mm
4168-18	18mm
4168-19	19mm
4168-20	20mm
4168-21	21mm
4168-22	22mm
4168-23	23mm
4168-24	24mm
4168-25	25mm

### Set (25 pairs)

Code	Steel balls included (one pair per size)
4168-S25	1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 21, 22, 23, 24, 25mm

## THREADED HOLE LOCATION GAGES



ANY SIZE WITHIN THE RANGE OF M3-M150MM CAN BE CUSTOMIZED

ACCURACY CLASS CAN BE CUSTOMIZED

the concentricity between this surface and threaded part is less than  $3\mu\text{m}$

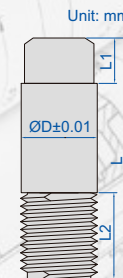
the taper of the thread part (top is big and bottom is small) lets the gage fixed in the thread holes



4662-12R



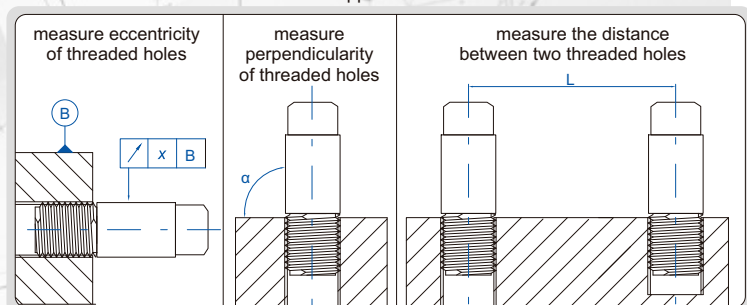
4662-3



- Hardness: HRC60-63

application

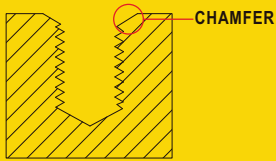
Code	Size	L	L1	L2	ØD
4662-3	M3×0.5-6H	29	8	6	3
4662-4	M4×0.7-6H	31.4	8	8.4	4
4662-5	M5×0.8-6H	32.6	8	9.6	5
4662-6	M6×1-6H	47	10	12	6
4662-8	M8×1.25-6H	50	10	15	8
4662-8P	M8×1-6H	47	10	12	8
4662-10	M10×1.5-6H	53	10	18	10
4662-10P	M10×1-6H	47	10	12	10
4662-12	M12×1.75-6H	56	10	21	12
4662-12P	M12×1-6H	47	10	12	12
4662-12R	M12×1.5-6H	53	10	18	12
4662-14	M14×2-6H	59	10	24	14
4662-14P	M14×1-6H	47	10	12	14
4662-14R	M14×1.5-6H	53	10	18	14
4662-16	M16×2-6H	59	10	24	16
4662-16P	M16×1-6H	47	10	12	16
4662-16R	M16×1.5-6H	53	10	18	16
4662-20	M20×2.5-6H	65	10	30	20
4662-20P	M20×1-6H	47	10	12	20
4662-20R	M20×1.5-6H	53	10	18	20



# THREADED HOLE LOCATION GAGES

**INSIZE PLUS**  
MADE IN EUROPE

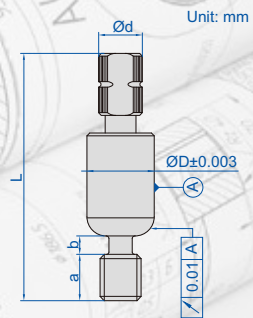
**ATTENTION: ONLY FOR THE WORKPIECES THAT THE CHAMFER IS CONCENTRIC WITH THE SCREW PART**



the concentricity between this surface and threaded part is less than 0.01mm

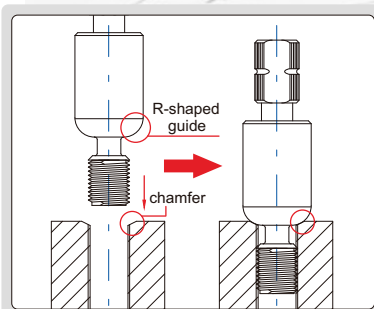


4676-12



- Only for the workpieces that the chamfer is concentric with the screw part

there is a R-shaped guide, which leads the gage to the center of the threaded holes by fitting the R-shaped guide on the chamfer of the threaded holes



application

locate the threaded holes on CMM	measure perpendicularity of threaded holes	measure the distance between two threaded holes

Code	Size	Ød	ØD	a	b	L
4676-3	M3×0.5	4	7	4	2	26
4676-4	M4×0.7	4	7	4	2	26
4676-5	M5×0.8	5.5	9	6	2	33
4676-6	M6×1.0	5.5	9	6	2	33
4676-8	M8×1.25	8.5	13	9	3.5	48
4676-10	M10×1.5	8.5	13	9	3.5	48
4676-12	M12×1.75	12	17	10	3.5	55

## DIGITAL THREAD DEPTH GAGES

**INSIZE PLUS**  
MADE IN EUROPE

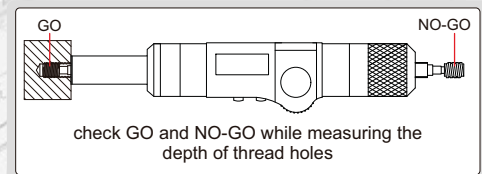
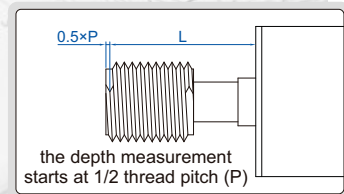
INSPECTION  
CERTIFICATE

DATA  
OUTPUT



4649-6

- Supplied with GO and NO-GO gages together
- Check GO and NO-GO while measuring the depth of thread holes
- Resolution: 0.01mm/0.0005"
- Depth 0-40mm: accuracy  $\pm 0.04\text{mm}$ ;  
Depth 40-80mm: accuracy  $\pm 0.06\text{mm}$
- Data output
- Button function: on/of, inch/metric conversion, reading hold, data preset, absolute/incremental measurement
- Battery CR2032, automatic power off, move the digital unit to turn on power
- The GO gage can be replaced after wear
- Optional accessory: data output cable (code 7302-85), zero block (code 4668-SETTER), removal tool (code 4668-TOOL)



### Metric thread

Code	Size (mm)	Depth range
4649-2*	M2x0.4-6H	0-8mm
4649-2D5*	M2.5x0.45-6H	0-10mm
4649-3*	M3x0.5-6H	0-12mm
4649-3D5*	M3.5x0.6-6H	0-14mm
4649-4*	M4x0.7-6H	0-16mm
4649-5*	M5x0.8-6H	0-20mm
4649-6*	M6x1-6H	0-24mm
4649-7*	M7x1-6H	0-28mm
4649-8*	M8x1.25-6H	0-32mm
4649-10*	M10x1.5-6H	0-40mm
4649-12*	M12x1.75-6H	0-48mm
4649-14*	M14x2-6H	0-56mm
4649-16*	M16x2-6H	0-64mm
4649-18*	M18x2.5-6H	0-72mm
4649-20*	M20x2.5-6H	0-80mm
4649-22*	M22x2.5-6H	0-80mm
4649-24*	M24x3-6H	0-80mm
4649-27*	M27x3-6H	0-80mm
4649-30*	M30x3.5-6H	0-80mm

### Metric fine thread

Code	Size (mm)	Depth range
4649-8P*	M8x1-6H	0-32mm
4649-10P*	M10x1-6H	0-40mm
4649-10T*	M10x1.25-6H	0-40mm
4649-12P*	M12x1-6H	0-48mm
4649-12T*	M12x1.25-6H	0-48mm
4649-12R*	M12x1.5-6H	0-48mm
4649-14P*	M14x1-6H	0-56mm
4649-14T*	M14x1.25-6H	0-56mm
4649-14R*	M14x1.5-6H	0-56mm
4649-16P*	M16x1-6H	0-64mm
4649-16R*	M16x1.5-6H	0-64mm
4649-18P*	M18x1-6H	0-72mm
4649-18R*	M18x1.5-6H	0-72mm
4649-20P*	M20x1-6H	0-80mm
4649-20R*	M20x1.5-6H	0-80mm
4649-22P*	M22x1-6H	0-80mm
4649-22R*	M22x1.5-6H	0-80mm
4649-24P*	M24x1-6H	0-80mm
4649-24R*	M24x1.5-6H	0-80mm

\* Supplied with manufacturer inspection certificate

## THREAD DEPTH GAUGES

**INSIZE PLUS**  
MADE IN EUROPE

**INSPECTION  
CERTIFICATE**

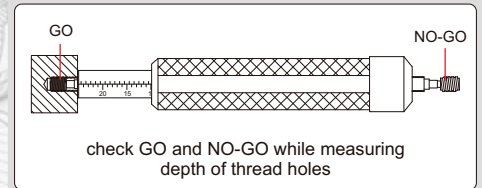
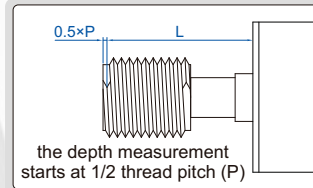


4666-6

- Supplied with GO and NO-GO gages together
- Check GO and NO-GO while measuring the depth thread holes
- The GO gage can be replaced after wear
- Optional accessory: zero block (code 4668-SETTER), removal tool (code 4668-TOOL)



4666-14PA



**Metric thread** (without vernier reading, graduation: 0.5mm, accuracy:  $\pm 0.25\text{mm}$ )

Code	Size (mm)	Depth range
4666-2*	M2x0.4-6H	0-8mm
4666-2D5*	M2.5x0.45-6H	0-10mm
4666-3*	M3x0.5-6H	0-12mm
4666-3D5*	M3.5x0.6-6H	0-14mm
4666-4*	M4x0.7-6H	0-16mm
4666-5*	M5x0.8-6H	0-20mm
4666-6*	M6x1-6H	0-24mm
4666-7*	M7x1-6H	0-28mm
4666-8*	M8x1.25-6H	0-32mm
4666-10*	M10x1.5-6H	0-40mm
4666-12*	M12x1.75-6H	0-48mm
4666-14*	M14x2-6H	0-56mm
4666-16*	M16x2-6H	0-64mm
4666-18*	M18x2.5-6H	0-72mm
4666-20*	M20x2.5-6H	0-80mm
4666-22*	M22x2.5-6H	0-80mm
4666-24*	M24x3-6H	0-80mm
4666-27*	M27x3-6H	0-80mm
4666-30*	M30x3.5-6H	0-80mm

**Metric thread** (with vernier reading, graduation: 0.1mm, accuracy:  $\pm 0.1\text{mm}$ )

Code	Size (mm)	Depth range
4666-2A*	M2x0.4-6H	0-8mm
4666-2D5A*	M2.5x0.45-6H	0-10mm
4666-3A*	M3x0.5-6H	0-12mm
4666-3D5A*	M3.5x0.6-6H	0-14mm
4666-4A*	M4x0.7-6H	0-16mm
4666-5A*	M5x0.8-6H	0-20mm
4666-6A	M6x1-6H	0-24mm
4666-7A*	M7x1-6H	0-28mm
4666-8A*	M8x1.25-6H	0-32mm
4666-10A*	M10x1.5-6H	0-40mm
4666-12A*	M12x1.75-6H	0-48mm
4666-14A*	M14x2-6H	0-56mm
4666-16A*	M16x2-6H	0-64mm
4666-18A*	M18x2.5-6H	0-72mm
4666-20A*	M20x2.5-6H	0-80mm
4666-22A*	M22x2.5-6H	0-80mm
4666-24A*	M24x3-6H	0-80mm
4666-27A*	M27x3-6H	0-80mm
4666-30A*	M30x3.5-6H	0-80mm



**Metric fine thread** (without vernier reading, graduation: 0.5mm, accuracy:  $\pm 0.25\text{mm}$ )

Code	Size (mm)	Depth range
4666-8P*	M8x1-6H	0-32mm
4666-10P*	M10x1-6H	0-40mm
4666-10T*	M10x1.25-6H	0-40mm
4666-12P*	M12x1-6H	0-48mm
4666-12T*	M12x1.25-6H	0-48mm
4666-12R*	M12x1.5-6H	0-48mm
4666-14P*	M14x1-6H	0-56mm
4666-14T*	M14x1.25-6H	0-56mm
4666-14R*	M14x1.5-6H	0-56mm
4666-16P*	M16x1-6H	0-64mm
4666-16R*	M16x1.5-6H	0-64mm
4666-18P*	M18x1-6H	0-72mm
4666-18R*	M18x1.5-6H	0-72mm
4666-20P*	M20x1-6H	0-80mm
4666-20R*	M20x1.5-6H	0-80mm
4666-22P*	M22x1-6H	0-80mm
4666-22R*	M22x1.5-6H	0-80mm
4666-24P*	M24x1-6H	0-80mm
4666-24R*	M24x1.5-6H	0-80mm

**Metric fine thread** (with vernier reading, graduation: 0.1mm, accuracy:  $\pm 0.1\text{mm}$ )

Code	Size (mm)	Depth range
4666-8PA*	M8x1-6H	0-32mm
4666-10PA*	M10x1-6H	0-40mm
4666-10TA*	M10x1.25-6H	0-40mm
4666-12PA*	M12x1-6H	0-48mm
4666-12TA*	M12x1.25-6H	0-48mm
4666-12RA*	M12x1.5-6H	0-48mm
4666-14PA*	M14x1-6H	0-56mm
4666-14TA*	M14x1.25-6H	0-56mm
4666-14RA*	M14x1.5-6H	0-56mm
4666-16PA*	M16x1-6H	0-64mm
4666-16RA*	M16x1.5-6H	0-64mm
4666-18PA*	M18x1-6H	0-72mm
4666-18RA*	M18x1.5-6H	0-72mm
4666-20PA*	M20x1-6H	0-80mm
4666-20RA*	M20x1.5-6H	0-80mm
4666-22PA*	M22x1-6H	0-80mm
4666-22RA*	M22x1.5-6H	0-80mm
4666-24PA*	M24x1-6H	0-80mm
4666-24RA*	M24x1.5-6H	0-80mm

\* Supplied with manufacturer inspection certificate

## DLC COATED THREAD RING GAGES AND PLUG GAGES



DLC coated GO ring gage



DLC coated GO plug gage

- The DLC coating has the following advantages:
  - High hardness, extremely wear resistance
  - Low friction coefficient
  - Corrosion resistance
- Plug gages: GO is coated, NO-GO is not; Ring gages: GO is coated, NO-GO is not
- The following thread ring gages and plug gages are available with DLC coating:
  - Metric fine thread ring gages and plug gages (**4139, 4129** series);
  - Metric thread ring gages and plug gages (**4130, 4120** series);
  - American standard thread ring gages and plug gages (**4131, 4121** series)

Code example:

Original code	DLC coating code
4120-12	4120-12-DLC
4130-4	4130-4-DLC

DLC coating characteristics

Hardness	6000HV
Friction coefficient	0.15
Coating color	interference color

## METRIC THREAD PLUG GAGES

- Supplied with Go and No-Go gages together
- Standard ISO1502
- Supplied with manufacturer inspection certificate



4130-10

WARNING: LIFE TIME IS LIMITED, CAN BE USED ABOUT 2000 TIMES



Individual

Size (mm)		Code		
Nominal diameter	Pitch	Class 6H	Class 6G	Class 4H
M0.8	0.2	4130-D8	4130-D8G	4130-D8H
M0.9	0.225	4130-D9	4130-D9G	4130-D9H
M1	0.25	4130-1	4130-1G	4130-1H
M1.1	0.25	4130-1D1	4130-1D1G	4130-1D1H
M1.2	0.25	4130-1D2	4130-1D2G	4130-1D2H
M1.4	0.3	4130-1D4	4130-1D4G	4130-1D4H
M1.6	0.35	4130-1D6	4130-1D6G	4130-1D6H
M1.7	0.35	4130-1D7	4130-1D7G	4130-1D7H
M1.8	0.35	4130-1D8	4130-1D8G	4130-1D8H
M2	0.4	4130-2	4130-2G	4130-2H
M2.2	0.45	4130-2D2	4130-2D2G	4130-2D2H
M2.3	0.4	4130-2D3	4130-2D3G	4130-2D3H
M2.5	0.45	4130-2D5	4130-2D5G	4130-2D5H
M2.6	0.45	4130-2D6	4130-2D6G	4130-2D6H
M3	0.5	4130-3	4130-3G	4130-3H
M3.5	0.6	4130-3D5	4130-3D5G	4130-3D5H
M4	0.7	4130-4	4130-4G	4130-4H
M4.5	0.75	4130-4D5	4130-4D5G	4130-4D5H
M5	0.8	4130-5	4130-5G	4130-5H
M6	1	4130-6	4130-6G	4130-6H
M7	1	4130-7	4130-7G	4130-7H
M8	1.25	4130-8	4130-8G	4130-8H

Individual

Size (mm)		Code		
Nominal diameter	Pitch	Class 6H	Class 6G	Class 4H
M9	1.25	4130-9	4130-9G	4130-9H
M10	1.5	4130-10	4130-10G	4130-10H
M11	1.5	4130-11	4130-11G	4130-11H
M12	1.75	4130-12	4130-12G	4130-12H
M14	2	4130-14	4130-14G	4130-14H
M16	2	4130-16	4130-16G	4130-16H
M18	2.5	4130-18	4130-18G	4130-18H
M20	2.5	4130-20	4130-20G	4130-20H
M22	2.5	4130-22	4130-22G	4130-22H
M24	3	4130-24	4130-24G	4130-24H
M27	3	4130-27	4130-27G	4130-27H
M30	3.5	4130-30	4130-30G	4130-30H
M33	3.5	4130-33	4130-33G	4130-33H
M36	4	4130-36	4130-36G	4130-36H
M39	4	4130-39	4130-39G	4130-39H
M42	4.5	4130-42	4130-42G	4130-42H
M45	4.5	4130-45	4130-45G	4130-45H
M48	5	4130-48	4130-48G	4130-48H
M52	5	4130-52	4130-52G	4130-52H
M56	5.5	4130-56	4130-56G	4130-56H
M60	5.5	4130-60	4130-60G	4130-60H
M64	6	4130-64	4130-64G	4130-64H
M68	6	4130-68	4130-68G	4130-68H

Set (class 6H)

Code	Thread plug gages included (mm)
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)

WARNING: LIFE TIME IS LIMITED,  
CAN BE USED ABOUT 2000 TIMES

## METRIC FINE THREAD PLUG GAGES

**INSPECTION  
CERTIFICATE**



4139-20G

- Supplied with Go and No-Go gages together
- Standard ISO1502
- Supplied with manufacturer inspection certificate

Code example:  
“-1A” stands for “4139-1A”

Size (mm)		Code (4139)		
Nominal diameter	Pitch	Class 6H	Class 6G	Class 4H
M1	0.2	-1A	-1AG	-1AH
M1.2	0.2	-1D2A	-1D2AG	-1D2AH
M1.4	0.2	-1D4A	-1D4AG	-1D4AH
M1.6	0.2	-1D6A	-1D6AG	-1D6AH
M1.8	0.2	-1D8A	-1D8AG	-1D8AH
M2	0.2	-2A	-2AG	-2AH
	0.25	-2B	-2BG	-2BH
M2.5	0.2	-2D5A	-2D5AG	-2D5AH
	0.25	-2D5B	-2D5BG	-2D5BH
	0.35	-2D5D	-2D5DG	-2D5DH
M3	0.25	-3B	-3BG	-3BH
	0.35	-3D	-3DG	-3DH
M3.5	0.25	-3D5B	-3D5BG	-3D5BH
	0.35	-3D5D	-3D5DG	-3D5DH
	0.5	-3D5G	-3D5GG	-3D5GH
M4	0.25	-4B	-4BG	-4BH
	0.35	-4D	-4DG	-4DH
	0.5	-4G	-4GG	-4GH
M4.5	0.35	-4D5D	-4D5DG	-4D5DH
	0.5	-4D5G	-4D5GG	-4D5GH
M5	0.25	-5B	-5BG	-5BH
	0.35	-5D	-5DG	-5DH
	0.5	-5G	-5GG	-5GH
M5.5	0.5	-5D5G	-5D5GG	-5D5GH
	0.25	-6B	-6BG	-6BH
M6	0.35	-6D	-6DG	-6DH
	0.5	-6G	-6GG	-6GH
	0.5	-6D5G	-6D5GG	-6D5GH
M7	0.35	-7D	-7DG	-7DH
	0.5	-7G	-7GG	-7GH
M7.5	0.5	-7D5G	-7D5GG	-7D5GH
	0.35	-8D	-8DG	-8DH
M8	0.5	-8G	-8GG	-8GH

Size (mm)		Code (4139)		
Nominal diameter	Pitch	Class 6H	Class 6G	Class 4H
M8	1	-8P	-8PG	-8PH
M8.5	0.5	-8D5G	-8D5GG	-8D5GH
	0.35	-9D	-9DG	-9DH
M9	0.5	-9G	-9GG	-9GH
	0.75	-9L	-9LG	-9LH
	1	-9P	-9PG	-9PH
M10	0.35	-10D	-10DG	-10DH
	0.5	-10G	-10GG	-10GH
	1	-10P	-10PG	-10PH
	1.25	-10Q	-10QG	-10QH
M11	0.5	-11G	-11GG	-11GH
	1	-11P	-11PG	-11PH
M12	0.5	-12G	-12GG	-12GH
	1	-12P	-12PG	-12PH
	1.25	-12Q	-12QG	-12QH
M13	1.5	-12R	-12RG	-12RH
	0.5	-13G	-13GG	-13GH
	1	-13P	-13PG	-13PH
M14	1.5	-13R	-13RG	-13RH
	0.5	-14G	-14GG	-14GH
	1	-14P	-14PG	-14PH
M15	1.25	-14Q	-14QG	-14QH
	1.5	-14R	-14RG	-14RH
	0.5	-15G	-15GG	-15GH
M16	1	-15P	-15PG	-15PH
	1.5	-15R	-15RG	-15RH
	0.5	-16G	-16GG	-16GH
M17	1	-16P	-16PG	-16PH
	1.25	-16Q	-16QG	-16QH
	1.5	-16R	-16RG	-16RH
M18	0.5	-17G	-17GG	-17GH
	1	-17P	-17PG	-17PH
	1.5	-17R	-17RG	-17RH

To be continued

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Size (mm)		Code (4139)		
Nominal diameter	Pitch	Class 6H	Class 6G	Class 4H
M18	0.5	-18G	-18GG	-18GH
	1	-18P	-18PG	-18PH
	1.25	-18Q	-18QG	-18QH
	1.5	-18R	-18RG	-18RH
	2	-18T	-18TG	-18TH
M19	0.5	-19G	-19GG	-19GH
	1	-19P	-19PG	-19PH
	1.5	-19R	-19RG	-19RH
M20	0.5	-20G	-20GG	-20GH
	1	-20P	-20PG	-20PH
	1.25	-20Q	-20QG	-20QH
	1.5	-20R	-20RG	-20RH
	2	-20T	-20TG	-20TH
M21	0.5	-21G	-21GG	-21GH
	1	-21P	-21PG	-21PH
	1.5	-21R	-21RG	-21RH
M22	0.5	-22G	-22GG	-22GH
	1	-22P	-22PG	-22PH
	1.25	-22Q	-22QG	-22QH
	1.5	-22R	-22RG	-22RH
M23	0.5	-23G	-23GG	-23GH
	1	-23P	-23PG	-23PH
	0.5	-24G	-24GG	-24GH
M24	1	-24P	-24PG	-24PH
	1.25	-24Q	-24QG	-24QH
	1.5	-24R	-24RG	-24RH
	2	-24T	-24TG	-24TH
M25	0.5	-25G	-25GG	-25GH
	1	-25P	-25PG	-25PH
	1.5	-25R	-25RG	-25RH
	2	-25T	-25TG	-25TH
M26	0.5	-26G	-26GG	-26GH
	1	-26P	-26PG	-26PH
	1.5	-26R	-26RG	-26RH
	2	-26T	-26TG	-26TH
M27	0.5	-27G	-27GG	-27GH
	1	-27P	-27PG	-27PH
	1.5	-27R	-27RG	-27RH
	2	-27T	-27TG	-27TH
M28	0.5	-28G	-28GG	-28GH
	1	-28P	-28PG	-28PH
	1.5	-28R	-28RG	-28RH
	2	-28T	-28TG	-28TH
M29	0.5	-29G	-29GG	-29GH
	0.75	-29L	-29LG	-29LH
M30	1	-29P	-29PG	-29PH
	0.5	-30G	-30GG	-30GH
	0.75	-30L	-30LG	-30LH
	1	-30P	-30PG	-30PH
	1.5	-30R	-30RG	-30RH
	2	-30T	-30TG	-30TH
	3	-30V	-30VG	-30VH

Size (mm)		Code (4139)		
Nominal diameter	Pitch	Class 6H	Class 6G	Class 4H
M31	0.5	-31G	-31GG	-31GH
	0.75	-31L	-31LG	-31LH
M32	0.5	-32G	-32GG	-32GH
	0.75	-32L	-32LG	-32LH
	1	-32P	-32PG	-32PH
	1.5	-32R	-32RG	-32RH
M33	2	-32T	-32TG	-32TH
	0.5	-33G	-33GG	-33GH
	0.75	-33L	-33LG	-33LH
	1	-33P	-33PG	-33PH
	1.5	-33R	-33RG	-33RH
M34	2	-33T	-33TG	-33TH
	3	-33V	-33VG	-33VH
	0.75	-34L	-34LG	-34LH
	1	-34P	-34PG	-34PH
M35	1.5	-34R	-34RG	-34RH
	2	-34T	-34TG	-34TH
	0.75	-35L	-35LG	-35LH
M36	1	-35P	-35PG	-35PH
	1.5	-35R	-35RG	-35RH
	2	-35T	-35TG	-35TH
	0.75	-36L	-36LG	-36LH
	1	-36P	-36PG	-36PH
M37	1.5	-36R	-36RG	-36RH
	2	-36T	-36TG	-36TH
	3	-36V	-36VG	-36VH
M38	0.75	-37L	-37LG	-37LH
	1	-38P	-38PG	-38PH
	1.5	-38R	-38RG	-38RH
	2	-38T	-38TG	-38TH
M39	0.75	-39L	-39LG	-39LH
	1	-39P	-39PG	-39PH
	1.5	-39R	-39RG	-39RH
	2	-39T	-39TG	-39TH
	3	-39V	-39VG	-39VH
M40	0.75	-40L	-40LG	-40LH
	1	-40P	-40PG	-40PH
	1.5	-40R	-40RG	-40RH
	2	-40T	-40TG	-40TH
M42	3	-40V	-40VG	-40VH
	1	-42P	-42PG	-42PH
	1.5	-42R	-42RG	-42RH
M45	2	-42T	-42TG	-42TH
	3	-42V	-42VG	-42VH
	1	-45P	-45PG	-45PH
M48	1.5	-45R	-45RG	-45RH
	2	-45T	-45TG	-45TH
	3	-45V	-45VG	-45VH
	1	-48P	-48PG	-48PH
	1.5	-48R	-48RG	-48RH
	2	-48T	-48TG	-48TH
	3	-48V	-48VG	-48VH



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Size (mm)		Code (4139)			Size (mm)		Code (4139)			
Nominal diameter	Pitch	Class 6H	Class 6G	Class 4H	Nominal diameter	Pitch	Class 6H	Class 6G	Class 4H	
M50	1	-50P	-50PG	-50PH	M72	2	-72T	-72TG	-72TH	
	1.5	-50R	-50RG	-50RH		3	-72V	-72VG	-72VH	
	2	-50T	-50TG	-50TH		4	-72X	-72XG	-72XH	
	3	-50V	-50VG	-50VH		6	-72O	-72OG	-72OH	
M52	1	-52P	-52PG	-52PH	M75	1.5	-75R	-75RG	-75RH	
	1.5	-52R	-52RG	-52RH		2	-75T	-75TG	-75TH	
	2	-52T	-52TG	-52TH		3	-75V	-75VG	-75VH	
	3	-52V	-52VG	-52VH		4	-75X	-75XG	-75XH	
M55	1	-55P	-55PG	-55PH	M76	1.5	-76R	-76RG	-76RH	
	1.5	-55R	-55RG	-55RH		2	-76T	-76TG	-76TH	
	2	-55T	-55TG	-55TH		3	-76V	-76VG	-76VH	
	3	-55V	-55VG	-55VH		4	-76X	-76XG	-76XH	
M56	1	-56P	-56PG	-56PH	M78	6	-76O	-76OG	-76OH	
	1.5	-56R	-56RG	-56RH		2	-78T	-78TG	-78TH	
	2	-56T	-56TG	-56TH		M80	1.5	-80R	-80RG	-80RH
	3	-56V	-56VG	-56VH			2	-80T	-80TG	-80TH
4	-56X	-56XG	-56XH	3	-80V		-80VG	-80VH		
M58	1	-58P	-58PG	-58PH	M82		4	-80X	-80XG	-80XH
	1.5	-58R	-58RG	-58RH		6	-80O	-80OG	-80OH	
	2	-58T	-58TG	-58TH		M85	2	-82T	-82TG	-82TH
	3	-58V	-58VG	-58VH			2	-85T	-85TG	-85TH
4	-58X	-58XG	-58XH	3	-85V		-85VG	-85VH		
M60	1	-60P	-60PG	-60PH	M90		4	-85X	-85XG	-85XH
	1.5	-60R	-60RG	-60RH		6	-85O	-85OG	-85OH	
	2	-60T	-60TG	-60TH		2	-90T	-90TG	-90TH	
	3	-60V	-60VG	-60VH		3	-90V	-90VG	-90VH	
M62	4	-60X	-60XG	-60XH	M95	4	-90X	-90XG	-90XH	
	1.5	-62R	-62RG	-62RH		6	-90O	-90OG	-90OH	
	2	-62T	-62TG	-62TH		M100	2	-95T	-95TG	-95TH
	3	-62V	-62VG	-62VH			3	-95V	-95VG	-95VH
4	-62X	-62XG	-62XH	4	-95X		-95XG	-95XH		
M64	1.5	-64R	-64RG	-64RH	M105		6	-95O	-95OG	-95OH
	2	-64T	-64TG	-64TH		2	-100T	-100TG	-100TH	
	3	-64V	-64VG	-64VH		3	-100V	-100VG	-100VH	
	4	-64X	-64XG	-64XH		4	-100X	-100XG	-100XH	
M65	1.5	-65R	-65RG	-65RH	M110	6	-100O	-100OG	-100OH	
	2	-65T	-65TG	-65TH		2	-105T	-105TG	-105TH	
	3	-65V	-65VG	-65VH		3	-105V	-105VG	-105VH	
	4	-65X	-65XG	-65XH		4	-105X	-105XG	-105XH	
M68	1.5	-68R	-68RG	-68RH	M115	6	-105O	-105OG	-105OH	
	2	-68T	-68TG	-68TH		2	-110T	-110TG	-110TH	
	3	-68V	-68VG	-68VH		3	-110V	-110VG	-110VH	
	4	-68X	-68XG	-68XH		4	-110X	-110XG	-110XH	
M70	1.5	-70R	-70RG	-70RH	M120	6	-110O	-110OG	-110OH	
	2	-70T	-70TG	-70TH		2	-115T	-115TG	-115TH	
	3	-70V	-70VG	-70VH		3	-115V	-115VG	-115VH	
	4	-70X	-70XG	-70XH		4	-115X	-115XG	-115XH	
M72	6	-70O	-70OG	-70OH	M120	6	-115O	-115OG	-115OH	
	1.5	-72R	-72RG	-72RH		2	-120T	-120TG	-120TH	
						3	-120V	-120VG	-120VH	
						4	-120X	-120XG	-120XH	
					6	-120O	-120OG	-120OH		

# METRIC THREAD RING GAGES

WARNING: LIFE TIME IS LIMITED,  
CAN BE USED ABOUT 2000 TIMES



- Standard ISO1502
- Supplied with manufacturer inspection certificate



4120-16



4120-16N

Code example:  
"-2" stands for "4120-2"

Individual

Size (mm)		Code (4120)					
		Class 6g		Class 6e		Class 6h	
Nominal diameter	Pitch	GO	NOGO	GO	NOGO	GO	NOGO
M2	0.4	-2	-2N	-2E	-2EN	-2H	-2HN
M2.2	0.45	-2D2	-2D2N	-2D2E	-2D2EN	-2D2H	-2D2HN
M2.3	0.4	-2D3	-2D3N	-2D3E	-2D3EN	-2D3H	-2D3HN
M2.5	0.45	-2D5	-2D5N	-2D5E	-2D5EN	-2D5H	-2D5HN
M2.6	0.45	-2D6	-2D6N	-2D6E	-2D6EN	-2D6H	-2D6HN
M3	0.5	-3	-3N	-3E	-3EN	-3H	-3HN
M3.5	0.6	-3D5	-3D5N	-3D5E	-3D5EN	-3D5H	-3D5HN
M4	0.7	-4	-4N	-4E	-4EN	-4H	-4HN
M4.5	0.75	-4D5	-4D5N	-4D5E	-4D5EN	-4D5H	-4D5HN
M5	0.8	-5	-5N	-5E	-5EN	-5H	-5HN
M6	1	-6	-6N	-6E	-6EN	-6H	-6HN
M7	1	-7	-7N	-7E	-7EN	-7H	-7HN
M8	1.25	-8	-8N	-8E	-8EN	-8H	-8HN
M9	1.25	-9	-9N	-9E	-9EN	-9H	-9HN
M10	1.5	-10	-10N	-10E	-10EN	-10H	-10HN
M11	1.5	-11	-11N	-11E	-11EN	-11H	-11HN
M12	1.75	-12	-12N	-12E	-12EN	-12H	-12HN
M14	2	-14	-14N	-14E	-14EN	-14H	-14HN
M16	2	-16	-16N	-16E	-16EN	-16H	-16HN
M18	2.5	-18	-18N	-18E	-18EN	-18H	-18HN
M20	2.5	-20	-20N	-20E	-20EN	-20H	-20HN
M22	2.5	-22	-22N	-22E	-22EN	-22H	-22HN
M24	3	-24	-24N	-24E	-24EN	-24H	-24HN
M27	3	-27	-27N	-27E	-27EN	-27H	-27HN
M30	3.5	-30	-30N	-30E	-30EN	-30H	-30HN
M33	3.5	-33	-33N	-33E	-33EN	-33H	-33HN
M36	4	-36	-36N	-36E	-36EN	-36H	-36HN
M39	4	-39	-39N	-39E	-39EN	-39H	-39HN
M42	4.5	-42	-42N	-42E	-42EN	-42H	-42HN
M45	4.5	-45	-45N	-45E	-45EN	-45H	-45HN
M48	5	-48	-48N	-48E	-48EN	-48H	-48HN
M52	5	-52	-52N	-52E	-52EN	-52H	-52HN
M56	5.5	-56	-56N	-56E	-56EN	-56H	-56HN
M60	5.5	-60	-60N	-60E	-60EN	-60H	-60HN
M64	6	-64	-64N	-64E	-64EN	-64H	-64HN
M68	6	-68	-68N	-68E	-68EN	-68H	-68HN

Go ring gage set (Class 6g)

Code	Thread ring gages included (mm)
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 gage set (Class 6g)

Code	Thread ring gages included (mm)
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)



**WARNING: LIFE TIME IS LIMITED,  
CAN BE USED ABOUT 2000 TIMES**

## METRIC FINE THREAD RING GAGES

- Standard ISO1502
- Supplied with manufacturer inspection certificate (except gages larger than M100)



4129-10P



4129-10PN

Code example:  
“-3D5G” stands for “4129-3D5G”

Size (mm)		Code (4129)					
		Class 6g		Class 6e		Class 6h	
Nominal diameter	Pitch	GO	NOGO	GO	NOGO	GO	NOGO
M3.5	0.5	-3D5G	-3D5GN	-3D5GE	-3D5GEN	-3D5GH	-3D5GHN
M4	0.5	-4G	-4GN	-4GE	-4GEN	-4GH	-4GHN
M4.5	0.5	-4D5G	-4D5GN	-4D5GE	-4D5GEN	-4D5GH	-4D5GHN
M5	0.5	-5G	-5GN	-5GE	-5GEN	-5GH	-5GHN
M5.5	0.5	-5D5G	-5D5GN	-5D5GE	-5D5GEN	-5D5GH	-5D5GHN
M6	0.5	-6G	-6GN	-6GE	-6GEN	-6GH	-6GHN
	0.75	-6L	-6LN	-6LE	-6LEN	-6LH	-6LHN
M6.5	0.5	-6D5G	-6D5GN	-6D5GE	-6D5GEN	-6D5GH	-6D5GHN
M7	0.5	-7G	-7GN	-7GE	-7GEN	-7GH	-7GHN
	0.75	-7L	-7LN	-7LE	-7LEN	-7LH	-7LHN
M7.5	0.5	-7D5G	-7D5GN	-7D5GE	-7D5GEN	-7D5GH	-7D5GHN
M8	0.5	-8G	-8GN	-8GE	-8GEN	-8GH	-8GHN
	0.75	-8L	-8LN	-8LE	-8LEN	-8LH	-8LHN
	1	-8P	-8PN	-8PE	-8PEN	-8PH	-8PHN
M8.5	0.5	-8D5G	-8D5GN	-8D5GE	-8D5GEN	-8D5GH	-8D5GHN
M9	0.5	-9G	-9GN	-9GE	-9GEN	-9GH	-9GHN
	0.75	-9L	-9LN	-9LE	-9LEN	-9LH	-9LHN
	1	-9P	-9PN	-9PE	-9PEN	-9PH	-9PHN
M10	0.5	-10G	-10GN	-10GE	-10GEN	-10GH	-10GHN
	0.75	-10L	-10LN	-10LE	-10LEN	-10LH	-10LHN
	1	-10P	-10PN	-10PE	-10PEN	-10PH	-10PHN
	1.25	-10Q	-10QN	-10QE	-10QEN	-10QH	-10QHN
M11	0.5	-11G	-11GN	-11GE	-11GEN	-11GH	-11GHN
	0.75	-11L	-11LN	-11LE	-11LEN	-11LH	-11LHN
	1	-11P	-11PN	-11PE	-11PEN	-11PH	-11PHN
M12	0.5	-12G	-12GN	-12GE	-12GEN	-12GH	-12GHN
	0.75	-12L	-12LN	-12LE	-12LEN	-12LH	-12LHN
	1	-12P	-12PN	-12PE	-12PEN	-12PH	-12PHN
	1.25	-12Q	-12QN	-12QE	-12QEN	-12QH	-12QHN
M13	1.5	-12R	-12RN	-12RE	-12REN	-12RH	-12RHN
	0.5	-13G	-13GN	-13GE	-13GEN	-13GH	-13GHN
	0.75	-13L	-13LN	-13LE	-13LEN	-13LH	-13LHN
M14	1	-13P	-13PN	-13PE	-13PEN	-13PH	-13PHN
	1.5	-13R	-13RN	-13RE	-13REN	-13RH	-13RHN
	0.5	-14G	-14GN	-14GE	-14GEN	-14GH	-14GHN
	0.75	-14L	-14LN	-14LE	-14LEN	-14LH	-14LHN
M14	1	-14P	-14PN	-14PE	-14PEN	-14PH	-14PHN
	1.25	-14Q	-14QN	-14QE	-14QEN	-14QH	-14QHN
	1.5	-14R	-14RN	-14RE	-14REN	-14RH	-14RHN

To be continued

Continued from previous page

Size (mm)		Code (4129)					
Nominal diameter	Pitch	Class 6g		Class 6e		Class 6h	
		GO	NOGO	GO	NOGO	GO	NOGO
M15	0.5	-15G	-15GN	-15GE	-15GEN	-15GH	-15GHN
	0.75	-15L	-15LN	-15LE	-15LEN	-15LH	-15LHN
	1	-15P	-15PN	-15PE	-15PEN	-15PH	-15PHN
	1.5	-15R	-15RN	-15RE	-15REN	-15RH	-15RHN
M16	0.5	-16G	-16GN	-16GE	-16GEN	-16GH	-16GHN
	0.75	-16L	-16LN	-16LE	-16LEN	-16LH	-16LHN
	1	-16P	-16PN	-16PE	-16PEN	-16PH	-16PHN
	1.25	-16Q	-16QN	-16QE	-16QEN	-16QH	-16QHN
	1.5	-16R	-16RN	-16RE	-16REN	-16RH	-16RHN
M17	0.5	-17G	-17GN	-17GE	-17GEN	-17GH	-17GHN
	0.75	-17L	-17LN	-17LE	-17LEN	-17LH	-17LHN
	1	-17P	-17PN	-17PE	-17PEN	-17PH	-17PHN
	1.5	-17R	-17RN	-17RE	-17REN	-17RH	-17RHN
M18	0.5	-18G	-18GN	-18GE	-18GEN	-18GH	-18GHN
	0.75	-18L	-18LN	-18LE	-18LEN	-18LH	-18LHN
	1	-18P	-18PN	-18PE	-18PEN	-18PH	-18PHN
	1.25	-18Q	-18QN	-18QE	-18QEN	-18QH	-18QHN
	1.5	-18R	-18RN	-18RE	-18REN	-18RH	-18RHN
	2	-18T	-18TN	-18TE	-18TEN	-18TH	-18THN
M19	0.5	-19G	-19GN	-19GE	-19GEN	-19GH	-19GHN
	0.75	-19L	-19LN	-19LE	-19LEN	-19LH	-19LHN
	1	-19P	-19PN	-19PE	-19PEN	-19PH	-19PHN
	1.5	-19R	-19RN	-19RE	-19REN	-19RH	-19RHN
M20	0.5	-20G	-20GN	-20GE	-20GEN	-20GH	-20GHN
	0.75	-20L	-20LN	-20LE	-20LEN	-20LH	-20LHN
	1	-20P	-20PN	-20PE	-20PEN	-20PH	-20PHN
	1.25	-20Q	-20QN	-20QE	-20QEN	-20QH	-20QHN
	1.5	-20R	-20RN	-20RE	-20REN	-20RH	-20RHN
	2	-20T	-20TN	-20TE	-20TEN	-20TH	-20THN
M21	0.75	-21L	-21LN	-21LE	-21LEN	-21LH	-21LHN
	1	-21P	-21PN	-21PE	-21PEN	-21PH	-21PHN
	1.5	-21R	-21RN	-21RE	-21REN	-21RH	-21RHN
M22	0.75	-22L	-22LN	-22LE	-22LEN	-22LH	-22LHN
	1	-22P	-22PN	-22PE	-22PEN	-22PH	-22PHN
	1.25	-22Q	-22QN	-22QE	-22QEN	-22QH	-22QHN
	1.5	-22R	-22RN	-22RE	-22REN	-22RH	-22RHN
	2	-22T	-22TN	-22TE	-22TEN	-22TH	-22THN
M23	0.75	-23L	-23LN	-23LE	-23LEN	-23LH	-23LHN
	1	-23P	-23PN	-23PE	-23PEN	-23PH	-23PHN
M24	0.75	-24L	-24LN	-24LE	-24LEN	-24LH	-24LHN
	1	-24P	-24PN	-24PE	-24PEN	-24PH	-24PHN
	1.25	-24Q	-24QN	-24QE	-24QEN	-24QH	-24QHN
	1.5	-24R	-24RN	-24RE	-24REN	-24RH	-24RHN
M25	2	-24T	-24TN	-24TE	-24TEN	-24TH	-24THN
	0.75	-25L	-25LN	-25LE	-25LEN	-25LH	-25LHN
	1	-25P	-25PN	-25PE	-25PEN	-25PH	-25PHN
	1.5	-25R	-25RN	-25RE	-25REN	-25RH	-25RHN
M26	2	-25T	-25TN	-25TE	-25TEN	-25TH	-25THN
	0.75	-26L	-26LN	-26LE	-26LEN	-26LH	-26LHN
	1	-26P	-26PN	-26PE	-26PEN	-26PH	-26PHN
	1.5	-26R	-26RN	-26RE	-26REN	-26RH	-26RHN
	2	-26T	-26TN	-26TE	-26TEN	-26TH	-26THN

Continued from previous page

Size (mm)		Code (4129)					
Nominal diameter	Pitch	Class 6g		Class 6e		Class 6h	
		GO	NOGO	GO	NOGO	GO	NOGO
M27	0.75	-27L	-27LN	-27LE	-27LEN	-27LH	-27LHN
	1	-27P	-27PN	-27PE	-27PEN	-27PH	-27PHN
	1.5	-27R	-27RN	-27RE	-27REN	-27RH	-27RHN
M28	0.75	-28L	-28LN	-28LE	-28LEN	-28LH	-28LHN
	1	-28P	-28PN	-28PE	-28PEN	-28PH	-28PHN
	1.5	-28R	-28RN	-28RE	-28REN	-28RH	-28RHN
M29	0.75	-29L	-29LN	-29LE	-29LEN	-29LH	-29LHN
	1	-29P	-29PN	-29PE	-29PEN	-29PH	-29PHN
	1.5	-29R	-29RN	-29RE	-29REN	-29RH	-29RHN
M30	0.75	-30L	-30LN	-30LE	-30LEN	-30LH	-30LHN
	1	-30P	-30PN	-30PE	-30PEN	-30PH	-30PHN
	1.5	-30R	-30RN	-30RE	-30REN	-30RH	-30RHN
	2	-30T	-30TN	-30TE	-30TEN	-30TH	-30THN
M31	0.75	-31L	-31LN	-31LE	-31LEN	-31LH	-31LHN
	1	-31P	-31PN	-31PE	-31PEN	-31PH	-31PHN
	1.5	-31R	-31RN	-31RE	-31REN	-31RH	-31RHN
M32	0.75	-32L	-32LN	-32LE	-32LEN	-32LH	-32LHN
	1	-32P	-32PN	-32PE	-32PEN	-32PH	-32PHN
	1.5	-32R	-32RN	-32RE	-32REN	-32RH	-32RHN
M33	0.75	-33L	-33LN	-33LE	-33LEN	-33LH	-33LHN
	1	-33P	-33PN	-33PE	-33PEN	-33PH	-33PHN
	1.5	-33R	-33RN	-33RE	-33REN	-33RH	-33RHN
	2	-33T	-33TN	-33TE	-33TEN	-33TH	-33THN
M34	0.75	-34L	-34LN	-34LE	-34LEN	-34LH	-34LHN
	1	-34P	-34PN	-34PE	-34PEN	-34PH	-34PHN
	1.5	-34R	-34RN	-34RE	-34REN	-34RH	-34RHN
M35	0.75	-35L	-35LN	-35LE	-35LEN	-35LH	-35LHN
	1	-35P	-35PN	-35PE	-35PEN	-35PH	-35PHN
	1.5	-35R	-35RN	-35RE	-35REN	-35RH	-35RHN
M36	0.75	-36L	-36LN	-36LE	-36LEN	-36LH	-36LHN
	1	-36P	-36PN	-36PE	-36PEN	-36PH	-36PHN
	1.5	-36R	-36RN	-36RE	-36REN	-36RH	-36RHN
M38	0.75	-38L	-38LN	-38LE	-38LEN	-38LH	-38LHN
	1	-38P	-38PN	-38PE	-38PEN	-38PH	-38PHN
	1.5	-38R	-38RN	-38RE	-38REN	-38RH	-38RHN
M39	0.75	-39L	-39LN	-39LE	-39LEN	-39LH	-39LHN
	1	-39P	-39PN	-39PE	-39PEN	-39PH	-39PHN
	1.5	-39R	-39RN	-39RE	-39REN	-39RH	-39RHN
M40	0.75	-40L	-40LN	-40LE	-40LEN	-40LH	-40LHN
	1	-40P	-40PN	-40PE	-40PEN	-40PH	-40PHN
	1.5	-40R	-40RN	-40RE	-40REN	-40RH	-40RHN
M42	0.75	-42L	-42LN	-42LE	-42LEN	-42LH	-42LHN
	1	-42P	-42PN	-42PE	-42PEN	-42PH	-42PHN
	1.5	-42R	-42RN	-42RE	-42REN	-42RH	-42RHN
M45	0.75	-45L	-45LN	-45LE	-45LEN	-45LH	-45LHN
	1	-45P	-45PN	-45PE	-45PEN	-45PH	-45PHN
	1.5	-45R	-45RN	-45RE	-45REN	-45RH	-45RHN

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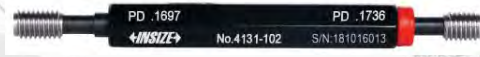
Size (mm)		Code (4129)					
Nominal diameter	Pitch	Class 6g		Class 6e		Class 6h	
		GO	NOGO	GO	NOGO	GO	NOGO
M48	1.5	-48R	-48RN	-48RE	-48REN	-48RH	-48RHN
	2	-48T	-48TN	-48TE	-48TEN	-48TH	-48THN
	3	-48V	-48VN	-48VE	-48VEN	-48VH	-48VHN
M50	1.5	-50R	-50RN	-50RE	-50REN	-50RH	-50RHN
	2	-50T	-50TN	-50TE	-50TEN	-50TH	-50THN
	3	-50V	-50VN	-50VE	-50VEN	-50VH	-50VHN
M52	1.5	-52R	-52RN	-52RE	-52REN	-52RH	-52RHN
	2	-52T	-52TN	-52TE	-52TEN	-52TH	-52THN
	3	-52V	-52VN	-52VE	-52VEN	-52VH	-52VHN
	4	-52X	-52XN	-52XE	-52XEN	-52XH	-52XHN
M55	1.5	-55R	-55RN	-55RE	-55REN	-55RH	-55RHN
	2	-55T	-55TN	-55TE	-55TEN	-55TH	-55THN
	3	-55V	-55VN	-55VE	-55VEN	-55VH	-55VHN
	4	-55X	-55XN	-55XE	-55XEN	-55XH	-55XHN
M56	1.5	-56R	-56RN	-56RE	-56REN	-56RH	-56RHN
	2	-56T	-56TN	-56TE	-56TEN	-56TH	-56THN
	3	-56V	-56VN	-56VE	-56VEN	-56VH	-56VHN
	4	-56X	-56XN	-56XE	-56XEN	-56XH	-56XHN
M58	1.5	-58R	-58RN	-58RE	-58REN	-58RH	-58RHN
	2	-58T	-58TN	-58TE	-58TEN	-58TH	-58THN
	3	-58V	-58VN	-58VE	-58VEN	-58VH	-58VHN
	4	-58X	-58XN	-58XE	-58XEN	-58XH	-58XHN
M60	1.5	-60R	-60RN	-60RE	-60REN	-60RH	-60RHN
	2	-60T	-60TN	-60TE	-60TEN	-60TH	-60THN
	3	-60V	-60VN	-60VE	-60VEN	-60VH	-60VHN
	4	-60X	-60XN	-60XE	-60XEN	-60XH	-60XHN
M62	1.5	-62R	-62RN	-62RE	-62REN	-62RH	-62RHN
	2	-62T	-62TN	-62TE	-62TEN	-62TH	-62THN
	3	-62V	-62VN	-62VE	-62VEN	-62VH	-62VHN
	4	-62X	-62XN	-62XE	-62XEN	-62XH	-62XHN
M64	1.5	-64R	-64RN	-64RE	-64REN	-64RH	-64RHN
	2	-64T	-64TN	-64TE	-64TEN	-64TH	-64THN
	3	-64V	-64VN	-64VE	-64VEN	-64VH	-64VHN
	4	-64X	-64XN	-64XE	-64XEN	-64XH	-64XHN
M65	1.5	-65R	-65RN	-65RE	-65REN	-65RH	-65RHN
	2	-65T	-65TN	-65TE	-65TEN	-65TH	-65THN
	3	-65V	-65VN	-65VE	-65VEN	-65VH	-65VHN
	4	-65X	-65XN	-65XE	-65XEN	-65XH	-65XHN
M68	1.5	-68R	-68RN	-68RE	-68REN	-68RH	-68RHN
	2	-68T	-68TN	-68TE	-68TEN	-68TH	-68THN
	3	-68V	-68VN	-68VE	-68VEN	-68VH	-68VHN
	4	-68X	-68XN	-68XE	-68XEN	-68XH	-68XHN
M70	1.5	-70R	-70RN	-70RE	-70REN	-70RH	-70RHN
	2	-70T	-70TN	-70TE	-70TEN	-70TH	-70THN
	3	-70V	-70VN	-70VE	-70VEN	-70VH	-70VHN
	4	-70X	-70XN	-70XE	-70XEN	-70XH	-70XHN
M72	6	-70O	-70ON	-70OE	-70OEN	-70OH	-70OHN
	1.5	-72R	-72RN	-72RE	-72REN	-72RH	-72RHN
	2	-72T	-72TN	-72TE	-72TEN	-72TH	-72THN

Continued from previous page

Size (mm)		Code (4129)					
Nominal diameter	Pitch	Class 6g		Class 6e		Class 6h	
		GO	NOGO	GO	NOGO	GO	NOGO
M72	3	-72V	-72VN	-72VE	-72VEN	-72VH	-72VHN
	4	-72X	-72XN	-72XE	-72XEN	-72XH	-72XHN
	6	-72O	-72ON	-72OE	-72OEN	-72OH	-72OHN
M75	1.5	-75R	-75RN	-75RE	-75REN	-75RH	-75RHN
	2	-75T	-75TN	-75TE	-75TEN	-75TH	-75THN
	3	-75V	-75VN	-75VE	-75VEN	-75VH	-75VHN
	4	-75X	-75XN	-75XE	-75XEN	-75XH	-75XHN
M76	1.5	-76R	-76RN	-76RE	-76REN	-76RH	-76RHN
	2	-76T	-76TN	-76TE	-76TEN	-76TH	-76THN
	3	-76V	-76VN	-76VE	-76VEN	-76VH	-76VHN
	4	-76X	-76XN	-76XE	-76XEN	-76XH	-76XHN
	6	-76O	-76ON	-76OE	-76OEN	-76OH	-76OHN
M78	2	-78T	-78TN	-78TE	-78TEN	-78TH	-78THN
M80	1.5	-80R	-80RN	-80RE	-80REN	-80RH	-80RHN
	2	-80T	-80TN	-80TE	-80TEN	-80TH	-80THN
	3	-80V	-80VN	-80VE	-80VEN	-80VH	-80VHN
	4	-80X	-80XN	-80XE	-80XEN	-80XH	-80XHN
M82	6	-80O	-80ON	-80OE	-80OEN	-80OH	-80OHN
	2	-82T	-82TN	-82TE	-82TEN	-82TH	-82THN
	2	-85T	-85TN	-85TE	-85TEN	-85TH	-85THN
M85	3	-85V	-85VN	-85VE	-85VEN	-85VH	-85VHN
	4	-85X	-85XN	-85XE	-85XEN	-85XH	-85XHN
	6	-85O	-85ON	-85OE	-85OEN	-85OH	-85OHN
	2	-90T	-90TN	-90TE	-90TEN	-90TH	-90THN
M90	3	-90V	-90VN	-90VE	-90VEN	-90VH	-90VHN
	4	-90X	-90XN	-90XE	-90XEN	-90XH	-90XHN
	6	-90O	-90ON	-90OE	-90OEN	-90OH	-90OHN
M95	2	-95T	-95TN	-95TE	-95TEN	-95TH	-95THN
	3	-95V	-95VN	-95VE	-95VEN	-95VH	-95VHN
	4	-95X	-95XN	-95XE	-95XEN	-95XH	-95XHN
	6	-95O	-95ON	-95OE	-95OEN	-95OH	-95OHN
M100	2	-100T	-100TN	-100TE	-100TEN	-100TH	-100THN
	3	-100V	-100VN	-100VE	-100VEN	-100VH	-100VHN
	4	-100X	-100XN	-100XE	-100XEN	-100XH	-100XHN
	6	-100O	-100ON	-100OE	-100OEN	-100OH	-100OHN
M105	2	-105T	-105TN	-105TE	-105TEN	-105TH	-105THN
	3	-105V	-105VN	-105VE	-105VEN	-105VH	-105VHN
	4	-105X	-105XN	-105XE	-105XEN	-105XH	-105XHN
	6	-105O	-105ON	-105OE	-105OEN	-105OH	-105OHN
M110	2	-110T	-110TN	-110TE	-110TEN	-110TH	-110THN
	3	-110V	-110VN	-110VE	-110VEN	-110VH	-110VHN
	4	-110X	-110XN	-110XE	-110XEN	-110XH	-110XHN
	6	-110O	-110ON	-110OE	-110OEN	-110OH	-110OHN
M115	2	-115T	-115TN	-115TE	-115TEN	-115TH	-115THN
	3	-115V	-115VN	-115VE	-115VEN	-115VH	-115VHN
	4	-115X	-115XN	-115XE	-115XEN	-115XH	-115XHN
	6	-115O	-115ON	-115OE	-115OEN	-115OH	-115OHN
M120	2	-120T	-120TN	-120TE	-120TEN	-120TH	-120THN
	3	-120V	-120VN	-120VE	-120VEN	-120VH	-120VHN
	4	-120X	-120XN	-120XE	-120XEN	-120XH	-120XHN
	6	-120O	-120ON	-120OE	-120OEN	-120OH	-120OHN

# AMERICAN STANDARD THREAD PLUG GAGES

WARNING: LIFE TIME IS LIMITED,  
CAN BE USED ABOUT 2000 TIMES



4131-102

- Supplied with Go and No-Go gages together
- Standard ANSI/ASME B1.2
- Supplied with manufacturer inspection certificate

Size	Code		Size	Code	
	Class 2B	Class 3B		Class 2B	Class 3B
No. 0-80UNF	4131-02	4131-02B	9/16-12UNC	4131-9D1	4131-9D1B
No. 1-64UNC	4131-11	4131-11B	9/16-18UNF	4131-9D2	4131-9D2B
No. 1-72UNF	4131-12	4131-12B	9/16-24UNEF	4131-9D3	4131-9D3B
No. 2-56UNC	4131-21	4131-21B	5/8-11UNC	4131-5C1	4131-5C1B
No. 2-64UNF	4131-22	4131-22B	5/8-18UNF	4131-5C2	4131-5C2B
No. 3-48UNC	4131-31	4131-31B	5/8-24UNEF	4131-5C3	4131-5C3B
No. 3-56UNF	4131-32	4131-32B	11/16-16UN	4131-11D516	4131-11D516B
No. 4-40UNC	4131-41	4131-41B	11/16-24UNEF	4131-11D3	4131-11D3B
No. 4-48UNF	4131-42	4131-42B	3/4-10UNC	4131-3B1	4131-3B1B
No. 5-40UNC	4131-51	4131-51B	3/4-16UNF	4131-3B2	4131-3B2B
No. 5-44UNF	4131-52	4131-52B	3/4-20UNEF	4131-3B3	4131-3B3B
No. 6-32UNC	4131-61	4131-61B	13/16-16UN	4131-13D516	4131-13D516B
No. 6-40UNF	4131-62	4131-62B	13/16-20UNEF	4131-13D3	4131-13D3B
No. 8-32UNC	4131-81	4131-81B	7/8-9UNC	4131-7C1	4131-7C1B
No. 8-36UNF	4131-82	4131-82B	7/8-14UNF	4131-7C2	4131-7C2B
No. 10-24UNC	4131-101	4131-101B	7/8-16UN	4131-7C516	4131-7C516B
No. 10-32UNF	4131-102	4131-102B	7/8-20UNEF	4131-7C3	4131-7C3B
No. 12-24UNC	4131-121	4131-121B	15/16-20UNEF	4131-15D3	4131-15D3B
No. 12-28UNF	4131-122	4131-122B	1-8UNC	4131-2A1	4131-2A1B
No. 12-32UNEF	4131-123	4131-123B	1-12UNF	4131-2A2	4131-2A2B
1/4-20UNC	4131-1B1	4131-1B1B	1-14UNS	4131-2A514	4131-2A514B
1/4-28UNF	4131-1B2	4131-1B2B	1-20UNEF	4131-2A3	4131-2A3B
1/4-32UNEF	4131-1B3	4131-1B3B	1-32UN	4131-2A532	4131-2A532B
1/4-36UNS	4131-1B4	4131-1B4B	1 1/16-12UN	4131-1E512	4131-1E512B
5/16-18UNC	4131-5D1	4131-5D1B	1 1/16-18UNEF	4131-1E3	4131-1E3B
5/16-24UNF	4131-5D2	4131-5D2B	1 1/8-7UNC	4131-1F1	4131-1F1B
5/16-32UNEF	4131-5D3	4131-5D3B	1 1/8-8UN	4131-1F58	4131-1F58B
3/8-16UNC	4131-3C1	4131-3C1B	1 1/8-12UNF	4131-1F2	4131-1F2B
3/8-24UNF	4131-3C2	4131-3C2B	1 1/8-18UNEF	4131-1F3	4131-1F3B
3/8-32UNEF	4131-3C3	4131-3C3B	1 3/16-12UN	4131-3E512	4131-3E512B
7/16-14UNC	4131-7D1	4131-7D1B	1 3/16-18UNEF	4131-3E3	4131-3E3B
7/16-20UNF	4131-7D2	4131-7D2B	1 1/4-7UNC	4131-1G1	4131-1G1B
7/16-28UNEF	4131-7D3	4131-7D3B	1 1/4-8UN	4131-1G58	4131-1G58B
1/2-13UNC	4131-1A1	4131-1A1B	1 1/4-12UNF	4131-1G2	4131-1G2B
1/2-20UNF	4131-1A2	4131-1A2B	1 1/4-18UNEF	4131-1G3	4131-1G3B
1/2-28UNEF	4131-1A3	4131-1A3B	1 5/16-12UN	4131-5E512	4131-5E512B



## AMERICAN STANDARD THREAD RING GAGES



4121-1B1



4121-1B1N

- Standard ANSI/ASME B1.2
- Class 2A
- Supplied with manufacturer inspection certificate

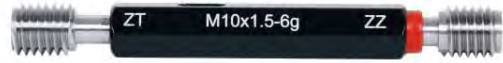
Size	Code	
	GO	NOGO
No. 4-40UNC	4121-41	4121-41N
No. 4-48UNF	4121-42	4121-42N
No. 5-40UNC	4121-51	4121-51N
No. 5-44UNF	4121-52	4121-52N
No. 6-32UNC	4121-61	4121-61N
No. 6-40UNF	4121-62	4121-62N
No. 8-32UNC	4121-81	4121-81N
No. 8-36UNF	4121-82	4121-82N
No. 10-24UNC	4121-101	4121-101N
No. 10-32UNF	4121-102	4121-102N
No. 12-24UNC	4121-121	4121-121N
No. 12-28UNF	4121-122	4121-122N
No. 12-32UNEF	4121-123	4121-123N
1/4-20UNC	4121-1B1	4121-1B1N
1/4-28UNF	4121-1B2	4121-1B2N
1/4-32UNEF	4121-1B3	4121-1B3N
1/4-36UNS	4121-1B4	4121-1B4N
5/16-18UNC	4121-5D1	4121-5D1N
5/16-24UNF	4121-5D2	4121-5D2N
5/16-32UNEF	4121-5D3	4121-5D3N
3/8-16UNC	4121-3C1	4121-3C1N
3/8-24UNF	4121-3C2	4121-3C2N
3/8-32UNEF	4121-3C3	4121-3C3N
7/16-14UNC	4121-7D1	4121-7D1N
7/16-20UNF	4121-7D2	4121-7D2N
7/16-28UNEF	4121-7D3	4121-7D3N
1/2-13UNC	4121-1A1	4121-1A1N
1/2-20UNF	4121-1A2	4121-1A2N
1/2-28UNEF	4121-1A3	4121-1A3N
9/16-12UNC	4121-9D1	4121-9D1N
9/16-18UNF	4121-9D2	4121-9D2N
9/16-24UNEF	4121-9D3	4121-9D3N

Size	Code	
	GO	NOGO
5/8-11UNC	4121-5C1	4121-5C1N
5/8-18UNF	4121-5C2	4121-5C2N
5/8-24UNEF	4121-5C3	4121-5C3N
11/16-16UN	4121-11D516	4121-11D516N
11/16-24UNEF	4121-11D3	4121-11D3N
3/4-10UNC	4121-3B1	4121-3B1N
3/4-16UNF	4121-3B2	4121-3B2N
3/4-20UNEF	4121-3B3	4121-3B3N
13/16-16UN	4121-13D516	4121-13D516N
13/16-20UNEF	4121-13D3	4121-13D3N
7/8-9UNC	4121-7C1	4121-7C1N
7/8-14UNF	4121-7C2	4121-7C2N
7/8-16UN	4121-7C516	4121-7C516N
7/8-20UNEF	4121-7C3	4121-7C3N
15/16-20UNEF	4121-15D3	4121-15D3N
1-8UNC	4121-2A1	4121-2A1N
1-12UNF	4121-2A2	4121-2A2N
1-14UNS	4121-2A514	4121-2A514N
1-20UNEF	4121-2A3	4121-2A3N
1-32UN	4121-2A532	4121-2A532N
1 1/16-12UN	4121-1E512	4121-1E512N
1 1/16-18UNEF	4121-1E3	4121-1E3N
1 1/8-7UNC	4121-1F1	4121-1F1N
1 1/8-8UN	4121-1F58	4121-1F58N
1 1/8-12UNF	4121-1F2	4121-1F2N
1 1/8-18UNEF	4121-1F3	4121-1F3N
1 3/16-12UN	4121-3E512	4121-3E512N
1 3/16-18UNEF	4121-3E3	4121-3E3N
1 1/4-7UNC	4121-1G1	4121-1G1N
1 1/4-8UN	4121-1G58	4121-1G58N
1 1/4-12UNF	4121-1G2	4121-1G2N
1 1/4-18UNEF	4121-1G3	4121-1G3N
1 5/16-12UN	4121-5E512	4121-5E512N

# CHECK PLUGS FOR METRIC THREAD RING GAGES



4647-10



4647-10N

- Standard ISO1502
- Check thread ring gages
- Supplied with manufacturer inspection certificate

Code example:  
“-2” stands for “4647-2”

Size (mm)		Code (4647)					
Nominal diameter	Pitch	Class 6g		Class 6e		Class 6h	
		GO	NOGO	GO	NOGO	GO	NOGO
M2	0.4	-2	-2N	-2E	-2EN	-2H	-2HN
M2.2	0.45	-2D2	-2D2N	-2D2E	-2D2EN	-2D2H	-2D2HN
M2.3	0.4	-2D3	-2D3N	-2D3E	-2D3EN	-2D3H	-2D3HN
M2.5	0.45	-2D5	-2D5N	-2D5E	-2D5EN	-2D5H	-2D5HN
M2.6	0.45	-2D6	-2D6N	-2D6E	-2D6EN	-2D6H	-2D6HN
M3	0.5	-3	-3N	-3E	-3EN	-3H	-3HN
M3.5	0.6	-3D5	-3D5N	-3D5E	-3D5EN	-3D5H	-3D5HN
M4	0.7	-4	-4N	-4E	-4EN	-4H	-4HN
M4.5	0.75	-4D5	-4D5N	-4D5E	-4D5EN	-4D5H	-4D5HN
M5	0.8	-5	-5N	-5E	-5EN	-5H	-5HN
M6	1	-6	-6N	-6E	-6EN	-6H	-6HN
M7	1	-7	-7N	-7E	-7EN	-7H	-7HN
M8	1.25	-8	-8N	-8E	-8EN	-8H	-8HN
M9	1.25	-9	-9N	-9E	-9EN	-9H	-9HN
M10	1.5	-10	-10N	-10E	-10EN	-10H	-10HN
M11	1.5	-11	-11N	-11E	-11EN	-11H	-11HN
M12	1.75	-12	-12N	-12E	-12EN	-12H	-12HN
M14	2	-14	-14N	-14E	-14EN	-14H	-14HN
M16	2	-16	-16N	-16E	-16EN	-16H	-16HN
M18	2.5	-18	-18N	-18E	-18EN	-18H	-18HN
M20	2.5	-20	-20N	-20E	-20EN	-20H	-20HN
M22	2.5	-22	-22N	-22E	-22EN	-22H	-22HN
M24	3	-24	-24N	-24E	-24EN	-24H	-24HN
M27	3	-27	-27N	-27E	-27EN	-27H	-27HN
M30	3.5	-30	-30N	-30E	-30EN	-30H	-30HN
M33	3.5	-33	-33N	-33E	-33EN	-33H	-33HN
M36	4	-36	-36N	-36E	-36EN	-36H	-36HN
M39	4	-39	-39N	-39E	-39EN	-39H	-39HN
M42	4.5	-42	-42N	-42E	-42EN	-42H	-42HN
M45	4.5	-45	-45N	-45E	-45EN	-45H	-45HN
M48	5	-48	-48N	-48E	-48EN	-48H	-48HN
M52	5	-52	-52N	-52E	-52EN	-52H	-52HN
M56	5.5	-56	-56N	-56E	-56EN	-56H	-56HN
M60	5.5	-60	-60N	-60E	-60EN	-60H	-60HN
M64	6	-64	-64N	-64E	-64EN	-64H	-64HN
M68	6	-68	-68N	-68E	-68EN	-68H	-68HN

## CHECK PLUGS FOR METRIC FINE THREAD RING GAGES



4677-10P



4677-10PN

- Standard ISO1502
- Check thread ring gages
- Supplied with manufacturer inspection certificate

Code example:  
"-3D5G" stands for "4677-3D5G"

Size (mm)		Code (4677)					
		Class 6g		Class 6e		Class 6h	
Nominal diameter	Pitch	GO	NOGO	GO	NOGO	GO	NOGO
M3.5	0.5	-3D5G	-3D5GN	-3D5GE	-3D5GEN	-3D5GH	-3D5GHN
M4	0.5	-4G	-4GN	-4GE	-4GEN	-4GH	-4GHN
M4.5	0.5	-4D5G	-4D5GN	-4D5GE	-4D5GEN	-4D5GH	-4D5GHN
M5	0.5	-5G	-5GN	-5GE	-5GEN	-5GH	-5GHN
M5.5	0.5	-5D5G	-5D5GN	-5D5GE	-5D5GEN	-5D5GH	-5D5GHN
M6	0.5	-6G	-6GN	-6GE	-6GEN	-6GH	-6GHN
	0.75	-6L	-6LN	-6LE	-6LEN	-6LH	-6LHN
M6.5	0.5	-6D5G	-6D5GN	-6D5GE	-6D5GEN	-6D5GH	-6D5GHN
M7	0.5	-7G	-7GN	-7GE	-7GEN	-7GH	-7GHN
	0.75	-7L	-7LN	-7LE	-7LEN	-7LH	-7LHN
M7.5	0.5	-7D5G	-7D5GN	-7D5GE	-7D5GEN	-7D5GH	-7D5GHN
M8	0.5	-8G	-8GN	-8GE	-8GEN	-8GH	-8GHN
	0.75	-8L	-8LN	-8LE	-8LEN	-8LH	-8LHN
	1	-8P	-8PN	-8PE	-8PEN	-8PH	-8PHN
M8.5	0.5	-8D5G	-8D5GN	-8D5GE	-8D5GEN	-8D5GH	-8D5GHN
M9	0.5	-9G	-9GN	-9GE	-9GEN	-9GH	-9GHN
	0.75	-9L	-9LN	-9LE	-9LEN	-9LH	-9LHN
	1	-9P	-9PN	-9PE	-9PEN	-9PH	-9PHN
M10	0.5	-10G	-10GN	-10GE	-10GEN	-10GH	-10GHN
	0.75	-10L	-10LN	-10LE	-10LEN	-10LH	-10LHN
	1	-10P	-10PN	-10PE	-10PEN	-10PH	-10PHN
	1.25	-10Q	-10QN	-10QE	-10QEN	-10QH	-10QHN
M11	0.5	-11G	-11GN	-11GE	-11GEN	-11GH	-11GHN
	0.75	-11L	-11LN	-11LE	-11LEN	-11LH	-11LHN
	1	-11P	-11PN	-11PE	-11PEN	-11PH	-11PHN
M12	0.5	-12G	-12GN	-12GE	-12GEN	-12GH	-12GHN
	0.75	-12L	-12LN	-12LE	-12LEN	-12LH	-12LHN
	1	-12P	-12PN	-12PE	-12PEN	-12PH	-12PHN
	1.25	-12Q	-12QN	-12QE	-12QEN	-12QH	-12QHN
	1.5	-12R	-12RN	-12RE	-12REN	-12RH	-12RHN
M13	0.5	-13G	-13GN	-13GE	-13GEN	-13GH	-13GHN
	0.75	-13L	-13LN	-13LE	-13LEN	-13LH	-13LHN
	1	-13P	-13PN	-13PE	-13PEN	-13PH	-13PHN
	1.5	-13R	-13RN	-13RE	-13REN	-13RH	-13RHN
M14	0.5	-14G	-14GN	-14GE	-14GEN	-14GH	-14GHN
	0.75	-14L	-14LN	-14LE	-14LEN	-14LH	-14LHN
	1	-14P	-14PN	-14PE	-14PEN	-14PH	-14PHN
	1.25	-14Q	-14QN	-14QE	-14QEN	-14QH	-14QHN
	1.5	-14R	-14RN	-14RE	-14REN	-14RH	-14RHN

Continued from previous page

Size (mm)		Code (4677)					
		Class 6g		Class 6e		Class 6h	
Nominal diameter	Pitch	GO	NOGO	GO	NOGO	GO	NOGO
M15	0.5	-15G	-15GN	-15GE	-15GEN	-15GH	-15GHN
	0.75	-15L	-15LN	-15LE	-15LEN	-15LH	-15LHN
	1	-15P	-15PN	-15PE	-15PEN	-15PH	-15PHN
	1.5	-15R	-15RN	-15RE	-15REN	-15RH	-15RHN
M16	0.5	-16G	-16GN	-16GE	-16GEN	-16GH	-16GHN
	0.75	-16L	-16LN	-16LE	-16LEN	-16LH	-16LHN
	1	-16P	-16PN	-16PE	-16PEN	-16PH	-16PHN
	1.25	-16Q	-16QN	-16QE	-16QEN	-16QH	-16QHN
	1.5	-16R	-16RN	-16RE	-16REN	-16RH	-16RHN
M17	0.5	-17G	-17GN	-17GE	-17GEN	-17GH	-17GHN
	0.75	-17L	-17LN	-17LE	-17LEN	-17LH	-17LHN
	1	-17P	-17PN	-17PE	-17PEN	-17PH	-17PHN
	1.5	-17R	-17RN	-17RE	-17REN	-17RH	-17RHN
M18	0.5	-18G	-18GN	-18GE	-18GEN	-18GH	-18GHN
	0.75	-18L	-18LN	-18LE	-18LEN	-18LH	-18LHN
	1	-18P	-18PN	-18PE	-18PEN	-18PH	-18PHN
	1.25	-18Q	-18QN	-18QE	-18QEN	-18QH	-18QHN
	1.5	-18R	-18RN	-18RE	-18REN	-18RH	-18RHN
	2	-18T	-18TN	-18TE	-18TEN	-18TH	-18THN
M19	0.5	-19G	-19GN	-19GE	-19GEN	-19GH	-19GHN
	0.75	-19L	-19LN	-19LE	-19LEN	-19LH	-19LHN
	1	-19P	-19PN	-19PE	-19PEN	-19PH	-19PHN
	1.5	-19R	-19RN	-19RE	-19REN	-19RH	-19RHN
M20	0.5	-20G	-20GN	-20GE	-20GEN	-20GH	-20GHN
	0.75	-20L	-20LN	-20LE	-20LEN	-20LH	-20LHN
	1	-20P	-20PN	-20PE	-20PEN	-20PH	-20PHN
	1.25	-20Q	-20QN	-20QE	-20QEN	-20QH	-20QHN
	1.5	-20R	-20RN	-20RE	-20REN	-20RH	-20RHN
	2	-20T	-20TN	-20TE	-20TEN	-20TH	-20THN
M21	0.75	-21L	-21LN	-21LE	-21LEN	-21LH	-21LHN
	1	-21P	-21PN	-21PE	-21PEN	-21PH	-21PHN
	1.5	-21R	-21RN	-21RE	-21REN	-21RH	-21RHN
M22	0.75	-22L	-22LN	-22LE	-22LEN	-22LH	-22LHN
	1	-22P	-22PN	-22PE	-22PEN	-22PH	-22PHN
	1.25	-22Q	-22QN	-22QE	-22QEN	-22QH	-22QHN
	1.5	-22R	-22RN	-22RE	-22REN	-22RH	-22RHN
	2	-22T	-22TN	-22TE	-22TEN	-22TH	-22THN
M23	0.75	-23L	-23LN	-23LE	-23LEN	-23LH	-23LHN
	1	-23P	-23PN	-23PE	-23PEN	-23PH	-23PHN
M24	0.75	-24L	-24LN	-24LE	-24LEN	-24LH	-24LHN
	1	-24P	-24PN	-24PE	-24PEN	-24PH	-24PHN
	1.25	-24Q	-24QN	-24QE	-24QEN	-24QH	-24QHN
	1.5	-24R	-24RN	-24RE	-24REN	-24RH	-24RHN
	2	-24T	-24TN	-24TE	-24TEN	-24TH	-24THN
M25	0.75	-25L	-25LN	-25LE	-25LEN	-25LH	-25LHN
	1	-25P	-25PN	-25PE	-25PEN	-25PH	-25PHN
	1.5	-25R	-25RN	-25RE	-25REN	-25RH	-25RHN
	2	-25T	-25TN	-25TE	-25TEN	-25TH	-25THN
M26	0.75	-26L	-26LN	-26LE	-26LEN	-26LH	-26LHN
	1	-26P	-26PN	-26PE	-26PEN	-26PH	-26PHN
	1.5	-26R	-26RN	-26RE	-26REN	-26RH	-26RHN
	2	-26T	-26TN	-26TE	-26TEN	-26TH	-26THN

Continued from previous page

Size (mm)		Code (4677)					
Nominal diameter	Pitch	Class 6g		Class 6e		Class 6h	
		GO	NOGO	GO	NOGO	GO	NOGO
M27	0.75	-27L	-27LN	-27LE	-27LEN	-27LH	-27LHN
	1	-27P	-27PN	-27PE	-27PEN	-27PH	-27PHN
	1.5	-27R	-27RN	-27RE	-27REN	-27RH	-27RHN
	2	-27T	-27TN	-27TE	-27TEN	-27TH	-27THN
M28	0.75	-28L	-28LN	-28LE	-28LEN	-28LH	-28LHN
	1	-28P	-28PN	-28PE	-28PEN	-28PH	-28PHN
	1.5	-28R	-28RN	-28RE	-28REN	-28RH	-28RHN
	2	-28T	-28TN	-28TE	-28TEN	-28TH	-28THN
M29	0.75	-29L	-29LN	-29LE	-29LEN	-29LH	-29LHN
	1	-29P	-29PN	-29PE	-29PEN	-29PH	-29PHN
M30	0.75	-30L	-30LN	-30LE	-30LEN	-30LH	-30LHN
	1	-30P	-30PN	-30PE	-30PEN	-30PH	-30PHN
	1.5	-30R	-30RN	-30RE	-30REN	-30RH	-30RHN
	2	-30T	-30TN	-30TE	-30TEN	-30TH	-30THN
M31	3	-30V	-30VN	-30VE	-30VEN	-30VH	-30VHN
	0.75	-31L	-31LN	-31LE	-31LEN	-31LH	-31LHN
M32	0.75	-32L	-32LN	-32LE	-32LEN	-32LH	-32LHN
	1	-32P	-32PN	-32PE	-32PEN	-32PH	-32PHN
	1.5	-32R	-32RN	-32RE	-32REN	-32RH	-32RHN
M33	2	-32T	-32TN	-32TE	-32TEN	-32TH	-32THN
	0.75	-33L	-33LN	-33LE	-33LEN	-33LH	-33LHN
	1	-33P	-33PN	-33PE	-33PEN	-33PH	-33PHN
	1.5	-33R	-33RN	-33RE	-33REN	-33RH	-33RHN
M34	2	-33T	-33TN	-33TE	-33TEN	-33TH	-33THN
	3	-33V	-33VN	-33VE	-33VEN	-33VH	-33VHN
	1	-34P	-34PN	-34PE	-34PEN	-34PH	-34PHN
M35	1.5	-34R	-34RN	-34RE	-34REN	-34RH	-34RHN
	2	-34T	-34TN	-34TE	-34TEN	-34TH	-34THN
M36	1	-35P	-35PN	-35PE	-35PEN	-35PH	-35PHN
	1.5	-35R	-35RN	-35RE	-35REN	-35RH	-35RHN
M38	2	-35T	-35TN	-35TE	-35TEN	-35TH	-35THN
	1	-36P	-36PN	-36PE	-36PEN	-36PH	-36PHN
	1.5	-36R	-36RN	-36RE	-36REN	-36RH	-36RHN
M39	2	-36T	-36TN	-36TE	-36TEN	-36TH	-36THN
	3	-36V	-36VN	-36VE	-36VEN	-36VH	-36VHN
	1	-38P	-38PN	-38PE	-38PEN	-38PH	-38PHN
M40	1.5	-38R	-38RN	-38RE	-38REN	-38RH	-38RHN
	2	-38T	-38TN	-38TE	-38TEN	-38TH	-38THN
M42	1	-39P	-39PN	-39PE	-39PEN	-39PH	-39PHN
	1.5	-39R	-39RN	-39RE	-39REN	-39RH	-39RHN
	2	-39T	-39TN	-39TE	-39TEN	-39TH	-39THN
M45	3	-39V	-39VN	-39VE	-39VEN	-39VH	-39VHN
	1.5	-40R	-40RN	-40RE	-40REN	-40RH	-40RHN
M45	2	-40T	-40TN	-40TE	-40TEN	-40TH	-40THN
	3	-40V	-40VN	-40VE	-40VEN	-40VH	-40VHN
	1.5	-42R	-42RN	-42RE	-42REN	-42RH	-42RHN
M45	2	-42T	-42TN	-42TE	-42TEN	-42TH	-42THN
	3	-42V	-42VN	-42VE	-42VEN	-42VH	-42VHN
M45	1.5	-45R	-45RN	-45RE	-45REN	-45RH	-45RHN
	2	-45T	-45TN	-45TE	-45TEN	-45TH	-45THN
	3	-45V	-45VN	-45VE	-45VEN	-45VH	-45VHN

Continued from previous page

Size (mm)		Code (4677)					
		Class 6g		Class 6e		Class 6h	
Nominal diameter	Pitch	GO	NOGO	GO	NOGO	GO	NOGO
M48	1.5	-48R	-48RN	-48RE	-48REN	-48RH	-48RHN
	2	-48T	-48TN	-48TE	-48TEN	-48TH	-48THN
	3	-48V	-48VN	-48VE	-48VEN	-48VH	-48VHN
M50	1.5	-50R	-50RN	-50RE	-50REN	-50RH	-50RHN
	2	-50T	-50TN	-50TE	-50TEN	-50TH	-50THN
	3	-50V	-50VN	-50VE	-50VEN	-50VH	-50VHN
M52	1.5	-52R	-52RN	-52RE	-52REN	-52RH	-52RHN
	2	-52T	-52TN	-52TE	-52TEN	-52TH	-52THN
	3	-52V	-52VN	-52VE	-52VEN	-52VH	-52VHN
	4	-52X	-52XN	-52XE	-52XEN	-52XH	-52XHN
M55	1.5	-55R	-55RN	-55RE	-55REN	-55RH	-55RHN
	2	-55T	-55TN	-55TE	-55TEN	-55TH	-55THN
	3	-55V	-55VN	-55VE	-55VEN	-55VH	-55VHN
	4	-55X	-55XN	-55XE	-55XEN	-55XH	-55XHN
M56	1.5	-56R	-56RN	-56RE	-56REN	-56RH	-56RHN
	2	-56T	-56TN	-56TE	-56TEN	-56TH	-56THN
	3	-56V	-56VN	-56VE	-56VEN	-56VH	-56VHN
	4	-56X	-56XN	-56XE	-56XEN	-56XH	-56XHN
M58	1.5	-58R	-58RN	-58RE	-58REN	-58RH	-58RHN
	2	-58T	-58TN	-58TE	-58TEN	-58TH	-58THN
	3	-58V	-58VN	-58VE	-58VEN	-58VH	-58VHN
	4	-58X	-58XN	-58XE	-58XEN	-58XH	-58XHN
M60	1.5	-60R	-60RN	-60RE	-60REN	-60RH	-60RHN
	2	-60T	-60TN	-60TE	-60TEN	-60TH	-60THN
	3	-60V	-60VN	-60VE	-60VEN	-60VH	-60VHN
	4	-60X	-60XN	-60XE	-60XEN	-60XH	-60XHN
M62	1.5	-62R	-62RN	-62RE	-62REN	-62RH	-62RHN
	2	-62T	-62TN	-62TE	-62TEN	-62TH	-62THN
	3	-62V	-62VN	-62VE	-62VEN	-62VH	-62VHN
	4	-62X	-62XN	-62XE	-62XEN	-62XH	-62XHN
M64	1.5	-64R	-64RN	-64RE	-64REN	-64RH	-64RHN
	2	-64T	-64TN	-64TE	-64TEN	-64TH	-64THN
	3	-64V	-64VN	-64VE	-64VEN	-64VH	-64VHN
	4	-64X	-64XN	-64XE	-64XEN	-64XH	-64XHN
M65	1.5	-65R	-65RN	-65RE	-65REN	-65RH	-65RHN
	2	-65T	-65TN	-65TE	-65TEN	-65TH	-65THN
	3	-65V	-65VN	-65VE	-65VEN	-65VH	-65VHN
	4	-65X	-65XN	-65XE	-65XEN	-65XH	-65XHN
M68	1.5	-68R	-68RN	-68RE	-68REN	-68RH	-68RHN
	2	-68T	-68TN	-68TE	-68TEN	-68TH	-68THN
	3	-68V	-68VN	-68VE	-68VEN	-68VH	-68VHN
	4	-68X	-68XN	-68XE	-68XEN	-68XH	-68XHN
M70	1.5	-70R	-70RN	-70RE	-70REN	-70RH	-70RHN
	2	-70T	-70TN	-70TE	-70TEN	-70TH	-70THN
	3	-70V	-70VN	-70VE	-70VEN	-70VH	-70VHN
	4	-70X	-70XN	-70XE	-70XEN	-70XH	-70XHN
	6	-70O	-70ON	-70OE	-70OEN	-70OH	-70OHN
M72	1.5	-72R	-72RN	-72RE	-72REN	-72RH	-72RHN
	2	-72T	-72TN	-72TE	-72TEN	-72TH	-72THN
	3	-72V	-72VN	-72VE	-72VEN	-72VH	-72VHN

Continued from previous page

Size (mm)		Code (4677)					
		Class 6g		Class 6e		Class 6h	
Nominal diameter	Pitch	GO	NOGO	GO	NOGO	GO	NOGO
M72	4	-72X	-72XN	-72XE	-72XEN	-72XH	-72XHN
	6	-72O	-72ON	-72OE	-72OEN	-72OH	-72OHN
M75	1.5	-75R	-75RN	-75RE	-75REN	-75RH	-75RHN
	2	-75T	-75TN	-75TE	-75TEN	-75TH	-75THN
	3	-75V	-75VN	-75VE	-75VEN	-75VH	-75VHN
	4	-75X	-75XN	-75XE	-75XEN	-75XH	-75XHN
M76	1.5	-76R	-76RN	-76RE	-76REN	-76RH	-76RHN
	2	-76T	-76TN	-76TE	-76TEN	-76TH	-76THN
	3	-76V	-76VN	-76VE	-76VEN	-76VH	-76VHN
	4	-76X	-76XN	-76XE	-76XEN	-76XH	-76XHN
	6	-76O	-76ON	-76OE	-76OEN	-76OH	-76OHN
M78	2	-78T	-78TN	-78TE	-78TEN	-78TH	-78THN
M80	1.5	-80R	-80RN	-80RE	-80REN	-80RH	-80RHN
	2	-80T	-80TN	-80TE	-80TEN	-80TH	-80THN
	3	-80V	-80VN	-80VE	-80VEN	-80VH	-80VHN
	4	-80X	-80XN	-80XE	-80XEN	-80XH	-80XHN
M82	6	-80O	-80ON	-80OE	-80OEN	-80OH	-80OHN
	2	-82T	-82TN	-82TE	-82TEN	-82TH	-82THN
M85	2	-85T	-85TN	-85TE	-85TEN	-85TH	-85THN
	3	-85V	-85VN	-85VE	-85VEN	-85VH	-85VHN
	4	-85X	-85XN	-85XE	-85XEN	-85XH	-85XHN
	6	-85O	-85ON	-85OE	-85OEN	-85OH	-85OHN
M90	2	-90T	-90TN	-90TE	-90TEN	-90TH	-90THN
	3	-90V	-90VN	-90VE	-90VEN	-90VH	-90VHN
	4	-90X	-90XN	-90XE	-90XEN	-90XH	-90XHN
	6	-90O	-90ON	-90OE	-90OEN	-90OH	-90OHN
M95	2	-95T	-95TN	-95TE	-95TEN	-95TH	-95THN
	3	-95V	-95VN	-95VE	-95VEN	-95VH	-95VHN
	4	-95X	-95XN	-95XE	-95XEN	-95XH	-95XHN
	6	-95O	-95ON	-95OE	-95OEN	-95OH	-95OHN
M100	2	-100T	-100TN	-100TE	-100TEN	-100TH	-100THN
	3	-100V	-100VN	-100VE	-100VEN	-100VH	-100VHN
	4	-100X	-100XN	-100XE	-100XEN	-100XH	-100XHN
	6	-100O	-100ON	-100OE	-100OEN	-100OH	-100OHN
M105	2	-105T	-105TN	-105TE	-105TEN	-105TH	-105THN
	3	-105V	-105VN	-105VE	-105VEN	-105VH	-105VHN
	4	-105X	-105XN	-105XE	-105XEN	-105XH	-105XHN
	6	-105O	-105ON	-105OE	-105OEN	-105OH	-105OHN
M110	2	-110T	-110TN	-110TE	-110TEN	-110TH	-110THN
	3	-110V	-110VN	-110VE	-110VEN	-110VH	-110VHN
	4	-110X	-110XN	-110XE	-110XEN	-110XH	-110XHN
	6	-110O	-110ON	-110OE	-110OEN	-110OH	-110OHN
M115	2	-115T	-115TN	-115TE	-115TEN	-115TH	-115THN
	3	-115V	-115VN	-115VE	-115VEN	-115VH	-115VHN
	4	-115X	-115XN	-115XE	-115XEN	-115XH	-115XHN
	6	-115O	-115ON	-115OE	-115OEN	-115OH	-115OHN
M120	2	-120T	-120TN	-120TE	-120TEN	-120TH	-120THN
	3	-120V	-120VN	-120VE	-120VEN	-120VH	-120VHN
	4	-120X	-120XN	-120XE	-120XEN	-120XH	-120XHN
	6	-120O	-120ON	-120OE	-120OEN	-120OH	-120OHN

# THREAD GAGES FOR ROTARY SHOULDERED CONNECTIONS OF PETROLEUM EQUIPMENT

API PRODUCTION LICENSE



4177-23

- Measure the thread of rotary shouldered connections

### Number style gages

Code	Gage code	Form of thread to be inspected	Number of thread per inch	Taper	Angle of thread	Basic pitch dia
4177-10	NC10	V-0.055	6	1:8	60°	27.000mm
4177-12	NC12	V-0.055	6	1:8	60°	32.121mm
4177-13	NC13	V-0.055	6	1:8	60°	35.331mm
4177-16	NC16	V-0.055	6	1:8	60°	40.869mm
4177-23	NC23	V-0.038R	4	1:6	60°	59.817mm
4177-26	NC26	V-0.038R	4	1:6	60°	67.767mm
4177-31	NC31	V-0.038R	4	1:6	60°	80.848mm
4177-35	NC35	V-0.038R	4	1:6	60°	89.687mm
4177-38	NC38	V-0.038R	4	1:6	60°	96.723mm
4177-40	NC40	V-0.038R	4	1:6	60°	103.429mm
4177-44	NC44	V-0.038R	4	1:6	60°	112.192mm
4177-46	NC46	V-0.038R	4	1:6	60°	117.500mm
4177-50	NC50	V-0.038R	4	1:6	60°	128.059mm
4177-56	NC56	V-0.038R	4	1:4	60°	142.646mm
4177-61	NC61	V-0.038R	4	1:4	60°	156.921mm
4177-70	NC70	V-0.038R	4	1:4	60°	179.146mm
4177-77	NC77	V-0.038R	4	1:4	60°	196.621mm

### Regular style gages

Code	Gage code	Form of thread to be inspected	Number of thread per inch	Taper	Angle of thread	Basic pitch dia
4177-2R	2 3/8 REG	V-0.040	5	1:4	60°	60.080mm
4177-21R	2 7/8 REG	V-0.040	5	1:4	60°	69.605mm
4177-3R	3 1/2 REG	V-0.040	5	1:4	60°	82.293mm
4177-4R	4 1/2 REG	V-0.040	5	1:4	60°	110.868mm
4177-5R	5 1/2 REG	V-0.050	4	1:4	60°	132.944mm
4177-6R	6 5/8 REG	V-0.050	4	1:6	60°	146.248mm
4177-7R	7 5/8 REG	V-0.050	4	1:4	60°	170.549mm
4177-8R	8 5/8 REG	V-0.050	4	1:4	60°	194.731mm

### Full-hole style gages

Code	Gage code	Form of thread to be inspected	Number of thread per inch	Taper	Angle of thread	Basic pitch dia
4177-3H	3 1/2 FH	V-0.040	5	1:4	60°	94.844mm
4177-4H	4 1/2 FH	V-0.040	5	1:4	60°	115.113mm
4177-5H	5 1/2 FH	V-0.050	4	1:6	60°	142.011mm
4177-6H	6 5/8 FH	V-0.050	4	1:6	60°	165.598mm

### Internal-flush style gage

Code	Gage code	Form of thread to be inspected	Number of thread per inch	Taper	Angle of thread	Basic pitch dia
4177-5F	5 1/2 IF	V-0.065	4	1:6	60°	157.201mm



## CASING, TUBING AND LINE PIPE THREAD GAGES OF PETROLEUM AND GAS EQUIPMENT

### Casing round thread gages

Code	Gage code	Outer dia	Number of thread per inch	Taper	Angle of thread
4178-4	4 1/2 CSG	114.30mm	8	1:16	60°
4178-4L	4 1/2 LCSG				
4178-5	5 CSG	127.00mm	8	1:16	60°
4178-5L	5 LCSG				
4178-51	5 1/2 CSG	139.70mm	8	1:16	60°
4178-51L	5 1/2 LCSG				
4178-6	6 5/8 CSG	168.28mm	8	1:16	60°
4178-6L	6 5/8 LCSG				
4178-7	7 CSG	177.80mm	8	1:16	60°
4178-7L	7 LCSG				
4178-71	7 5/8 CSG	193.68mm	8	1:16	60°
4178-71L	7 5/8 LCSG				
4178-8	8 5/8 CSG	219.08mm	8	1:16	60°
4178-8L	8 5/8 LCSG				
4178-9	9 5/8 CSG	244.48mm	8	1:16	60°
4178-9L	9 5/8 LCSG				
4178-10	10 3/4 CSG	273.05mm	8	1:16	60°
4178-10L	10 3/4 LCSG				
4178-11	11 3/4 CSG	298.45mm	8	1:16	60°
4178-11L	11 3/4 LCSG				
4178-13	13 3/8 CSG	339.73mm	8	1:16	60°
4178-13L	13 3/8 LCSG				
4178-16	16 CSG	406.40mm	8	1:16	60°
4178-16L	16 LCSG				



4178-21T

- Measure the casing, tubing and line pipe threads

### Non-upset tubing thread gages

Code	Gage code	Outer dia	Number of thread per inch	Taper	Angle of thread
4178-11T	1.050 TBG	26.67mm	10	1:16	60°
4178-13T	1.315 TBG	33.40mm	10	1:16	60°
4178-16T	1.660 TBG	42.16mm	10	1:16	60°
4178-19T	1.900 TBG	48.26mm	10	1:16	60°
4178-2T	2 3/8 TBG	60.33mm	10	1:16	60°
4178-21T	2 7/8 TBG	73.03mm	10	1:16	60°
4178-3T	3 1/2 TBG	88.90mm	10	1:16	60°
4178-4T	4 TBG	101.60mm	8	1:16	60°
4178-41T	4 1/2 TBG	114.30mm	8	1:16	60°

### External-upset tubing thread gages

Code	Gage code	Outer dia	Number of thread per inch	Taper	Angle of thread
4178-11U	1.050 UP TBG	26.67mm	10	1:16	60°
4178-13U	1.315 UP TBG	33.40mm	10	1:16	60°
4178-16U	1.660 UP TBG	42.16mm	10	1:16	60°
4178-19U	1.900 UP TBG	48.26mm	10	1:16	60°
4178-2U	2 3/8 UP TBG	60.33mm	8	1:16	60°
4178-21U	2 7/8 UP TBG	73.03mm	8	1:16	60°
4178-3U	3 1/2 UP TBG	88.90mm	8	1:16	60°
4178-4U	4 UP TBG	101.60mm	8	1:16	60°
4178-41U	4 1/2 UP TBG	114.30mm	8	1:16	60°

To be continued

Continued from previous page

### Buttress casing thread gages

Code	Gage code	Outer dia	Number of thread per inch	Taper	Angle of thread
4178-4B	4 1/2 BCSG	114.30mm	5	1:16	3°, 10°
4178-5B	5 BCSG	127.00mm	5	1:16	3°, 10°
4178-51B	5 1/2 BCSG	139.70mm	5	1:16	3°, 10°
4178-6B	6 5/8 BCSG	168.28mm	5	1:16	3°, 10°
4178-7B	7 BCSG	177.80mm	5	1:16	3°, 10°
4178-71B	7 5/8 BCSG	193.68mm	5	1:16	3°, 10°
4178-8B	8 5/8 BCSG	219.08mm	5	1:16	3°, 10°
4178-9B	9 5/8 BCSG	244.48mm	5	1:16	3°, 10°
4178-10B	10 3/4 BCSG	273.05mm	5	1:16	3°, 10°
4178-11B	11 3/4 BCSG	298.45mm	5	1:16	3°, 10°
4178-13B	13 3/8 BCSG	339.73mm	5	1:16	3°, 10°
4178-16B	16 BCSG	406.40mm	5	1:12	3°, 10°

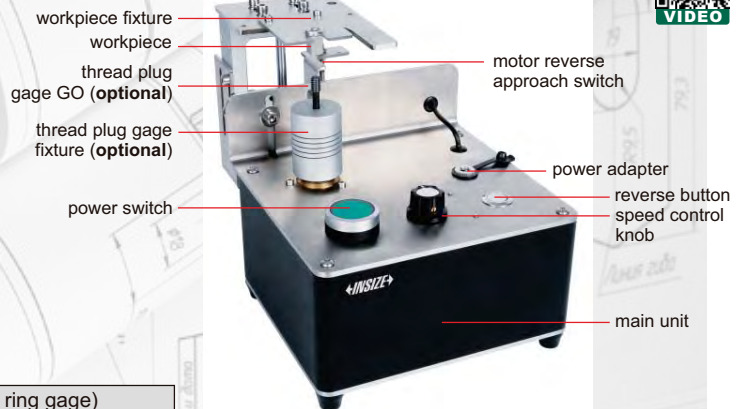
### Line pipe thread gages

Code	Gage code	Outer dia	Number of thread per inch	Taper	Angle of thread
4178-01P	1/8 LP	3.18mm	27	1:16	60°
4178-02P	1/4 LP	6.35mm	18	1:16	60°
4178-03P	3/8 LP	9.53mm	18	1:16	60°
4178-05P	1/2 LP	12.70mm	14	1:16	60°
4178-07P	3/4 LP	19.05mm	14	1:16	60°
4178-10P	1 LP	25.40mm	11 1/2	1:16	60°
4178-12P	1 1/4 LP	31.75mm	11 1/2	1:16	60°
4178-15P	1 1/2 LP	38.10mm	11 1/2	1:16	60°
4178-20P	2 LP	50.80mm	11 1/2	1:16	60°
4178-25P	2 1/2 LP	63.50mm	8	1:16	60°
4178-30P	3 LP	76.20mm	8	1:16	60°
4178-35P	3 1/2 LP	88.90mm	8	1:16	60°
4178-40P	4 LP	101.60mm	8	1:16	60°
4178-50P	5 LP	127.00mm	8	1:16	60°
4178-60P	6 LP	152.40mm	8	1:16	60°
4178-80P	8 LP	203.20mm	8	1:16	60°
4178-100P	10 LP	254.00mm	8	1:16	60°

## SEMI-AUTOMATIC THREAD INSPECTOR

CUSTOM-MADE

- Rapid inspection of thread
- Speed and torque are adjustable
- Reverse button: if abnormal thread is detected, thread gage will be stuck, press the reverse button to exit
- Different thread gages and workpiece fixtures can be replaced
- Thread gages with DLC coating, excellent wear resistance
- For different length of thread by adjusting the position of approach switch



### SPECIFICATION

Measuring range	external thread: M5~M20 (Go thread ring gage) internal thread: M3~M36 (Go thread plug gage)
Torque range	clearance fit: 0.1~0.35Nm, interference fit: 0.4~1.4Nm
Speed range	100~2200r/min
Power supply	power adapter
Rated power	24W
Weight	3kg
Dimension	160×190×250mm

Code No. example (thread gages are optional)  
TGI-□□□ (□□□ is the code No. of Go thread gage)

TGI-4641-6T	thread inspector with M6-6H Go thread plug gage
TGI-4631-8	thread inspector with M8-6g Go thread ring gage