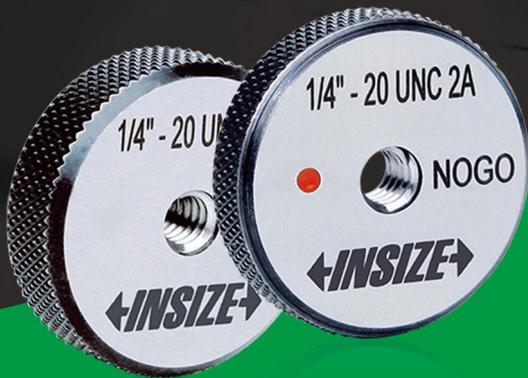




MEASUREMENT SOLUTION PROVIDER



CATALOGUE NO. PG-E32

# PRECISION GAUGES

# FULL RANGE OF GAUGE MODULES COVERING ALL PRECISION MEASUREMENT SCENARIOS



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## THREAD PLUG&RING GAUGES

Thread ring and plug gauges are specialized precision measuring tools used for rapidly inspecting the dimensional acceptability of internal and external threads. They are widely applied in high-volume production settings such as automotive manufacturing, aerospace, and the machinery industry, effectively controlling costs and ensuring the interchangeability and connection reliability of threads



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LIPE PIPE THREAD GAUGES (LP)	

Calibrating gauges with a high-precision length measuring instrument ensures that the gauges meet the required standards.



DLC coated GO ring gauge



DLC coated GO plug gauge

### DLC COATED THREAD RING GAUGES AND PLUG GAUGES

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



### LEFT HAND THREAD RING GAUGES AND PLUG GAUGES

- The following thread ring gauges and plug gauges are available with left hand:
  - Metric thread ring gauges and plug gauges (4130, 4120 series);
  - Metric fine thread ring gauges and plug gauges (4139, 4129 series);
  - American standard thread ring gauges and plug gauges (4131, 4121 series);
  - Metric aerospace thread ring gauges and plug gauges (4230, 4220 series);
  - American standard aerospace thread ring gauges and plug gauges (4231, 4221 series);
  - Check plugs for metric thread ring gauges (4647 series);
  - Check plugs for metric fine thread ring gauges (4677 series)

Code example:

Original code	Left hand code
4120-12	4120-12-LH
4130-4	4130-4-LH



4130-10

**METRIC THREAD PLUG GAUGES**



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

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

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 gauges 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)



4139-20G

**METRIC FINE THREAD PLUG GAUGES**



- Supplied with Go and No-Go gauges 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
M2	0.25	-2B	-2BG	-2BH
M2.5	0.2	-2D5A	-2D5AG	-2D5AH
M2.5	0.25	-2D5B	-2D5BG	-2D5BH
M2.5	0.35	-2D5D	-2D5DG	-2D5DH
M3	0.25	-3B	-3BG	-3BH
M3	0.35	-3D	-3DG	-3DH
M3.5	0.25	-3D5B	-3D5BG	-3D5BH
M3.5	0.35	-3D5D	-3D5DG	-3D5DH
M3.5	0.5	-3D5G	-3D5GG	-3D5GH
M4	0.25	-4B	-4BG	-4BH
M4	0.35	-4D	-4DG	-4DH
M4	0.5	-4G	-4GG	-4GH
M4.5	0.35	-4D5D	-4D5DG	-4D5DH
M4.5	0.5	-4D5G	-4D5GG	-4D5GH
M5	0.25	-5B	-5BG	-5BH
M5	0.35	-5D	-5DG	-5DH
M5	0.5	-5G	-5GG	-5GH
M5.5	0.5	-5D5G	-5D5GG	-5D5GH
M6	0.25	-6B	-6BG	-6BH
M6	0.35	-6D	-6DG	-6DH
M6	0.5	-6G	-6GG	-6GH
M6.5	0.5	-6D5G	-6D5GG	-6D5GH
M7	0.35	-7D	-7DG	-7DH
M7	0.5	-7G	-7GG	-7GH
M7.5	0.5	-7D5G	-7D5GG	-7D5GH
M8	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
M9	0.35	-9D	-9DG	-9DH
M9	0.5	-9G	-9GG	-9GH
M9	0.75	-9L	-9LG	-9LH
M9	1	-9P	-9PG	-9PH
M10	0.35	-10D	-10DG	-10DH
M10	0.5	-10G	-10GG	-10GH
M10	1	-10P	-10PG	-10PH
M10	1.25	-10Q	-10QG	-10QH
M11	0.5	-11G	-11GG	-11GH
M11	1	-11P	-11PG	-11PH
M12	0.5	-12G	-12GG	-12GH
M12	1	-12P	-12PG	-12PH
M12	1.25	-12Q	-12QG	-12QH
M12	1.5	-12R	-12RG	-12RH
M13	0.5	-13G	-13GG	-13GH
M13	1	-13P	-13PG	-13PH
M13	1.5	-13R	-13RG	-13RH
M14	0.5	-14G	-14GG	-14GH
M14	1	-14P	-14PG	-14PH
M14	1.25	-14Q	-14QG	-14QH
M14	1.5	-14R	-14RG	-14RH
M15	0.5	-15G	-15GG	-15GH
M15	1	-15P	-15PG	-15PH
M15	1.5	-15R	-15RG	-15RH
M16	0.5	-16G	-16GG	-16GH
M16	1	-16P	-16PG	-16PH
M16	1.25	-16Q	-16QG	-16QH
M16	1.5	-16R	-16RG	-16RH
M17	0.5	-17G	-17GG	-17GH
M17	1	-17P	-17PG	-17PH
M17	1.5	-17R	-17RG	-17RH

Continued from previous page

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
M18	0.5	-18G	-18GG	-18GH	M31	0.5	-31G	-31GG	-31GH
	1	-18P	-18PG	-18PH		0.75	-31L	-31LG	-31LH
	1.25	-18Q	-18QG	-18QH	M32	0.5	-32G	-32GG	-32GH
	1.5	-18R	-18RG	-18RH		0.75	-32L	-32LG	-32LH
2	-18T	-18TG	-18TH	1		-32P	-32PG	-32PH	
M19	0.5	-19G	-19GG	-19GH	1.5	-32R	-32RG	-32RH	
	1	-19P	-19PG	-19PH	2	-32T	-32TG	-32TH	
	1.5	-19R	-19RG	-19RH	M33	0.5	-33G	-33GG	-33GH
M20	0.5	-20G	-20GG	-20GH		0.75	-33L	-33LG	-33LH
	1	-20P	-20PG	-20PH		1	-33P	-33PG	-33PH
	1.25	-20Q	-20QG	-20QH		1.5	-33R	-33RG	-33RH
	1.5	-20R	-20RG	-20RH		2	-33T	-33TG	-33TH
2	-20T	-20TG	-20TH	3	-33V	-33VG	-33VH		
M21	0.5	-21G	-21GG	-21GH	M34	0.75	-34L	-34LG	-34LH
	1	-21P	-21PG	-21PH		1	-34P	-34PG	-34PH
	1.5	-21R	-21RG	-21RH		1.5	-34R	-34RG	-34RH
M22	0.5	-22G	-22GG	-22GH	2	-34T	-34TG	-34TH	
	1	-22P	-22PG	-22PH	M35	0.75	-35L	-35LG	-35LH
	1.25	-22Q	-22QG	-22QH		1	-35P	-35PG	-35PH
	1.5	-22R	-22RG	-22RH		1.5	-35R	-35RG	-35RH
2	-22T	-22TG	-22TH	2	-35T	-35TG	-35TH		
M23	0.5	-23G	-23GG	-23GH	M36	0.75	-36L	-36LG	-36LH
	1	-23P	-23PG	-23PH		1	-36P	-36PG	-36PH
M24	0.5	-24G	-24GG	-24GH		1.5	-36R	-36RG	-36RH
	1	-24P	-24PG	-24PH	2	-36T	-36TG	-36TH	
	1.25	-24Q	-24QG	-24QH	3	-36V	-36VG	-36VH	
	1.5	-24R	-24RG	-24RH	M37	0.75	-37L	-37LG	-37LH
2	-24T	-24TG	-24TH	0.75		-38L	-38LG	-38LH	
M25	0.5	-25G	-25GG	-25GH		1	-38P	-38PG	-38PH
	1	-25P	-25PG	-25PH	1.5	-38R	-38RG	-38RH	
	1.5	-25R	-25RG	-25RH	2	-38T	-38TG	-38TH	
M26	2	-25T	-25TG	-25TH	M39	0.75	-39L	-39LG	-39LH
	0.5	-26G	-26GG	-26GH		1	-39P	-39PG	-39PH
	1	-26P	-26PG	-26PH		1.5	-39R	-39RG	-39RH
	1.5	-26R	-26RG	-26RH		2	-39T	-39TG	-39TH
2	-26T	-26TG	-26TH	3		-39V	-39VG	-39VH	
M27	0.5	-27G	-27GG	-27GH	M40	0.75	-40L	-40LG	-40LH
	1	-27P	-27PG	-27PH		1	-40P	-40PG	-40PH
	1.5	-27R	-27RG	-27RH		1.5	-40R	-40RG	-40RH
2	-27T	-27TG	-27TH	2		-40T	-40TG	-40TH	
M28	0.5	-28G	-28GG	-28GH	3	-40V	-40VG	-40VH	
	1	-28P	-28PG	-28PH	M42	1	-42P	-42PG	-42PH
	1.5	-28R	-28RG	-28RH		1.5	-42R	-42RG	-42RH
	2	-28T	-28TG	-28TH		2	-42T	-42TG	-42TH
M29	0.5	-29G	-29GG	-29GH	3	-42V	-42VG	-42VH	
	0.75	-29L	-29LG	-29LH	M45	1	-45P	-45PG	-45PH
	1	-29P	-29PG	-29PH		1.5	-45R	-45RG	-45RH
0.5	-30G	-30GG	-30GH	2		-45T	-45TG	-45TH	
M30	0.75	-30L	-30LG	-30LH	3	-45V	-45VG	-45VH	
	1	-30P	-30PG	-30PH	M48	1	-48P	-48PG	-48PH
	1.5	-30R	-30RG	-30RH		1.5	-48R	-48RG	-48RH
	2	-30T	-30TG	-30TH		2	-48T	-48TG	-48TH
	3	-30V	-30VG	-30VH	3	-48V	-48VG	-48VH	

To be continued

Continued from previous page

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	4	-52X	-52XG	-52XH	M76	1.5	-76R	-76RG	-76RH	
	1	-55P	-55PG	-55PH		2	-76T	-76TG	-76TH	
	1.5	-55R	-55RG	-55RH		3	-76V	-76VG	-76VH	
	2	-55T	-55TG	-55TH		4	-76X	-76XG	-76XH	
3	-55V	-55VG	-55VH	6		-76O	-76OG	-76OH		
4	-55X	-55XG	-55XH	M78	2	-78T	-78TG	-78TH		
M56	1	-56P	-56PG		-56PH	M80	1.5	-80R	-80RG	-80RH
	1.5	-56R	-56RG		-56RH		2	-80T	-80TG	-80TH
	2	-56T	-56TG	-56TH	3		-80V	-80VG	-80VH	
	3	-56V	-56VG	-56VH	4	-80X	-80XG	-80XH		
4	-56X	-56XG	-56XH	6	-80O	-80OG	-80OH			
M58	1	-58P	-58PG	-58PH	M82	2	-82T	-82TG	-82TH	
	1.5	-58R	-58RG	-58RH		M85	2	-85T	-85TG	-85TH
	2	-58T	-58TG	-58TH	3		-85V	-85VG	-85VH	
	3	-58V	-58VG	-58VH	4		-85X	-85XG	-85XH	
4	-58X	-58XG	-58XH	6	-85O		-85OG	-85OH		
M60	1	-60P	-60PG	-60PH	M90	2	-90T	-90TG	-90TH	
	1.5	-60R	-60RG	-60RH		3	-90V	-90VG	-90VH	
	2	-60T	-60TG	-60TH		4	-90X	-90XG	-90XH	
	3	-60V	-60VG	-60VH		6	-90O	-90OG	-90OH	
4	-60X	-60XG	-60XH	M95		2	-95T	-95TG	-95TH	
1.5	-62R	-62RG	-62RH			3	-95V	-95VG	-95VH	
2	-62T	-62TG	-62TH		4	-95X	-95XG	-95XH		
M62	3	-62V	-62VG	-62VH	6	-95O	-95OG	-95OH		
	4	-62X	-62XG	-62XH	M100	2	-100T	-100TG	-100TH	
	1.5	-64R	-64RG	-64RH		3	-100V	-100VG	-100VH	
	2	-64T	-64TG	-64TH		4	-100X	-100XG	-100XH	
3	-64V	-64VG	-64VH	6	-100O	-100OG	-100OH			
4	-64X	-64XG	-64XH	M105	2	-105T	-105TG	-105TH		
M65	1.5	-65R	-65RG		-65RH	3	-105V	-105VG	-105VH	
	2	-65T	-65TG		-65TH	4	-105X	-105XG	-105XH	
	3	-65V	-65VG		-65VH	6	-105O	-105OG	-105OH	
	4	-65X	-65XG	-65XH	M110	2	-110T	-110TG	-110TH	
M68	1.5	-68R	-68RG	-68RH		3	-110V	-110VG	-110VH	
	2	-68T	-68TG	-68TH		4	-110X	-110XG	-110XH	
	3	-68V	-68VG	-68VH	6	-110O	-110OG	-110OH		
	4	-68X	-68XG	-68XH	M115	2	-115T	-115TG	-115TH	
M70	1.5	-70R	-70RG	-70RH		3	-115V	-115VG	-115VH	
	2	-70T	-70TG	-70TH		4	-115X	-115XG	-115XH	
	3	-70V	-70VG	-70VH	6	-115O	-115OG	-115OH		
	4	-70X	-70XG	-70XH	M120	2	-120T	-120TG	-120TH	
6	-70O	-70OG	-70OH	3		-120V	-120VG	-120VH		
1.5	-72R	-72RG	-72RH	4		-120X	-120XG	-120XH		
				6	-120O	-120OG	-120OH			



4120-16



4120-16N

**METRIC THREAD RING GAUGES**



- Standard ISO1502
- Supplied with manufacturer inspection certificate

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

Size (mm)		Code (4120)					
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

**Go ring gauge set (Class 6g)**

Code	Thread ring gauges 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 gauge set (Class 6g)**

Code	Thread ring gauges 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)



4129-10P



4129-10PN

**METRIC FINE THREAD RING GAUGES**



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

Code example: "-3D5G" stands for "4129-3D5G"

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

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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
M17	1.5	-16R	-16RN	-16RE	-16REN	-16RH	-16RHN
	0.5	-17G	-17GN	-17GE	-17GEN	-17GH	-17GHN
	0.75	-17L	-17LN	-17LE	-17LEN	-17LH	-17LHN
	1	-17P	-17PN	-17PE	-17PEN	-17PH	-17PHN
M18	1.5	-17R	-17RN	-17RE	-17REN	-17RH	-17RHN
	0.5	-18G	-18GN	-18GE	-18GEN	-18GH	-18GHN
	0.75	-18L	-18LN	-18LE	-18LEN	-18LH	-18LHN
	1	-18P	-18PN	-18PE	-18PEN	-18PH	-18PHN
M19	1.25	-18Q	-18QN	-18QE	-18QEN	-18QH	-18QHN
	1.5	-18R	-18RN	-18RE	-18REN	-18RH	-18RHN
	2	-18T	-18TN	-18TE	-18TEN	-18TH	-18THN
	0.5	-19G	-19GN	-19GE	-19GEN	-19GH	-19GHN
M20	0.75	-19L	-19LN	-19LE	-19LEN	-19LH	-19LHN
	1	-19P	-19PN	-19PE	-19PEN	-19PH	-19PHN
	1.5	-19R	-19RN	-19RE	-19REN	-19RH	-19RHN
M21	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
M22	2	-20T	-20TN	-20TE	-20TEN	-20TH	-20THN
	0.75	-21L	-21LN	-21LE	-21LEN	-21LH	-21LHN
	1	-21P	-21PN	-21PE	-21PEN	-21PH	-21PHN
M23	1.5	-21R	-21RN	-21RE	-21REN	-21RH	-21RHN
	0.75	-22L	-22LN	-22LE	-22LEN	-22LH	-22LHN
	1	-22P	-22PN	-22PE	-22PEN	-22PH	-22PHN
	1.25	-22Q	-22QN	-22QE	-22QEN	-22QH	-22QHN
M24	1.5	-22R	-22RN	-22RE	-22REN	-22RH	-22RHN
	2	-22T	-22TN	-22TE	-22TEN	-22TH	-22THN
	0.75	-23L	-23LN	-23LE	-23LEN	-23LH	-23LHN
M25	1	-23P	-23PN	-23PE	-23PEN	-23PH	-23PHN
	1.5	-23R	-23RN	-23RE	-23REN	-23RH	-23RHN
	2	-23T	-23TN	-23TE	-23TEN	-23TH	-23THN
	0.75	-24L	-24LN	-24LE	-24LEN	-24LH	-24LHN
M26	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
M27	0.75	-25L	-25LN	-25LE	-25LEN	-25LH	-25LHN
	1	-25P	-25PN	-25PE	-25PEN	-25PH	-25PHN
	1.5	-25R	-25RN	-25RE	-25REN	-25RH	-25RHN
M28	2	-25T	-25TN	-25TE	-25TEN	-25TH	-25THN
	0.75	-26L	-26LN	-26LE	-26LEN	-26LH	-26LHN
	1	-26P	-26PN	-26PE	-26PEN	-26PH	-26PHN
M29	1.5	-26R	-26RN	-26RE	-26REN	-26RH	-26RHN
	2	-26T	-26TN	-26TE	-26TEN	-26TH	-26THN

To be continued

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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
	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
	0.75	-32L	-32LN	-32LE	-32LEN	-32LH	-32LHN
M32	1	-32P	-32PN	-32PE	-32PEN	-32PH	-32PHN
	1.5	-32R	-32RN	-32RE	-32REN	-32RH	-32RHN
	2	-32T	-32TN	-32TE	-32TEN	-32TH	-32THN
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	3	-33V	-33VN	-33VE	-33VEN	-33VH	-33VHN
	1	-34P	-34PN	-34PE	-34PEN	-34PH	-34PHN
	1.5	-34R	-34RN	-34RE	-34REN	-34RH	-34RHN
M35	2	-34T	-34TN	-34TE	-34TEN	-34TH	-34THN
	1	-35P	-35PN	-35PE	-35PEN	-35PH	-35PHN
	1.5	-35R	-35RN	-35RE	-35REN	-35RH	-35RHN
M36	2	-35T	-35TN	-35TE	-35TEN	-35TH	-35THN
	1	-36P	-36PN	-36PE	-36PEN	-36PH	-36PHN
	1.5	-36R	-36RN	-36RE	-36REN	-36RH	-36RHN
M38	2	-36T	-36TN	-36TE	-36TEN	-36TH	-36THN
	3	-36V	-36VN	-36VE	-36VEN	-36VH	-36VHN
	1	-38P	-38PN	-38PE	-38PEN	-38PH	-38PHN
M39	1.5	-38R	-38RN	-38RE	-38REN	-38RH	-38RHN
	2	-38T	-38TN	-38TE	-38TEN	-38TH	-38THN
	1	-39P	-39PN	-39PE	-39PEN	-39PH	-39PHN
M40	1.5	-39R	-39RN	-39RE	-39REN	-39RH	-39RHN
	2	-39T	-39TN	-39TE	-39TEN	-39TH	-39THN
	3	-39V	-39VN	-39VE	-39VEN	-39VH	-39VHN
M42	1.5	-40R	-40RN	-40RE	-40REN	-40RH	-40RHN
	2	-40T	-40TN	-40TE	-40TEN	-40TH	-40THN
	3	-40V	-40VN	-40VE	-40VEN	-40VH	-40VHN
M45	1.5	-42R	-42RN	-42RE	-42REN	-42RH	-42RHN
	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

To be continued

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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
	6	-70O	-70ON	-70OE	-70OEN	-70OH	-70OHN
M72	1.5	-72R	-72RN	-72RE	-72REN	-72RH	-72RHN
	2	-72T	-72TN	-72TE	-72TEN	-72TH	-72THN

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
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
M78	6	-76O	-76ON	-76OE	-76OEN	-76OH	-76OHN
	2	-78T	-78TN	-78TE	-78TEN	-78TH	-78THN
	1.5	-80R	-80RN	-80RE	-80REN	-80RH	-80RHN
M80	2	-80T	-80TN	-80TE	-80TEN	-80TH	-80THN
	3	-80V	-80VN	-80VE	-80VEN	-80VH	-80VHN
	4	-80X	-80XN	-80XE	-80XEN	-80XH	-80XHN
	6	-80O	-80ON	-80OE	-80OEN	-80OH	-80OHN
M82	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
	2	-95T	-95TN	-95TE	-95TEN	-95TH	-95THN
M95	3	-95V	-95VN	-95VE	-95VEN	-95VH	-95VHN
	4	-95X	-95XN	-95XE	-95XEN	-95XH	-95XHN
	6	-95O	-95ON	-95OE	-95OEN	-95OH	-95OHN
	2	-100T	-100TN	-100TE	-100TEN	-100TH	-100THN
M100	3	-100V	-100VN	-100VE	-100VEN	-100VH	-100VHN
	4	-100X	-100XN	-100XE	-100XEN	-100XH	-100XHN
	6	-100O	-100ON	-100OE	-100OEN	-100OH	-100OHN
	2	-105T	-105TN	-105TE	-105TEN	-105TH	-105THN
M105	3	-105V	-105VN	-105VE	-105VEN	-105VH	-105VHN
	4	-105X	-105XN	-105XE	-105XEN	-105XH	-105XHN
	6	-105O	-105ON	-105OE	-105OEN	-105OH	-105OHN
	2	-110T	-110TN	-110TE	-110TEN	-110TH	-110THN
M110	3	-110V	-110VN	-110VE	-110VEN	-110VH	-110VHN
	4	-110X	-110XN	-110XE	-110XEN	-110XH	-110XHN
	6	-110O	-110ON	-110OE	-110OEN	-110OH	-110OHN
	2	-115T	-115TN	-115TE	-115TEN	-115TH	-115THN
M115	3	-115V	-115VN	-115VE	-115VEN	-115VH	-115VHN
	4	-115X	-115XN	-115XE	-115XEN	-115XH	-115XHN
	6	-115O	-115ON	-115OE	-115OEN	-115OH	-115OHN
	2	-120T	-120TN	-120TE	-120TEN	-120TH	-120THN
M120	3	-120V	-120VN	-120VE	-120VEN	-120VH	-120VHN
	4	-120X	-120XN	-120XE	-120XEN	-120XH	-120XHN
	6	-120O	-120ON	-120OE	-120OEN	-120OH	-120OHN



4230-20PH

**METRIC AEROSPACE THREAD PLUG GAUGES**



- Standard ISO10959
- Supplied with Go and No-Go gauges together
- Supplied with manufacturer inspection certificate

Code example: "-3GH" stands for "4230-3GH"

Size (mm)			Code (4230)			Size (mm)			Code (4230)			Size (mm)			Code (4230)							
Nominal diameter	Pitch	Class 4H5H	Nominal diameter	Pitch	Class 4H5H	Nominal diameter	Pitch	Class 4H5H														
MJ1.6	0.35	-1D6DH	MJ10	0.75	-10LH	MJ22	1	-22PH	MJ24	1.5	-24RH	MJ25	1.5	-25RH	MJ26	1.5	-26RH					
MJ1.8	0.35	-1D8DH		1	-10PH		1.5	-22RH		1.5	-24RH		1.5	-25RH								
MJ2	0.4	-2EH		1.25	-10QH		2	-22TH		2	-24TH		2	-25TH								
MJ2.2	0.45	-2D2FH		1.5	-10RH		2.5	-22UH		3	-24VH		1.5	-26RH								
MJ2.5	0.35	-2D5DH	MJ11	0.75	-11LH	MJ27	1	-24PH	MJ28	1.5	-27RH	MJ29	1.5	-27RH	MJ30	2	-30TH					
	0.45	-2D5FH		1	-11PH		1.5	-24RH		1.5	-27TH		1.5	-30RH								
MJ3	0.35	-3DH		1.25	-11QH		2	-24TH		2	-24TH		2	-27TH		2	-27TH	3	-30VH			
	0.5	-3GH		1.5	-11RH		3	-24VH		3	-24VH		3	-27VH		3.5	-30NH					
MJ3.5	0.35	-3D5DH	MJ12	1	-12PH	MJ31	1	-25PH	MJ32	1.5	-32RH	MJ33	1.5	-33RH	MJ34	2	-32TH					
	0.6	-3D5IH		1.25	-12QH		1.5	-25RH		1.5	-32RH		2	-32TH								
MJ4	0.5	-4GH		1.5	-12RH		2	-25TH		2	-25TH		2	-32TH		2	-33TH	3	-33VH			
	0.7	-4KH		1.75	-12SH		1.5	-26RH		1.5	-26RH		3	-27VH		3.5	-33NH					
MJ4.5	0.5	-4D5GH	MJ14	1	-14PH	MJ35	1	-27PH	MJ36	1.5	-35RH	MJ37	1.5	-35RH	MJ38	1.5	-38RH					
	0.75	-4D5LH		1.25	-14QH		1	-27RH		1	-27PH		1.5	-35RH		1.5	-38RH					
MJ5	0.5	-5GH		1.5	-14RH		1.5	-27RH		1.5	-27RH		1.5	-30PH		1.5	-30RH	2	-30TH			
	0.8	-5MH		2	-14TH		2	-27TH		2	-27TH		2	-30TH		2	-30TH	3	-30VH			
MJ5.5	0.5	-5D5GH	MJ15	1	-15PH	MJ39	1	-28PH	MJ40	2	-39TH	MJ41	2	-39TH	MJ42	3	-39VH					
	0.75	-5D5LH		1.5	-15RH		1.5	-28RH		1.5	-28RH		1.5	-39RH		1.5	-39RH	3	-39VH			
MJ6	0.75	-6LH		1	-16PH		1.5	-28RH		1.5	-28RH		1.5	-42RH		1.5	-42RH	3	-42VH			
	1	-6PH		1.5	-16RH		2	-28TH		2	-28TH		2	-42TH		2	-42TH	4	-42VH			
MJ7	0.75	-7LH	MJ16	2	-16TH	MJ43	1	-30PH	MJ44	3	-42VH	MJ45	3	-42VH	MJ46	4	-42XH					
	1	-7PH		1.5	-16RH		1	-30PH		3	-42VH		4	-42XH		4	-42XH	4.5	-42YH			
MJ8	0.75	-8LH		2	-16TH		1.5	-30RH		1.5	-30RH		4.5	-42YH		4.5	-42YH	4.5	-45YH	4.5	-45YH	
	1	-8PH		1	-17PH		2	-30TH		2	-30TH		2	-45TH		2	-45TH	3	-45VH			
MJ9	0.75	-9LH	MJ17	1.5	-17RH	MJ47	3	-30VH	MJ48	4	-45XH	MJ49	4	-45XH	MJ50	4	-45XH					
	1	-9PH		1.5	-17RH		3	-30VH		4	-45XH		4	-45XH		4	-45XH	4.5	-45YH			
MJ10	1.25	-8QH		1	-18PH		3.5	-30NH		3.5	-30NH		4.5	-45YH		4.5	-45YH	4.5	-45YH	4.5	-45YH	
	1.25	-8QH		1.5	-18RH		1.5	-32RH		1.5	-32RH		4.5	-45YH		4.5	-45YH	4.5	-45YH	4.5	-45YH	
MJ11	2	-18TH	MJ18	2	-18TH	MJ51	2	-32TH	MJ52	4	-45XH	MJ53	4	-45XH	MJ54	4	-45XH					
	2.5	-18UH		2	-18TH		2	-32TH		2	-32TH		4	-45XH		4	-45XH	4	-45XH	4	-45XH	
MJ12	1	-20PH		1.5	-18RH		MJ54	1.5		-33RH	MJ55		4	-45XH		MJ56	1.5	-58RH	MJ57	1.5	-58RH	
	1.25	-8QH		2.5	-18UH			1.5		-33RH			1.5	-33RH			4	-45XH		2	-56TH	2
MJ13	0.75	-9LH	MJ20	1	-20PH	MJ56		2	-33TH	MJ57		5.5	-56ZDH	MJ58	3		-56VH	MJ59		3	-56VH	
	1	-9PH		1.5	-20RH			2	-33TH			2	-33TH		5.5		-56ZDH			4	-56XH	4
MJ14	1	-9PH		2	-20TH		MJ60	3	-33VH		MJ61	3	-60VH		MJ62	2	-62TH		MJ63	2	-62TH	
	1.25	-9QH		2.5	-20UH			3	-33VH			3	-60VH			2	-62TH			3	-62VH	3
MJ15	2	-20TH	MJ21	2	-20TH	MJ62		3	-33VH	MJ64		4	-62XH	MJ65		4	-62XH	MJ66		4	-62XH	
	2.5	-20UH		3.5	-33NH			3	-33VH			3	-33VH			4	-62XH			3	-62VH	3
MJ16	1.5	-20RH		MJ22	3.5		-33NH	MJ64	4		-62XH	MJ68	1.5		-64RH	MJ69	1.5		-64RH	MJ70	1.5	-70RH
	2	-20TH			3.5		-33NH		4		-62XH		1.5		-64RH		1.5		-64RH		2	-70TH
MJ17	2	-20TH	MJ23		3.5	-33NH	MJ70		6	-64OH	MJ71		2	-60TH	MJ72		3	-72VH				
	2.5	-20UH			3.5	-33NH			6	-64OH			2	-60TH			3	-72VH	3		-72VH	
MJ18	1	-22PH		MJ24	1	-24PH		MJ72	1.5	-72RH		MJ73	3	-72VH		MJ74	1.5	-72RH				
	1.5	-22RH			1.5	-24RH			1.5	-72RH			1.5	-72RH			1.5	-72RH	1.5	-72RH		
MJ19	2	-22TH	MJ25		2	-24TH	MJ74		2	-72TH	MJ75		4	-72XH	MJ76		2	-75TH				
	2.5	-22UH			2	-24TH			2	-72TH			2	-72TH			3	-75VH	2	-75TH		
MJ20	3	-24VH		MJ26	3	-24VH		MJ76	3	-75VH		MJ77	4	-75XH		MJ78	3	-76VH				
	3	-24VH			3	-24VH			3	-75VH			4	-75XH			4	-76VH	4	-76VH		
MJ21	1	-25PH	MJ27		1	-25PH	MJ78		4	-76XH	MJ79		6	-76OH	MJ80		1.5	-78RH				
	1.5	-25RH			1.5	-25RH			6	-76OH			6	-76OH			1.5	-78RH	1.5	-78RH		
MJ22	2	-25TH		MJ28	2	-25TH		MJ80	2	-78TH		MJ81	1.5	-78RH		MJ82	2	-78TH				
	2.5	-25UH			1.5	-25RH			2	-78TH			2	-78TH			1.5	-78RH	2	-78TH		
MJ23	1	-27PH	MJ29		1	-27PH	MJ82		3	-78VH	MJ83		3	-82VH	MJ84		3	-82VH				
	1.5	-27RH			1.5	-27RH			3	-82VH			3	-82VH			3	-82VH	3	-82VH		
MJ24	1.5	-24RH		MJ30	1	-30PH		MJ84	4	-78VH		MJ85	1.5	-85RH		MJ86	1.5	-85RH				
	2	-24TH			1	-30PH			4	-78VH			1.5	-85RH			1.5	-85RH	1.5	-85RH		
MJ25	3	-24VH	MJ31		1.5	-30RH	MJ86		6	-80OH	MJ87		2	-85TH	MJ88		2	-85TH				
	3	-24VH			1.5	-30RH			6	-80OH			2	-85TH			2	-85TH	2	-85TH		
MJ26	1	-25PH		MJ32	2	-30TH		MJ88	6	-80OH		MJ89	3	-85VH		MJ90	3	-85VH				
	1.5	-25RH			2	-30TH			6	-80OH			3	-85VH			3	-85VH	3	-85VH		
MJ27	1.5	-25RH	MJ33		2	-30TH	MJ90		6	-80OH	MJ91		4	-85XH	MJ92		4	-85XH				
	2	-25TH			2	-30TH			6	-80OH			4	-85XH			4	-85XH	4	-85XH		
MJ28	1.5	-27RH		MJ34	3	-30VH		MJ92	6	-80OH		MJ93	6	-85OH		MJ94	6	-85OH				
	2	-25TH			3	-30VH			6	-80OH			6	-85OH			6	-85OH	6	-85OH		
MJ29	1.5	-27RH	MJ35		3.5	-30NH	MJ94		6	-85OH	MJ95		6	-85OH	MJ96		6	-85OH				
	1.5	-27RH			3.5	-30NH			6	-85OH			6	-85OH			6	-85OH	6	-85OH		
MJ30	3	-30VH		MJ36	1.5	-35RH		MJ96	6	-85OH		MJ97	6	-85OH		MJ98	6	-85OH				
	3	-30VH			1.5	-35RH			6	-85OH			6	-85OH			6	-85OH	6	-85OH		
MJ31	4	-42XH	MJ37		1.5	-35RH	MJ98		6	-85OH	MJ99		6	-85OH	MJ100		6	-85OH				
	4.5	-42YH			1.5	-35RH			6	-85OH			6	-85OH			6	-85OH	6	-85OH		
MJ32	2	-32TH		MJ38	1.5	-38RH		MJ100	6	-85OH		MJ101	6	-85OH		MJ102	6	-85OH				
	2	-32TH			1.5	-38RH			6	-85OH			6	-85OH			6	-85OH	6	-85OH		
MJ33	1.5	-33RH	MJ39		1.5	-39RH	MJ102		6	-85OH	MJ103		6	-85OH	MJ104		6	-85OH				
	2	-33TH			1.5	-39RH			6	-85OH			6	-85OH			6	-85OH	6	-85OH		
MJ34	3	-33VH		MJ40	2	-39VH		MJ104	6	-85OH		MJ105	6	-85OH		MJ106	6	-85OH				
	3	-33VH			2	-39VH			6	-85OH			6	-85OH			6	-85OH	6	-85OH		
MJ35	1.5	-35RH	MJ41		3	-39XH	MJ106		6	-85OH	MJ107		6	-85OH	MJ108		6	-85OH				
	1.5	-35RH			3	-39XH			6	-85OH			6	-85OH			6	-85OH	6	-85OH		
MJ36	1.5	-36RH		MJ42	4	-40TH		MJ108	6	-85OH		MJ109	6	-85OH		MJ110	6	-85OH				
	2	-36TH			4	-40TH			6	-85OH			6	-85OH			6	-85OH	6	-85OH		
MJ37	3	-36VH	MJ43		4	-40VH	MJ110		6	-85OH	MJ111		6	-85OH	MJ112		6	-85OH				
	4	-36XH			4	-40VH			6	-85OH			6	-85OH			6	-85OH	6	-85OH		
MJ38	1.5	-38RH		MJ44	1.5	-42RH		MJ112	6	-85OH		MJ113	6	-85OH		MJ114	6	-85OH				
	1.5	-38RH			1.5	-42RH			6	-85OH			6	-85OH			6	-85OH	6	-85OH		
MJ39	2	-39TH	MJ45		2	-42TH	MJ114		6	-85OH	MJ115		6	-85OH	MJ116		6	-85OH				
	3	-39VH			3	-42VH			6	-85OH			6	-85OH			6	-85OH	6	-85OH		
MJ40	4	-40VH		MJ46	4	-42XH		MJ116	6	-85OH		MJ117	6	-85OH		MJ118	6	-85OH				
	4	-40VH			4	-42XH			6	-85OH			6	-85OH			6	-85OH	6	-85OH		
MJ41	1.5	-42RH	MJ47		4.5	-42YH	MJ118		6	-85OH	MJ119		6	-85OH	MJ120		6	-85OH				
	2	-39TH			4.5	-42YH			6	-85OH			6	-85OH			6	-85OH	6	-85OH		
MJ42	3	-39VH		MJ48	2	-45TH		MJ120	6	-85OH		MJ121	6	-85OH		MJ122	6	-85OH				
	4	-39XH			3	-45VH			6	-85OH			6	-85OH			6	-85OH	6	-85OH		
MJ43	1.5	-42RH	MJ49		4	-45XH	MJ122		6	-85OH	MJ123		6	-85OH	MJ124		6	-85OH				
	2	-42TH			4	-45XH			6	-85OH			6	-85OH			6	-85OH	6	-85OH		
MJ44	3	-42VH		MJ50	4.5	-45YH		MJ124	6	-85OH		MJ125	6	-85OH		MJ126	6	-85OH				
	4	-42XH			4.5	-45YH			6	-85OH			6	-85OH			6	-85OH	6	-85OH		
MJ45	4.5	-45YH	MJ51		2	-45TH	MJ126		6	-85OH	MJ127		6	-85OH	MJ128		6	-85OH				
	4.5	-45YH			3	-45VH			6	-85OH			6	-85OH			6	-85OH	6	-85OH		
MJ46	1.5	-48																				

Continued from previous page

Size (mm)			Code (4230)			Size (mm)			Code (4230)			Size (mm)			Code (4230)								
Nominal diameter	Pitch	Class 4H5H																					
MJ90	1.5	-90RH	MJ120	1.5	-120RH	MJ155	3	-155VH	MJ160	3	-160VH	MJ160	3	-160VH	MJ160	3	-165VH	MJ165	3	-165VH			
	2	-90TH		2	-120TH		4	-155XH		4	-160XH		4	-160XH		4	-165XH		4	-165XH			
	3	-90VH		3	-120VH		6	-155OH		6	-160OH		6	-160OH		6	-165OH		6	-165OH			
	4	-90XH		4	-120XH		3	-170VH		3	-170VH												
	6	-90OH		6	-120OH		4	-170XH		4	-170XH												
MJ92	1.5	-92RH	MJ125	1.5	-125RH	MJ170	3	-175VH	MJ175	3	-175VH	MJ180	3	-180VH	MJ185	3	-185VH	MJ190	3	-190VH	MJ195	3	-195VH
	2	-92TH		2	-125TH		4	-175XH		4	-175XH		4	-180XH		4	-185XH		4	-190XH		4	-195XH
	3	-92VH		3	-125VH		6	-175OH		6	-175OH		6	-180OH		6	-185OH		6	-190OH		6	-195OH
	4	-92XH		4	-125XH		3	-180VH		3	-180VH		3	-180VH									
MJ95	1.5	-95RH	MJ130	1.5	-130RH	MJ185	4	-190VH	MJ200	4	-200VH	MJ200	4	-200VH	MJ200	4	-200VH	MJ200	4	-200VH	MJ200	4	-200VH
	2	-95TH		2	-130TH		6	-190OH		6	-190OH		6	-200OH		6	-200OH		6	-200OH			
	3	-95VH		3	-130VH		3	-195VH		3	-195VH												
	4	-95XH		4	-130XH		4	-195XH		4	-195XH												
MJ98	1.5	-98RH	MJ135	1.5	-135RH	MJ200	6	-200VH	MJ200	6	-200VH	MJ200	6	-200VH									
	2	-98TH		2	-135TH		3	-200OH		3	-200OH												
	3	-98VH		3	-135VH		4	-200XH		4	-200XH												
	6	-98OH		6	-135OH		6	-200OH		6	-200OH												
MJ100	1.5	-100RH	MJ135	1.5	-135RH	MJ200	6	-200VH	MJ200	6	-200VH	MJ200	6	-200VH									
	2	-100TH		2	-135TH		3	-200OH		3	-200OH												
	3	-100VH		3	-135VH		4	-200XH		4	-200XH												
	6	-100OH		6	-135OH		6	-200OH		6	-200OH												
MJ102	1.5	-102RH	MJ140	1.5	-140RH	MJ200	6	-200VH	MJ200	6	-200VH	MJ200	6	-200VH									
	2	-102TH		2	-140TH		3	-200OH		3	-200OH												
	3	-102VH		3	-140VH		4	-200XH		4	-200XH												
	6	-102OH		6	-140OH		6	-200OH		6	-200OH												
MJ105	1.5	-105RH	MJ145	1.5	-145RH	MJ200	6	-200VH	MJ200	6	-200VH	MJ200	6	-200VH									
	2	-105TH		2	-145TH		3	-200OH		3	-200OH												
	3	-105VH		3	-145VH		4	-200XH		4	-200XH												
	6	-105OH		6	-145OH		6	-200OH		6	-200OH												
MJ108	1.5	-108RH	MJ150	1.5	-150RH	MJ200	6	-200VH	MJ200	6	-200VH	MJ200	6	-200VH									
	2	-108TH		2	-150TH		3	-200OH		3	-200OH												
	3	-108VH		3	-150VH		4	-200XH		4	-200XH												
	6	-108OH		6	-150OH		6	-200OH		6	-200OH												
MJ110	1.5	-110RH	MJ150	1.5	-150RH	MJ200	6	-200VH	MJ200	6	-200VH	MJ200	6	-200VH									
	2	-110TH		2	-150TH		3	-200OH		3	-200OH												
	3	-110VH		3	-150VH		4	-200XH		4	-200XH												
	6	-110OH		6	-150OH		6	-200OH		6	-200OH												
MJ112	1.5	-112RH	MJ150	1.5	-150RH	MJ200	6	-200VH	MJ200	6	-200VH	MJ200	6	-200VH									
	2	-112TH		2	-150TH		3	-200OH		3	-200OH												
	3	-112VH		3	-150VH		4	-200XH		4	-200XH												
	6	-112OH		6	-150OH		6	-200OH		6	-200OH												
MJ115	1.5	-115RH	MJ150	1.5	-150RH	MJ200	6	-200VH	MJ200	6	-200VH	MJ200	6	-200VH									
	2	-115TH		2	-150TH		3	-200OH		3	-200OH												
	3	-115VH		3	-150VH		4	-200XH		4	-200XH												
	6	-115OH		6	-150OH		6	-200OH		6	-200OH												
MJ118	1.5	-118RH	MJ150	1.5	-150RH	MJ200	6	-200VH	MJ200	6	-200VH	MJ200	6	-200VH									
	2	-118TH		2	-150TH		3	-200OH		3	-200OH												



4220-16TM

4220-16TMN

**METRIC AEROSPACE THREAD RING GAUGES**



- Standard ISO10959
- Supplied with manufacturer inspection certificate (except gauge larger than MJ100)

Code example: “-4KM” stands for “4220-4KM”

Size (mm)		Code (4220)				Size (mm)		Code (4220)			
Nominal diameter	Pitch	Class 4g6g		Class 4h6h		Nominal diameter	Pitch	Class 4g6g		Class 4h6h	
		GO	NOGO	GO	NOGO			GO	NOGO		
MJ2	0.4	-2EM	-2EMN	-2ET	-2ETN	MJ11	0.75	-11LM	-11LMN	-11LT	-11LTN
MJ2.2	0.45	-2D2FM	-2D2FMN	-2D2FT	-2D2FTN		1	-11PM	-11PMN	-11PT	-11PTN
MJ2.5	0.35	-2D5DM	-2D5DMN	-2D5DT	-2D5DTN		1.25	-11QM	-11QMN	-11QT	-11QTN
	0.45	-2D5FM	-2D5FMN	-2D5FT	-2D5FTN	1.5	-11RM	-11RMN	-11RT	-11RTN	
MJ3	0.35	-3DM	-3DMN	-3DT	-3DTN	MJ12	1	-12PM	-12PMN	-12PT	-12PTN
	0.5	-3GM	-3GMN	-3GT	-3GTN		1.25	-12QM	-12QMN	-12QT	-12QTN
MJ3.5	0.35	-3D5DM	-3D5DMN	-3D5DT	-3D5DTN		1.5	-12RM	-12RMN	-12RT	-12RTN
	0.6	-3D5IM	-3D5IMN	-3D5IT	-3D5ITN	1.75	-12SM	-12SMN	-12ST	-12STN	
MJ4	0.5	-4GM	-4GMN	-4GT	-4GTN	MJ14	1	-14PM	-14PMN	-14PT	-14PTN
	0.7	-4KM	-4KMN	-4KT	-4KTN		1.25	-14QM	-14QMN	-14QT	-14QTN
MJ4.5	0.5	-4D5GM	-4D5GMN	-4D5GT	-4D5GTN		1.5	-14RM	-14RMN	-14RT	-14RTN
	0.75	-4D5LM	-4D5LMN	-4D5LT	-4D5LTN	2	-14TM	-14TMN	-14TT	-14TTN	
MJ5	0.5	-5GM	-5GMN	-5GT	-5GTN	MJ15	1	-15PM	-15PMN	-15PT	-15PTN
	0.8	-5MM	-5MMN	-5MT	-5MTN		1.5	-15RM	-15RMN	-15RT	-15RTN
MJ5.5	0.5	-5D5GM	-5D5GMN	-5D5GT	-5D5GTN	MJ16	1	-16PM	-16PMN	-16PT	-16PTN
MJ6	0.75	-6LM	-6LMN	-6LT	-6LTN		1.5	-16RM	-16RMN	-16RT	-16RTN
	1	-6PM	-6PMN	-6PT	-6PTN		2	-16TM	-16TMN	-16TT	-16TTN
MJ7	0.75	-7LM	-7LMN	-7LT	-7LTN	MJ17	1	-17PM	-17PMN	-17PT	-17PTN
	1	-7PM	-7PMN	-7PT	-7PTN		1.5	-17RM	-17RMN	-17RT	-17RTN
MJ8	0.75	-8LM	-8LMN	-8LT	-8LTN	MJ18	1	-18PM	-18PMN	-18PT	-18PTN
	1	-8PM	-8PMN	-8PT	-8PTN		1.5	-18RM	-18RMN	-18RT	-18RTN
	1.25	-8QM	-8QMN	-8QT	-8QTN		2	-18TM	-18TMN	-18TT	-18TTN
MJ9	0.75	-9LM	-9LMN	-9LT	-9LTN	MJ20	2.5	-18UM	-18UMN	-18UT	-18UTN
	1	-9PM	-9PMN	-9PT	-9PTN		1	-20PM	-20PMN	-20PT	-20PTN
1.25	-9QM	-9QMN	-9QT	-9QTN	1.5		-20RM	-20RMN	-20RT	-20RTN	
MJ10	0.75	-10LM	-10LMN	-10LT	-10LTN	2	-20TM	-20TMN	-20TT	-20TTN	
	1	-10PM	-10PMN	-10PT	-10PTN	2.5	-20UM	-20UMN	-20UT	-20UTN	
	1.25	-10QM	-10QMN	-10QT	-10QTN	MJ22	1	-22PM	-22PMN	-22PT	-22PTN
1.5	-10RM	-10RMN	-10RT	-10RTN	1.5		-22RM	-22RMN	-22RT	-22RTN	

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Size (mm)		Code (4220)				Size (mm)		Code (4220)			
Nominal diameter	Pitch	Class 4g6g		Class 4h6h		Nominal diameter	Pitch	Class 4g6g		Class 4h6h	
		GO	NOGO	GO	NOGO			GO	NOGO	GO	NOGO
MJ22	2	-22TM	-22TMN	-22TT	-22TTN	MJ42	2	-42TM	-42TMN	-42TT	-42TTN
	2.5	-22UM	-22UMN	-22UT	-22UTN		3	-42VM	-42VMN	-42VT	-42VTN
MJ24	1	-24PM	-24PMN	-24PT	-24PTN		4	-42XM	-42XMN	-42XT	-42XTN
	1.5	-24RM	-24RMN	-24RT	-24RTN		4.5	-42YM	-42YMN	-42YT	-42YTN
MJ25	2	-24TM	-24TMN	-24TT	-24TTN	MJ45	2	-45TM	-45TMN	-45TT	-45TTN
	3	-24VM	-24VMN	-24VT	-24VTN		3	-45VM	-45VMN	-45VT	-45VTN
MJ26	1	-25PM	-25PMN	-25PT	-25PTN		4	-45XM	-45XMN	-45XT	-45XTN
	1.5	-25RM	-25RMN	-25RT	-25RTN	4.5	-45YM	-45YMN	-45YT	-45YTN	
MJ27	2	-25TM	-25TMN	-25TT	-25TTN	MJ48	1.5	-48RM	-48RMN	-48RT	-48RTN
	1.5	-27PM	-27PMN	-27PT	-27PTN		2	-48TM	-48TMN	-48TT	-48TTN
MJ28	1.5	-27RM	-27RMN	-27RT	-27RTN		3	-48VM	-48VMN	-48VT	-48VTN
	2	-27TM	-27TMN	-27TT	-27TTN		4	-48XM	-48XMN	-48XT	-48XTN
MJ29	3	-27VM	-27VMN	-27VT	-27VTN		5	-48ZM	-48ZMN	-48ZT	-48ZTN
	1	-28PM	-28PMN	-28PT	-28PTN	MJ50	1.5	-50RM	-50RMN	-50RT	-50RTN
1.5	-28RM	-28RMN	-28RT	-28RTN	2		-50TM	-50TMN	-50TT	-50TTN	
MJ30	2	-28TM	-28TMN	-28TT	-28TTN		3	-50VM	-50VMN	-50VT	-50VTN
	1	-30PM	-30PMN	-30PT	-30PTN	MJ52	1.5	-52RM	-52RMN	-52RT	-52RTN
1.5	-30RM	-30RMN	-30RT	-30RTN	2		-52TM	-52TMN	-52TT	-52TTN	
MJ31	2	-30TM	-30TMN	-30TT	-30TTN		3	-52VM	-52VMN	-52VT	-52VTN
	3	-30VM	-30VMN	-30VT	-30VTN		4	-52XM	-52XMN	-52XT	-52XTN
MJ32	3.5	-30NM	-30NMN	-30NT	-30NTN		5	-52ZDM	-52ZDMN	-52ZDT	-52ZDTN
	1.5	-32RM	-32RMN	-32RT	-32RTN	MJ55	1.5	-55RM	-55RMN	-55RT	-55RTN
2	-32TM	-32TMN	-32TT	-32TTN	2		-55TM	-55TMN	-55TT	-55TTN	
MJ33	1.5	-33RM	-33RMN	-33RT	-33RTN		3	-55VM	-55VMN	-55VT	-55VTN
	2	-33TM	-33TMN	-33TT	-33TTN		4	-55XM	-55XMN	-55XT	-55XTN
MJ34	3	-33VM	-33VMN	-33VT	-33VTN	MJ56	2	-56TM	-56TMN	-56TT	-56TTN
	3.5	-33NM	-33NMN	-33NT	-33NTN		3	-56VM	-56VMN	-56VT	-56VTN
MJ35	1.5	-35RM	-35RMN	-35RT	-35RTN		4	-56XM	-56XMN	-56XT	-56XTN
	2	-35TM	-35TMN	-35TT	-35TTN	5.5	-56ZDM	-56ZDMN	-56ZDT	-56ZDTN	
MJ36	1.5	-36RM	-36RMN	-36RT	-36RTN	MJ58	1.5	-58RM	-58RMN	-58RT	-58RTN
	2	-36TM	-36TMN	-36TT	-36TTN		2	-58TM	-58TMN	-58TT	-58TTN
MJ37	3	-36VM	-36VMN	-36VT	-36VTN		3	-58VM	-58VMN	-58VT	-58VTN
	4	-36XM	-36XMN	-36XT	-36XTN		4	-58XM	-58XMN	-58XT	-58XTN
MJ38	1.5	-38RM	-38RMN	-38RT	-38RTN	MJ60	1.5	-60RM	-60RMN	-60RT	-60RTN
	1.5	-39RM	-39RMN	-39RT	-39RTN		2	-60TM	-60TMN	-60TT	-60TTN
MJ39	2	-39TM	-39TMN	-39TT	-39TTN		3	-60VM	-60VMN	-60VT	-60VTN
	3	-39VM	-39VMN	-39VT	-39VTN		4	-60XM	-60XMN	-60XT	-60XTN
MJ40	4	-39XM	-39XMN	-39XT	-39XTN		5.5	-60ZDM	-60ZDMN	-60ZDT	-60ZDTN
	1.5	-40RM	-40RMN	-40RT	-40RTN	MJ62	1.5	-62RM	-62RMN	-62RT	-62RTN
2	-40TM	-40TMN	-40TT	-40TTN	2		-62TM	-62TMN	-62TT	-62TTN	
MJ41	3	-40VM	-40VMN	-40VT	-40VTN		3	-62VM	-62VMN	-62VT	-62VTN
	1.5	-42RM	-42RMN	-42RT	-42RTN	4	-62XM	-62XMN	-62XT	-62XTN	
MJ42	1.5	-42RM	-42RMN	-42RT	-42RTN	MJ64	1.5	-64RM	-64RMN	-64RT	-64RTN

To be continued

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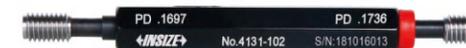
Size (mm)		Code (4220)				Size (mm)		Code (4220)				
Nominal diameter	Pitch	Class 4g6g		Class 4h6h		Nominal diameter	Pitch	Class 4g6g		Class 4h6h		
		GO	NOGO	GO	NOGO			GO	NOGO	GO	NOGO	
MJ64	2	-64TM	-64TMN	-64TT	-64TTN	MJ85	2	-85TM	-85TMN	-85TT	-85TTN	
	3	-64VM	-64VMN	-64VT	-64VTN		3	-85VM	-85VMN	-85VT	-85VTN	
	4	-64XM	-64XMN	-64XT	-64XTN		4	-85XM	-85XMN	-85XT	-85XTN	
		6	-64OM	-64OMN	-64OT		-64OTN	6	-85OM	-85OMN	-85OT	-85OTN
MJ65	1.5	-65RM	-65RMN	-65RT	-65RTN		MJ88	1.5	-88RM	-88RMN	-88RT	-88RTN
	2	-65TM	-65TMN	-65TT	-65TTN		MJ90	1.5	-90RM	-90RMN	-90RT	-90RTN
	3	-65VM	-65VMN	-65VT	-65VTN	2		-90TM	-90TMN	-90TT	-90TTN	
	4	-65XM	-65XMN	-65XT	-65XTN	3		-90VM	-90VMN	-90VT	-90VTN	
1.5		-68RM	-68RMN	-68RT	-68RTN	4		-90XM	-90XMN	-90XT	-90XTN	
MJ68	2	-68TM	-68TMN	-68TT	-68TTN	6		-90OM	-90OMN	-90OT	-90OTN	
	3	-68VM	-68VMN	-68VT	-68VTN	MJ92		1.5	-92RM	-92RMN	-92RT	-92RTN
	4	-68XM	-68XMN	-68XT	-68XTN	MJ95	1.5	-95RM	-95RMN	-95RT	-95RTN	
		6	-68OM	-68OMN	-68OT		-68OTN	2	-95TM	-95TMN	-95TT	-95TTN
MJ70	1.5	-70RM	-70RMN	-70RT	-70RTN		3	-95VM	-95VMN	-95VT	-95VTN	
	2	-70TM	-70TMN	-70TT	-70TTN		4	-95XM	-95XMN	-95XT	-95XTN	
	3	-70VM	-70VMN	-70VT	-70VTN		6	-95OM	-95OMN	-95OT	-95OTN	
	4	-70XM	-70XMN	-70XT	-70XTN		MJ98	1.5	-98RM	-98RMN	-98RT	-98RTN
6	-70OM	-70OMN	-70OT	-70OTN	MJ100	1.5	-100RM	-100RMN	-100RT	-100RTN		
MJ72	1.5	-72RM	-72RMN	-72RT		-72RTN	2	-100TM	-100TMN	-100TT	-100TTN	
	2	-72TM	-72TMN	-72TT		-72TTN	3	-100VM	-100VMN	-100VT	-100VTN	
	3	-72VM	-72VMN	-72VT		-72VTN	4	-100XM	-100XMN	-100XT	-100XTN	
	4	-72XM	-72XMN	-72XT		-72XTN	6	-100OM	-100OMN	-100OT	-100OTN	
6	-72OM	-72OMN	-72OT	-72OTN		MJ102	1.5	-102RM	-102RMN	-102RT	-102RTN	
MJ75	1.5	-75RM	-75RMN	-75RT	-75RTN	MJ105	1.5	-105RM	-105RMN	-105RT	-105RTN	
	2	-75TM	-75TMN	-75TT	-75TTN		2	-105TM	-105TMN	-105TT	-105TTN	
	3	-75VM	-75VMN	-75VT	-75VTN		3	-105VM	-105VMN	-105VT	-105VTN	
	4	-75XM	-75XMN	-75XT	-75XTN		4	-105XM	-105XMN	-105XT	-105XTN	
MJ76	1.5	-76RM	-76RMN	-76RT	-76RTN		6	-105OM	-105OMN	-105OT	-105OTN	
	3	-76VM	-76VMN	-76VT	-76VTN		MJ108	1.5	-108RM	-108RMN	-108RT	-108RTN
	4	-76XM	-76XMN	-76XT	-76XTN	MJ110	1.5	-110RM	-110RMN	-110RT	-110RTN	
		6	-76OM	-76OMN	-76OT		-76OTN	2	-110TM	-110TMN	-110TT	-110TTN
MJ78	1.5	-78RM	-78RMN	-78RT	-78RTN		3	-110VM	-110VMN	-110VT	-110VTN	
	2	-78TM	-78TMN	-78TT	-78TTN		4	-110XM	-110XMN	-110XT	-110XTN	
	3	-78VM	-78VMN	-78VT	-78VTN		6	-110OM	-110OMN	-110OT	-110OTN	
MJ80	1.5	-80RM	-80RMN	-80RT	-80RTN		MJ112	1.5	-112RM	-112RMN	-112RT	-112RTN
	2	-80TM	-80TMN	-80TT	-80TTN	MJ115	1.5	-115RM	-115RMN	-115RT	-115RTN	
	3	-80VM	-80VMN	-80VT	-80VTN		2	-115TM	-115TMN	-115TT	-115TTN	
	4	-80XM	-80XMN	-80XT	-80XTN		3	-115VM	-115VMN	-115VT	-115VTN	
	6	-80OM	-80OMN	-80OT	-80OTN		4	-115XM	-115XMN	-115XT	-115XTN	
		1.5	-82RM	-82RMN	-82RT		-82RTN	6	-115OM	-115OMN	-115OT	-115OTN
MJ82	2	-82TM	-82TMN	-82TT	-82TTN		MJ118	1.5	-118RM	-118RMN	-118RT	-118RTN
	3	-82VM	-82VMN	-82VT	-82VTN	MJ120	1.5	-120RM	-120RMN	-120RT	-120RTN	
	1.5	-85RM	-85RMN	-85RT	-85RTN		2	-120TM	-120TMN	-120TT	-120TTN	

To be continued

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Size (mm)		Code (4220)			
Nominal diameter	Pitch	Class 4g6g		Class 4h6h	
		GO	NOGO	GO	NOGO
MJ120	3	-120VM	-120VMN	-120VT	-120VTN
	4	-120XM	-120XMN	-120XT	-120XTN
	6	-120OM	-120OMN	-120OT	-120OTN
MJ125	1.5	-125RM	-125RMN	-125RT	-125RTN
	2	-125TM	-125TMN	-125TT	-125TTN
	3	-125VM	-125VMN	-125VT	-125VTN
	4	-125XM	-125XMN	-125XT	-125XTN
MJ130	6	-125OM	-125OMN	-125OT	-125OTN
	1.5	-130RM	-130RMN	-130RT	-130RTN
	2	-130TM	-130TMN	-130TT	-130TTN
	3	-130VM	-130VMN	-130VT	-130VTN
MJ135	4	-130XM	-130XMN	-130XT	-130XTN
	6	-130OM	-130OMN	-130OT	-130OTN
	1.5	-135RM	-135RMN	-135RT	-135RTN
	2	-135TM	-135TMN	-135TT	-135TTN
MJ140	3	-135VM	-135VMN	-135VT	-135VTN
	4	-135XM	-135XMN	-135XT	-135XTN
	6	-135OM	-135OMN	-135OT	-135OTN
	1.5	-140RM	-140RMN	-140RT	-140RTN
MJ145	2	-140TM	-140TMN	-140TT	-140TTN
	3	-140VM	-140VMN	-140VT	-140VTN
	4	-140XM	-140XMN	-140XT	-140XTN
	6	-140OM	-140OMN	-140OT	-140OTN
MJ150	1.5	-145TM	-145TMN	-145TT	-145TTN
	2	-145VM	-145VMN	-145VT	-145VTN
	3	-145XM	-145XMN	-145XT	-145XTN
	4	-145OM	-145OMN	-145OT	-145OTN
MJ155	6	-150RM	-150RMN	-150RT	-150RTN
	2	-150TM	-150TMN	-150TT	-150TTN
	3	-150VM	-150VMN	-150VT	-150VTN
	4	-150XM	-150XMN	-150XT	-150XTN

Size (mm)		Code (4220)			
Nominal diameter	Pitch	Class 4g6g		Class 4h6h	
		GO	NOGO	GO	NOGO
MJ150	6	-150OM	-150OMN	-150OT	-150OTN
	3	-155VM	-155VMN	-155VT	-155VTN
	4	-155XM	-155XMN	-155XT	-155XTN
MJ155	6	-155OM	-155OMN	-155OT	-155OTN
	3	-160VM	-160VMN	-160VT	-160VTN
	4	-160XM	-160XMN	-160XT	-160XTN
MJ160	6	-160OM	-160OMN	-160OT	-160OTN
	3	-165VM	-165VMN	-165VT	-165VTN
	4	-165XM	-165XMN	-165XT	-165XTN
MJ165	6	-165OM	-165OMN	-165OT	-165OTN
	3	-170VM	-170VMN	-170VT	-170VTN
	4	-170XM	-170XMN	-170XT	-170XTN
MJ170	6	-170OM	-170OMN	-170OT	-170OTN
	3	-175VM	-175VMN	-175VT	-175VTN
	4	-175XM	-175XMN	-175XT	-175XTN
MJ175	6	-175OM	-175OMN	-175OT	-175OTN
	3	-180VM	-180VMN	-180VT	-180VTN
	4	-180XM	-180XMN	-180XT	-180XTN
MJ180	6	-180OM	-180OMN	-180OT	-180OTN
	3	-185VM	-185VMN	-185VT	-185VTN
	4	-185XM	-185XMN	-185XT	-185XTN
MJ185	6	-185OM	-185OMN	-185OT	-185OTN
	3	-190VM	-190VMN	-190VT	-190VTN
	4	-190XM	-190XMN	-190XT	-190XTN
MJ190	6	-190OM	-190OMN	-190OT	-190OTN
	3	-195VM	-195VMN	-195VT	-195VTN
	4	-195XM	-195XMN	-195XT	-195XTN
MJ195	6	-195OM	-195OMN	-195OT	-195OTN
	3	-200VM	-200VMN	-200VT	-200VTN
	4	-200XM	-200XMN	-200XT	-200XTN
MJ200	6	-200OM	-200OMN	-200OT	-200OTN



4131-102

**AMERICAN STANDARD THREAD PLUG GAUGES**



- Supplied with Go and No-Go gauges 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	7/16-14UNC	4131-7D1	4131-7D1B
No. 1-64UNC	4131-11	4131-11B	7/16-20UNF	4131-7D2	4131-7D2B
No. 1-72UNF	4131-12	4131-12B	7/16-28UNEF	4131-7D3	4131-7D3B
No. 2-56UNC	4131-21	4131-21B	1/2-13UNC	4131-1A1	4131-1A1B
No. 2-64UNF	4131-22	4131-22B	1/2-20UNF	4131-1A2	4131-1A2B
No. 3-48UNC	4131-31	4131-31B	1/2-28UNEF	4131-1A3	4131-1A3B
No. 3-56UNF	4131-32	4131-32B	9/16-12UNC	4131-9D1	4131-9D1B
No. 4-40UNC	4131-41	4131-41B	9/16-18UNF	4131-9D2	4131-9D2B
No. 4-48UNF	4131-42	4131-42B	9/16-24UNEF	4131-9D3	4131-9D3B
No. 5-40UNC	4131-51	4131-51B	5/8-11UNC	4131-5C1	4131-5C1B
No. 5-44UNF	4131-52	4131-52B	5/8-18UNF	4131-5C2	4131-5C2B
No. 6-32UNC	4131-61	4131-61B	5/8-24UNEF	4131-5C3	4131-5C3B
No. 6-40UNF	4131-62	4131-62B	11/16-16UN	4131-11D516	4131-11D516B
No. 8-32UNC	4131-81	4131-81B	11/16-24UNEF	4131-11D3	4131-11D3B
No. 8-36UNF	4131-82	4131-82B	3/4-10UNC	4131-3B1	4131-3B1B
No. 10-24UNC	4131-101	4131-101B	3/4-16UNF	4131-3B2	4131-3B2B
No. 10-32UNF	4131-102	4131-102B	3/4-20UNEF	4131-3B3	4131-3B3B
No. 12-24UNC	4131-121	4131-121B	13/16-16UN	4131-13D516	4131-13D516B
No. 12-28UNF	4131-122	4131-122B	13/16-20UNEF	4131-13D3	4131-13D3B
No. 12-32UNEF	4131-123	4131-123B	7/8-9UNC	4131-7C1	4131-7C1B
1/4-20UNC	4131-1B1	4131-1B1B	7/8-14UNF	4131-7C2	4131-7C2B
1/4-28UNF	4131-1B2	4131-1B2B	7/8-16UN	4131-7C516	4131-7C516B
1/4-32UNEF	4131-1B3	4131-1B3B	7/8-20UNEF	4131-7C3	4131-7C3B
1/4-36UNS	4131-1B4	4131-1B4B	15/16-20UNEF	4131-15D3	4131-15D3B
5/16-18UNC	4131-5D1	4131-5D1B	1-8UNC	4131-2A1	4131-2A1B
5/16-24UNF	4131-5D2	4131-5D2B	1-12UNF	4131-2A2	4131-2A2B
5/16-32UNEF	4131-5D3	4131-5D3B	1-14UNS	4131-2A514	4131-2A514B
3/8-16UNC	4131-3C1	4131-3C1B	1-16UN	4131-2A516	4131-2A516B
3/8-24UNF	4131-3C2	4131-3C2B	1-20UNEF	4131-2A3	4131-2A3B
3/8-32UNEF	4131-3C3	4131-3C3B	1-32UN	4131-2A532	4131-2A532B

Continued from previous page

Size	Code		Size	Code	
	Class 2B	Class 3B		Class 2B	Class 3B
1 1/16-12UN	4131-1E512	4131-1E512B	2 1/4-12UN	4131-1K512	4131-1K512B
1 1/16-18UNEF	4131-1E3	4131-1E3B	2 1/4-16UN	4131-1K516	4131-1K516B
1 1/16-16UN	4131-1E516	4131-1E516B	2 3/8-12UN	4131-3L512	4131-3L512B
1 1/8-7UNC	4131-1F1	4131-1F1B	2 3/8-16UN	4131-3L516	4131-3L516B
1 1/8-8UN	4131-1F58	4131-1F58B	2 1/2-4UNC	4131-1J1	4131-1J1B
1 1/8-12UNF	4131-1F2	4131-1F2B	2 1/2-12UN	4131-1J512	4131-1J512B
1 1/8-18UNEF	4131-1F3	4131-1F3B	2 1/2-16UN	4131-1J516	4131-1J516B
1 3/16-12UN	4131-3E512	4131-3E512B	2 5/8-12UN	4131-5L512	4131-5L512B
1 3/16-16UN	4131-3E516	4131-3E516B	2 5/8-16UN	4131-5L516	4131-5L516B
1 3/16-18UNEF	4131-3E3	4131-3E3B	2 3/4-4UNC	4131-3K1	4131-3K1B
1 1/4-7UNC	4131-1G1	4131-1G1B	2 3/4-12UN	4131-3K512	4131-3K512B
1 1/4-8UN	4131-1G58	4131-1G58B	2 3/4-16UN	4131-3K516	4131-3K516B
1 1/4-12UNF	4131-1G2	4131-1G2B	2 7/8-12UN	4131-7L512	4131-7L512B
1 1/4-18UNEF	4131-1G3	4131-1G3B	2 7/8-16UN	4131-7L516	4131-7L516B
1 5/16-12UN	4131-5E512	4131-5E512B	3-4UNC	4131-6A1	4131-6A1B
1 5/16-18UNEF	4131-5E3	4131-5E3B	3-12UN	4131-6A512	4131-6A512B
1 3/8-6UNC	4131-3F1	4131-3F1B	3-16UN	4131-6A516	4131-6A516B
1 3/8-8UN	4131-3F58	4131-3F58B	3 1/8-12UN	4131-1Q512	4131-1Q512B
1 3/8-12UNF	4131-3F2	4131-3F2B	3 1/8-16UN	4131-1Q516	4131-1Q516B
1 3/8-18UNEF	4131-3F3	4131-3F3B	3 1/4-4UNC	4131-1P54	4131-1P54B
1 7/16-18UNEF	4131-7E3	4131-7E3B	3 1/4-12UN	4131-1P512	4131-1P512B
1 1/2-6UNC	4131-1H1	4131-1H1B	3 1/4-16UN	4131-1P516	4131-1P516B
1 1/2-8UN	4131-1H58	4131-1H58B	3 3/8-12UN	4131-3Q512	4131-3Q512B
1 1/2-12UNF	4131-1H2	4131-1H2B	3 3/8-16UN	4131-3Q516	4131-3Q516B
1 1/2-18UNEF	4131-1H3	4131-1H3B	3 1/2-4UNC	4131-1N54	4131-1N54B
1 9/16-18UNEF	4131-9E3	4131-9E3B	3 1/2-12UN	4131-1N512	4131-1N512B
1 5/8-8UN	4131-5F58	4131-5F58B	3 1/2-16UN	4131-1N516	4131-1N516B
1 5/8-12UN	4131-5F512	4131-5F512B	3 5/8-12UN	4131-5Q512	4131-5Q512B
1 5/8-18UNEF	4131-5F3	4131-5F3B	3 5/8-16UN	4131-5Q516	4131-5Q516B
1 3/4-5UNC	4131-3G1	4131-3G1B	3 3/4-4UNC	4131-3P54	4131-3P54B
1 3/4-8UN	4131-3G58	4131-3G58B	3 3/4-12UN	4131-3P512	4131-3P512B
1 3/4-12UN	4131-3G512	4131-3G512B	3 3/4-16UN	4131-3P516	4131-3P516B
1 7/8-12UN	4131-7F512	4131-7F512B	3 7/8-12UN	4131-7Q512	4131-7Q512B
1 7/8-16UN	4131-7F516	4131-7F516B	3 7/8-16UN	4131-7Q516	4131-7Q516B
2-4 1/2UNC	4131-4A1	4131-4A1B	4-4UNC	4131-8A1	4131-8A1B
2-8UN	4131-4A58	4131-4A58B	4-12UN	4131-8A512	4131-8A512B
2-12UN	4131-4A512	4131-4A512B	4-16UN	4131-8A516	4131-8A516B
2 1/4-4 1/2UNC	4131-1K1	4131-1K1B			



**AMERICAN STANDARD THREAD RING GAUGES**



- Standard ANSI/ASME B1.2
- Class 2A, 3A
- Supplied with manufacturer inspection certificate

Code example: "-41" stands for "4121-41"

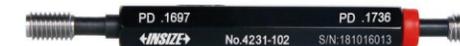
Size	Code (4121)			
	2A		3A	
	GO	NOGO	GO	NOGO
No. 4-40UNC	-41	-41N	-41A	-41AN
No. 4-48UNF	-42	-42N	-42A	-42AN
No. 5-40UNC	-51	-51N	-51A	-51AN
No. 5-44UNF	-52	-52N	-52A	-52AN
No. 6-32UNC	-61	-61N	-61A	-61AN
No. 6-40UNF	-62	-62N	-62A	-62AN
No. 8-32UNC	-81	-81N	-81A	-81AN
No. 8-36UNF	-82	-82N	-82A	-82AN
No. 10-24UNC	-101	-101N	-101A	-101AN
No. 10-32UNF	-102	-102N	-102A	-102AN
No. 12-24UNC	-121	-121N	-121A	-121AN
No. 12-28UNF	-122	-122N	-122A	-122AN
No. 12-32UNEF	-123	-123N	-123A	-123AN
1/4-20UNC	-1B1	-1B1N	-1B1A	-1B1AN
1/4-28UNF	-1B2	-1B2N	-1B2A	-1B2AN
1/4-32UNEF	-1B3	-1B3N	-1B3A	-1B3AN
1/4-36UNS	-1B4	-1B4N	-1B4A	-1B4AN
5/16-18UNC	-5D1	-5D1N	-5D1A	-5D1AN
5/16-24UNF	-5D2	-5D2N	-5D2A	-5D2AN
5/16-32UNEF	-5D3	-5D3N	-5D3A	-5D3AN
3/8-16UNC	-3C1	-3C1N	-3C1A	-3C1AN
3/8-24UNF	-3C2	-3C2N	-3C2A	-3C2AN
3/8-32UNEF	-3C3	-3C3N	-3C3A	-3C3AN
7/16-14UNC	-7D1	-7D1N	-7D1A	-7D1AN
7/16-20UNF	-7D2	-7D2N	-7D2A	-7D2AN
7/16-28UNEF	-7D3	-7D3N	-7D3A	-7D3AN

Size	Code (4121)			
	2A		3A	
	GO	NOGO	GO	NOGO
1/2-13UNC	-1A1	-1A1N	-1A1A	-1A1AN
1/2-20UNF	-1A2	-1A2N	-1A2A	-1A2AN
1/2-28UNEF	-1A3	-1A3N	-1A3A	-1A3AN
9/16-12UNC	-9D1	-9D1N	-9D1A	-9D1AN
9/16-18UNF	-9D2	-9D2N	-9D2A	-9D2AN
9/16-24UNEF	-9D3	-9D3N	-9D3A	-9D3AN
5/8-11UNC	-5C1	-5C1N	-5C1A	-5C1AN
5/8-18UNF	-5C2	-5C2N	-5C2A	-5C2AN
5/8-24UNEF	-5C3	-5C3N	-5C3A	-5C3AN
11/16-16UN	-11D516	-11D516N	-11D516A	-11D516AN
11/16-24UNEF	-11D3	-11D3N	-11D3A	-11D3AN
3/4-10UNC	-3B1	-3B1N	-3B1A	-3B1AN
3/4-16UNF	-3B2	-3B2N	-3B2A	-3B2AN
3/4-20UNEF	-3B3	-3B3N	-3B3A	-3B3AN
13/16-16UN	-13D516	-13D516N	-13D516A	-13D516AN
13/16-20UNEF	-13D3	-13D3N	-13D3A	-13D3AN
7/8-9UNC	-7C1	-7C1N	-7C1A	-7C1AN
7/8-14UNF	-7C2	-7C2N	-7C2A	-7C2AN
7/8-16UN	-7C516	-7C516N	-7C516A	-7C516AN
7/8-20UNEF	-7C3	-7C3N	-7C3A	-7C3AN
15/16-20UNEF	-15D3	-15D3N	-15D3A	-15D3AN
1-8UNC	-2A1	-2A1N	-2A1A	-2A1AN
1-12UNF	-2A2	-2A2N	-2A2A	-2A2AN
1-14UNS	-2A514	-2A514N	-2A514A	-2A514AN
1-16UN	-2A516	-2A516N	-2A516A	-2A516AN
1-20UNEF	-2A3	-2A3N	-2A3A	-2A3AN

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Size	Code (4121)			
	2A		3A	
	GO	NOGO	GO	NOGO
1-32UN	-2A532	-2A532N	-2A532A	-2A532AN
1 1/16-12UN	-1E512	-1E512N	-1E512A	-1E512AN
1 1/16-18UNEF	-1E3	-1E3N	-1E3A	-1E3AN
1 1/16-16UN	-1E516	-1E516N	-1E516A	-1E516AN
1 1/8-7UNC	-1F1	-1F1N	-1F1A	-1F1AN
1 1/8-8UN	-1F58	-1F58N	-1F58A	-1F58AN
1 1/8-12UNF	-1F2	-1F2N	-1F2A	-1F2AN
1 1/8-18UNEF	-1F3	-1F3N	-1F3A	-1F3AN
1 3/16-12UN	-3E512	-3E512N	-3E512A	-3E512AN
1 3/16-16UN	-3E516	-3E516N	-3E516A	-3E516AN
1 3/16-18UNEF	-3E3	-3E3N	-3E3A	-3E3AN
1 1/4-7UNC	-1G1	-1G1N	-1G1A	-1G1AN
1 1/4-8UN	-1G58	-1G58N	-1G58A	-1G58AN
1 1/4-12UNF	-1G2	-1G2N	-1G2A	-1G2AN
1 1/4-18UNEF	-1G3	-1G3N	-1G3A	-1G3AN
1 5/16-12UN	-5E512	-5E512N	-5E512A	-5E512AN
1 5/16-18UNEF	-5E3	-5E3N	-5E3A	-5E3AN
1 3/8-6UNC	-3F1	-3F1N	-3F1A	-3F1AN
1 3/8-8UN	-3F58	-3F58N	-3F58A	-3F58AN
1 3/8-12UNF	-3F2	-3F2N	-3F2A	-3F2AN
1 3/8-18UNEF	-3F3	-3F3N	-3F3A	-3F3AN
1 7/16-18UNEF	-7E3	-7E3N	-7E3A	-7E3AN
1 1/2-6UNC	-1H1	-1H1N	-1H1A	-1H1AN
1 1/2-8UN	-1H58	-1H58N	-1H58A	-1H58AN
1 1/2-12UNF	-1H2	-1H2N	-1H2A	-1H2AN
1 1/2-18UNEF	-1H3	-1H3N	-1H3A	-1H3AN
1 9/16-18UNEF	-9E3	-9E3N	-9E3A	-9E3AN
1 5/8-8UN	-5F58	-5F58N	-5F58A	-5F58AN
1 5/8-12UN	-5F512	-5F512N	-5F512A	-5F512AN
1 5/8-18UNEF	-5F3	-5F3N	-5F3A	-5F3AN
1 3/4-5UNC	-3G1	-3G1N	-3G1A	-3G1AN
1 3/4-8UN	-3G58	-3G58N	-3G58A	-3G58AN
1 3/4-12UN	-3G512	-3G512N	-3G512A	-3G512AN
1 7/8-12UN	-7F512	-7F512N	-7F512A	-7F512AN
1 7/8-16UN	-7F516	-7F516N	-7F516A	-7F516AN
2-4 1/2UNC	-4A1	-4A1N	-4A1A	-4A1AN
2-8UN	-4A58	-4A58N	-4A58A	-4A58AN
2-12UN	-4A512	-4A512N	-4A512A	-4A512AN

Size	Code (4121)			
	2A		3A	
	GO	NOGO	GO	NOGO
2 1/4-4 1/2UNC	-1K1	-1K1N	-1K1A	-1K1AN
2 1/4-12UN	-1K512	-1K512N	-1K512A	-1K512AN
2 1/4-16UN	-1K516	-1K516N	-1K516A	-1K516AN
2 3/8-12UN	-3L512	-3L512N	-3L512A	-3L512AN
2 3/8-16UN	-3L516	-3L516N	-3L516A	-3L516AN
2 1/2-4UNC	-1J1	-1J1N	-1J1A	-1J1AN
2 1/2-12UN	-1J512	-1J512N	-1J512A	-1J512AN
2 1/2-16UN	-1J516	-1J516N	-1J516A	-1J516AN
2 5/8-12UN	-5L512	-5L512N	-5L512A	-5L512AN
2 5/8-16UN	-5L516	-5L516N	-5L516A	-5L516AN
2 3/4-4UNC	-3K1	-3K1N	-3K1A	-3K1AN
2 3/4-12UN	-3K512	-3K512N	-3K512A	-3K512AN
2 3/4-16UN	-3K516	-3K516N	-3K516A	-3K516AN
2 7/8-12UN	-7L512	-7L512N	-7L512A	-7L512AN
2 7/8-16UN	-7L516	-7L516N	-7L516A	-7L516AN
3-4UNC	-6A1	-6A1N	-6A1A	-6A1AN
3-12UN	-6A512	-6A512N	-6A512A	-6A512AN
3-16UN	-6A516	-6A516N	-6A516A	-6A516AN
3 1/8-12UN	-1Q512	-1Q512N	-1Q512A	-1Q512AN
3 1/8-16UN	-1Q516	-1Q516N	-1Q516A	-1Q516AN
3 1/4-4UNC	-1P54	-1P54N	-1P54A	-1P54AN
3 1/4-12UN	-1P512	-1P512N	-1P512A	-1P512AN
3 1/4-16UN	-1P516	-1P516N	-1P516A	-1P516AN
3 3/8-12UN	-3Q512	-3Q512N	-3Q512A	-3Q512AN
3 3/8-16UN	-3Q516	-3Q516N	-3Q516A	-3Q516AN
3 1/2-4UNC	-1N54	-1N54N	-1N54A	-1N54AN
3 1/2-12UN	-1N512	-1N512N	-1N512A	-1N512AN
3 1/2-16UN	-1N516	-1N516N	-1N516A	-1N516AN
3 5/8-12UN	-5Q512	-5Q512N	-5Q512A	-5Q512AN
3 5/8-16UN	-5Q516	-5Q516N	-5Q516A	-5Q516AN
3 3/4-4UNC	-3P54	-3P54N	-3P54A	-3P54AN
3 3/4-12UN	-3P512	-3P512N	-3P512A	-3P512AN
3 3/4-16UN	-3P516	-3P516N	-3P516A	-3P516AN
3 7/8-12UN	-7Q512	-7Q512N	-7Q512A	-7Q512AN
3 7/8-16UN	-7Q516	-7Q516N	-7Q516A	-7Q516AN
4-4UNC	-8A1	-8A1N	-8A1A	-8A1AN
4-12UN	-8A512	-8A512N	-8A512A	-8A512AN
4-16UN	-8A516	-8A516N	-8A516A	-8A516AN



4231-102

**AMERICAN STANDARD AEROSPACE  
THREAD PLUG GAUGES**



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

Size	Code	
	Class 2B	Class 3B
No. 0-80UNJF	4231-02	4231-02B
No. 1-64UNJC	4231-11	4231-11B
No. 1-72UNJF	4231-12	4231-12B
No. 2-56UNJC	4231-21	4231-21B
No. 2-64UNJF	4231-22	4231-22B
No. 3-48UNJC	4231-31	4231-31B
No. 3-56UNJF	4231-32	4231-32B
No. 4-40UNJC	4231-41	4231-41B
No. 4-48UNJF	4231-42	4231-42B
No. 5-40UNJC	4231-51	4231-51B
No. 5-44UNJF	4231-52	4231-52B
No. 6-32UNJC	4231-61	4231-61B
No. 6-40UNJF	4231-62	4231-62B
No. 8-32UNJC	4231-81	4231-81B
No. 8-36UNJF	4231-82	4231-82B
No. 10-24UNJC	4231-101	4231-101B
No. 10-32UNJF	4231-102	4231-102B
No. 12-24UNJC	4231-121	4231-121B
No. 12-28UNJF	4231-122	4231-122B
No. 12-32UNJEF	4231-123	4231-123B
1/4-20UNJC	4231-1B1	4231-1B1B
1/4-28UNJF	4231-1B2	4231-1B2B
1/4-32UNJEF	4231-1B3	4231-1B3B
1/4-36UNJS	4231-1B4	4231-1B4B
5/16-18UNJC	4231-5D1	4231-5D1B
5/16-24UNJF	4231-5D2	4231-5D2B
5/16-32UNJEF	4231-5D3	4231-5D3B
3/8-16UNJC	4231-3C1	4231-3C1B
3/8-24UNJF	4231-3C2	4231-3C2B
3/8-32UNJEF	4231-3C3	4231-3C3B

Size	Code	
	Class 2B	Class 3B
7/16-14UNJC	4231-7D1	4231-7D1B
7/16-20UNJF	4231-7D2	4231-7D2B
7/16-28UNJEF	4231-7D3	4231-7D3B
1/2-13UNJC	4231-1A1	4231-1A1B
1/2-20UNJF	4231-1A2	4231-1A2B
1/2-28UNJEF	4231-1A3	4231-1A3B
9/16-12UNJC	4231-9D1	4231-9D1B
9/16-18UNJF	4231-9D2	4231-9D2B
9/16-24UNJEF	4231-9D3	4231-9D3B
5/8-11UNJC	4231-5C1	4231-5C1B
5/8-18UNJF	4231-5C2	4231-5C2B
5/8-24UNJEF	4231-5C3	4231-5C3B
11/16-16UNJ	4231-11D516	4231-11D516B
11/16-24UNJEF	4231-11D3	4231-11D3B
No. 8-10UNJC	4231-3B1	4231-3B1B
3/4-16UNJF	4231-3B2	4231-3B2B
3/4-20UNJEF	4231-3B3	4231-3B3B
13/16-16UNJ	4231-13D516	4231-13D516B
13/16-20UNJEF	4231-13D3	4231-13D3B
7/8-9UNJC	4231-7C1	4231-7C1B
7/8-14UNJF	4231-7C2	4231-7C2B
7/8-16UNJ	4231-7C516	4231-7C516B
7/8-20UNJEF	4231-7C3	4231-7C3B
15/16-20UNJEF	4231-15D3	4231-15D3B
1-8UNJC	4231-2A1	4231-2A1B
1-12UNJF	4231-2A2	4231-2A2B
1-14UNJS	4231-2A514	4231-2A514B
1-16UNJ	4231-2A516	4231-2A516B
1-20UNJEF	4231-2A3	4231-2A3B
1-32UNJ	4231-2A532	4231-2A532B

Continued from previous page

Size	Code	
	Class 2B	Class 3B
1 1/16-12UNJ	4231-1E512	4231-1E512B
1 1/16-18UNJEF	4231-1E3	4231-1E3B
1 1/16-16UNJ	4231-1E516	4231-1E516B
1 1/8-7UNJC	4231-1F1	4231-1F1B
1 1/8-8UNJ	4231-1F58	4231-1F58B
1 1/8-12UNJF	4231-1F2	4231-1F2B
1 1/8-18UNJEF	4231-1F3	4231-1F3B
1 3/16-12UNJ	4231-3E512	4231-3E512B
1 3/16-16UNJ	4231-3E516	4231-3E516B
1 3/16-18UNJEF	4231-3E3	4231-3E3B
1 1/4-7UNJC	4231-1G1	4231-1G1B
1 1/4-8UNJ	4231-1G58	4231-1G58B
1 1/4-12UNJF	4231-1G2	4231-1G2B
1 1/4-18UNJEF	4231-1G3	4231-1G3B
1 5/16-12UNJ	4231-5E512	4231-5E512B
1 5/16-18UNJEF	4231-5E3	4231-5E3B
1 3/8-6UNJC	4231-3F1	4231-3F1B
1 3/8-8UNJ	4231-3F58	4231-3F58B
1 3/8-12UNJF	4231-3F2	4231-3F2B
1 3/8-18UNJEF	4231-3F3	4231-3F3B
1 7/16-18UNJEF	4231-7E3	4231-7E3B
1 1/2-6UNJC	4231-1H1	4231-1H1B
1 1/2-8UNJ	4231-1H58	4231-1H58B
1 1/2-12UNJF	4231-1H2	4231-1H2B
1 1/2-18UNJEF	4231-1H3	4231-1H3B
1 9/16-18UNJEF	4231-9E3	4231-9E3B
1 5/8-8UNJ	4231-5F58	4231-5F58B
1 5/8-12UNJ	4231-5F512	4231-5F512B
1 5/8-18UNJEF	4231-5F3	4231-5F3B
1 3/4-5UNJC	4231-3G1	4231-3G1B
1 3/4-8UNJ	4231-3G58	4231-3G58B
1 3/4-12UNJ	4231-3G512	4231-3G512B
1 7/8-12UNJ	4231-7F512	4231-7F512B
1 7/8-16UNJ	4231-7F516	4231-7F516B
2-4 1/2UNJC	4231-4A1	4231-4A1B
2-8UNJ	4231-4A58	4231-4A58B
2-12UNJ	4231-4A512	4231-4A512B
2 1/4-4 1/2UNJC	4231-1K1	4231-1K1B

Size	Code	
	Class 2B	Class 3B
2 1/4-12UNJ	4231-1K512	4231-1K512B
2 1/4-16UNJ	4231-1K516	4231-1K516B
2 3/8-12UNJ	4231-3L512	4231-3L512B
2 3/8-16UNJ	4231-3L516	4231-3L516B
2 1/2-4UNJC	4231-1J1	4231-1J1B
2 1/2-12UNJ	4231-1J512	4231-1J512B
2 1/2-16UNJ	4231-1J516	4231-1J516B
2 5/8-12UNJ	4231-5L512	4231-5L512B
2 5/8-16UNJ	4231-5L516	4231-5L516B
2 3/4-4UNJC	4231-3K1	4231-3K1B
2 3/4-12UNJ	4231-3K512	4231-3K512B
2 3/4-16UNJ	4231-3K516	4231-3K516B
2 7/8-12UNJ	4231-7L512	4231-7L512B
2 7/8-16UNJ	4231-7L516	4231-7L516B
3-4UNJC	4231-6A1	4231-6A1B
3-12UNJ	4231-6A512	4231-6A512B
3-16UNJ	4231-6A516	4231-6A516B
3 1/8-12UNJ	4231-1Q512	4231-1Q512B
3 1/8-16UNJ	4231-1Q516	4231-1Q516B
3 1/4-4UNJC	4231-1P54	4231-1P54B
3 1/4-12UNJ	4231-1P512	4231-1P512B
3 1/4-16UNJ	4231-1P516	4231-1P516B
3 3/8-12UNJ	4231-3Q512	4231-3Q512B
3 3/8-16UNJ	4231-3Q516	4231-3Q516B
3 1/2-4UNJC	4231-1N54	4231-1N54B
3 1/2-12UNJ	4231-1N512	4231-1N512B
3 1/2-16UNJ	4231-1N516	4231-1N516B
3 5/8-12UNJ	4231-5Q512	4231-5Q512B
3 5/8-16UNJ	4231-5Q516	4231-5Q516B
3 3/4-4UNJC	4231-3P54	4231-3P54B
3 3/4-12UNJ	4231-3P512	4231-3P512B
3 3/4-16UNJ	4231-3P516	4231-3P516B
3 7/8-12UNJ	4231-7Q512	4231-7Q512B
3 7/8-16UNJ	4231-7Q516	4231-7Q516B
4-4UNJC	4231-8A1	4231-8A1B
4-12UNJ	4231-8A512	4231-8A512B
4-16UNJ	4231-8A516	4231-8A516B



4221-1B1A



4221-1B1AN

### AMERICAN STANDARD AEROSPACE THREAD RING GAUGES



- Standard ANSI/ASME B1.2
- Class 2A, 3A
- Supplied with manufacturer inspection certificate

Code example: "-41" stands for "4221-41"

Size	Code (4221)			
	2A		3A	
	GO	NOGO	GO	NOGO
No. 4-40UNJC	-41	-41N	-41A	-41AN
No. 4-48UNJF	-42	-42N	-42A	-42AN
No. 5-40UNJC	-51	-51N	-51A	-51AN
No. 5-44UNJF	-52	-52N	-52A	-52AN
No. 6-32UNJC	-61	-61N	-61A	-61AN
No. 6-40UNJF	-62	-62N	-62A	-62AN
No. 8-32UNJC	-81	-81N	-81A	-81AN
No. 8-36UNJF	-82	-82N	-82A	-82AN
No. 10-24UNJC	-101	-101N	-101A	-101AN
No. 10-32UNJF	-102	-102N	-102A	-102AN
No. 12-24UNJC	-121	-121N	-121A	-121AN
No. 12-28UNJF	-122	-122N	-122A	-122AN
No. 12-32UNJEF	-123	-123N	-123A	-123AN
1/4-20UNJC	-1B1	-1B1N	-1B1A	-1B1AN
1/4-28UNJF	-1B2	-1B2N	-1B2A	-1B2AN
1/4-32UNJEF	-1B3	-1B3N	-1B3A	-1B3AN
1/4-36UNJS	-1B4	-1B4N	-1B4A	-1B4AN
5/16-18UNJC	-5D1	-5D1N	-5D1A	-5D1AN
5/16-24UNJF	-5D2	-5D2N	-5D2A	-5D2AN
5/16-32UNJEF	-5D3	-5D3N	-5D3A	-5D3AN
3/8-16UNJC	-3C1	-3C1N	-3C1A	-3C1AN
3/8-24UNJF	-3C2	-3C2N	-3C2A	-3C2AN
3/8-32UNJEF	-3C3	-3C3N	-3C3A	-3C3AN
7/16-14UNJC	-7D1	-7D1N	-7D1A	-7D1AN
7/16-20UNJF	-7D2	-7D2N	-7D2A	-7D2AN
7/16-28UNJEF	-7D3	-7D3N	-7D3A	-7D3AN
1/2-13UNJC	-1A1	-1A1N	-1A1A	-1A1AN
1/2-20UNJF	-1A2	-1A2N	-1A2A	-1A2AN
1/2-28UNJEF	-1A3	-1A3N	-1A3A	-1A3AN
9/16-12UNJC	-9D1	-9D1N	-9D1A	-9D1AN
9/16-18UNJF	-9D2	-9D2N	-9D2A	-9D2AN
9/16-24UNJEF	-9D3	-9D3N	-9D3A	-9D3AN

Size	Code (4221)			
	2A		3A	
	GO	NOGO	GO	NOGO
5/8-11UNJC	-5C1	-5C1N	-5C1A	-5C1AN
5/8-18UNJF	-5C2	-5C2N	-5C2A	-5C2AN
5/8-24UNJEF	-5C3	-5C3N	-5C3A	-5C3AN
11/16-16UNJ	-11D516	-11D516N	-11D516A	-11D516AN
11/16-24UNJEF	-11D3	-11D3N	-11D3A	-11D3AN
3/4-10UNJC	-3B1	-3B1N	-3B1A	-3B1AN
3/4-16UNJF	-3B2	-3B2N	-3B2A	-3B2AN
3/4-20UNJEF	-3B3	-3B3N	-3B3A	-3B3AN
13/16-16UNJ	-13D516	-13D516N	-13D516A	-13D516AN
13/16-20UNJEF	-13D3	-13D3N	-13D3A	-13D3AN
7/8-9UNJC	-7C1	-7C1N	-7C1A	-7C1AN
7/8-14UNJF	-7C2	-7C2N	-7C2A	-7C2AN
7/8-16UNJ	-7C516	-7C516N	-7C516A	-7C516AN
7/8-20UNJEF	-7C3	-7C3N	-7C3A	-7C3AN
15/16-20UNJEF	-15D3	-15D3N	-15D3A	-15D3AN
1-8UNJC	-2A1	-2A1N	-2A1A	-2A1AN
1-12UNJF	-2A2	-2A2N	-2A2A	-2A2AN
1-14UNJS	-2A514	-2A514N	-2A514A	-2A514AN
1-16UNJ	-2A516	-2A516N	-2A516A	-2A516AN
1-20UNJEF	-2A3	-2A3N	-2A3A	-2A3AN
1-32UNJ	-2A532	-2A532N	-2A532A	-2A532AN
1 1/16-12UNJ	-1E512	-1E512N	-1E512A	-1E512AN
1 1/16-18UNJEF	-1E3	-1E3N	-1E3A	-1E3AN
1 1/16-16UNJ	-1E516	-1E516N	-1E516A	-1E516AN
1 1/8-7UNJC	-1F1	-1F1N	-1F1A	-1F1AN
1 1/8-8UNJ	-1F58	-1F58N	-1F58A	-1F58AN
1 1/8-12UNJF	-1F2	-1F2N	-1F2A	-1F2AN
1 1/8-18UNJEF	-1F3	-1F3N	-1F3A	-1F3AN
1 3/16-12UNJ	-3E512	-3E512N	-3E512A	-3E512AN
1 3/16-16UNJ	-3E516	-3E516N	-3E516A	-3E516AN
1 3/16-18UNJEF	-3E3	-3E3N	-3E3A	-3E3AN

Continued from previous page

Size	Code (4221)				Size	Code (4221)			
	2A		3A			2A		3A	
	GO	NOGO	GO	NOGO		GO	NOGO	GO	NOGO
1 1/4-7UNJC	-1G1	-1G1N	-1G1A	-1G1AN	2 1/2-4UNJC	-1J1	-1J1N	-1J1A	-1J1AN
1 1/4-8UNJ	-1G58	-1G58N	-1G58A	-1G58AN	2 1/2-12UNJ	-1J512	-1J512N	-1J512A	-1J512AN
1 1/4-12UNJF	-1G2	-1G2N	-1G2A	-1G2AN	2 1/2-16UNJ	-1J516	-1J516N	-1J516A	-1J516AN
1 1/4-18UNJEF	-1G3	-1G3N	-1G3A	-1G3AN	2 5/8-12UNJ	-5L512	-5L512N	-5L512A	-5L512AN
1 5/16-12UNJ	-5E512	-5E512N	-5E512A	-5E512AN	2 5/8-16UNJ	-5L516	-5L516N	-5L516A	-5L516AN
1 5/16-18UNJEF	-5E3	-5E3N	-5E3A	-5E3AN	2 3/4-4UNJC	-3K1	-3K1N	-3K1A	-3K1AN
1 3/8-6UNJC	-3F1	-3F1N	-3F1A	-3F1AN	2 3/4-12UNJ	-3K512	-3K512N	-3K512A	-3K512AN
1 3/8-8UNJ	-3F58	-3F58N	-3F58A	-3F58AN	2 3/4-16UNJ	-3K516	-3K516N	-3K516A	-3K516AN
1 3/8-12UNJF	-3F2	-3F2N	-3F2A	-3F2AN	2 7/8-12UNJ	-7L512	-7L512N	-7L512A	-7L512AN
1 3/8-18UNJEF	-3F3	-3F3N	-3F3A	-3F3AN	2 7/8-16UNJ	-7L516	-7L516N	-7L516A	-7L516AN
1 7/16-18UNJEF	-7E3	-7E3N	-7E3A	-7E3AN	3-4UNJC	-6A1	-6A1N	-6A1A	-6A1AN
1 1/2-6UNJC	-1H1	-1H1N	-1H1A	-1H1AN	3-12UNJ	-6A512	-6A512N	-6A512A	-6A512AN
1 1/2-8UNJ	-1H58	-1H58N	-1H58A	-1H58AN	3-16UNJ	-6A516	-6A516N	-6A516A	-6A516AN
1 1/2-12UNJF	-1H2	-1H2N	-1H2A	-1H2AN	3 1/8-12UNJ	-1Q512	-1Q512N	-1Q512A	-1Q512AN
1 1/2-18UNJEF	-1H3	-1H3N	-1H3A	-1H3AN	3 1/8-16UNJ	-1Q516	-1Q516N	-1Q516A	-1Q516AN
1 9/16-18UNJEF	-9E3	-9E3N	-9E3A	-9E3AN	3 1/4-4UNJC	-1P54	-1P54N	-1P54A	-1P54AN
1 5/8-8UNJ	-5F58	-5F58N	-5F58A	-5F58AN	3 1/4-12UNJ	-1P512	-1P512N	-1P512A	-1P512AN
1 5/8-12UNJ	-5F512	-5F512N	-5F512A	-5F512AN	3 1/4-16UNJ	-1P516	-1P516N	-1P516A	-1P516AN
1 5/8-18UNJEF	-5F3	-5F3N	-5F3A	-5F3AN	3 3/8-12UNJ	-3Q512	-3Q512N	-3Q512A	-3Q512AN
1 3/4-5UNJC	-3G1	-3G1N	-3G1A	-3G1AN	3 3/8-16UNJ	-3Q516	-3Q516N	-3Q516A	-3Q516AN
1 3/4-8UNJ	-3G58	-3G58N	-3G58A	-3G58AN	3 1/2-4UNJC	-1N54	-1N54N	-1N54A	-1N54AN
1 3/4-12UNJ	-3G512	-3G512N	-3G512A	-3G512AN	3 1/2-12UNJ	-1N512	-1N512N	-1N512A	-1N512AN
1 7/8-12UNJ	-7F512	-7F512N	-7F512A	-7F512AN	3 1/2-16UNJ	-1N516	-1N516N	-1N516A	-1N516AN
1 7/8-16UNJ	-7F516	-7F516N	-7F516A	-7F516AN	3 5/8-12UNJ	-5Q512	-5Q512N	-5Q512A	-5Q512AN
2-4 1/2UNJC	-4A1	-4A1N	-4A1A	-4A1AN	3 5/8-16UNJ	-5Q516	-5Q516N	-5Q516A	-5Q516AN
2-8UNJ	-4A58	-4A58N	-4A58A	-4A58AN	3 3/4-4UNJC	-3P54	-3P54N	-3P54A	-3P54AN
2-12UNJ	-4A512	-4A512N	-4A512A	-4A512AN	3 3/4-12UNJ	-3P512	-3P512N	-3P512A	-3P512AN
2 1/4-4 1/2UNJC	-1K1	-1K1N	-1K1A	-1K1AN	3 3/4-16UNJ	-3P516	-3P516N	-3P516A	-3P516AN
2 1/4-12UNJ	-1K512	-1K512N	-1K512A	-1K512AN	3 7/8-12UNJ	-7Q512	-7Q512N	-7Q512A	-7Q512AN
2 1/4-16UNJ	-1K516	-1K516N	-1K516A	-1K516AN	3 7/8-16UNJ	-7Q516	-7Q516N	-7Q516A	-7Q516AN
2 3/8-12UNJ	-3L512	-3L512N	-3L512A	-3L512AN	4-4UNJC	-8A1	-8A1N	-8A1A	-8A1AN
2 3/8-16UNJ	-3L516	-3L516N	-3L516A	-3L516AN	4-12UNJ	-8A512	-8A512N	-8A512A	-8A512AN
					4-16UNJ	-8A516	-8A516N	-8A516A	-8A516AN



4244-1B18

**NPT THREAD PLUG GAUGES**



- American taper pipe thread for threads with sealant
- Standard ANSI/ASME B1.20.1
- Taper 1:16
- Made of alloy steel
- Hardness HRC58-65
- Supplied with manufacturer inspection certificate

Code	Size	Code	Size
4244-1D27	1/16-27NPT	4244-1G12	1 1/4-11.5NPT
4244-1C27	1/8-27NPT	4244-1H12	1 1/2-11.5NPT
4244-1B18	1/4-18NPT	4244-212	2-11.5NPT
4244-3C18	3/8-18NPT	4244-1J8	2 1/2-8NPT
4244-1A14	1/2-14NPT	4244-38	3-8NPT
4244-3B14	3/4-14NPT	4244-1N8	3 1/2-8NPT
4244-112	1-11.5NPT	4244-48	4-8NPT



4697-10R

**STI THREAD PLUG GAUGES**



- Supplied with Go and No-Go gauges together
- Standard DIN 8140-3
- Check the thread hole before the wire thread insert is screwed in
- Supplied with manufacturer inspection certificate

Size (mm)		Code	Size (mm)		Code
Nominal diameter	Pitch	Class 6H mod	Nominal diameter	Pitch	Class 6H mod
EG M2	0.4	4697-2E	EG M20	2.5	4697-20U
EG M2.5	0.45	4697-2D5F	EG M20	2	4697-20T
EG M3	0.5	4697-3G	EG M20	1.5	4697-20R
EG M3.5	0.6	4697-3D5H	EG M22	2.5	4697-22U
EG M4	0.7	4697-4K	EG M22	2	4697-22T
EG M5	0.8	4697-5M	EG M22	1.5	4697-22R
EG M6	1	4697-6P	EG M24	3	4697-24V
EG M7	1	4697-7P	EG M24	2	4697-24T
EG M8	1.25	4697-8Q	EG M24	1.5	4697-24R
EG M8	1	4697-8P	EG M26	1.5	4697-26R
EG M9	1	4697-9P	EG M27	3	4697-27V
EG M10	1.5	4697-10R	EG M27	2	4697-27T
EG M10	1	4697-10P	EG M27	1.5	4697-27R
EG M10	1.25	4697-10Q	EG M28	1.5	4697-28R
EG M11	1	4697-11P	EG M30	3.5	4697-30N
EG M12	1.75	4697-12S	EG M30	2	4697-30T
EG M12	1.5	4697-12R	EG M30	1.5	4697-30R
EG M12	1.25	4697-12Q	EG M33	3.5	4697-33N
EG M12	1	4697-12P	EG M33	2	4697-33T
EG M14	2	4697-14T	EG M36	4	4697-36X
EG M14	1.5	4697-14R	EG M36	2	4697-36T
EG M14	1.25	4697-14Q	EG M39	4	4697-39X
EG M14	1	4697-14P	EG M39	2	4697-39T
EG M16	2	4697-16T	EG M42	4.5	4697-42Y
EG M16	1.5	4697-16R	EG M42	2	4697-42T
EG M18	2.5	4697-18U	EG M45	4.5	4697-45Y
EG M18	2	4697-18T	EG M48	5	4697-48Z
EG M18	1.5	4697-18R	EG M52	5	4697-52Z



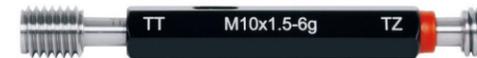
4698-1B1

**AMERICAN STANDARD STI THREAD PLUG GAUGES**

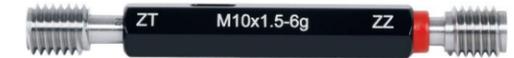


- Supplied with Go and No-Go gauges together
- Gauge dimensions according to ASME B1.2, threads for wire thread inserts according to NASM33537
- Check the thread hole before the wire thread insert is screwed in
- Supplied with manufacturer inspection certificate

Size	Code		Size	Code	
	Class 2B	Class 3B		Class 2B	Class 3B
STI No. 1-64UNC	4698-11	4698-11B	STI 9/16-18UNF	4698-9D2	4698-9D2B
STI No. 2-56UNC	4698-21	4698-21B	STI 5/8-11UNC	4698-5C1	4698-5C1B
STI No. 2-64UNF	4698-22	4698-22B	STI 5/8-18UNF	4698-5C2	4698-5C2B
STI No. 3-48UNC	4698-31	4698-31B	STI 3/4-10UNC	4698-3B1	4698-3B1B
STI No. 3-56UNF	4698-32	4698-32B	STI 3/4-16UNF	4698-3B2	4698-3B2B
STI No. 4-40UNC	4698-41	4698-41B	STI 13/16-16UN	4698-13D516	4698-13D516B
STI No. 4-48UNF	4698-42	4698-42B	STI 7/8-9UNC	4698-7C1	4698-7C1B
STI No. 5-40UNC	4698-51	4698-51B	STI 7/8-14UNF	4698-7C2	4698-7C2B
STI No. 6-32UNC	4698-61	4698-61B	STI 1-8UNC	4698-2A1	4698-2A1B
STI No. 6-40UNF	4698-62	4698-62B	STI 1-12UNF	4698-2A2	4698-2A2B
STI No. 8-32UNC	4698-81	4698-81B	STI 1-14UNS	4698-2A514	4698-2A514B
STI No. 8-36UNF	4698-82	4698-82B	STI 1 1/16-12UN	4698-1E512	4698-1E512B
STI No. 10-24UNC	4698-101	4698-101B	STI 1 1/8-7UNC	4698-1F1	4698-1F1B
STI No. 10-32UNF	4698-102	4698-102B	STI 1 1/8-12UNF	4698-1F2	4698-1F2B
STI No. 12-24UNC	4698-121	4698-121B	STI 1 3/16-12UN	4698-3E512	4698-3E512B
STI 1/4-20UNC	4698-1B1	4698-1B1B	STI 1 1/4-7UNC	4698-1G1	4698-1G1B
STI 1/4-28UNF	4698-1B2	4698-1B2B	STI 1 1/4-12UNF	4698-1G2	4698-1G2B
STI 5/16-18UNC	4698-5D1	4698-5D1B	STI 1 5/16-12UN	4698-5E512	4698-5E512B
STI 5/16-24UNF	4698-5D2	4698-5D2B	STI 1 3/8-6UNC	4698-3F1	4698-3F1B
STI 3/8-16UNC	4698-3C1	4698-3C1B	STI 1 3/8-12UNF	4698-3F2	4698-3F2B
STI 3/8-24UNF	4698-3C2	4698-3C2B	STI 1 1/2-6UNC	4698-1H1	4698-1H1B
STI 7/16-14UNC	4698-7D1	4698-7D1B	STI 1 1/2-12UNF	4698-1H2	4698-1H2B
STI 7/16-20UNF	4698-7D2	4698-7D2B	STI 1 5/8-12UN	4698-5F512	4698-5F512B
STI 1/2-13UNC	4698-1A1	4698-1A1B	STI 1 7/8-12UN	4698-7F512	4698-7F512B
STI 1/2-20UNF	4698-1A2	4698-1A2B	STI 2 1/4-12UN	4698-1K512	4698-1K512B
STI 9/16-12UNC	4698-9D1	4698-9D1B	STI 2 1/2-12UN	4698-1J512	4698-1J512B



4647-10



4647-10N

**CHECK PLUGS FOR METRIC THREAD RING GAUGES**



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

Code example: "-2" stands for "4647-2"

Size (mm)		Code (4647)					
		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



4677-10P



4677-10PN

**CHECK PLUGS FOR METRIC FINE THREAD RING GAUGES**



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

Code example: “-3D5G” stands for “4677-3D5G”

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

To be continued

Continued from previous page

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

To be continued

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
M28	2	-27T	-27TN	-27TE	-27TEN	-27TH	-27THN
	0.75	-28L	-28LN	-28LE	-28LEN	-28LH	-28LHN
	1	-28P	-28PN	-28PE	-28PEN	-28PH	-28PHN
M29	1.5	-28R	-28RN	-28RE	-28REN	-28RH	-28RHN
	2	-28T	-28TN	-28TE	-28TEN	-28TH	-28THN
	0.75	-29L	-29LN	-29LE	-29LEN	-29LH	-29LHN
M30	1	-29P	-29PN	-29PE	-29PEN	-29PH	-29PHN
	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
	1	-32P	-32PN	-32PE	-32PEN	-32PH	-32PHN
M32	1.5	-32R	-32RN	-32RE	-32REN	-32RH	-32RHN
	2	-32T	-32TN	-32TE	-32TEN	-32TH	-32THN
	0.75	-33L	-33LN	-33LE	-33LEN	-33LH	-33LHN
M33	1	-33P	-33PN	-33PE	-33PEN	-33PH	-33PHN
	1.5	-33R	-33RN	-33RE	-33REN	-33RH	-33RHN
	2	-33T	-33TN	-33TE	-33TEN	-33TH	-33THN
M34	3	-33V	-33VN	-33VE	-33VEN	-33VH	-33VHN
	1	-34P	-34PN	-34PE	-34PEN	-34PH	-34PHN
	1.5	-34R	-34RN	-34RE	-34REN	-34RH	-34RHN
M35	2	-34T	-34TN	-34TE	-34TEN	-34TH	-34THN
	1	-35P	-35PN	-35PE	-35PEN	-35PH	-35PHN
	1.5	-35R	-35RN	-35RE	-35REN	-35RH	-35RHN
M36	2	-35T	-35TN	-35TE	-35TEN	-35TH	-35THN
	1	-36P	-36PN	-36PE	-36PEN	-36PH	-36PHN
	1.5	-36R	-36RN	-36RE	-36REN	-36RH	-36RHN
M38	2	-36T	-36TN	-36TE	-36TEN	-36TH	-36THN
	3	-36V	-36VN	-36VE	-36VEN	-36VH	-36VHN
	1	-38P	-38PN	-38PE	-38PEN	-38PH	-38PHN
M39	1.5	-38R	-38RN	-38RE	-38REN	-38RH	-38RHN
	2	-38T	-38TN	-38TE	-38TEN	-38TH	-38THN
	1	-39P	-39PN	-39PE	-39PEN	-39PH	-39PHN
M40	1.5	-39R	-39RN	-39RE	-39REN	-39RH	-39RHN
	2	-39T	-39TN	-39TE	-39TEN	-39TH	-39THN
	3	-39V	-39VN	-39VE	-39VEN	-39VH	-39VHN
M42	1.5	-40R	-40RN	-40RE	-40REN	-40RH	-40RHN
	2	-40T	-40TN	-40TE	-40TEN	-40TH	-40THN
	3	-40V	-40VN	-40VE	-40VEN	-40VH	-40VHN
M45	1.5	-42R	-42RN	-42RE	-42REN	-42RH	-42RHN
	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

To be continued

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

To be continued

Continued from previous page

Size (mm)		Code (4677)					
Nominal diameter	Pitch	Class 6g		Class 6e		Class 6h	
		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
M78	6	-76O	-76ON	-76OE	-76OEN	-76OH	-76OHN
	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



4177-23

**THREAD GAUGES FOR ROTARY SHOULDERED CONNECTIONS OF PETROLEUM EQUIPMENT**

API PRODUCTION LICENSE

- Measure the thread of rotary shouldered connections

Number style gauges

Code	Gauge 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 gauges

Code	Gauge 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 gauges

Code	Gauge 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 gauge

Code	Gauge 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



4178-21T

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

API PRODUCTION LICENSE

- Measure the casing, tubing and line pipe threads

### Casing round thread gauges

Code	Gauge 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				

### Non-upset tubing thread gauges

Code	Gauge 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°

Continued from previous page

### External-upset tubing thread gauges

Code	Gauge 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°

### Buttress casing thread gauges

Code	Gauge 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 gauges

Code	Gauge 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°

To be continued

## GAUGE BLOCKS

Standard gauge block, exquisitely made of high-quality wear-resistant materials. Its dimensional accuracy meets the industry's high standards, with excellent stability and wear resistance. It is widely applicable to scenarios such as gauge calibration, precision measurement, and mechanical processing dimension setting, enabling easy and accurate value transmission. It serves as a reliable precision benchmark in industrial testing, laboratory calibration, and manufacturing.



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## GAUGE BLOCKS

Accuracy according to ISO3650

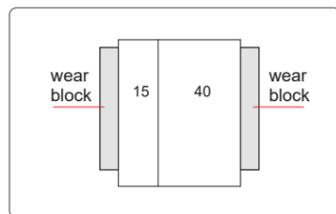
Nominal length (mm)	Grade 0		Grade 1		Grade 2	
	Limit deviation of length	Tolerance for the variation in length	Limit deviation of length	Tolerance for the variation in length	Limit deviation of length	Tolerance for the variation in length
over 0.5 to 10	±0.12µm	0.10µm	±0.20µm	0.16µm	±0.45µm	0.30µm
over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

Grade and application

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



4111-2



### WEAR BLOCK SETS

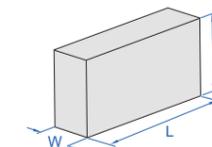


- Protect the measuring surfaces of gauge blocks from excessive wear
- Meet ISO3650
- Supplied with manufacturer inspection certificate

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



4105-87



Dimension:

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

### CERAMIC GAUGE BLOCK SETS

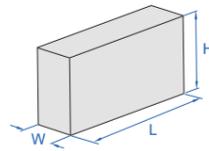


- Made of ceramic, extremely wear resistance and corrosion resistance, excellent dimension stability
- Meet ISO3650
- Supplied with manufacturer inspection certificate

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



4106-A80

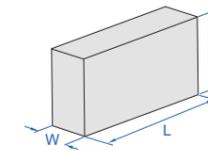


Dimension:

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



4103-A80



Dimension:

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

### CERAMIC INDIVIDUAL GAUGE BLOCKS



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

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

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		

### CERAMIC INDIVIDUAL GAUGE BLOCKS



CUSTOM-MADE: CAN SUPPLY ANY SIZES FROM 0.5 TO 1000MM, SUCH AS 70.672MM



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

Code explanation: 4103-X□□□□□

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

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		

POPULAR MODEL



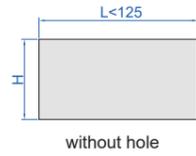
4100-87



with holes

Dimension:

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



without hole

STEEL GAUGE BLOCK SETS



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

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

Blocks per set	Gauge blocks included in set			Code (4100)			Blocks per set	Gauge blocks included in set			Code (4100)		
	Size (mm)	Step (mm)	Quantity	Grade 0	Grade 1	Grade 2		Size (mm)	Step (mm)	Quantity	Grade 0	Grade 1	Grade 2
122	1.0005	0.001	1	-122	-1122	-2122	56	0.5	0.001	1	-56	-156	-256
	1.001-1.009	0.01	9					1.001-1.009	0.01	9			
	1.01-1.49	0.1	49					1.01-1.09	0.1	9			
	1.6-1.9	0.5	4					1.1-1.9	1	9			
	0.5-24.5	10	49					1-24	25	24			
	30-100	50	8					25-100	25	4			
25-75	2	2											
112	1.0005	0.001	1	-112	-1112	-2112	47	1.0005	0.01	1	-47A	-147A	-247A
	1.001-1.009	0.01	9					1.01-1.49	0.1	9			
	1.01-1.49	0.5	49					1-24	25	24			
	0.5-24.5	25	49					25-100	4	4			
25-100	4	4											
103	1.0005	0.01	1	-103	-1103	-2103	47	1.0005	0.01	19	-47	-147	-247
	1.01-1.49	0.5	49					1.01-1.19	0.1	8			
	0.5-24.5	25	49					1.2-1.9	1	9			
	25-100	4	4					1-9	10	9			
88	1.0005	0.001	1	-88	-188	-288	46	1.0005	0.001	9	-46	-146	-246
	1.001-1.009	0.01	9					1.01-1.09	0.01	9			
	1.01-1.49	0.5	49					1.1-1.9	0.1	9			
	0.5-9.5	10	19					1-9	1	9			
10-100	10	10											
87	1.001-1.009	0.001	9	-87	-187	-287	34	1.0005	0.001	1	-34	-134	-234
	1.01-1.49	0.01	49					1.001-1.009	0.001	9			
	0.5-9.5	0.5	19					1.01-1.09	0.01	9			
	10-100	10	10					1.01-1.09	0.1	9			
83	0.5	0.01	1	-83	-183	-283	32	1.005	0.01	1	-32	-132	-232
	1	0.1	1					1.01-1.09	0.01	9			
	1.005	0.5	49					1.1-1.9	0.1	9			
	1.01-1.49	10	5					1-9	1	9			
	1.5-1.9	16	16					10-30	10	3			
	2-9.5	10	10					50	1	1			
10-100	10	10											
76	1.0005	0.01	1	-76	-176	-276	9	1.001-1.009	0.001	9	-9	-19	-29
	1.01-1.49	0.5	49					0.991-0.999	0.001	9			
	0.5-9.5	10	19					125-175	25	3			
	10-40	4	4					200-250	50	2			
50-100	25	3											
							8	300-500	100	3	-8	-18	-28



4101-A70



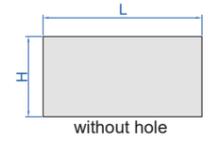
4101-A200



with holes

Dimension:

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



without hole

STEEL INDIVIDUAL GAUGE BLOCKS

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



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

Code explanation: 4101-X□□□□□

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

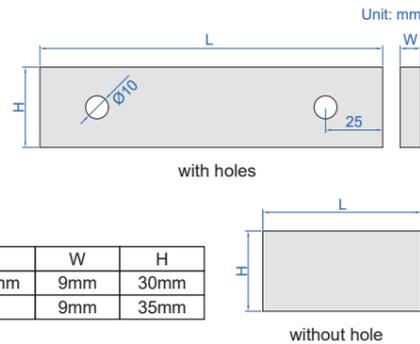
Code examples:

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

Size	Code	Size	Code	Size	Code	Size	Code
0.5mm	4101-XD5	1.06mm	4101-X1D06	1.32mm	4101-X1D32	3.5mm	4101-X3D5
0.991mm	4101-XD991	1.07mm	4101-X1D07	1.33mm	4101-X1D33	4mm	4101-X4
0.992mm	4101-XD992	1.08mm	4101-X1D08	1.34mm	4101-X1D34	4.5mm	4101-X4D5
0.993mm	4101-XD993	1.09mm	4101-X1D09	1.35mm	4101-X1D35	5mm	4101-X5
0.994mm	4101-XD994	1.1mm	4101-X1D1	1.36mm	4101-X1D36	5.1mm	4101-X5D1
0.995mm	4101-XD995	1.11mm	4101-X1D11	1.37mm	4101-X1D37	5.5mm	4101-X5D5
0.996mm	4101-XD996	1.12mm	4101-X1D12	1.38mm	4101-X1D38	6mm	4101-X6
0.997mm	4101-XD997	1.13mm	4101-X1D13	1.39mm	4101-X1D39	6.5mm	4101-X6D5
0.998mm	4101-XD998	1.14mm	4101-X1D14	1.4mm	4101-X1D4	7mm	4101-X7
0.999mm	4101-XD999	1.15mm	4101-X1D15	1.41mm	4101-X1D41	7.5mm	4101-X7D5
1mm	4101-X1	1.16mm	4101-X1D16	1.42mm	4101-X1D42	7.7mm	4101-X7D7
1.0005mm	4101-X1D0005	1.17mm	4101-X1D17	1.43mm	4101-X1D43	8mm	4101-X8
1.001mm	4101-X1D001	1.18mm	4101-X1D18	1.44mm	4101-X1D44	8.5mm	4101-X8D5
1.002mm	4101-X1D002	1.19mm	4101-X1D19	1.45mm	4101-X1D45	9mm	4101-X9
1.003mm	4101-X1D003	1.2mm	4101-X1D2	1.46mm	4101-X1D46	9.5mm	4101-X9D5
1.004mm	4101-X1D004	1.21mm	4101-X1D21	1.47mm	4101-X1D47	10mm	4101-X10
1.005mm	4101-X1D005	1.22mm	4101-X1D22	1.48mm	4101-X1D48	10.3mm	4101-X10D3
1.006mm	4101-X1D006	1.23mm	4101-X1D23	1.49mm	4101-X1D49	10.5mm	4101-X10D5
1.007mm	4101-X1D007	1.24mm	4101-X1D24	1.5mm	4101-X1D5	11mm	4101-X11
1.008mm	4101-X1D008	1.25mm	4101-X1D25	1.6mm	4101-X1D6	11.5mm	4101-X11D5
1.009mm	4101-X1D009	1.26mm	4101-X1D26	1.7mm	4101-X1D7	12mm	4101-X12
1.01mm	4101-X1D01	1.27mm	4101-X1D27	1.8mm	4101-X1D8	12.5mm	4101-X12D5
1.02mm	4101-X1D02	1.28mm	4101-X1D28	1.9mm	4101-X1D9	12.9mm	4101-X12D9
1.03mm	4101-X1D03	1.29mm	4101-X1D29	2mm	4101-X2	13mm	4101-X13
1.04mm	4101-X1D04	1.3mm	4101-X1D3	2.5mm	4101-X2D5	13.5mm	4101-X13D5
1.05mm	4101-X1D05	1.31mm	4101-X1D31	3mm	4101-X3	14mm	4101-X14

Continued from previous page

Size	Code	Size	Code	Size	Code	Size	Code
14.5mm	4101-X14D5	20.2mm	4101-X20D2	35mm	4101-X35	150mm	4101-X150
15mm	4101-X15	20.5mm	4101-X20D5	40mm	4101-X40	175mm	4101-X175
15.5mm	4101-X15D5	21mm	4101-X21	41.3mm	4101-X41D3	200mm	4101-X200
16mm	4101-X16	21.5mm	4101-X21D5	45mm	4101-X45	250mm	4101-X250
16.5mm	4101-X16D5	22mm	4101-X22	50mm	4101-X50	300mm	4101-X300
17mm	4101-X17	22.5mm	4101-X22D5	60mm	4101-X60	400mm	4101-X400
17.5mm	4101-X17D5	22.8mm	4101-X22D8	70mm	4101-X70	500mm	4101-X500
17.6mm	4101-X17D6	23mm	4101-X23	75mm	4101-X75	600mm	4101-X600
18mm	4101-X18	23.5mm	4101-X23D5	80mm	4101-X80	700mm	4101-X700
18.5mm	4101-X18D5	24mm	4101-X24	90mm	4101-X90	750mm	4101-X750
19mm	4101-X19	24.5mm	4101-X24D5	100mm	4101-X100	800mm	4101-X800
19.5mm	4101-X19D5	25mm	4101-X25	125mm	4101-X125	900mm	4101-X900
20mm	4101-X20	30mm	4101-X30	131.4mm	4101-X131D4	1000mm	4101-X1000



Dimension:

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

**STEEL INDIVIDUAL GAUGE BLOCKS**  
INSIZE PLUS

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



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

To be continued

Continued from previous page

Code explanation: 4104-X□□□□□

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

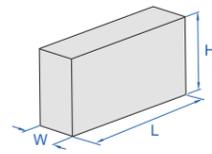
Code examples:

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

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



4164-32



Dimension:

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

**CARBIDE GAUGE BLOCK SETS**



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

Blocks per set	Gauge blocks included in set			Code		Blocks per set	Gauge blocks included in set			Code	
	Size (mm)	Step (mm)	Quantity	Grade 0	Grade 1		Size (mm)	Step (mm)	Quantity	Grade 0	Grade 1
122	1.0005		1	4164-122	4164-1122	76	1.005		1	4164-76	4164-176
	1.001-1.009	0.001	9				1.01-1.49	0.01	49		
	1.01-1.49	0.01	49				0.5-9.5	0.5	19		
	1.6-1.9	0.1	4				10-40	10	4		
	0.5-24.5	0.5	49				50-100	25	3		
	30-100	10	8				1.005		1		
112	25-75	50	2	4164-112	4164-1112	47	1.01-1.09	0.01	9	4164-47A	4164-147A
	1.0005		1				1.1-1.9	0.1	9		
	1.001-1.009	0.001	9				1-24	1	24		
	1.01-1.49	0.01	49				25-100	25	4		
	0.5-24.5	0.5	49				1.005		1		
	25-100	25	4				1.01-1.19	0.01	19		
103	1.005		1	4164-103	4164-1103	47	1.2-1.9	0.1	8	4164-47	4164-147
	1.01-1.49	0.01	49				1-9	1	9		
	0.5-24.5	0.5	49				10-100	10	10		
	25-100	25	4				1.001-1.009	0.001	9		
	1.005		1				1.01-1.09	0.01	9		
	1.01-1.49	0.01	49				1.1-1.9	0.1	9		
87	0.5-9.5	0.5	19	4164-87	4164-187	46	1-9	1	9	4164-46	4164-146
	10-100	10	10				10-100	10	10		
	1.001-1.009	0.001	9				1.005		1		
	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		
83	0.5		1	4164-83	4164-183	32	10-100	10	10	4164-32	4164-132
	1		1				1.005		1		
	1.005		1				1.01-1.09	0.01	9		
	1.01-1.49	0.01	49				1.1-1.9	0.1	9		
	1.5-1.9	0.1	5				1-9	1	9		
	2-9.5	0.5	16				10-30	10	3		
	10-100	10	10				50		1		



4201-A70



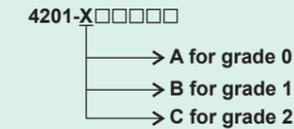
**INDIVIDUAL CARBIDE GAUGE BLOCKS**

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



- Grade 0, 1 and 2 gauge blocks are available
- Made of carbide, extremely wear resistance and corrosion resistance, excellent dimension stability
- Meet ISO3650
- Supplied with manufacturer inspection certificate

Code explanation:



Code examples:

Size (L)	Grade	Code
0.5mm	0	4201-AD5
1mm	1	4201-B1
10.5mm	2	4201-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	4201-XD5	1.2mm	4201-X1D2	1.6mm	4201-X1D6	15.5mm	4201-X15D5
1mm	4201-X1	1.21mm	4201-X1D21	1.7mm	4201-X1D7	16mm	4201-X16
1.0005mm	4201-X1D0005	1.22mm	4201-X1D22	1.8mm	4201-X1D8	16.5mm	4201-X16D5
1.001mm	4201-X1D001	1.23mm	4201-X1D23	1.9mm	4201-X1D9	17mm	4201-X17
1.002mm	4201-X1D002	1.24mm	4201-X1D24	2mm	4201-X2	17.5mm	4201-X17D5
1.003mm	4201-X1D003	1.25mm	4201-X1D25	2.5mm	4201-X2D5	18mm	4201-X18
1.004mm	4201-X1D004	1.26mm	4201-X1D26	3mm	4201-X3	18.5mm	4201-X18D5
1.005mm	4201-X1D005	1.27mm	4201-X1D27	3.5mm	4201-X3D5	19mm	4201-X19
1.006mm	4201-X1D006	1.28mm	4201-X1D28	4mm	4201-X4	19.5mm	4201-X19D5
1.007mm	4201-X1D007	1.29mm	4201-X1D29	4.5mm	4201-X4D5	20mm	4201-X20
1.008mm	4201-X1D008	1.3mm	4201-X1D3	5mm	4201-X5	20.5mm	4201-X20D5
1.009mm	4201-X1D009	1.31mm	4201-X1D31	5.5mm	4201-X5D5	21mm	4201-X21
1.01mm	4201-X1D01	1.32mm	4201-X1D32	6mm	4201-X6	21.5mm	4201-X21D5
1.02mm	4201-X1D02	1.33mm	4201-X1D33	6.5mm	4201-X6D5	22mm	4201-X22
1.03mm	4201-X1D03	1.34mm	4201-X1D34	7mm	4201-X7	22.5mm	4201-X22D5
1.04mm	4201-X1D04	1.35mm	4201-X1D35	7.5mm	4201-X7D5	23mm	4201-X23
1.05mm	4201-X1D05	1.36mm	4201-X1D36	8mm	4201-X8	23.5mm	4201-X23D5
1.06mm	4201-X1D06	1.37mm	4201-X1D37	8.5mm	4201-X8D5	24mm	4201-X24
1.07mm	4201-X1D07	1.38mm	4201-X1D38	9mm	4201-X9	24.5mm	4201-X24D5
1.08mm	4201-X1D08	1.39mm	4201-X1D39	9.5mm	4201-X9D5	25mm	4201-X25
1.09mm	4201-X1D09	1.4mm	4201-X1D4	10mm	4201-X10	30mm	4201-X30
1.1mm	4201-X1D1	1.41mm	4201-X1D41	10.5mm	4201-X10D5	40mm	4201-X40
1.11mm	4201-X1D11	1.42mm	4201-X1D42	11mm	4201-X11	50mm	4201-X50
1.12mm	4201-X1D12	1.43mm	4201-X1D43	11.5mm	4201-X11D5	60mm	4201-X60
1.13mm	4201-X1D13	1.44mm	4201-X1D44	12mm	4201-X12	70mm	4201-X70
1.14mm	4201-X1D14	1.45mm	4201-X1D45	12.5mm	4201-X12D5	75mm	4201-X75
1.15mm	4201-X1D15	1.46mm	4201-X1D46	13mm	4201-X13	80mm	4201-X80
1.16mm	4201-X1D16	1.47mm	4201-X1D47	13.5mm	4201-X13D5	90mm	4201-X90
1.17mm	4201-X1D17	1.48mm	4201-X1D48	14mm	4201-X14	100mm	4201-X100
1.18mm	4201-X1D18	1.49mm	4201-X1D49	14.5mm	4201-X14D5		
1.19mm	4201-X1D19	1.5mm	4201-X1D5	15mm	4201-X15		

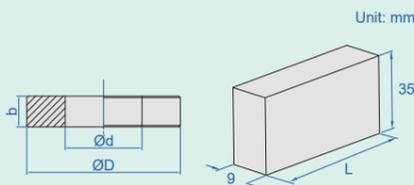


4176-30

**CALIPER INSPECTION GAUGE BLOCK AND RING GAUGE SETS**



- Gauge blocks meet ISO3650, ring gauges meet DIN2250-1:2008
- Supplied with manufacturer inspection certificate



Unit: mm

Ring gauge sizes:

diameter (Ød) *	b	ØD
Ø5mm	5mm	22mm
Ø10mm	8mm	32mm
Ø25mm	14mm	53mm

\* The size of the ring gauge actually supplied may have deviation. For example, the size Ø25mm may be 24.996mm

**Grade of gauge blocks: 2**

(mm)

Code	Material	Gauge blocks included in set (L)	Ring gauges included in set (Ød)	Applicable calipers	Calibration/standard application
4176-30	alloy steel	30, 41.3, 131.4	10, 25	0-150	DIN862:1988
4176-40	alloy steel	30, 41.3, 131.4	5, 25	0-150	EN ISO13385-1:2011

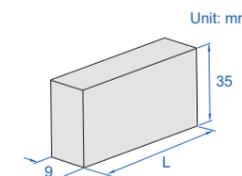
**Grade of gauge blocks: 1**

(mm)

Code	Material	Gauge blocks included in set (L)	Ring gauges included in set (Ød)	Applicable calipers	Calibration/standard application
4176-301	alloy steel	30, 41.3, 131.4	10, 25	0-150	DIN862:1988
4176-401	alloy steel	30, 41.3, 131.4	5, 25	0-150	EN ISO13385-1:2011



4108-3005



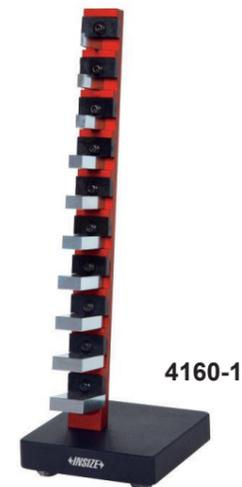
**CALIPER INSPECTION GAUGE BLOCK SET**



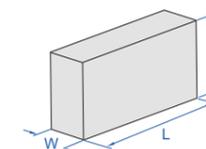
- Meet ISO3650/grade 2
- Supplied with manufacturer inspection certificate

Code	Material	Gauge 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

(mm)



4160-10



Dimension:

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

**MICROMETER INSPECTION GAUGE BLOCK SET**



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

optical flat (included)



Code	Material	Gauge 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

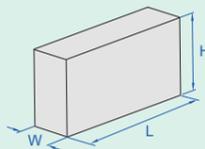


4107-10

**MICROMETER INSPECTION GAUGE BLOCK SETS**



- One piece of optical flat is included in 4107-10 and 4107-101
- Meet ISO3650/grade 1
- Supplied with manufacturer inspection certificate



Dimension:

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

Code	Material	Gauge b (mm)locks included in set	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



**CYLINDER GAUGE 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

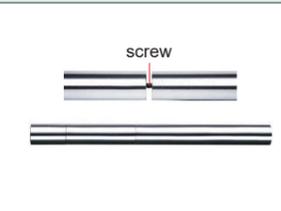


Code	Length (L)
4001-25*	25mm
4001-50*	50mm
4001-75*	75mm
4001-100*	100mm
4001-200*	200mm
4001-300*	300mm
4001-400*	400mm
4001-500*	500mm

high stability in vertical position, suitable for checking height gauges



connected with M6x1mm screw

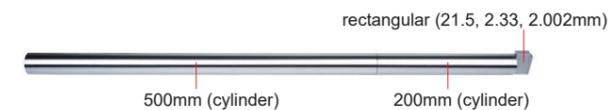


\*Supplied with manufacturer inspection certificate

Combination 1: combined by several standard size cylinder gauge blocks and one custom size cylinder gauge 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 gauge blocks and rectangular gauge blocks  
 For example: 500 (cylinder) + 200 (cylinder) + 21.5 (rectangular) + 2.33 (rectangular) + 2.002 (rectangular)=725.832mm



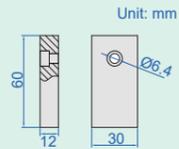
can be combined to any sizes up to 4m

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**INTERNAL BLOCKS**



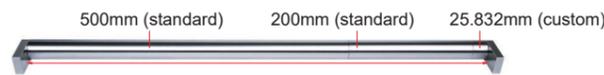
4001-A



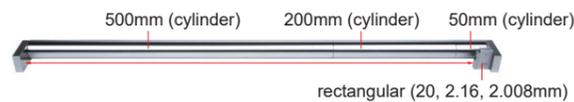
Code	Size	Flatness
4001-A	12mm	0.2μm

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

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



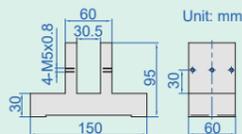
Combination 2: combined by standard size cylinder gauge blocks and rectangular gauge blocks  
 For example: 500 (cylinder) + 200 (cylinder) + 50 (rectangular) - 20 (rectangular) - 2.16 (rectangular) - 2.008 (rectangular)=725.832mm



**BASE**

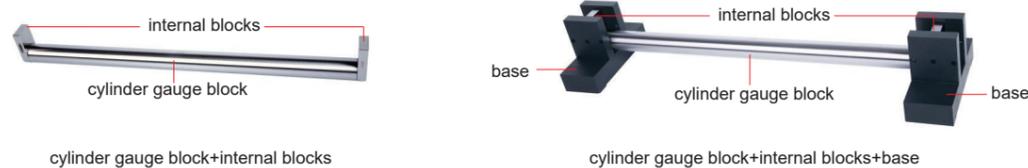


4001-B



Code	Remark
4001-B	supplied in pair

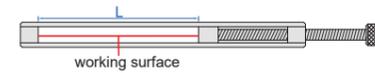
working with base



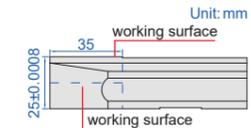
**GAUGE BLOCK ACCESSORIES**



6881-A3



6881-B



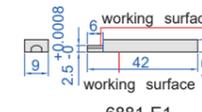
Code	Name	Clamping range* (L)
6881-A1	holder	3.5-29mm
6881-A2	holder	29-50mm
6881-A3	holder	50-100mm
6881-A4	holder	100-200mm
6881-A5	holder	200-300mm
6881-A6**	holder	300-500mm
6881-A7**	holder	500-750mm
6881-A8**	holder	750-1000mm

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

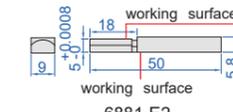
Code	Name
6881-B	base



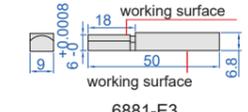
6881-E2



6881-E1



6881-E2

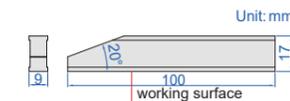


6881-E3

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



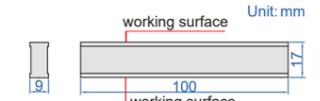
6881-C



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



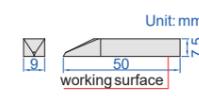
6881-D



Code	Name	Remark
6881-D	parallel jaw	made of carbide



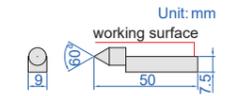
6881-F



Code	Name	Remark
6881-F	scriber	made of carbide



6881-G



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

To be continued

Continued from previous page



6881-S17

**GAUGE BLOCK ACCESSORY SET**

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

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

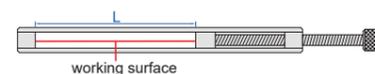
application

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

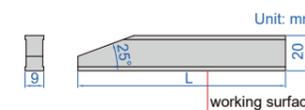
**GAUGE BLOCK ACCESSORIES (BASIC TYPE)**



6981-A3



6981-C1



Code	Name	Clamping range * (L)
6981-A1	holder	0-25mm
6981-A2	holder	25-50mm
6981-A3	holder	50-100mm
6981-A4	holder	100-200mm
6981-A5	holder	200-300mm

\*The actual clamping range should deduct the width of jaws

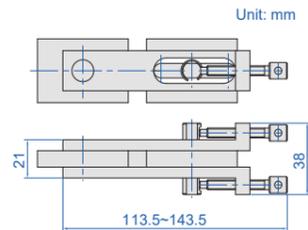
Code	Name	Size	Remark
6981-C1	plain jaw	100mm	made of steel, supplied in pair
6981-C2	plain jaw	150mm	made of steel, supplied in pair

application

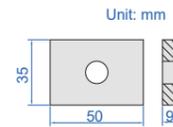




6886-1



6886-A



### GAUGE BLOCK HOLDER

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

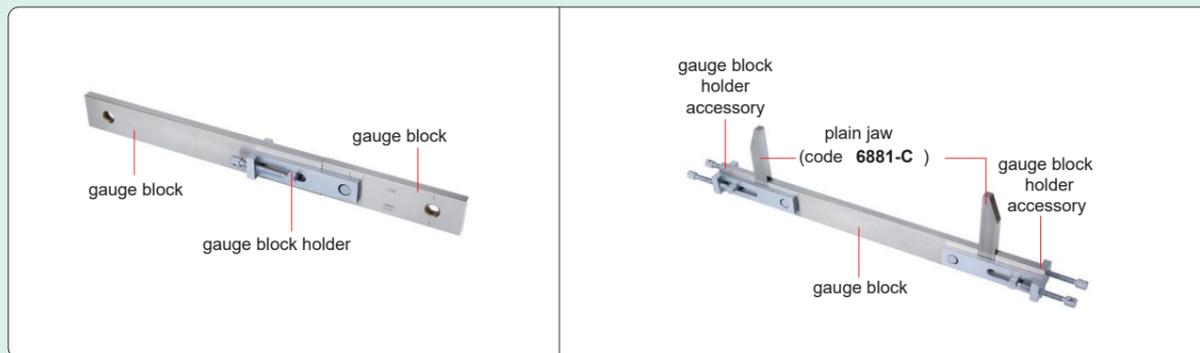


Code  
6886-1

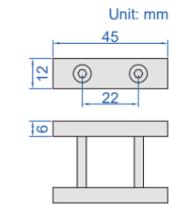
### GAUGE BLOCK HOLDER ACCESSORY

Code  
6886-A

application



6883-4

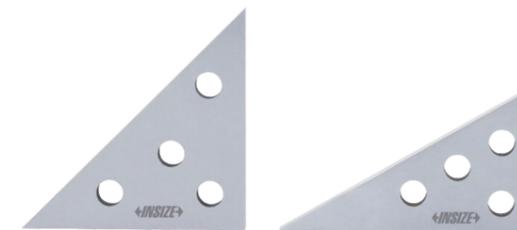


### GAUGE BLOCK HOLDERS

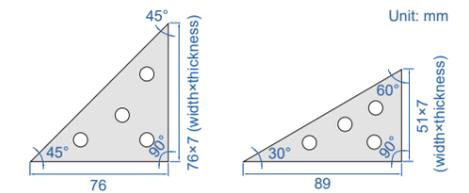
- Made of aluminum
- To be used with individual steel gauge blocks (code 4101) as Go and No-Go gauge

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

to be used as Go and No-Go gauge



6540-1



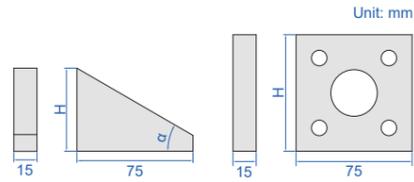
### ANGLE BLOCK SET

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

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



4002-15



**ANGLE GAUGE BLOCKS**



- Accuracy:  $\pm 2''$
- To inspect protractor, taper gauge, 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**

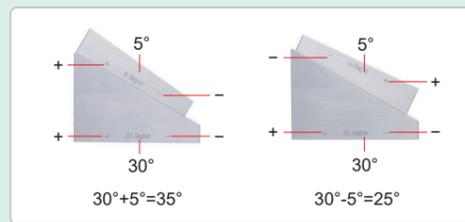
Code	Angle ( $\alpha$ )	H (mm)
4002-A1 *	1°	11.5
4002-A3 *	3°	14.0
4002-A5 *	5°	16.5
4002-A9 *	9°	22.0
4002-A15 *	15°	30.5
4002-A27 *	27°	48.0
4002-A30 *	30°	53.5
4002-A41 *	41°	75.0
4002-A45 *	45°	84.0
4002-B1 *	1'	10.0
4002-B3 *	3'	10.0
4002-B5 *	5'	10.0
4002-B9 *	9'	10.0
4002-B20 *	20'	10.0
4002-B27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

**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

combination



set angle of plate



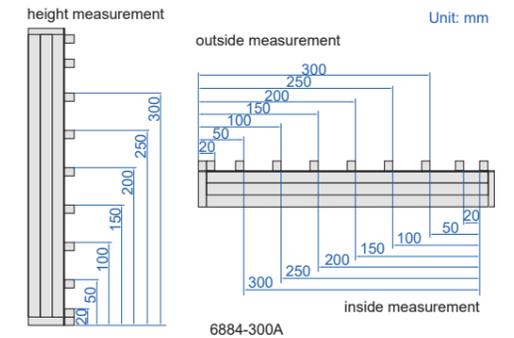
inspect angle



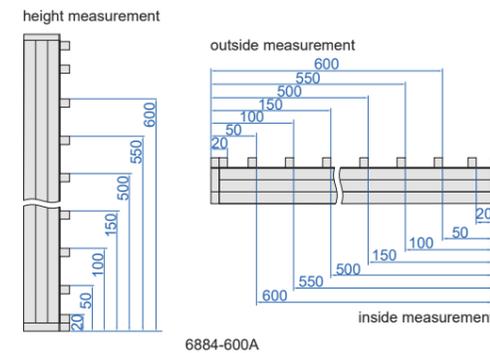
horizontal use

vertical use

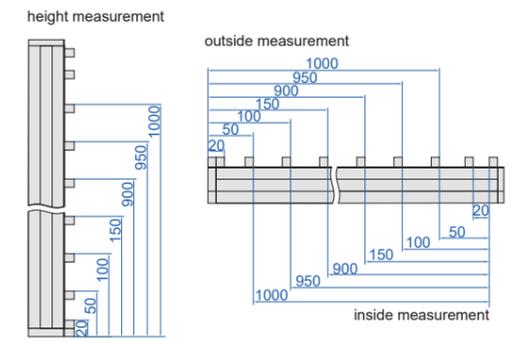
6884-300A



6884-300A



6884-600A



6884-1000A

**CALIPER/HEIGHT GAUGE CHECKERS**



- To check calipers and height gauges
- Constructed with ceramic gauge blocks

Code	Size	Range of inside measurement	Range of outside measurement	Range of height measurement	Accuracy (mm)
6884-300A*	0-300mm	20, 50, 100, 150, 200, 250, 300	20, 50, 100, 150, 200, 250, 300	20, 50, 100, 150, 200, 250, 300	$\pm 2\mu\text{m}$
6884-600A*	0-600mm	20, 50, 100, 150, 200, 250, 300, 350, 400, 450, 500, 550, 600	20, 50, 100, 150, 200, 250, 300, 350, 400, 450, 500, 550, 600	20, 50, 100, 150, 200, 250, 300, 350, 400, 450, 500, 550, 600	$\pm 3.5\mu\text{m}$
6884-1000A*	0-1000mm	20, 50, 100, 150, 200, 250, 300, 350, 400, 450, 500, 550, 600, 650, 700, 750, 800, 850, 900, 950, 1000	20, 50, 100, 150, 200, 250, 300, 350, 400, 450, 500, 550, 600, 650, 700, 750, 800, 850, 900, 950, 1000	20, 50, 100, 150, 200, 250, 300, 350, 400, 450, 500, 550, 600, 650, 700, 750, 800, 850, 900, 950, 1000	$\pm 5\mu\text{m}$

\*Supplied with manufacturer inspection certificate

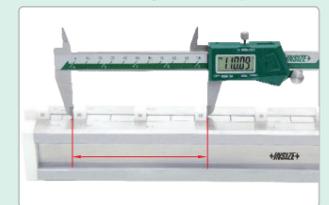
check height gauges



check upper jaws of calipers



check lower jaws of calipers



## PIN GAUGES

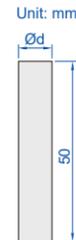
PIN gauges are made of high-hardness and wear-resistant materials, with precise dimensions and smooth surfaces, as well as excellent deformation resistance and durability. They are widely applied in scenarios like hole diameter inspection, slot width measurement, and mold gap calibration, allowing for easy judgment on whether dimensions meet standards. They are efficient measuring tools in the fields of mechanical processing, electronic manufacturing, and quality inspection.



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4194-10D



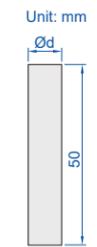
### CARBIDE PIN GAUGE SETS

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

Code	Diameter Ød (mm)	Step	Pin gauges 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



4169-3



### CERAMIC PIN GAUGE SETS

- Meet DIN2269, grade 1
- Made of ceramic, extremely wear resistance, corrosion resistance and dimensional stability
- Diameter accuracy:  $\pm 1\mu\text{m}$

Code	Diameter Ød (mm)	Step	Pin gauges per set
4169-2S	1.00, 1.01, 1.02, ... 2.00	0.01mm	101
4169-3S	2.00, 2.01, 2.02, ... 3.00	0.01mm	101
4169-4S	3.00, 3.01, 3.02, ... 4.00	0.01mm	101
4169-5S	4.00, 4.01, 4.02, ... 5.00	0.01mm	101
4169-6S	5.00, 5.01, 5.02, ... 6.00	0.01mm	101
4169-7S	6.00, 6.01, 6.02, ... 7.00	0.01mm	101
4169-8S	7.00, 7.01, 7.02, ... 8.00	0.01mm	101
4169-9S	8.00, 8.01, 8.02, ... 9.00	0.01mm	101
4169-10S	9.00, 9.01, 9.02, ... 10.00	0.01mm	101

Code	Diameter Ød (mm)	Step	Pin gauges per set
4169-411	1.0, 1.1, 1.2, ... 5.0	0.1mm	41
4169-511	5.0, 5.1, 5.2, ... 10.0	0.1mm	51
4169-512	10.0, 10.1, 10.2, ... 15.0	0.1mm	51
4169-513	15.0, 15.1, 15.2, ... 20.0	0.1mm	51

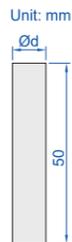
Code	Diameter Ød (mm)	Step	Pin gauges per set
4169-0D	0.30, 0.31, 0.32, ... 0.50	0.01mm	21
4169-1	0.50, 0.51, 0.52, ... 1.00	0.01mm	51
4169-1D	1.00, 1.01, 1.02, ... 1.50	0.01mm	51
4169-2	1.50, 1.51, 1.52, ... 2.00	0.01mm	51
4169-2D	2.00, 2.01, 2.02, ... 2.50	0.01mm	51
4169-3	2.50, 2.51, 2.52, ... 3.00	0.01mm	51
4169-3D	3.00, 3.01, 3.02, ... 3.50	0.01mm	51
4169-4	3.50, 3.51, 3.52, ... 4.00	0.01mm	51
4169-4D	4.00, 4.01, 4.02, ... 4.50	0.01mm	51
4169-5	4.50, 4.51, 4.52, ... 5.00	0.01mm	51
4169-5D	5.00, 5.01, 5.02, ... 5.50	0.01mm	51
4169-6	5.50, 5.51, 5.52, ... 6.00	0.01mm	51
4169-6D	6.00, 6.01, 6.02, ... 6.50	0.01mm	51
4169-7	6.50, 6.51, 6.52, ... 7.00	0.01mm	51
4169-7D	7.00, 7.01, 7.02, ... 7.50	0.01mm	51
4169-8	7.50, 7.51, 7.52, ... 8.00	0.01mm	51
4169-8D	8.00, 8.01, 8.02, ... 8.50	0.01mm	51
4169-9	8.50, 8.51, 8.52, ... 9.00	0.01mm	51
4169-9D	9.00, 9.01, 9.02, ... 9.50	0.01mm	51
4169-10	9.50, 9.51, 9.52, ... 10.00	0.01mm	51

Code	Diameter Ød (mm)	Step	Pin gauges per set
4169-10D	10.00, 10.01, 10.02, ... 10.50	0.01mm	51
4169-11	10.50, 10.51, 10.52, ... 11.00	0.01mm	51
4169-11D	11.00, 11.01, 11.02, ... 11.50	0.01mm	51
4169-12	11.50, 11.51, 11.52, ... 12.00	0.01mm	51
4169-12D	12.00, 12.01, 12.02, ... 12.50	0.01mm	51
4169-13	12.50, 12.51, 12.52, ... 13.00	0.01mm	51
4169-13D	13.00, 13.01, 13.02, ... 13.50	0.01mm	51
4169-14	13.50, 13.51, 13.52, ... 14.00	0.01mm	51
4169-14D	14.00, 14.01, 14.02, ... 14.50	0.01mm	51
4169-15	14.50, 14.51, 14.52, ... 15.00	0.01mm	51
4169-15D	15.00, 15.01, 15.02, ... 15.50	0.01mm	51
4169-16	15.50, 15.51, 15.52, ... 16.00	0.01mm	51
4169-16D	16.00, 16.01, 16.02, ... 16.50	0.01mm	51
4169-17	16.50, 16.51, 16.52, ... 17.00	0.01mm	51
4169-17D	17.00, 17.01, 17.02, ... 17.50	0.01mm	51
4169-18	17.50, 17.51, 17.52, ... 18.00	0.01mm	51
4169-18D	18.00, 18.01, 18.02, ... 18.50	0.01mm	51
4169-19	18.50, 18.51, 18.52, ... 19.00	0.01mm	51
4169-19D	19.00, 19.01, 19.02, ... 19.50	0.01mm	51
4169-20	19.50, 19.51, 19.52, ... 20.00	0.01mm	51

POPULAR MODEL



4166-10



4267-10



### STEEL PIN GAUGE SETS

- Meet DIN2269, grade 1
- Made of alloy steel

- Hardness HRC62-65
- Diameter accuracy: ±1µm

Code	Diameter Ød (mm)	Step	Pin gauges 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 gauges 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 gauges 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 gauges 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 PIN GAUGE SETS (HIGH ACCURACY)

- Meet DIN2269, grade 0
- Made of alloy steel

- Hardness HRC62-65
- Diameter accuracy: ±0.5µm

Code	Diameter Ød (mm)	Step	Pin gauges per set
4267-2S	1.00, 1.01, 1.02, ... 2.00	0.01mm	101
4267-3S	2.00, 2.01, 2.02, ... 3.00	0.01mm	101
4267-4S	3.00, 3.01, 3.02, ... 4.00	0.01mm	101
4267-5S	4.00, 4.01, 4.02, ... 5.00	0.01mm	101
4267-6S	5.00, 5.01, 5.02, ... 6.00	0.01mm	101
4267-7S	6.00, 6.01, 6.02, ... 7.00	0.01mm	101
4267-8S	7.00, 7.01, 7.02, ... 8.00	0.01mm	101
4267-9S	8.00, 8.01, 8.02, ... 9.00	0.01mm	101
4267-10S	9.00, 9.01, 9.02, ... 10.00	0.01mm	101

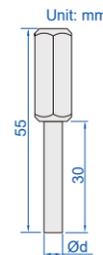
Code	Diameter Ød (mm)	Step	Pin gauges per set
4267-411	1.0, 1.1, 1.2, ... 5.0	0.1mm	41
4267-511	5.0, 5.1, 5.2, ... 10.0	0.1mm	51
4267-512	10.0, 10.1, 10.2, ... 15.0	0.1mm	51
4267-513	15.0, 15.1, 15.2, ... 20.0	0.1mm	51

Code	Diameter Ød (mm)	Step	Pin gauges per set
4267-0D	0.20, 0.21, 0.22, ... 0.50	0.01mm	31
4267-1	0.50, 0.51, 0.52, ... 1.00	0.01mm	51
4267-1D	1.00, 1.01, 1.02, ... 1.50	0.01mm	51
4267-2	1.50, 1.51, 1.52, ... 2.00	0.01mm	51
4267-2D	2.00, 2.01, 2.02, ... 2.50	0.01mm	51
4267-3	2.50, 2.51, 2.52, ... 3.00	0.01mm	51
4267-3D	3.00, 3.01, 3.02, ... 3.50	0.01mm	51
4267-4	3.50, 3.51, 3.52, ... 4.00	0.01mm	51
4267-4D	4.00, 4.01, 4.02, ... 4.50	0.01mm	51
4267-5	4.50, 4.51, 4.52, ... 5.00	0.01mm	51
4267-5D	5.00, 5.01, 5.02, ... 5.50	0.01mm	51
4267-6	5.50, 5.51, 5.52, ... 6.00	0.01mm	51
4267-6D	6.00, 6.01, 6.02, ... 6.50	0.01mm	51
4267-7	6.50, 6.51, 6.52, ... 7.00	0.01mm	51
4267-7D	7.00, 7.01, 7.02, ... 7.50	0.01mm	51
4267-8	7.50, 7.51, 7.52, ... 8.00	0.01mm	51
4267-8D	8.00, 8.01, 8.02, ... 8.50	0.01mm	51
4267-9	8.50, 8.51, 8.52, ... 9.00	0.01mm	51
4267-9D	9.00, 9.01, 9.02, ... 9.50	0.01mm	51
4267-10	9.50, 9.51, 9.52, ... 10.00	0.01mm	51

Code	Diameter Ød (mm)	Step	Pin gauges per set
4267-10D	10.00, 10.01, 10.02, ... 10.50	0.01mm	51
4267-11	10.50, 10.51, 10.52, ... 11.00	0.01mm	51
4267-11D	11.00, 11.01, 11.02, ... 11.50	0.01mm	51
4267-12	11.50, 11.51, 11.52, ... 12.00	0.01mm	51
4267-12D	12.00, 12.01, 12.02, ... 12.50	0.01mm	51
4267-13	12.50, 12.51, 12.52, ... 13.00	0.01mm	51
4267-13D	13.00, 13.01, 13.02, ... 13.50	0.01mm	51
4267-14	13.50, 13.51, 13.52, ... 14.00	0.01mm	51
4267-14D	14.00, 14.01, 14.02, ... 14.50	0.01mm	51
4267-15	14.50, 14.51, 14.52, ... 15.00	0.01mm	51
4267-15D	15.00, 15.01, 15.02, ... 15.50	0.01mm	51
4267-16	15.50, 15.51, 15.52, ... 16.00	0.01mm	51
4267-16D	16.00, 16.01, 16.02, ... 16.50	0.01mm	51
4267-17	16.50, 16.51, 16.52, ... 17.00	0.01mm	51
4267-17D	17.00, 17.01, 17.02, ... 17.50	0.01mm	51
4267-18	17.50, 17.51, 17.52, ... 18.00	0.01mm	51
4267-18D	18.00, 18.01, 18.02, ... 18.50	0.01mm	51
4267-19	18.50, 18.51, 18.52, ... 19.00	0.01mm	51
4267-19D	19.00, 19.01, 19.02, ... 19.50	0.01mm	51
4267-20	19.50, 19.51, 19.52, ... 20.00	0.01mm	51



4266-5



**PIN GAUGE SETS WITH HANDLE**

- Meet DIN2269, grade 1
- Made of alloy steel

- Hardness HRC62-65
- Diameter accuracy: ±1µm

Code	Diameter Ød (mm)	Step	Pin gauges per set
4266-411	1.0, 1.1, 1.2, ... 5.0	0.1mm	41
4266-511	5.0, 5.1, 5.2, ... 10.0	0.1mm	51
4266-512	10.0, 10.1, 10.2, ... 15.0	0.1mm	51
4266-513	15.0, 15.1, 15.2, ... 20.0	0.1mm	51

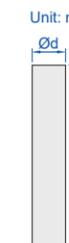
Code	Diameter Ød (mm)	Step	Pin gauges per set
4266-2S	1.00, 1.01, 1.02, ... 2.00	0.01mm	101
4266-3S	2.00, 2.01, 2.02, ... 3.00	0.01mm	101
4266-4S	3.00, 3.01, 3.02, ... 4.00	0.01mm	101
4266-5S	4.00, 4.01, 4.02, ... 5.00	0.01mm	101
4266-6S	5.00, 5.01, 5.02, ... 6.00	0.01mm	101
4266-7S	6.00, 6.01, 6.02, ... 7.00	0.01mm	101
4266-8S	7.00, 7.01, 7.02, ... 8.00	0.01mm	101
4266-9S	8.00, 8.01, 8.02, ... 9.00	0.01mm	101
4266-10S	9.00, 9.01, 9.02, ... 10.00	0.01mm	101

Code	Diameter Ød (mm)	Step	Pin gauges per set
4266-1D	1.00, 1.01, 1.02, ... 1.50	0.01mm	51
4266-2	1.50, 1.51, 1.52, ... 2.00	0.01mm	51
4266-2D	2.00, 2.01, 2.02, ... 2.50	0.01mm	51
4266-3	2.50, 2.51, 2.52, ... 3.00	0.01mm	51
4266-3D	3.00, 3.01, 3.02, ... 3.50	0.01mm	51
4266-4	3.50, 3.51, 3.52, ... 4.00	0.01mm	51
4266-4D	4.00, 4.01, 4.02, ... 4.50	0.01mm	51
4266-5	4.50, 4.51, 4.52, ... 5.00	0.01mm	51
4266-5D	5.00, 5.01, 5.02, ... 5.50	0.01mm	51
4266-6	5.50, 5.51, 5.52, ... 6.00	0.01mm	51
4266-6D	6.00, 6.01, 6.02, ... 6.50	0.01mm	51
4266-7	6.50, 6.51, 6.52, ... 7.00	0.01mm	51
4266-7D	7.00, 7.01, 7.02, ... 7.50	0.01mm	51
4266-8	7.50, 7.51, 7.52, ... 8.00	0.01mm	51
4266-8D	8.00, 8.01, 8.02, ... 8.50	0.01mm	51
4266-9	8.50, 8.51, 8.52, ... 9.00	0.01mm	51
4266-9D	9.00, 9.01, 9.02, ... 9.50	0.01mm	51
4266-10	9.50, 9.51, 9.52, ... 10.00	0.01mm	51
4266-10D	10.00, 10.01, 10.02, ... 10.50	0.01mm	51

Code	Diameter Ød (mm)	Step	Pin gauges per set
4266-11	10.50, 10.51, 10.52, ... 11.00	0.01mm	51
4266-11D	11.00, 11.01, 11.02, ... 11.50	0.01mm	51
4266-12	11.50, 11.51, 11.52, ... 12.00	0.01mm	51
4266-12D	12.00, 12.01, 12.02, ... 12.50	0.01mm	51
4266-13	12.50, 12.51, 12.52, ... 13.00	0.01mm	51
4266-13D	13.00, 13.01, 13.02, ... 13.50	0.01mm	51
4266-14	13.50, 13.51, 13.52, ... 14.00	0.01mm	51
4266-14D	14.00, 14.01, 14.02, ... 14.50	0.01mm	51
4266-15	14.50, 14.51, 14.52, ... 15.00	0.01mm	51
4266-15D	15.00, 15.01, 15.02, ... 15.50	0.01mm	51
4266-16	15.50, 15.51, 15.52, ... 16.00	0.01mm	51
4266-16D	16.00, 16.01, 16.02, ... 16.50	0.01mm	51
4266-17	16.50, 16.51, 16.52, ... 17.00	0.01mm	51
4266-17D	17.00, 17.01, 17.02, ... 17.50	0.01mm	51
4266-18	17.50, 17.51, 17.52, ... 18.00	0.01mm	51
4266-18D	18.00, 18.01, 18.02, ... 18.50	0.01mm	51
4266-19	18.50, 18.51, 18.52, ... 19.00	0.01mm	51
4266-19D	19.00, 19.01, 19.02, ... 19.50	0.01mm	51
4266-20	19.50, 19.51, 19.52, ... 20.00	0.01mm	51



4193-8D015



**CARBIDE INDIVIDUAL PIN GAUGES**



- Meet DIN2269, grade 1
- Diameter range: Ø0.300~Ø30.000mm with three decimal, for example 0.311mm, 5.562mm, 16.298mm
- Diameter accuracy: ±1µm
- Made of carbide
- Hardness HRA90-90.5

Code	Diameter range Ød (mm)
4193-□□□□*	0.300~30.000

\*Supplied with manufacturer inspection certificate

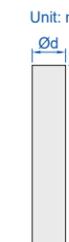
**Ordering examples:**

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

Note: "D" stands for "."



4113-10D00



**CERAMIC INDIVIDUAL PIN GAUGES WITH TWO DECIMAL PLACES (0.01MM STEP)**

- Meet DIN2269, grade 1
- Diameter range: Ø0.30~Ø20.00mm
- Diameter accuracy: ±1µm
- Made of ceramic, extremely wear resistance, corrosion resistance and dimensional stability

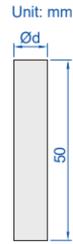
Diameter Ød (mm)	Diameter Ød (mm)
0.30, 0.31, 0.32, 0.33, ... 1.00	10.01, 10.02, 10.03, 10.04, ... 11.00
1.01, 1.02, 1.03, 1.04, ... 2.00	11.01, 11.02, 11.03, 11.04, ... 12.00
2.01, 2.02, 2.03, 2.04, ... 3.00	12.01, 12.02, 12.03, 12.04, ... 13.00
3.01, 3.02, 3.03, 3.04, ... 4.00	13.01, 13.02, 13.03, 13.04, ... 14.00
4.01, 4.02, 4.03, 4.04, ... 5.00	14.01, 14.02, 14.03, 14.04, ... 15.00
5.01, 5.02, 5.03, 5.04, ... 6.00	15.01, 15.02, 15.03, 15.04, ... 16.00
6.01, 6.02, 6.03, 6.04, ... 7.00	16.01, 16.02, 16.03, 16.04, ... 17.00
7.01, 7.02, 7.03, 7.04, ... 8.00	17.01, 17.02, 17.03, 17.04, ... 18.00
8.01, 8.02, 8.03, 8.04, ... 9.00	18.01, 18.02, 18.03, 18.04, ... 19.00
9.01, 9.02, 9.03, 9.04, ... 10.00	19.01, 19.02, 19.03, 19.04, ... 20.00

Code	Ordering examples:
4113-□□□□	Diameter Code
	1.21mm 4113-1D21
	5.56mm 4113-5D56
	15.00mm 4113-15D00

Note: "D" stands for "."



4192-10D000



**INDIVIDUAL CERAMIC PIN GAUGES WITH THREE DECIMAL PLACES (0.001MM STEP)**

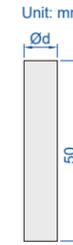
- Meet DIN2269, grade 1
- Diameter range: Ø0.300~Ø30.000mm
- With three decimal, for example 1.211mm, 5.562mm, 14.955mm
- Diameter accuracy: ±1µm
- Made of ceramic, extremely wear resistance, corrosion resistance and dimensional stability

Code	Diameter range Ød (mm)
4192-□□□□	0.300-30.000

**Ordering examples:**  
 Diameter Code  
 1.211mm 4192-1D211  
 5.562mm 4192-5D562  
 14.955mm 4192-14D955  
 Note: "D" stands for "."



4215-9D98



**HIGH ACCURACY STEEL PIN INDIVIDUAL GAUGES (0.01MM STEP)**

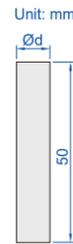
- Meet DIN2269, grade 0
- Diameter range: Ø0.20~Ø20.00mm
- Diameter accuracy: ±0.5µm
- Made of alloy steel
- Hardness HRC62-65

**Ordering examples:**  
 Diameter Code  
 0.21mm 4215-0D21  
 5.56mm 4215-5D56  
 16.00mm 4215-16D00  
 Note: "D" stands for "."

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



4110-9D98



**INDIVIDUAL STEEL PIN GAUGES WITH TWO DECIMAL PLACES (0.01MM STEP)**

- Meet DIN2269, grade 1
- Diameter range: Ø0.20~Ø20.00mm
- Diameter accuracy: ±1µm
- Made of alloy steel
- Hardness HRC62-65

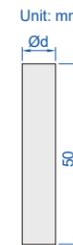
Diameter Ød (mm)	Diameter Ød (mm)
0.20, 0.21, 0.22, 0.23, … 1.00	10.01, 10.02, 10.03, 10.04, … 11.00
1.01, 1.02, 1.03, 1.04, … 2.00	11.01, 11.02, 11.03, 11.04, … 12.00
2.01, 2.02, 2.03, 2.04, … 3.00	12.01, 12.02, 12.03, 12.04, … 13.00
3.01, 3.02, 3.03, 3.04, … 4.00	13.01, 13.02, 13.03, 13.04, … 14.00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

Code
4110-□□□□

**Ordering examples:**  
 Diameter Code  
 0.21mm 4110-0D21  
 5.56mm 4110-5D56  
 16.00mm 4110-16D00  
 Note: "D" stands for "."



4118-8D015



**INDIVIDUAL STEEL PIN GAUGES 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

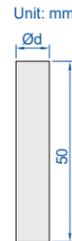
Code	Diameter range Ød (mm)
4118-□□□□*	0.200~30.000

\*Supplied with manufacturer inspection certificate

**Ordering examples:**  
 Diameter Code  
 0.211mm 4118-0D211  
 5.562mm 4118-5D562  
 16.298mm 4118-16D298  
 Note: "D" stands for "."



4219-8D015



**HIGH ACCURACY INDIVIDUAL STEEL PIN GAUGES (0.001MM STEP)**



- Meet DIN2269, grade 0
- Diameter range: Ø0.200~Ø30.000mm with three decimal, for example 0.211mm, 5.562mm, 16.298mm
- Diameter accuracy: ±0.5µm
- Made of alloy steel
- Hardness HRC62-65

Code	Diameter range Ød (mm)
4219-□□□□*	0.200~30.000

\*Supplied with manufacturer inspection certificate

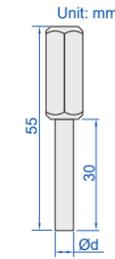
**Ordering examples:**

Diameter	Code
0.211mm	4219-0D211
5.562mm	4219-5D562
16.298mm	4219-16D298

Note: "D" stands for "."



4218-5D000



**INDIVIDUAL PIN GAUGES WITH HANDLE (0.001MM STEP)**



- Meet DIN2269, grade 1
- Diameter range: Ø1.000~Ø20.000mm
- Available in sizes with three decimal places, for example 5.562mm, 16.298mm
- Diameter accuracy: ±1µm
- Made of alloy steel
- Hardness HRC62-65

Code	Diameter range Ød (mm)
4218-□□□□*	1.000~20.000

\*Supplied with manufacturer inspection certificate

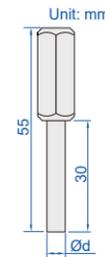
**Ordering examples:**

Diameter	Code
5.562mm	4218-5D562
16.298mm	4218-16D298

Note: "D" stands for "."



4214-5D00



**INDIVIDUAL PIN GAUGES WITH HANDLE (0.01MM STEP)**

- Meet DIN2269, grade 1
- Diameter range: Ø1.00~Ø20.00mm
- Available in sizes with two decimal places, for example 5.56mm, 16.00mm

- Diameter accuracy: ±1µm
- Made of alloy steel
- Hardness HRC62-65

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

Code
4214-□□□□

**Ordering examples:**

Diameter	Code
5.56mm	4214-5D56
16.00mm	4214-16D00

Note: "D" stands for "."



7340

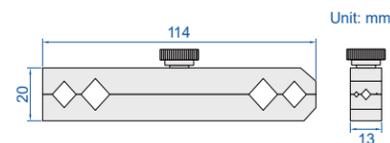
**BOXES FOR PIN GAUGES**

- For individual pin gauges (4110, 4118, 4192, 4113 and 4193 series)

Code	Applicable pin gauge diameter Ød	Quantity of pin gauges
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



7345-13



**PIN GAUGE HANDLE**

- Operated without wrench
- Made of aluminum

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



7342-M1



**PIN GAUGE HANDLES (OPERATED WITHOUT WRENCH)**

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



Code	Applicable pin gauge diameter	H	L
7342-M0	0.30-1.25mm/0.011-0.049"	10	112
7342-M1	1.26-6.35mm/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



handle



brass clamping bush (0.2~7.14mm)

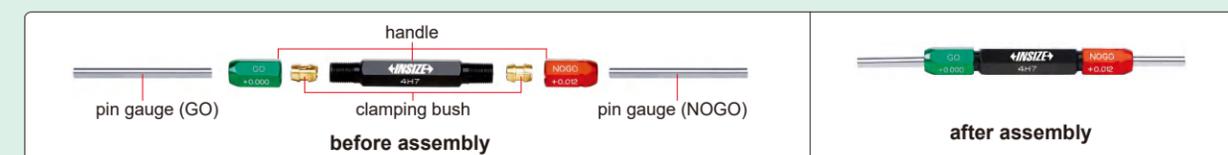


aluminum clamping bush (7.14~24.80mm)



**PIN GAUGE HANDLES (OPERATED WITH WRENCH)**

- 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 gauge diameter	Including		H	L
		handle	clamping bush (mm)		
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

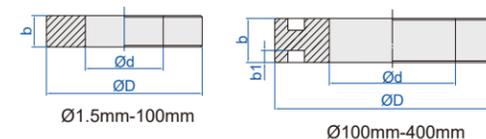


# SETTING RINGS & CYLINDER GAUGES

Setting ring gauge can accurately calibrate the dimensional precision of internal diameter measuring tools (such as internal micrometers and internal dial gauges), ensuring the accuracy of internal diameter measurement benchmarks. Cylinder gauges, on the other hand, are used to verify the dimensional deviation of external diameter measuring tools (such as external micrometers and snap gauges), guaranteeing the reliability of external diameter inspection results. Both are widely applied in mechanical processing and metrological testing scenarios, and serve as key calibration tools for maintaining the precision of measuring instruments and improving measurement accuracy.



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## 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 gauges
- 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

### Size difference (mm)

Diameter d**	b	b1	ØD	Size difference
Ø1.5-2.5	4	—	22	±10.0µm
Ø2.5-3	5	—	22	±10.0µm
Ø3-5	5	—	22	±10.0µm
Ø5-10	8	—	32	±10.0µm
Ø10-15	10	—	38	±10.0µm
Ø15-18	12	—	45	±10.0µm
Ø18-20	12	—	45	±10.0µm
Ø20-25	14	—	53	±10.0µm
Ø25-30	16	—	63	±10.0µm
Ø30-32	16	—	63	±10.0µm
Ø32-40	18	—	71	±10.0µm
Ø40-50	20	—	85	±10.0µm
Ø50-60	20	—	100	±10.0µm
Ø60-70	24	—	112	±10.0µm
Ø70-80	24	—	125	±10.0µm
Ø80-90	24	—	140	±10.0µm
Ø90-100	24	—	160	±10.0µm
Ø100-110	30	8	164	±10.0µm
Ø110-130	34	10	192	±10.0µm
Ø130-150	34	10	220	±10.0µm
Ø150-170	36	10	248	±10.0µm
Ø170-190	36	10	276	±10.0µm
Ø190-210	38	10	300	±10.0µm
Ø210-230	38	10	324	±10.0µm
Ø230-250	40	12	350	±10.0µm
Ø250-270	40	12	375	±10.0µm
Ø270-290	42	12	400	±10.0µm
Ø290-300	42	12	425	±10.0µm
Ø300-320	42	12	430	±10.0µm
Ø320-330	42	12	440	±10.0µm
Ø330-340	42	12	450	±10.0µm
Ø340-350	42	12	460	±10.0µm
Ø350-360	42	12	470	±10.0µm
Ø360-370	42	12	480	±10.0µm
Ø370-380	42	12	490	±10.0µm
Ø380-390	42	12	500	±10.0µm
Ø390-400	42	12	510	±10.0µm

\*\* For example: Ø3-5mm means Ø3mm < diameter d ≤ Ø5mm

### Roundness and taper (standard accuracy)

Diameter(mm)	Roundness	Taper	Diameter(mm)	Roundness	Taper
Ød ≤ 3	0.3µm	0.3µm	80 < Ød ≤ 120	1.0µm	1.0µm
3 < Ød ≤ 10	0.4µm	0.4µm	120 < Ød ≤ 150	1.2µm	1.2µm
10 < Ød ≤ 18	0.5µm	0.5µm	150 < Ød ≤ 210	1.5µm	1.5µm
18 < Ød ≤ 30	0.6µm	0.6µm	210 < Ød ≤ 250	2.5µm	2.5µm
30 < Ød ≤ 50	0.7µm	0.7µm	250 < Ød ≤ 300	3.0µm	3.0µm
50 < Ød ≤ 80	0.8µm	0.8µm	300 < Ød ≤ 400	4.0µm	4.0µm

### Standard accuracy (meet DIN2250-1:2008 type C)

Code	Size	Code	Size	Code	Size
6312-1D5*	Ø1.5mm	6312-8*	Ø8mm	6312-20*	Ø20mm
6312-2*	Ø2mm	6312-8D5*	Ø8.5mm	6312-21*	Ø21mm
6312-2D5*	Ø2.5mm	6312-9*	Ø9mm	6312-22*	Ø22mm
6312-3*	Ø3mm	6312-10*	Ø10mm	6312-23*	Ø23mm
6312-3D5*	Ø3.5mm	6312-11*	Ø11mm	6312-24*	Ø24mm
6312-4*	Ø4mm	6312-12*	Ø12mm	6312-25*	Ø25mm
6312-4D5*	Ø4.5mm	6312-13*	Ø13mm	6312-26*	Ø26mm
6312-5*	Ø5mm	6312-14*	Ø14mm	6312-27*	Ø27mm
6312-5D5*	Ø5.5mm	6312-15*	Ø15mm	6312-28*	Ø28mm
6312-6*	Ø6mm	6312-16*	Ø16mm	6312-29*	Ø29mm
6312-6D5*	Ø6.5mm	6312-17*	Ø17mm	6312-30*	Ø30mm
6312-7*	Ø7mm	6312-18*	Ø18mm	6312-31*	Ø31mm
6312-7D5*	Ø7.5mm	6312-19*	Ø19mm	6312-32*	Ø32mm

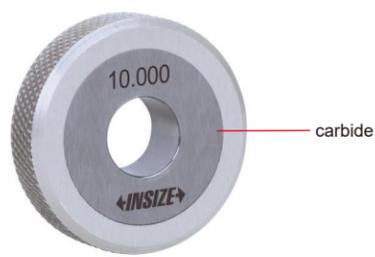
Code	Size	Code	Size	Code	Size
6312-33*	Ø33mm	6312-48*	Ø48mm	6312-125*	Ø125mm
6312-34*	Ø34mm	6312-49*	Ø49mm	6312-150*	Ø150mm
6312-35*	Ø35mm	6312-50*	Ø50mm	6312-175*	Ø175mm
6312-36*	Ø36mm	6312-55*	Ø55mm	6312-200*	Ø200mm
6312-37*	Ø37mm	6312-60*	Ø60mm	6312-225*	Ø225mm
6312-38*	Ø38mm	6312-62*	Ø62mm	6312-250*	Ø250mm
6312-39*	Ø39mm	6312-65*	Ø65mm	6312-275*	Ø275mm
6312-40*	Ø40mm	6312-70*	Ø70mm	6312-300*	Ø300mm
6312-41*	Ø41mm	6312-75*	Ø75mm	6312-350*	Ø350mm
6312-42*	Ø42mm	6312-80*	Ø80mm	6312-400*	Ø400mm
6312-43*	Ø43mm	6312-85*	Ø85mm	6312-1D5A*	Ø1.5mm
6312-44*	Ø44mm	6312-87*	Ø87mm	6312-2A*	Ø2mm
6312-45*	Ø45mm	6312-90*	Ø90mm	6312-2D5A*	Ø2.5mm
6312-46*	Ø46mm	6312-95*	Ø95mm	6312-3A*	Ø3mm
6312-47*	Ø47mm	6312-100*	Ø100mm	6312-3D5A*	Ø3.5mm

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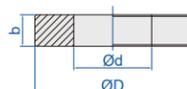
High accuracy

Code	Size	Code	Size	Code	Size	Code	Size
6312-4A*	Ø4mm	6312-16A*	Ø16mm	6312-33A*	Ø33mm	6312-50A*	Ø50mm
6312-4D5A*	Ø4.5mm	6312-17A*	Ø17mm	6312-34A*	Ø34mm	6312-55A*	Ø55mm
6312-5A*	Ø5mm	6312-18A*	Ø18mm	6312-35A*	Ø35mm	6312-60A*	Ø60mm
6312-5D5A*	Ø5.5mm	6312-19A*	Ø19mm	6312-36A*	Ø36mm	6312-62A*	Ø62mm
6312-6A*	Ø6mm	6312-20A*	Ø20mm	6312-37A*	Ø37mm	6312-65A*	Ø65mm
6312-6D5A*	Ø6.5mm	6312-21A*	Ø21mm	6312-38A*	Ø38mm	6312-70A*	Ø70mm
6312-7A*	Ø7mm	6312-22A*	Ø22mm	6312-39A*	Ø39mm	6312-75A*	Ø75mm
6312-7D5A*	Ø7.5mm	6312-23A*	Ø23mm	6312-40A*	Ø40mm	6312-80A*	Ø80mm
6312-8A*	Ø8mm	6312-24A*	Ø24mm	6312-41A*	Ø41mm	6312-85A*	Ø85mm
6312-8D5A*	Ø8.5mm	6312-25A*	Ø25mm	6312-42A*	Ø42mm	6312-87A*	Ø87mm
6312-9A*	Ø9mm	6312-26A*	Ø26mm	6312-43A*	Ø43mm	6312-90A*	Ø90mm
6312-10A*	Ø10mm	6312-27A*	Ø27mm	6312-44A*	Ø44mm	6312-95A*	Ø95mm
6312-11A*	Ø11mm	6312-28A*	Ø28mm	6312-45A*	Ø45mm	6312-100A*	Ø100mm
6312-12A*	Ø12mm	6312-29A*	Ø29mm	6312-46A*	Ø46mm	6312-125A*	Ø125mm
6312-13A*	Ø13mm	6312-30A*	Ø30mm	6312-47A*	Ø47mm	6312-150A*	Ø150mm
6312-14A*	Ø14mm	6312-31A*	Ø31mm	6312-48A*	Ø48mm	6312-175A*	Ø175mm
6312-15A*	Ø15mm	6312-32A*	Ø32mm	6312-49A*	Ø49mm	6312-200A*	Ø200mm

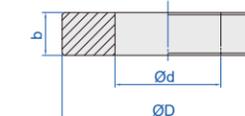
\*Supplied with manufacturer inspection certificate



6317-10



6319-10



CARBIDE SETTING RINGS

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



- For zero setting of inside micrometers, three points internal micrometers and bore gauges
- 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**	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

To be continued

Continued from previous page

Code	Size	Code	Size	Code	Size	Code	Size
6317-0D5*	Ø0.5mm	6317-10D5*	Ø10.5mm	6317-20D5*	Ø20.5mm	6317-31*	Ø31mm
6317-1*	Ø1mm	6317-11*	Ø11mm	6317-21*	Ø21mm	6317-32*	Ø32mm
6317-1D5*	Ø1.5mm	6317-11D5*	Ø11.5mm	6317-21D5*	Ø21.5mm	6317-33*	Ø33mm
6317-2*	Ø2mm	6317-12*	Ø12mm	6317-22*	Ø22mm	6317-34*	Ø34mm
6317-2D5*	Ø2.5mm	6317-12D5*	Ø12.5mm	6317-22D5*	Ø22.5mm	6317-35*	Ø35mm
6317-3*	Ø3mm	6317-13*	Ø13mm	6317-23*	Ø23mm	6317-36*	Ø36mm
6317-3D5*	Ø3.5mm	6317-13D5*	Ø13.5mm	6317-23D5*	Ø23.5mm	6317-37*	Ø37mm
6317-4*	Ø4mm	6317-14*	Ø14mm	6317-24*	Ø24mm	6317-38*	Ø38mm
6317-4D5*	Ø4.5mm	6317-14D5*	Ø14.5mm	6317-24D5*	Ø24.5mm	6317-39*	Ø39mm
6317-5*	Ø5mm	6317-15*	Ø15mm	6317-25*	Ø25mm	6317-40*	Ø40mm
6317-5D5*	Ø5.5mm	6317-15D5*	Ø15.5mm	6317-25D5*	Ø25.5mm	6317-41*	Ø41mm
6317-6*	Ø6mm	6317-16*	Ø16mm	6317-26*	Ø26mm	6317-42*	Ø42mm
6317-6D5*	Ø6.5mm	6317-16D5*	Ø16.5mm	6317-26D5*	Ø26.5mm	6317-43*	Ø43mm
6317-7*	Ø7mm	6317-17*	Ø17mm	6317-27*	Ø27mm	6317-44*	Ø44mm
6317-7D5*	Ø7.5mm	6317-17D5*	Ø17.5mm	6317-27D5*	Ø27.5mm	6317-45*	Ø45mm
6317-8*	Ø8mm	6317-18*	Ø18mm	6317-28*	Ø28mm	6317-46*	Ø46mm
6317-8D5*	Ø8.5mm	6317-18D5*	Ø18.5mm	6317-28D5*	Ø28.5mm	6317-47*	Ø47mm
6317-9*	Ø9mm	6317-19*	Ø19mm	6317-29*	Ø29mm	6317-48*	Ø48mm
6317-9D5*	Ø9.5mm	6317-19D5*	Ø19.5mm	6317-29D5*	Ø29.5mm	6317-49*	Ø49mm
6317-10*	Ø10mm	6317-20*	Ø20mm	6317-30*	Ø30mm	6317-50*	Ø50mm

\*Supplied with manufacturer inspection certificate

CERAMIC SETTING RINGS

CAN SUPPLY CUSTOM SETTING RINGS FROM Ø2.00MM TO Ø50.00MM, FOR EXAMPLE, Ø17.08MM



- For zero setting of inside micrometers, three points internal micrometers and bore gauges
- 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

				Roundness and taper (standard accuracy)		
				(mm)		
Diameter (Ød)	b	D	Size difference	Diameter (mm)	Roundness	Taper
2≤Ød≤2.5	4	22	±10µm	Ød≤30	0.5µm	1.0µm
2.5<Ød≤5	5	22	±10µm	30<Ød≤50	0.8µm	1.5µm
5<Ød≤10	8	32	±10µm			
10<Ød≤15	10	38	±10µm			
15<Ød≤20	12	45	±10µm			
20<Ød≤25	14	53	±10µm			
25<Ød≤32	16	63	±10µm			
32<Ød≤40	18	71	±10µm			
40<Ød≤50	20	85	±10µm			

				Roundness and taper (high accuracy)		
				(mm)		
Diameter (mm)	Roundness	Taper				
Ød≤3	0.3µm	0.3µm				
3<Ød≤10	0.4µm	0.4µm				
10<Ød≤18	0.5µm	0.5µm				
18<Ød≤30	0.6µm	0.6µm				
30<Ød≤50	0.7µm	0.7µm				

To be continued

Continued from previous page

Standard accuracy

Code	Size	Code	Size	Code	Size	Code	Size
6319-2*	Ø2mm	6319-11D5*	Ø11.5mm	6319-21*	Ø21mm	6319-31*	Ø31mm
6319-2D5*	Ø2.5mm	6319-12*	Ø12mm	6319-21D5*	Ø21.5mm	6319-32*	Ø32mm
6319-3*	Ø3mm	6319-12D5*	Ø12.5mm	6319-22*	Ø22mm	6319-33*	Ø33mm
6319-3D5*	Ø3.5mm	6319-13*	Ø13mm	6319-22D5*	Ø22.5mm	6319-34*	Ø34mm
6319-4*	Ø4mm	6319-13D5*	Ø13.5mm	6319-23*	Ø23mm	6319-35*	Ø35mm
6319-4D5*	Ø4.5mm	6319-14*	Ø14mm	6319-23D5*	Ø23.5mm	6319-36*	Ø36mm
6319-5*	Ø5mm	6319-14D5*	Ø14.5mm	6319-24*	Ø24mm	6319-37*	Ø37mm
6319-5D5*	Ø5.5mm	6319-15*	Ø15mm	6319-24D5*	Ø24.5mm	6319-38*	Ø38mm
6319-6*	Ø6mm	6319-15D5*	Ø15.5mm	6319-25*	Ø25mm	6319-39*	Ø39mm
6319-6D5*	Ø6.5mm	6319-16*	Ø16mm	6319-25D5*	Ø25.5mm	6319-40*	Ø40mm
6319-7*	Ø7mm	6319-16D5*	Ø16.5mm	6319-26*	Ø26mm	6319-41*	Ø41mm
6319-7D5*	Ø7.5mm	6319-17*	Ø17mm	6319-26D5*	Ø26.5mm	6319-42*	Ø42mm
6319-8*	Ø8mm	6319-17D5*	Ø17.5mm	6319-27*	Ø27mm	6319-43*	Ø43mm
6319-8D5*	Ø8.5mm	6319-18*	Ø18mm	6319-27D5*	Ø27.5mm	6319-44*	Ø44mm
6319-9*	Ø9mm	6319-18D5*	Ø18.5mm	6319-28*	Ø28mm	6319-45*	Ø45mm
6319-9D5*	Ø9.5mm	6319-19*	Ø19mm	6319-28D5*	Ø28.5mm	6319-46*	Ø46mm
6319-10*	Ø10mm	6319-19D5*	Ø19.5mm	6319-29*	Ø29mm	6319-47*	Ø47mm
6319-10D5*	Ø10.5mm	6319-20*	Ø20mm	6319-29D5*	Ø29.5mm	6319-48*	Ø48mm
6319-11*	Ø11mm	6319-20D5*	Ø20.5mm	6319-30*	Ø30mm	6319-49*	Ø49mm
						6319-50*	Ø50mm

\*Supplied with manufacturer inspection certificate

High accuracy (meet DIN2250-1:2008 type C)

Code	Size	Code	Size	Code	Size	Code	Size
6319-2A*	Ø2mm	6319-11D5A*	Ø11.5mm	6319-21A*	Ø21mm	6319-31A*	Ø31mm
6319-2D5A*	Ø2.5mm	6319-12A*	Ø12mm	6319-21D5A*	Ø21.5mm	6319-32A*	Ø32mm
6319-3A*	Ø3mm	6319-12D5A*	Ø12.5mm	6319-22A*	Ø22mm	6319-33A*	Ø33mm
6319-3D5A*	Ø3.5mm	6319-13A*	Ø13mm	6319-22D5A*	Ø22.5mm	6319-34A*	Ø34mm
6319-4A*	Ø4mm	6319-13D5A*	Ø13.5mm	6319-23A*	Ø23mm	6319-35A*	Ø35mm
6319-4D5A*	Ø4.5mm	6319-14A*	Ø14mm	6319-23D5A*	Ø23.5mm	6319-36A*	Ø36mm
6319-5A*	Ø5mm	6319-14D5A*	Ø14.5mm	6319-24A*	Ø24mm	6319-37A*	Ø37mm
6319-5D5A*	Ø5.5mm	6319-15A*	Ø15mm	6319-24D5A*	Ø24.5mm	6319-38A*	Ø38mm
6319-6A*	Ø6mm	6319-15D5A*	Ø15.5mm	6319-25A*	Ø25mm	6319-39A*	Ø39mm
6319-6D5A*	Ø6.5mm	6319-16A*	Ø16mm	6319-25D5A*	Ø25.5mm	6319-40A*	Ø40mm
6319-7A*	Ø7mm	6319-16D5A*	Ø16.5mm	6319-26A*	Ø26mm	6319-41A*	Ø41mm
6319-7D5A*	Ø7.5mm	6319-17A*	Ø17mm	6319-26D5A*	Ø26.5mm	6319-42A*	Ø42mm
6319-8A*	Ø8mm	6319-17D5A*	Ø17.5mm	6319-27A*	Ø27mm	6319-43A*	Ø43mm
6319-8D5A*	Ø8.5mm	6319-18A*	Ø18mm	6319-27D5A*	Ø27.5mm	6319-44A*	Ø44mm
6319-9A*	Ø9mm	6319-18D5A*	Ø18.5mm	6319-28A*	Ø28mm	6319-45A*	Ø45mm
6319-9D5A*	Ø9.5mm	6319-19A*	Ø19mm	6319-28D5A*	Ø28.5mm	6319-46A*	Ø46mm
6319-10A*	Ø10mm	6319-19D5A*	Ø19.5mm	6319-29A*	Ø29mm	6319-47A*	Ø47mm
6319-10D5A*	Ø10.5mm	6319-20A*	Ø20mm	6319-29D5A*	Ø29.5mm	6319-48A*	Ø48mm
6319-11A*	Ø11mm	6319-20D5A*	Ø20.5mm	6319-30A*	Ø30mm	6319-49A*	Ø49mm
						6319-50A*	Ø50mm

\*Supplied with manufacturer inspection certificate



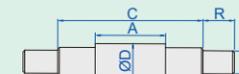
6316-30

CYLINDER GAUGES

CAN SUPPLY CUSTOM SETTING RINGS FROM Ø3.000MM TO Ø200.00MM, FOR EXAMPLE, Ø20.218MM

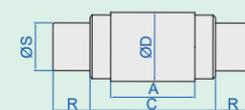


- Made of tungsten steel, quenched, ultra-low temperature treatment
- Wear resistant, long life, dimension stability
- Hardness HRC60-62



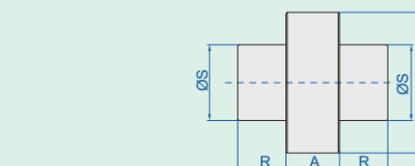
(mm)

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



(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



(mm)

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

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

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

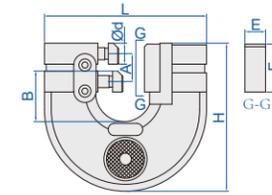
\*Supplied with manufacturer inspection certificate

## ADJUSTABLE SNAP GAUGES

Adjustable limit snap gauges are suitable for the rapid inspection of the outer diameter/thickness of shaft-type and step-type parts. By adjusting to set upper and lower limit dimensions, they can quickly determine whether a workpiece is qualified without repeated reading. Their advantages lie in flexibly meeting the measurement needs of workpieces with multiple specifications, reducing the procurement cost of special measuring tools, and featuring a durable structure and easy operation—these gauges can significantly improve the quality inspection efficiency in fields such as mechanical processing and auto parts manufacturing.



2187-19



### ADJUSTABLE SNAP GAUGES

FAST AND ACCURATE MEASUREMENT OF CYLINDERS

- Used as Go/No-Go gauge 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



(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

## PLAIN PLUG GAUGES

The plain limit plug gauge is a specialized measuring tool for testing the dimensional accuracy of hole workpieces.

With its dual-structure design of the GO end and NO-GO end, it can quickly determine whether the hole diameter meets the tolerance requirements. It requires no complex reading and enables efficient and convenient operation.



PLAIN PLUG GAUGES

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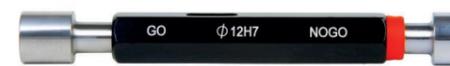
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CARBIDE PLAIN PLUG GAUGES

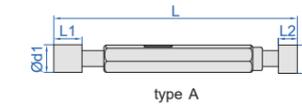
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CERAMIC PLAIN PLUG GAUGES

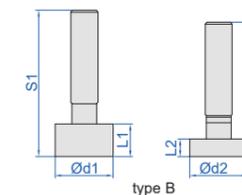
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4124-12



type A



type B

### PLAIN PLUG GAUGES

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 KNURLED HANDLES ARE AVAILABLE FOR TYPE A

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

#### Size tolerance of H7

(mm)

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

type A

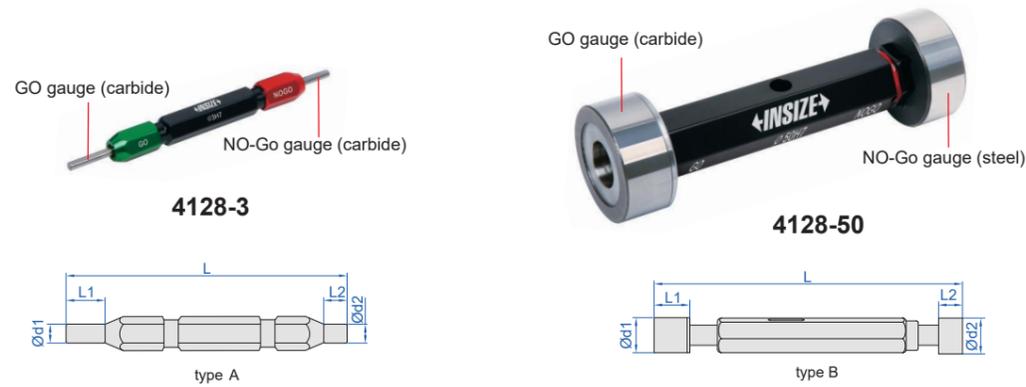


knurled handle is optional

type B



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 GAUGES**

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 gauges together
- Standard DIN7150-2



Size tolerance of H7 (mm)

Diameter	Size tolerance of Go gauge Ød1 (µm)	Size tolerance of No-Go gauge 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

H7 (mm)

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 GAUGES (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

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



Size tolerance of H7 (mm)

Diameter	Size tolerance of Go gauge Ød1 (µm)	Size tolerance of No-Go gauge 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



6333-10



6332-17

**CERAMIC PLAIN PLUG GAUGES (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

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



Size tolerance of H7

Diameter	Size tolerance of Go gauge Ød1 (µm)	Size tolerance of No-Go gauge 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

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 GAUGES**

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 gauges together
- Made of ceramic, extremely wear resistance and corrosion resistance, dimensional stability
- Standard DIN7150-2



Size tolerance of H7

Diameter	Size tolerance of Go gauge Ød1 (µm)	Size tolerance of No-Go gauge 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

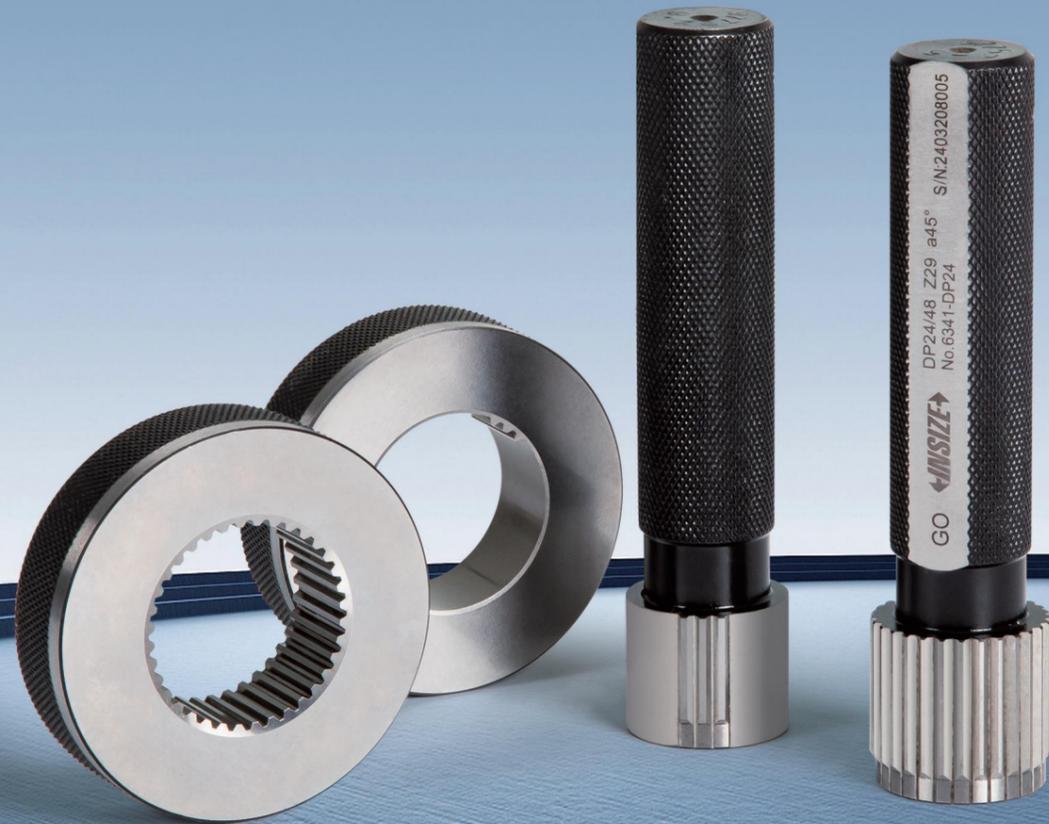
H7

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

\*Supplied with manufacturer inspection certificate

## SPLINE PLUG&RING GAUGES

The spline ring and plug gauge is a specialized measuring tool for inspecting the dimensional and geometric tolerances of internal /external spline workpieces. It is divided into two types: spline ring gauge (for measuring external splines) and spline plug gauge (for measuring internal splines), and serves as a core precision tool in the mass production of splines



SPLINE PLUG GAUGES

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SPLINE RING GAUGES

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MASTER GEARS

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### SPLINE PLUG GAUGES CODE 6341

CUSTOM-MADE

- Suitable for pass or fail inspection of internal splines
- Made of high carbon alloy tool steel
- Hardness HRC60-62
- Information required for order: number of teeth, module, pressure angle and tolerance grade of splines



### SPLINE RING GAUGES CODE 6342

CUSTOM-MADE

- Suitable for pass or fail inspection of external splines
- Made of high carbon alloy tool steel
- Hardness HRC60-62
- Information required for order: number of teeth, module, pressure angle and tolerance grade of splines



### MASTER GEARS CODE 6345

CUSTOM-MADE

- Designed and manufactured in accordance with international standards such as ISO, DIN, AGMA, and BS
- Made of alloy tool steel
- Hardness HRC60-64
- Module: 0.3~10
- Major diameter: max 300mm
- Helix angle: 0°~±45°
- Accuracy class: 3, 4, 5

## MEASURING BALLS

Measuring balls are common standard measuring tools in the field of precision testing. With the characteristics of high roundness and high dimensional accuracy, they are widely used in dimensional calibration, geometric tolerance testing (such as hole diameter and arc radius measurement), and instrument calibration. They are key auxiliary tools for ensuring the accuracy of test results, and common materials include ceramic balls, steel balls, carbide balls, etc.



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MEASURING BALLS

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CERAMIC MEASURING BALLS

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STEEL MEASURING BALLS

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BALL GAUGES

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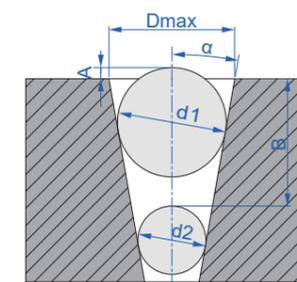
4172-20

### CARBIDE MEASURING BALLS



- To measure angle and diameter of taper holes
- Material: carbide
- Hardness:  $\geq$ HRA87
- Diameter accuracy:  $\pm 3\mu\text{m}$
- Roundness:  $1\mu\text{m}$
- Supplied with manufacturer inspection certificate

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



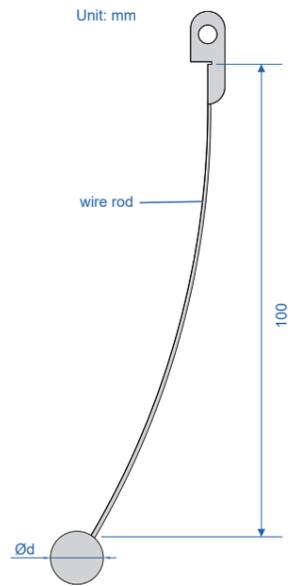
Individual		Individual	
Code	Diameter	Code	Diameter
4172-2	2mm	4172-8D5	8.5mm
4172-2D5	2.5mm	4172-10	10mm
4172-3	3mm	4172-12	12mm
4172-3D5	3.5mm	4172-14	14mm
4172-4	4mm	4172-15	15mm
4172-4D5	4.5mm	4172-16	16mm
4172-5	5mm	4172-18	18mm
4172-6	6mm	4172-20	20mm
4172-6D5	6.5mm	4172-30	30mm
4172-8	8mm		

#### Set (19 pairs)

Code	Carbide balls included (one pair per size)
4172-S19	2mm, 2.5mm, 3mm, 3.5mm, 4mm, 4.5mm, 5mm, 6mm, 6.5mm, 8mm, 8.5mm, 10mm, 12mm, 14mm, 15mm, 16mm, 18mm, 20mm, 30mm



4171-10



**MEASURING BALLS**

THE LENGTH OF THE WIRE ROD CAN BE CUSTOMIZED



- Material: carbide
- Hardness: HRA90-92
- Diameter accuracy: ±8µm
- Supplied with manufacturer inspection certificate

**Ordering examples:**

Diameter	Code
0.4mm	4171-0D4
1.83mm	4171-1D83
16.100mm	4171-16D100

Note: "D" stands for "."

Code	Diameter Ød (mm)	Step
4171-□□□□	0.4, 0.5, 0.6, 0.7, ... 1.8	0.1mm
4171-□□□□	1.81, 1.82, 1.83, ... 1.99	0.01mm
4171-□□□□	2.000, 2.001, ... 20.000	0.001mm



4190-40D000

**CERAMIC MEASURING BALLS**



- 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



4168-S25

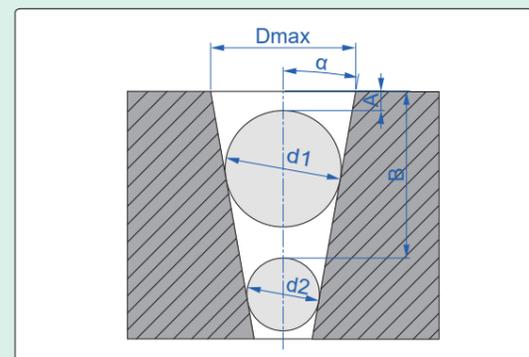
## STEEL MEASURING BALLS



- 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

Individual		Individual	
Code	Diameter	Code	Diameter
4168-01	1mm	4168-14	14mm
4168-02	2mm	4168-15	15mm
4168-03	3mm	4168-16	16mm
4168-04	4mm	4168-17	17mm
4168-05	5mm	4168-18	18mm
4168-06	6mm	4168-19	19mm
4168-07	7mm	4168-20	20mm
4168-08	8mm	4168-21	21mm
4168-09	9mm	4168-22	22mm
4168-10	10mm	4168-23	23mm
4168-11	11mm	4168-24	24mm
4168-12	12mm	4168-25	25mm
4168-13	13mm		

calculate angle ( $\alpha$ ) and diameter (Dmax) according to the ball diameter (d1, d2), height (A) and depth (B)



### 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



## BALL GAUGES (SINGLE END)

THE DIAMETER OF BALL GAUGES CAN BE CUSTOMIZED  $\emptyset 1\text{-}\emptyset 30\text{MM}$



- Diameter range:  $\emptyset 1.000\text{-}\emptyset 30.000\text{mm}$
- Diameter accuracy:
  - $1 \leq \emptyset d < 10$ :  $\pm 1\mu\text{m}$
  - $10 \leq \emptyset d < 20$ :  $\pm 2\mu\text{m}$
  - $20 \leq \emptyset d \leq 30$ :  $\pm 3\mu\text{m}$
- Material: carbide
- Hardness: HRA90-92

### Ordering examples:

Diameter	Code
1.400mm	4271-1D400
5.500mm	4271-5D500
16.100mm	4271-16D100

Note: "D" stands for "."

Code	Diameter $\emptyset d$ (mm)
4271-□□□□ *	1.000~30.000

\* Supplied with manufacturer inspection certificate



## BALL GAUGES (DOUBLE END)

THE DIAMETER OF BALL GAUGES CAN BE CUSTOMIZED  $\emptyset 1\text{-}\emptyset 30\text{MM}$



- Diameter range:  $\emptyset 1.000\text{-}\emptyset 30.000\text{mm}$
- Diameter accuracy:
  - $1 \leq \emptyset d < 10$ :  $\pm 1\mu\text{m}$
  - $10 \leq \emptyset d < 20$ :  $\pm 2\mu\text{m}$
  - $20 \leq \emptyset d \leq 30$ :  $\pm 3\mu\text{m}$
- Material: carbide
- Hardness: HRA90-92

### Ordering examples:

Diameter	Code
GO side: 10.000mm	4273-10D000H10D014
NOGO side: 10.014mm	

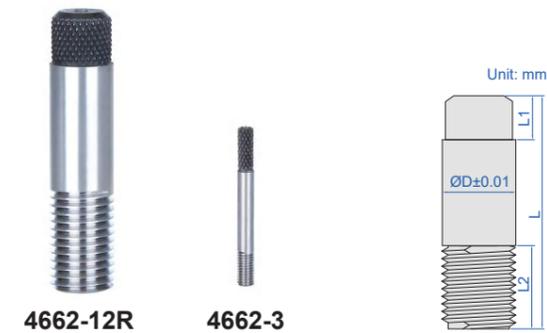
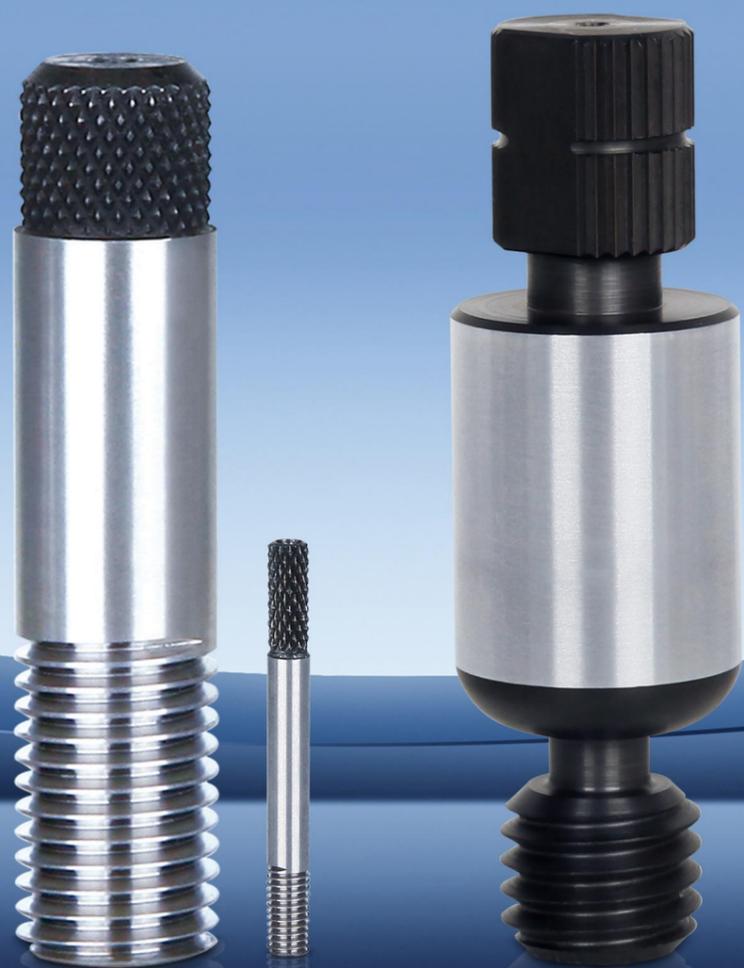
Note: "D" stands for "."

Code	Diameter $\emptyset d$ (mm)
4273-□□□□ *	1.000~30.000

\* Supplied with manufacturer inspection certificate

## THREADED HOLE LOCATION GAUGES

Threaded hole location gauge is a high-precision measuring tool used for accurately measuring the position of threaded holes. By screwing the gauge body into the threaded hole of the workpiece, the precision cylindrical part at its upper end maintains high coaxiality with the threaded hole's axis, thereby providing an accurate reference for subsequent coordinate measurement. The core value of this tool lies in its ability to quickly and easily measure the position degree of threaded holes, the center distance, and the positional relationship with other datum surfaces.



### THREADED HOLE LOCATION GAUGES INSIZE PLUS

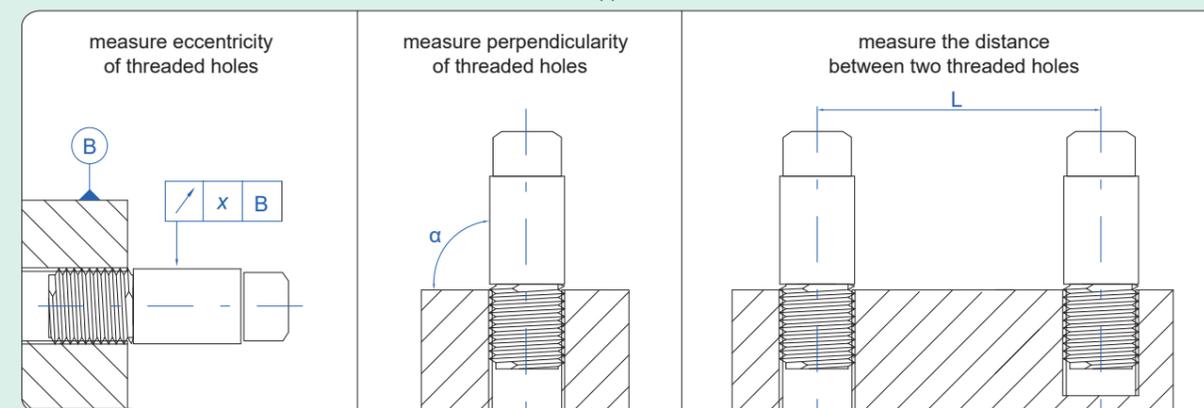
ANY SIZE WITHIN THE RANGE OF M3-M150MM CAN BE CUSTOMIZED

ACCURACY CLASS CAN BE CUSTOMIZED

- Hardness: HRC60-63



#### application

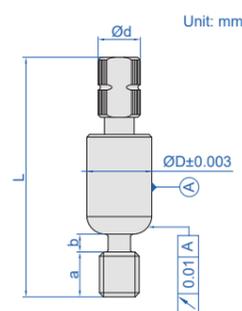


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(mm)						(mm)					
Code	Size	L	L1	L2	ØD	Code	Size	L	L1	L2	ØD
4662-3	M3×0.5-6H	29	8	6	3	4662-12R	M12×1.5-6H	53	10	18	12
4662-4	M4×0.7-6H	31.4	8	8.4	4	4662-14	M14×2-6H	59	10	24	14
4662-5	M5×0.8-6H	32.6	8	9.6	5	4662-14P	M14×1-6H	47	10	12	14
4662-6	M6×1-6H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



4676-12



**THREADED HOLE LOCATION GAUGES**

←INSIZE→PLUS

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

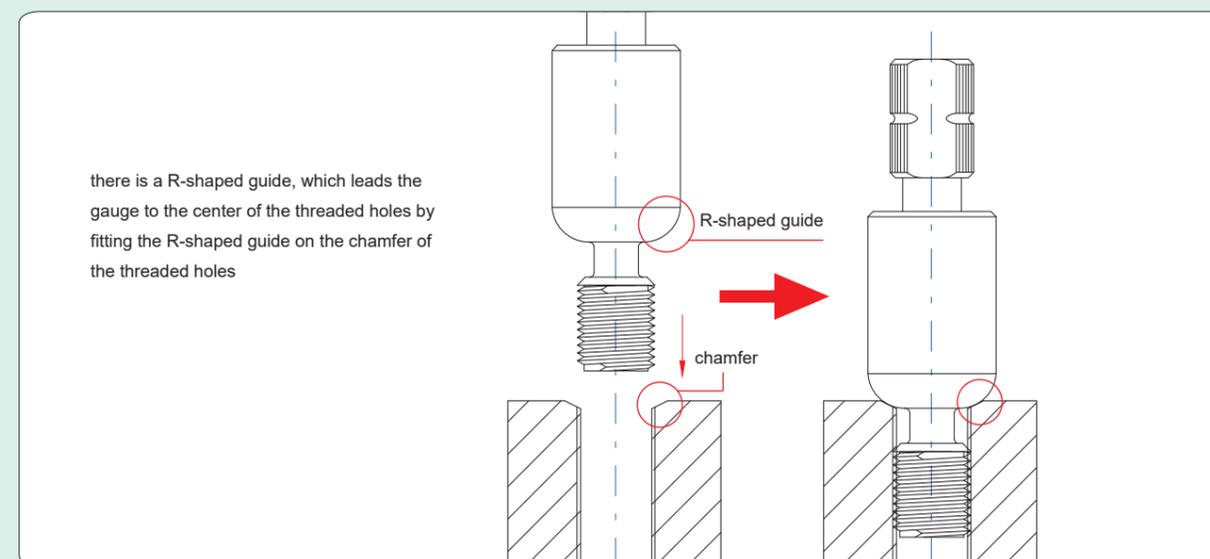
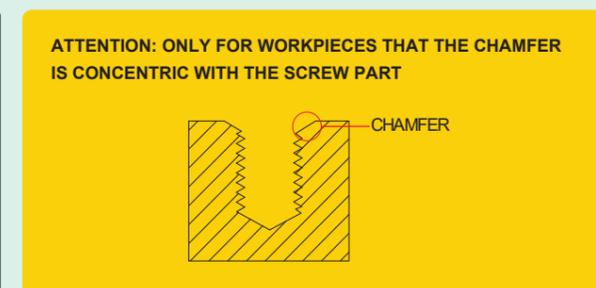
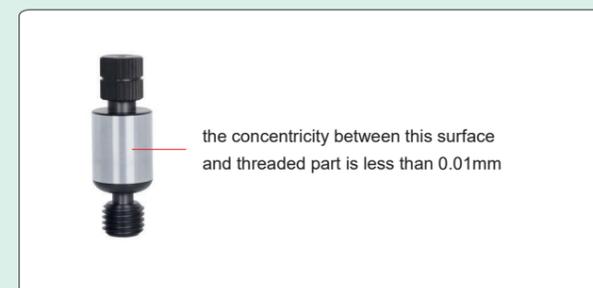


(mm)

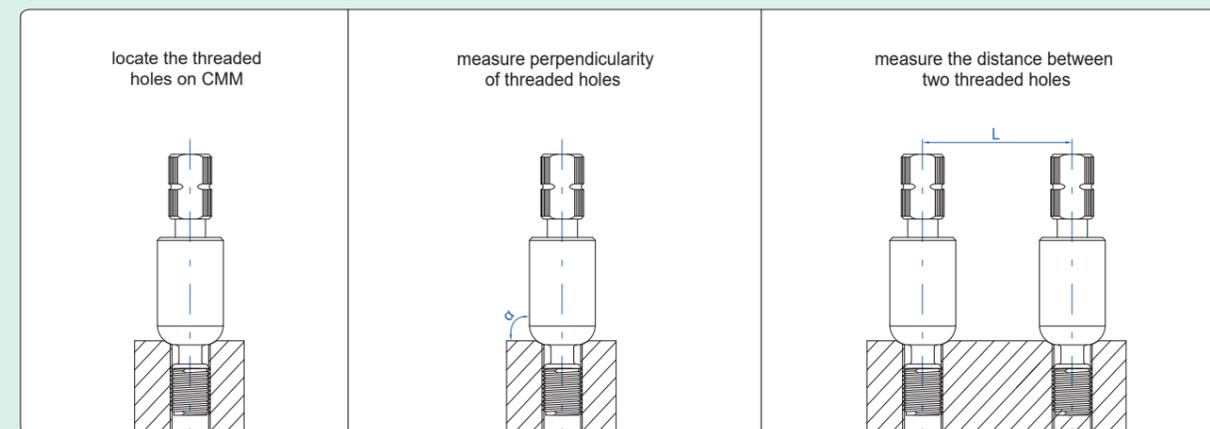
Code	Size	Ød	ØD	a	b	L
4676-3	M3×0.5	4	7	4	2	26
4676-4	M4×0.7	4	7	4	2	26
4676-5	M5×0.8	5.5	9	6	2	33
4676-6	M6×1.0	5.5	9	6	2	33
4676-8	M8×1.25	8.5	13	9	3.5	48
4676-10	M10×1.5	8.5	13	9	3.5	48
4676-12	M12×1.75	12	17	10	3.5	55

To be continued

Continued from previous page



application



## THREAD DEPTH GAUGES

Thread depth gauge is a specialized measuring tool used for accurately measuring the effective thread depth of threaded holes. It typically integrates the function of a thread go/no-go gauge, enabling simultaneous inspection of the diameter acceptability (go/no-go) and the depth dimension of the thread, ensuring that the machining quality of the threaded hole meets the required standards.



page

DIGITAL THREAD DEPTH GAUGES

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THREAD DEPTH GAUGES

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4649-6

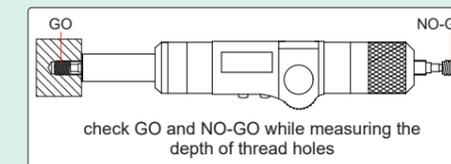
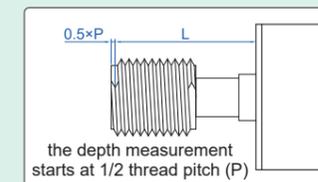
### DIGITAL THREAD DEPTH GAUGES

INSIZE PLUS

DATA OUTPUT

INSPECTION CERTIFICATE

- Supplied with GO and NO-GO gauges together
- Check GO and NO-GO while measuring the depth of thread holes
- Resolution: 0.01mm/0.0005"
- Depth 0-40mm: accuracy ±0.04mm; Depth 40-80mm: accuracy ±0.06mm
- Data output
- Button function: on/off, 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 gauge 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



4666-6



4666-14PA

## THREAD DEPTH GAUGES

INSIZE PLUS

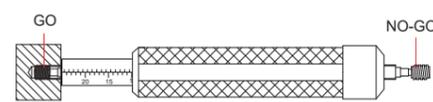
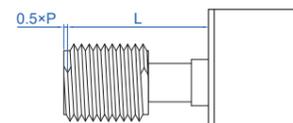
INSPECTION  
CERTIFICATE



VIDEO

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

the depth measurement starts  
at 1/2 thread pitch (P)



check GO and NO-GO while measuring  
depth of thread holes

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	0-11mm
4666-3D5*	M3.5x0.6-6H	0-14mm
4666-4*	M4x0.7-6H	0-15mm
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	0-11mm
4666-3D5A*	M3.5x0.6-6H	0-14mm
4666-4A*	M4x0.7-6H	0-15mm
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

To be continued

Continued from previous page

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

## THREAD MEASURE DEVICES

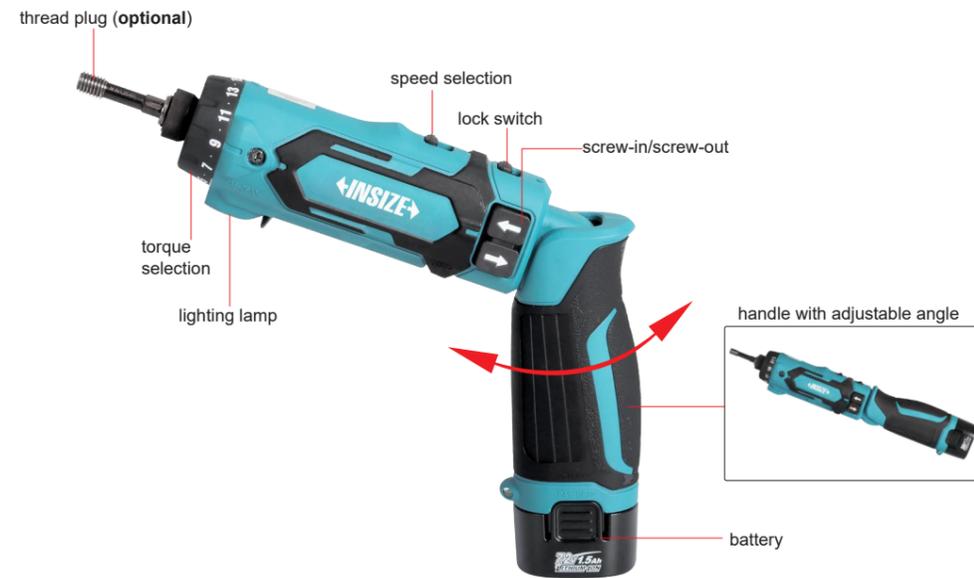
Thread measuring instruments are specialized equipment used for accurately detecting various parameters of threads.

They can greatly improve the efficiency of thread detection and are suitable for the rapid inspection of mass-produced products.



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4256-HANDLE

## ELECTRIC THREAD PLUG GAUGES

CUSTOMIZED THREAD PLUG GAUGES ARE AVAILABLE

- Suitable for left-hand and right-hand threads
- Fast screw-in and screw-out
- Two speed levels: 200rpm, 650rpm
- Including 2 rechargeable batteries, 1 charger (30 minutes fast charging)

### ELECTRIC DRIVER (thread plug gauge are not included)

Code	Torque range	Number of torque settings
4256-HANDLE	0.3~2.9N.m	21

### THREAD PLUG GAUGE-class 6H (DLC coated)

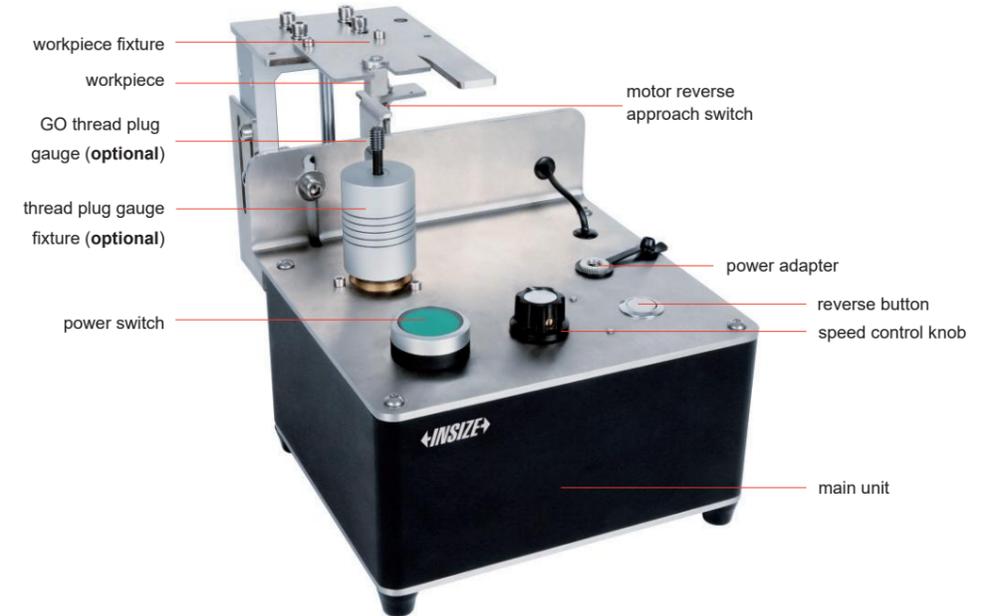
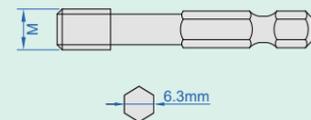
Code	Size (mm) Go	Code	Size (mm) Go
4256-3-DLC	M3×0.5	4256-14-DLC	M14×2
4256-3D5-DLC	M3.5×0.6	4256-16-DLC	M16×2
4256-4-DLC	M4×0.7	4256-18-DLC	M18×2.5
4256-5-DLC	M5×0.8	4256-20-DLC	M20×2.5
4256-6-DLC	M6×1	4256-22-DLC	M22×2.5
4256-8-DLC	M8×1.25	4256-24-DLC	M24×3
4256-10-DLC	M10×1.5	4256-27-DLC	M27×3
4256-12-DLC	M12×1.75	4256-30-DLC	M30×3.5

- DLC coating has the following advantages:
  - High hardness, extremely wear resistance which can extend the service life of thread gauges, life time is 3-10 times of uncoated thread plug gauges.
  - Low friction coefficient
  - Corrosion resistance

charger and battery



4256-8-DLC



## SEMI-AUTOMATIC THREAD INSPECTOR CODE TGI

CUSTOM-MADE

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



VIDEO

### SPECIFICATION

Measuring range	external thread: M5~M20 (Go thread ring gauges) internal thread: M3~M36 (Go thread plug gauges)
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

GO thread ring gauge (optional)





### AUTOMATIC THREAD INSPECTION MACHINE CODE TCM

CUSTOM-MADE



- For inspection of GO, NO-GO and depth of threads
- Can be for repair of thread defects
- Real-time display of torque, circles, OK and NG counts
- If NG thread is detected, audible and visual alarm are activated and the motor is automatically reversed to exit the thread gauge
- Different thread gauges and workpiece fixtures can be replaced
- For different length of thread by adjusting the induction switch
- Thread gauges with DLC coating, excellent wear resistance
- Optional accessory: thread plug gauges, thread ring gauges thread gauge fixtures, custom-made workpiece fixtures, foot switch (code TCM-01)

**SPECIFICATION**

Measuring range	thread: M1~M30
Reprocessing range	thread: M1~M20
Torque range	guide torque: 0~1.27N.m, max. torque: 0~1.27N.m
Speed range	0~3000 r/min
Time range	retract time: 0.1~99s, interval: 0.1~99s
Power supply	220V, 50/60Hz
Rated power	400W
Weight	13kg
Dimension	460x290x330mm

thread ring gauges (optional)

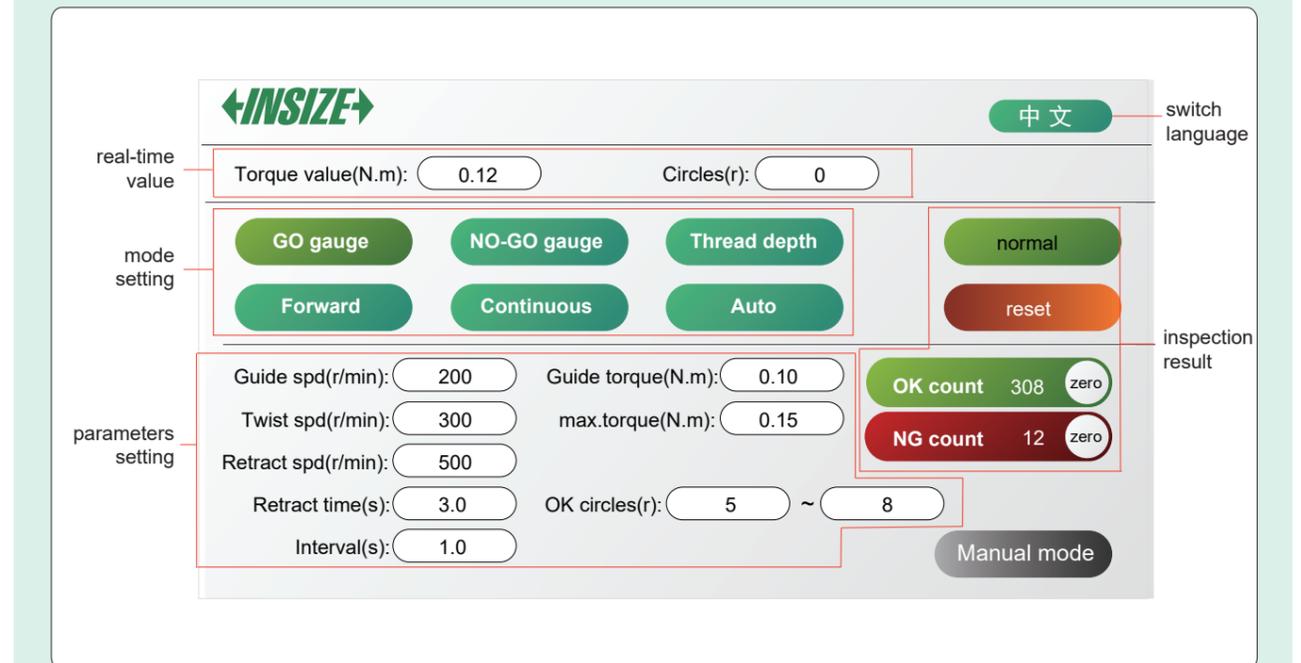
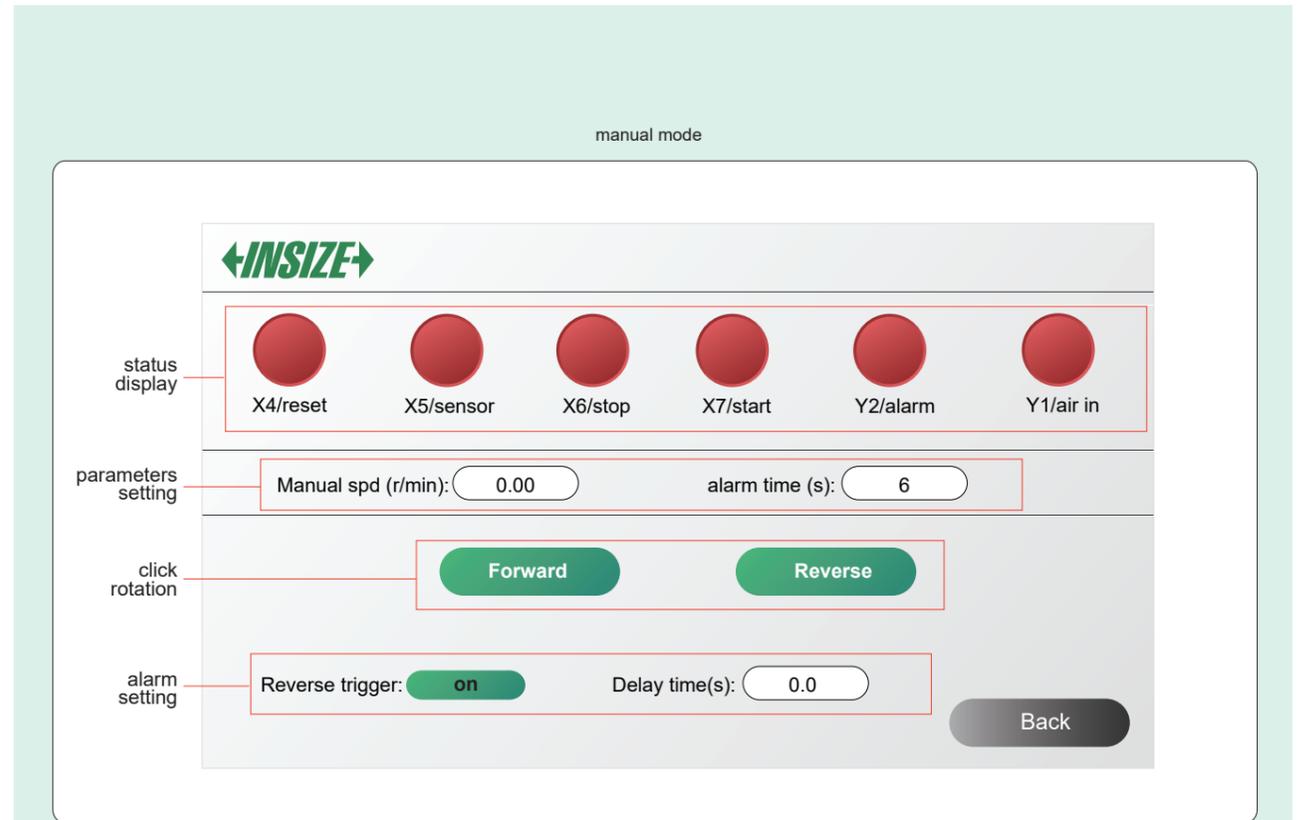


thread plug gauges (optional)



To be continued

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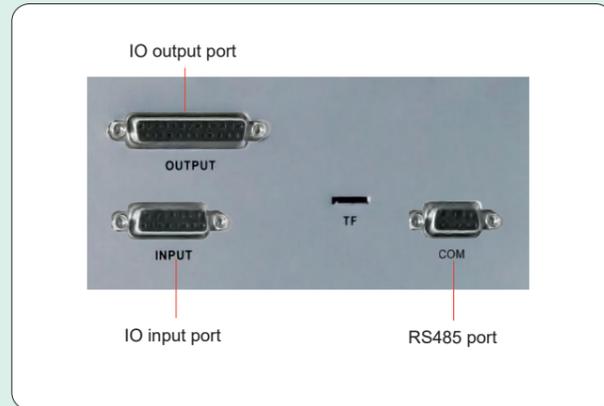
**HANDHELD THREAD INSPECTION MACHINES**

ATTENTION: SPEED SHOULD BE BELOW 100RPM FOR THE FINAL STAGE  
ATTENTION: TORQUE TESTERS ARE NEEDED FOR CALIBRATION  
CUSTOMIZED THREAD PLUG GAUGES ARE AVAILABLE

- For inspection of left-hand and right-hand internal thread
- High precision torque+angle control
- Real-time display torque, OK counts, NG counts and pass rate
- If NG thread is detected, the alarm is activated and the corresponding NG parameter is displayed in red on the controller
- Provide programmable IO and RS485 communication port for process control and data transmission
- Thread plug gauges can be replaced with different sizes
- Thread gauges with DLC coating, excellent wear resistance
- Optional accessory: thread plug gauges, balance arm, torque tester



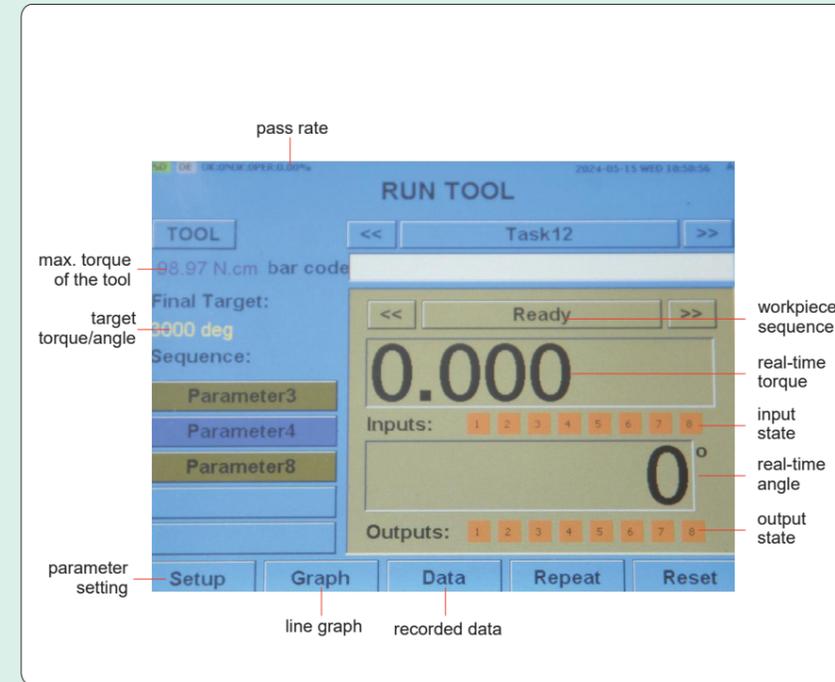
controller (included)



communication port (included)

To be continued

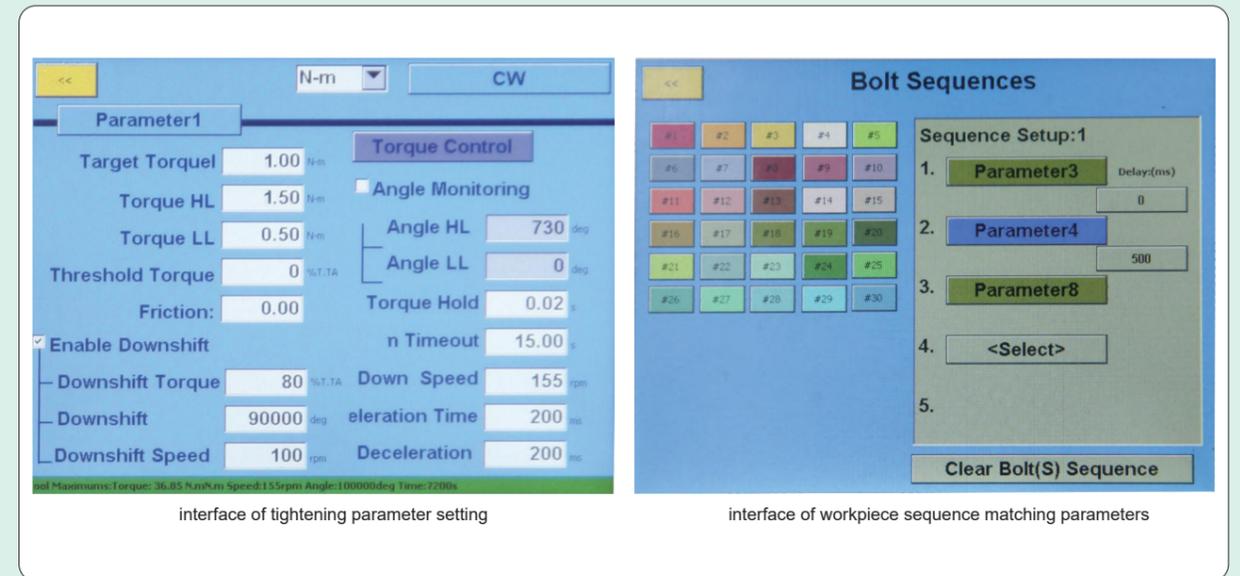
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controller (included)



balance arm (optional)  
code HES-E-X



To be continued

Continued from previous page

## SPECIFICATION

Code		HES-TP01	HES-TP02
Torque range		0.02~0.23N.m	0.15~0.90N.m
Motor power		DC40W	
Max. speed		5000rpm	1200rpm
Measuring range		internal thread: M4~M13	internal thread: M14~M30
Power supply		AC 85~264V, 47~63Hz	
Operation interface display		touch screen menu operation mode, 3 function buttons+3 LED indicators	
Torque accuracy		±5% at 30%~80% of maximum output torque, ±8% in other range	
Dimension	main body	214×64.4×38mm	231×64.4×38mm
	controller	151.5×185.8×221mm	
Weight	main body	400g	500g
	controller	3500g	

## STANDARD DELIVERY

Main body	1 pc
Controller	1 pc
USB transmission cable	1 pc

## OPTIONAL ACCESSORY

Thread plug gauge (Go)	HES-TP-□□
Balance arm	HES-E-X
Torque tester	IST-HP1

## THREAD PLUG GAUGE (Go)

## metric

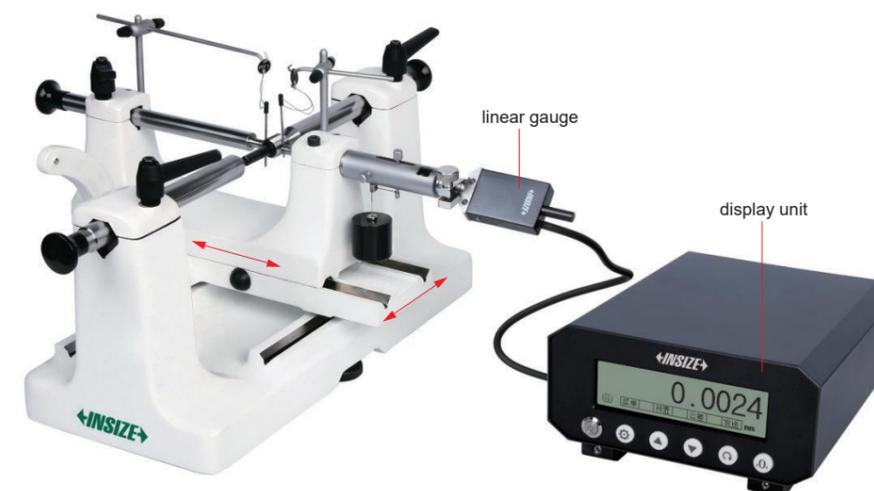
Code	Size (Go)
HES-TP-4	M4×0.7-6H
HES-TP-5	M5×0.8-6H
HES-TP-6	M6×1-6H
HES-TP-7	M7×1-6H
HES-TP-8	M8×1.25-6H
HES-TP-10	M10×1.5-6H
HES-TP-12	M12×1.75-6H
HES-TP-14	M14×2-6H
HES-TP-16	M16×2-6H
HES-TP-18	M18×2.5-6H
HES-TP-20	M20×2.5-6H
HES-TP-22	M22×2.5-6H
HES-TP-24	M24×3-6H
HES-TP-27	M27×3-6H
HES-TP-30	M30×3.5-6H

## metric fine

Code	Size (Go)
HES-TP-8P	M8×1-6H
HES-TP-10P	M10×1-6H
HES-TP-10Q	M10×1.25-6H
HES-TP-12P	M12×1-6H
HES-TP-12Q	M12×1.25-6H
HES-TP-12R	M12×1.5-6H
HES-TP-14P	M14×1-6H
HES-TP-14Q	M14×1.25-6H
HES-TP-14R	M14×1.5-6H
HES-TP-16P	M16×1-6H

## metric fine

Code	Size (Go)
HES-TP-16R	M16×1.5-6H
HES-TP-18P	M18×1-6H
HES-TP-18R	M18×1.5-6H
HES-TP-20P	M20×1-6H
HES-TP-20R	M20×1.5-6H
HES-TP-22P	M22×1-6H
HES-TP-22R	M22×1.5-6H
HES-TP-24P	M24×1-6H
HES-TP-24R	M24×1.5-6H
HES-TP-30R	M30×1.5-6H



## EXTERNAL THREAD MEASURING DEVICE CODE ISQ-TE100

- Quickly measure major, pitch and minor diameters of external thread
- Suitable for metric, inch, whitworth, NPT and BSPT



VIDEO

## SPECIFICATION

Code	Range	Resolution	Accuracy	Repeatability
ISQ-TE100	0-100mm	0.1μm	2μm	0.5μm

## OPTIONAL ACCESSORY

Measuring pin	ISQ-TE100-A
Measuring prism	ISQ-TE100-B
Female center	ISQ-TE100-C
Clamp	ISQ-TE100-D
Setting disc	ISQ-TE100-E
60° find pointer	ISQ-TE100-F
55° find pointer	ISQ-TE100-G
Display unit	7131-1A
Linear gauge	7131-01



measure pitch diameter of thread

## Measuring pin (optional)

- To measure pitch diameter of external thread
- Each size is supplied in pair
- Hardness: 60±2HRC



Code	Pins included	Pin diameter (mm)
ISQ-TE100-A	21 pairs	0.170, 0.195, 0.220, 0.250, 0.290, 0.335, 0.390, 0.455, 0.530, 0.620, 0.725, 0.895, 1.100, 1.350, 1.650, 2.050, 2.550, 3.200, 4.000, 5.050, 6.350

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**Measuring prism (optional)**

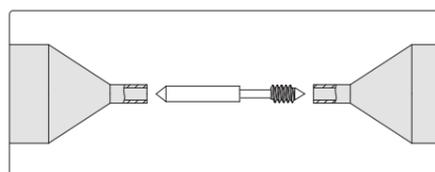
- To measure minor diameter of external thread
- Each size is supplied in pair



Code	Prisms included	Size
ISQ-TE100-B	4 pairs	A, B, C, D (for different types and sizes of thread)

**Female center (optional)**

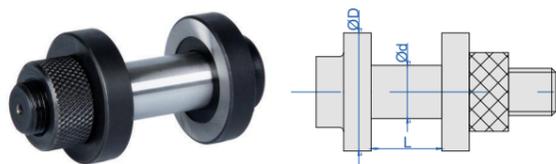
- With small holes to support small workpieces without female centers
- Supplied in pair



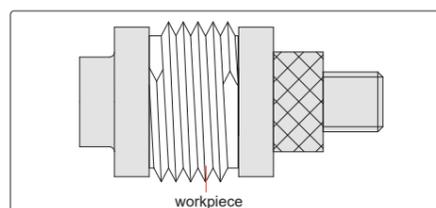
Code
ISQ-TE100-C

**Clamp (optional)**

- To hold large workpieces with inner bore



Code	Clamps included	Ød	ØD	L
ISQ-TE100-D	3 pcs	13.5	30	0-18
		23	60	0-18
		23	75	0-18



To be continued

Continued from previous page

**Setting disc (optional)**

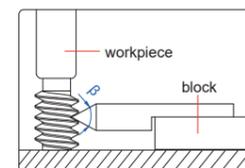
- To set initial value



Code	Discs included	Disc diameter (mm)
ISQ-TE100-E	22 pcs	3, 5, 8, 12, 16, 20, 24, 30, 35, 40, 45, 50, 55, 60, 65, 70, 75, 80, 85, 90, 95, 100

**Find pointer (optional)**

- To find measuring point of NPT or BSPT



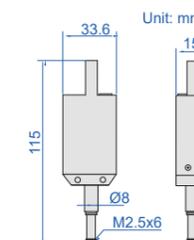
Code	Angle β	Applicable thread
ISQ-TE100-F	60°	NPT
ISQ-TE100-G	55°	BSPT

**Display unit (optional)**



Code	7131-1A
Display mode	4" LCD
Display unit	mm, µm
Resolution	0.1µm

**Linear gauge (optional)**



Code	7131-01
Measuring range	12.5mm
Resolution	0.1µm
Accuracy	1µm
Repeatability	0.2µm



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