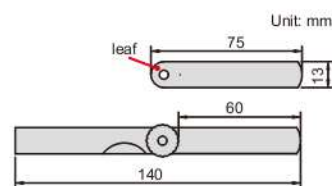


FEELER GAGE

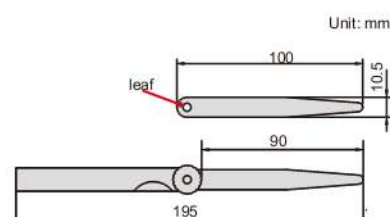
- Made of hardened alloy steel
- Meet DIN2275
- Accuracy: $\pm(3+T/80)$ μm ,
'T' is the thickness of leaves in μm


4601-25


Code	Range	Thickness of leaves included (mm)	Quantity of leaves
4601-25	0.04-1.00mm	0.04, 0.05, 0.06, 0.07, 0.08, 0.09, 0.10, 0.15, 0.20, 0.25, 0.30, 0.35, 0.40, 0.45, 0.50, 0.55, 0.60, 0.65, 0.70, 0.75, 0.80, 0.85, 0.90, 0.95, 1.00	25

FEELER GAGES

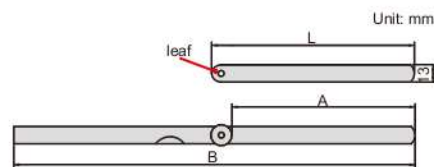
- Made of hardened alloy steel
- Meet DIN2275
- Accuracy: $\pm(3+T/80)$ μm ,
'T' is the thickness of leaves in μm


4602-20


Code	Range	Thickness of leaves included (mm)	Quantity of leaves
4602-13A	0.03-0.50mm	0.03, 0.04, 0.05, 0.06, 0.07, 0.08, 0.09, 0.10, 0.15, 0.20, 0.30, 0.40, 0.50	13
4602-13	0.05-1.00mm	0.05, 0.10, 0.15, 0.20, 0.25, 0.30, 0.40, 0.50, 0.60, 0.70, 0.80, 0.90, 1.00	13
4602-17	0.02-1.00mm	0.02, 0.03, 0.04, 0.05, 0.06, 0.07, 0.08, 0.09, 0.10, 0.15, 0.20, 0.25, 0.30, 0.40, 0.50, 0.75, 1.00	17
4602-20	0.05-1.00mm	0.05, 0.10, 0.15, 0.20, 0.25, 0.30, 0.35, 0.40, 0.45, 0.50, 0.55, 0.60, 0.65, 0.70, 0.75, 0.80, 0.85, 0.90, 0.95, 1.00	20
4602-28	0.05-1.00mm	0.05, 0.06, 0.07, 0.08, 0.09, 0.10, 0.11, 0.12, 0.13, 0.14, 0.15, 0.20, 0.25, 0.30, 0.35, 0.40, 0.45, 0.50, 0.55, 0.60, 0.65, 0.70, 0.75, 0.80, 0.85, 0.90, 0.95, 1.00	28
4602-32	0.03-1.00mm	0.03, 0.04, 0.05, 0.06, 0.07, 0.08, 0.09, 0.10, 0.13, 0.15, 0.18, 0.20, 0.23, 0.25, 0.28, 0.30, 0.33, 0.35, 0.38, 0.40, 0.45, 0.50, 0.55, 0.60, 0.63, 0.65, 0.70, 0.75, 0.80, 0.85, 0.90, 1.00	32

LONG FEELER GAGES

- Made of hardened alloy steel
- Meet DIN2275
- Accuracy: $\pm(3+T/80)$ μm ,
'T' is the thickness of leaves in μm

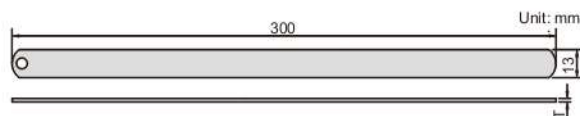

4605-20


Code	Range	Thickness of leaves included (mm)	Quantity of leaves	L	A	B
4605-13	0.05-1.00mm	0.05, 0.10, 0.15, 0.20, 0.25, 0.30, 0.40, 0.50, 0.60, 0.70, 0.80, 0.90, 1.00	13	150	135	295
4605-131	0.05-1.00mm		13	200	185	395
4605-132	0.05-1.00mm		13	300	285	590
4605-20	0.05-1.00mm	0.05, 0.10, 0.15, 0.20, 0.25, 0.30, 0.35, 0.40, 0.45, 0.50, 0.55, 0.60, 0.65, 0.70, 0.75, 0.80, 0.85, 0.90, 0.95, 1.00	20	150	135	295
4605-201	0.05-1.00mm		20	200	185	395
4605-202	0.05-1.00mm		20	300	285	590

FEELER GAGE STOCKS



4622-10



- Used as shims to accurately set spacing
- Made of hardened alloy steel
- Length 300mm
- Width 13mm
- 10pcs/package

Code	Thickness (T)	Accuracy
4622-02	0.02mm	±3µm
4622-03	0.03mm	±3µm
4622-04	0.04mm	±3µm
4622-05	0.05mm	±3µm
4622-06	0.06mm	±3µm
4622-07	0.07mm	±4µm
4622-08	0.08mm	±4µm
4622-09	0.09mm	±4µm
4622-10	0.10mm	±4µm
4622-12	0.12mm	±5µm

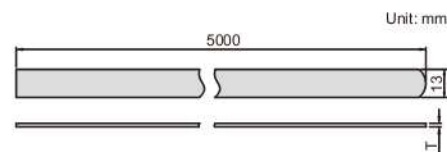
Code	Thickness (T)	Accuracy
4622-15	0.15mm	±5µm
4622-18	0.18mm	±6µm
4622-20	0.20mm	±6µm
4622-25	0.25mm	±6µm
4622-30	0.30mm	±7µm
4622-35	0.35mm	±7µm
4622-40	0.40mm	±8µm
4622-45	0.45mm	±8µm
4622-50	0.50mm	±9µm
4622-55	0.55mm	±9µm

Code	Thickness (T)	Accuracy
4622-60	0.60mm	±9µm
4622-65	0.65mm	±9µm
4622-70	0.70mm	±12µm
4622-75	0.75mm	±12µm
4622-80	0.80mm	±13µm
4622-85	0.85mm	±13µm
4622-90	0.90mm	±14µm
4622-95	0.95mm	±14µm
4622-100	1.00mm	±16µm

FEELER GAGE TAPES



4621-30



- Used as shims to accurately set spacing
- Made of hardened alloy steel
- Length 5m
- Width 13mm

Code	Thickness (T)	Accuracy
4621-02	0.02mm	±4µm
4621-03	0.03mm	±4µm
4621-04	0.04mm	±4µm
4621-05	0.05mm	±4µm
4621-06	0.06mm	±4µm
4621-07	0.07mm	±5µm
4621-08	0.08mm	±5µm
4621-09	0.09mm	±5µm
4621-10	0.10mm	±5µm
4621-12	0.12mm	±5µm

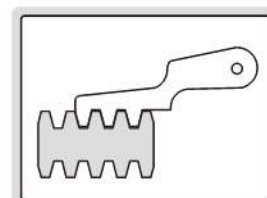
Code	Thickness (T)	Accuracy
4621-15	0.15mm	±6µm
4621-18	0.18mm	±7µm
4621-20	0.20mm	±8µm
4621-25	0.25mm	±9µm
4621-30	0.30mm	±9µm
4621-35	0.35mm	±11µm
4621-40	0.40mm	±12µm
4621-45	0.45mm	±12µm
4621-50	0.50mm	±14µm
4621-55	0.55mm	±14µm

Code	Thickness (T)	Accuracy
4621-60	0.60mm	±14µm
4621-65	0.65mm	±14µm
4621-70	0.70mm	±17µm
4621-75	0.75mm	±17µm
4621-80	0.80mm	±19µm
4621-85	0.85mm	±19µm
4621-90	0.90mm	±22µm
4621-95	0.95mm	±22µm
4621-100	1.00mm	±24µm

PITCH GAGES



4824-12

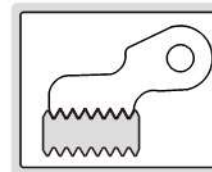


- Check the pitch of screw thread
- Accuracy: ±0.07mm
- Made of medium carbon steel

Code	Range	Thread type	Pitch of leaves included	Quantity of leaves
4824-12	2 - 20mm	Tr 30°	2, 3, 4, 5, 6, 7, 8, 9, 10, 12, 16, 20mm	12
4824-16	1 - 12TPI	ACME 29°	1, 1-1/3, 1-1/2, 1-3/4, 2, 2-1/2, 3, 3-1/2, 4, 5, 6, 7, 8, 9, 10, 12TPI	16

PITCH GAGES

- Check the pitch of screw thread
- Accuracy: $\pm 0.07\text{mm}$
- Made of medium carbon steel


4820-122

Metric 60° screw

Code	Range	Pitch of leaves included (mm)	Quantity of leaves
4820-122	0.4-7.0mm	0.4, 0.5, 0.6, 0.7, 0.75, 0.8, 0.9, 1, 1.25, 1.5, 1.75, 2, 2.5, 3, 3.5, 4, 4.5, 5, 5.5, 6, 6.5, 7	22
4820-124	0.25-7.0mm	0.25, 0.3, 0.35, 0.4, 0.5, 0.7, 0.75, 0.8, 0.9, 1, 1.25, 1.5, 1.75, 2, 2.5, 3, 3.5, 4, 4.5, 5, 5.5, 6, 6.5, 7	24
4820-1241	0.25-6.0mm	0.25, 0.3, 0.35, 0.4, 0.45, 0.5, 0.6, 0.7, 0.75, 0.8, 0.9, 1, 1.25, 1.5, 1.75, 2, 2.5, 3, 3.5, 4, 4.5, 5, 5.5, 6	24

Unified 60° screw

Code	Range	Pitch of leaves included	Quantity of leaves
4820-230	4-42TPI	4, 4-1/2, 5, 5-1/2, 6, 7, 8, 9, 10, 11, 11-1/2, 12, 13, 14, 15, 16, 18, 20, 22, 24, 26, 27, 28, 30, 32, 34, 36, 38, 40, 42TPI	30

Whitworth 55° screw

Code	Range	Pitch of leaves included	Quantity of leaves
4820-330	4-42TPI	4, 4-1/2, 5, 5-1/2, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 18, 19, 20, 22, 24, 26, 27, 28, 30, 32, 34, 36, 38, 40, 42TPI	30
4820-328	4-62TPI	4, 4-1/2, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 16, 18, 19, 20, 22, 24, 25, 26, 28, 30, 32, 36, 40, 48, 60, 62TPI	28

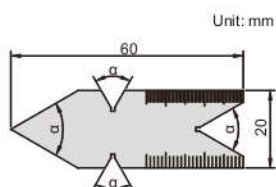
Metric 60° and Whitworth 55° screw

Code	Range	Pitch of leaves included	Quantity of leaves
4820-452	0.25-6.0mm	0.25, 0.3, 0.35, 0.4, 0.45, 0.5, 0.6, 0.7, 0.75, 0.8, 0.9, 1, 1.25, 1.5, 1.75, 2, 2.5, 3, 3.5, 4, 4.5, 5, 5.5, 6mm	52
	4-62TPI	4, 4-1/2, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 16, 18, 19, 20, 22, 24, 25, 26, 28, 30, 32, 36, 40, 48, 60, 62TPI	
4820-450	0.4-7.0mm	0.4, 0.5, 0.6, 0.7, 0.75, 0.8, 0.9, 1, 1.25, 1.5, 1.75, 2, 2.5, 3, 3.5, 4, 4.5, 5, 5.5, 6, 6.5, 7mm	50
	4-62TPI	4, 4-1/2, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 16, 18, 19, 20, 22, 24, 25, 26, 28, 30, 32, 36, 40, 48, 60, 62TPI	

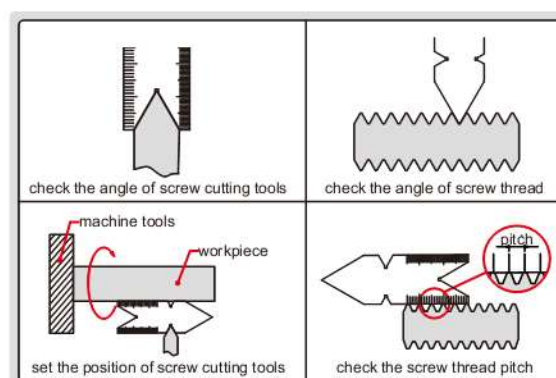
Metric 60° and Unified 60° screw

Code	Range	Pitch of leaves included	Quantity of leaves
4820-552	0.4-7.0mm	0.4, 0.5, 0.6, 0.7, 0.75, 0.8, 0.9, 1, 1.25, 1.5, 1.75, 2, 2.5, 3, 3.5, 4, 4.5, 5, 5.5, 6, 6.5, 7mm	52
	4-42TPI	4, 4-1/2, 5, 5-1/2, 6, 7, 8, 9, 10, 11, 11-1/2, 12, 13, 14, 15, 16, 18, 20, 22, 24, 26, 27, 28, 30, 32, 34, 36, 38, 40, 42TPI	

CENTER GAGES


4810-602


- To check and set screw cutting tools, and check the angle and pitch of screw thread
- Angle accuracy: $\pm 30\text{min}$.
- Made of stainless steel



Code	Thread type	Angle (α)	Graduation
4810-601	METRIC 60°	60°	0.5mm and 1mm
4810-602	UNIFIED 60°	60°	14ths and 20ths on front side, 24ths and 32ths on back side
4810-55	WHITWORTH 55°	55°	14ths and 20ths on front side, 24ths and 32ths on back side

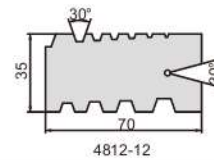
THREAD GAGES



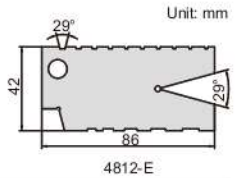
- To check and set screw cutting tools
- Angle accuracy: $\pm 10\text{min}$.
- Made of medium carbon steel

4812-E

Code	Range	Thread type	Pitch
4812-12	2-12mm	Tr30°	2, 3, 4, 5, 6, 7, 8, 9, 10, 12mm
4812-E	1-10TPI	ACME 29°	1, 1-1/3, 1-1/2, 1-3/4, 2, 2-1/2, 3, 4, 5, 6, 7, 8, 9, 10TPI

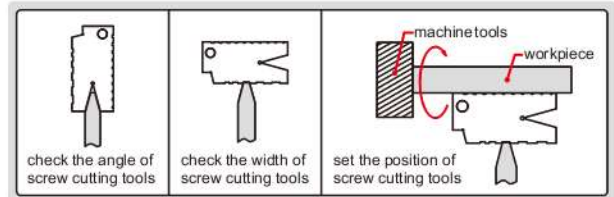


4812-12



4812-E

Unit: mm

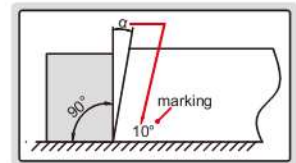


ANGLE GAGE



- To check complementary angles
- Made of stainless steel

4806-20



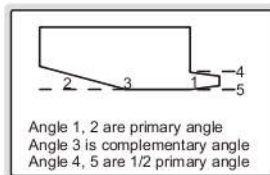
Code	Range	Angle of leaves included	Quantity of leaves	Accuracy
4806-20	1°-45°	1°, 2°, 3°, 4°, 5°, 6°, 7°, 8°, 9°, 10°, 12°, 14°, 16°, 18°, 20°, 25°, 30°, 35°, 40°, 45°	20	$\pm 30'$

ANGLE GAGE SET

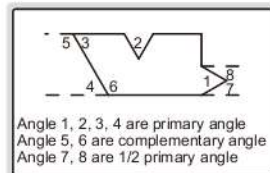


4807

- Each blade checks primary, 1/2 primary and complementary angles
- Made of medium carbon steel



type A



type B

Code	Quantity of leaves	Accuracy
4807	18	$\pm 10'$

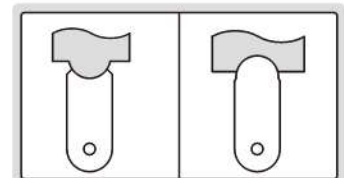
Primary angle	1/2 primary angle	Complementary angle	Type
5°	2°30'	175°	A
10°	5°	170°	A
15°	7°30'	165°	A
20°	10°	160°	B
25°	12°30'	155°	B
30°	15°	150°	B
35°	17°30'	145°	B
40°	20°	140°	B
45°	22°30'	135°	B
50°	25°	130°	B
55°	27°30'	125°	B
60°	30°	120°	B
65°	32°30'	115°	B
70°	35°	110°	B
75°	37°30'	105°	B
80°	40°	100°	B
85°	42°30'	95°	B
90°	45°	90°	B

RADIUS GAGES



- Made of medium carbon steel

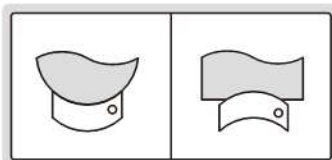
4801-17



Code	Range	Radius of leaves included (mm)	Quantity of leaves (internal + external)	Accuracy
4801-17	1-7mm	1, 1.25, 1.5, 1.75, 2, 2.25, 2.5, 2.75, 3, 3.5, 4, 4.5, 5, 5.5, 6, 6.5, 7	17+17	$\pm 0.03\text{mm}$
4801-16	7.5-15mm	7.5, 8, 8.5, 9, 9.5, 10, 10.5, 11, 11.5, 12, 12.5, 13, 13.5, 14, 14.5, 15	16+16	$\pm 0.035\text{mm}$
4801-15	15.5-25mm	15.5, 16, 16.5, 17, 17.5, 18, 18.5, 19, 19.5, 20, 21, 22, 23, 24, 25	15+15	$\pm 0.042\text{mm}$

RADIUS GAGE

- Made of stainless steel

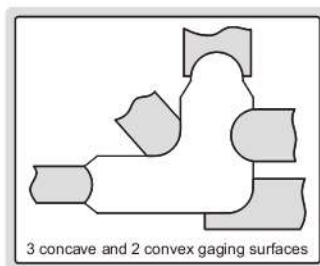


4802-31

Code	Range	Radius of leaves included (mm)	Quantity of leaves	Accuracy
4802-31	25-40mm	25, 25.5, 26, 26.5, 27, 27.5, 28, 28.5, 29, 29.5, 30, 30.5, 31, 31.5, 32, 32.5, 33, 33.5, 34, 34.5, 35, 35.5, 36, 36.5, 37, 37.5, 38, 38.5, 39, 39.5, 40	31pcs	±0.06mm

RADIUS GAGE SET

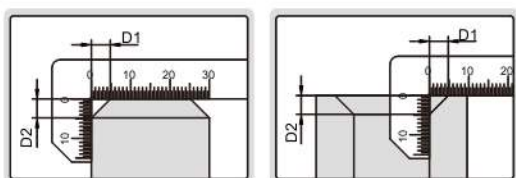
- Each piece has 3 concave and 2 convex gauging surfaces
- Supplied with handle
- Made of medium carbon steel



4804-26

Code	Range	Radius of leaves included (mm)	Quantity of leaves	Accuracy
4804-26	0.5 - 13mm	0.5, 1, 1.5, 2, 2.5, 3, 3.5, 4, 4.5, 5, 5.5, 6, 6.5, 7, 7.5, 8, 8.5, 9, 9.5, 10, 10.5, 11, 11.5, 12, 12.5, 13	26	±0.05mm

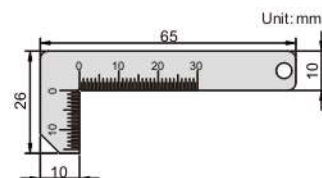
CHAMFER GAGE



- To measure internal and external chamfers
- Made of stainless steel



4844-1



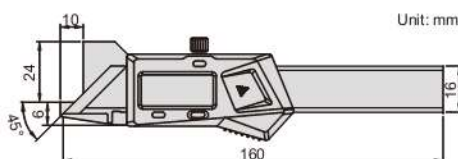
Code	Graduation	Accuracy
4844-1	0.5mm	±0.25mm

DIGITAL CHAMFER GAGE

- Measure 45° chamfer dimension
- Resolution: 0.01mm/0.0005"
- Buttons: on/off, set, mm/inch, preset (+, -)
- Automatic power off, move the digital unit to turn on power
- Battery CR2032
- Data output
- Made of stainless steel
- Optional accessory: data output cable (code 7306-20, 7302-SPC5A/SPC5B, 7305-SPC2A)

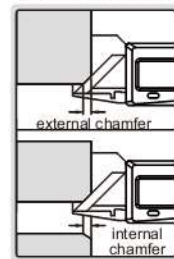


1180-6



DATA OUTPUT

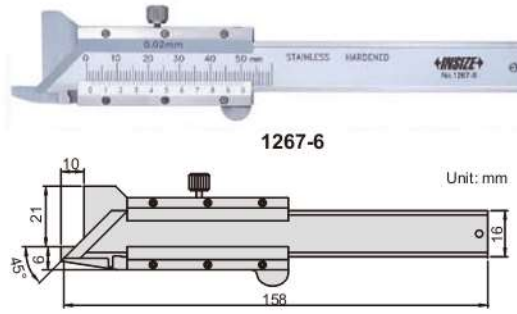
measure 45° chamfer dimension



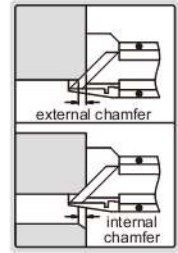
Code	Range	Accuracy
1180-6	0-6mm/0-0.24"	±0.06mm

CHAMFER GAGE

- Measure 45° chamfer dimension
- Graduation 0.02mm
- Made of stainless steel
- Satin chrome plated reading surface



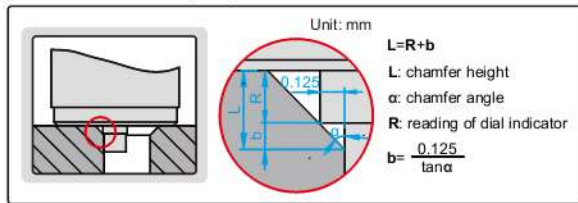
measure 45° chamfer dimension



Code	Range	Accuracy
1267-6	0-6mm	±0.06mm

CHAMFER HEIGHT GAGE

principle of measurement

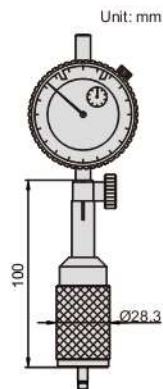


- Measure outside or inside chamfer height
- Suitable for diameter of bores > 6mm, chamfer angle $\alpha > 30^\circ$
- Setting gage is included

Code	Range (L)	Graduation	Accuracy
2943-1	0.2-5mm	0.01mm	±0.02mm



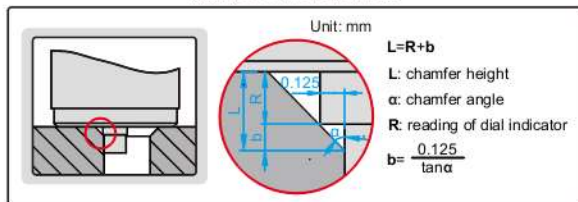
2943-1



setting gage (included)



principle of measurement

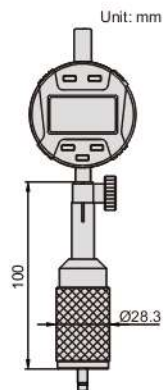


- Measure outside or inside chamfer height
- Suitable for diameter of bores > 6mm, chamfer angle $\alpha > 30^\circ$
- Resolution: 0.01mm/0.0005"
- Setting gage is included

Code	Range (L)	Accuracy
2944-1	0.2-5mm/0.008-0.197"	±0.02mm



2944-1



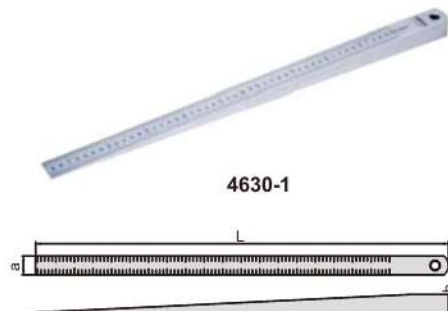
setting gage (included)



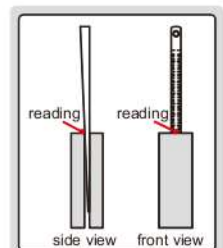
TAPER GAGES

- For quick measurement of gap width
- Stain chrome plated reading surface
- Made of stainless steel

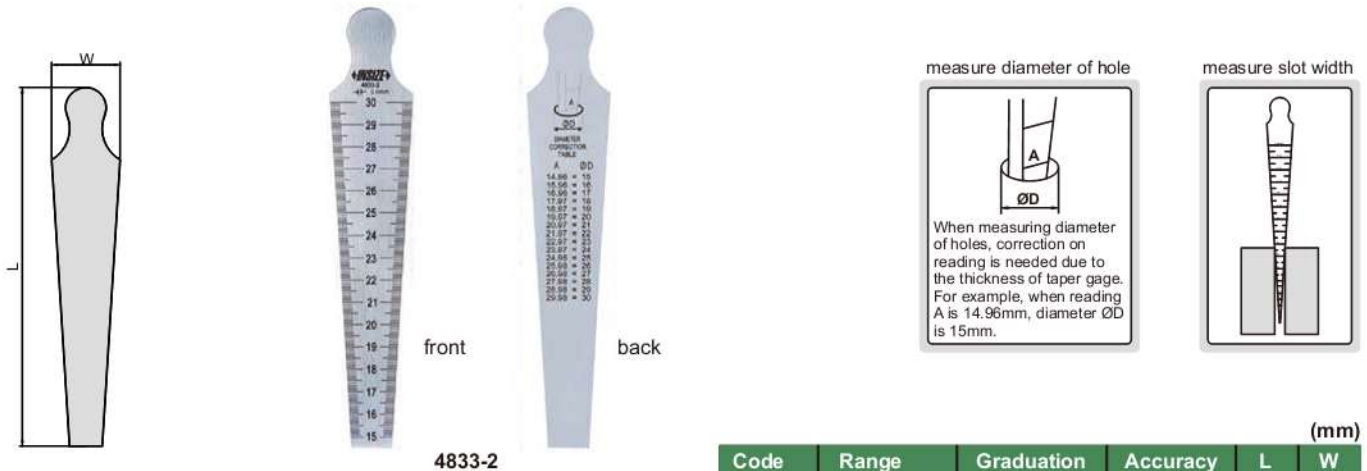
Code	Range	Graduation	Accuracy	L	a	b
4630-3	0.4-6mm	0.05mm	±0.04mm	164	12.5	6.5
4630-1	0.5-10mm	0.05mm	±0.07mm	220	10	10.5
4630-2	0.5-15mm	0.1mm	±0.08mm	184	12.5	16.5



4630-1



TAPER GAGES



4833-2

measure diameter of hole

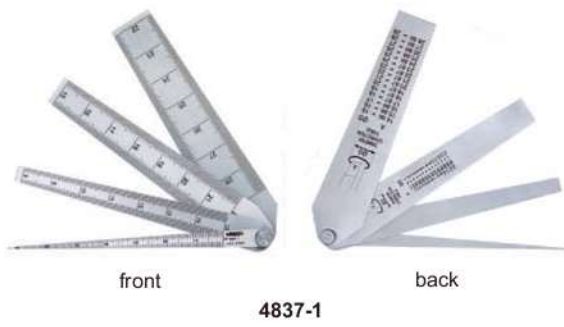
When measuring diameter of holes, correction on reading is needed due to the thickness of taper gage. For example, when reading A is 14.96mm, diameter ØD is 15mm.

measure slot width

- Measure opening, slot width, hole diameter, etc.
- Diameter correction table on the back (only for 4833-1, 4833-2)
- Made of stainless steel

Code	Range	Graduation	Accuracy	L	W
4833-1	0.8-15mm	0.1mm	±0.1mm	146	17
4833-2	15-30mm	0.1mm	±0.1mm	159	30.4
4833-3	30-45mm	0.1mm	±0.1mm	166	45.4
4833-4	45-60mm	0.1mm	±0.1mm	170	60.5

TAPER GAGE SET



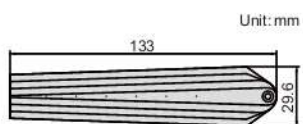
4837-1

measure diameter of hole

When measuring diameter of holes, correction on reading is needed due to the thickness of taper gage. For example, when reading A is 14.96mm, diameter ØD is 15mm.

measure slot width

- Include 4pcs (1-8mm, 8-15mm, 15-22mm, 22-29mm)
- Measure opening, slot width, hole diameter, etc.
- Diameter correction table on the back
- Made of stainless steel

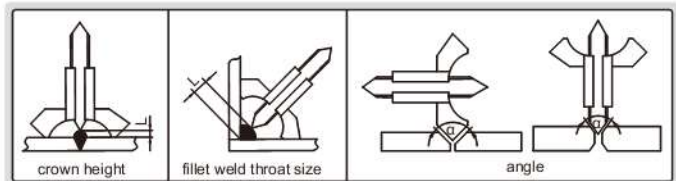
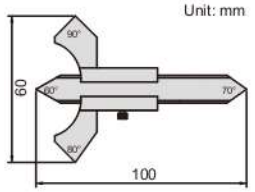


Code	Range	Graduation	Accuracy
4837-1	1-29mm	0.05mm	±0.05mm

WELDING GAGE



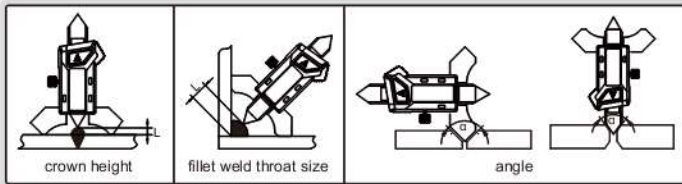
4830



- Made of stainless steel
- Stain chrome plated reading surface

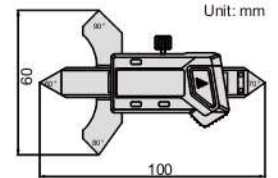
Code	Measurement	Range	Graduation	Accuracy
4830	crown height	0-8mm	0.1mm	±0.1mm
	fillet weld throat size	0-20mm	0.1mm	±0.3mm
	angle	60°, 70°, 80°, 90°	—	±1°

DIGITAL WELDING GAGE



ATTENTION:
NO DATA OUTPUT

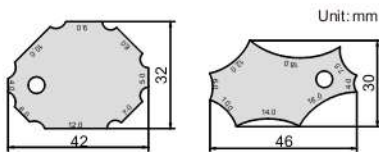
4831-20A



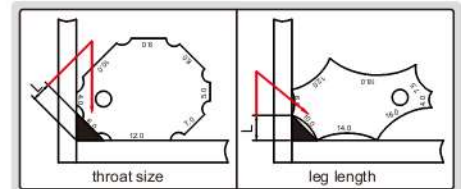
- Buttons: zero, mm/inch, on/off
- Battery LR44
- Made of stainless steel

Code	Measurement	Range	Resolution	Accuracy
4831-20A	crown height	0-7mm	0.01mm/0.0005"	±0.03mm
	fillet weld throat size	0-20mm	0.01mm/0.0005"	±0.1mm
	angle	60°, 70°, 80°, 90°	—	±1°

FILLET WELDING GAGE



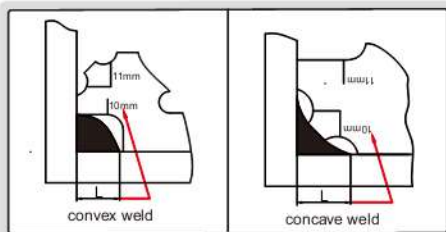
4832-1



- Made of stainless steel
- Sizes marked on both faces

Code	Throat size	Leg length	Accuracy
4832-1	4, 5, 6, 7, 8, 9, 10, 12mm	4, 6, 7.5, 10, 12, 14, 16, 18mm	±0.5mm

FILLET WELDING GAGES



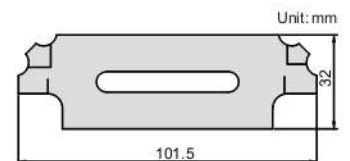
4836-1



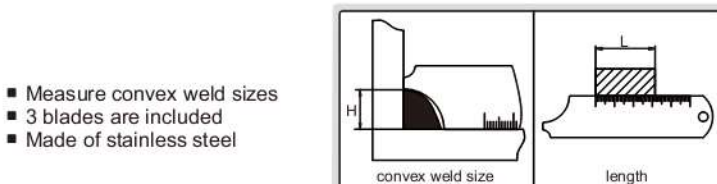
4836-2

- Measure concave and convex weld sizes
- 7 blades are included
- Made of stainless steel

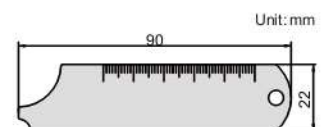
Code	Size	Accuracy
4836-1	3mm, 4mm, 5mm, 6mm, 8mm, 9mm, 10mm, 11mm, 12mm, 14mm, 16mm, 19mm, 22mm, 25mm	±0.5mm
4836-2	1/8" (3.2mm), 3/16" (4.8mm), 1/4" (6.4mm), 5/16" (7.9mm), 3/8" (9.5mm), 7/16" (11.1mm), 1/2" (12.7mm), 5/8" (15.9mm), 3/4" (19.1mm), 7/8" (22.2mm), 1" (25.4mm)	±0.02" (0.5mm)



FILLET WELDING GAGE



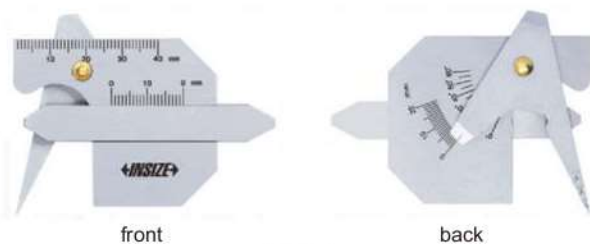
4847-1



- Measure convex weld sizes
- 3 blades are included
- Made of stainless steel

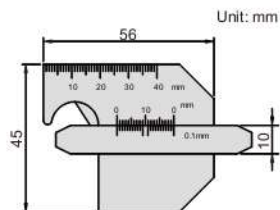
Code	Measurement	Range	Graduation	Accuracy
4847-1	convex weld size	4, 6, 8, 10, 12, 14mm	—	±0.5mm
	length	0 - 50mm	1mm	±0.5mm

WELDING GAGE



front

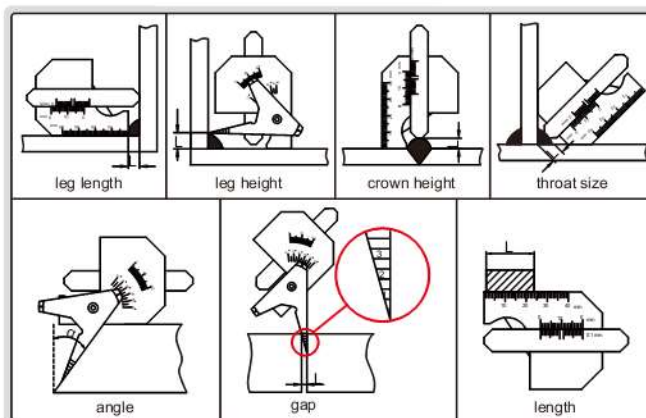
back

6832-1


Unit: mm

- Made of stainless steel
- Stain chrome plated surface

Code	Measurement	Range	Graduation	Accuracy
6832-1	leg length	0-10mm	0.1mm	±0.1mm
	leg height	0-20mm	1mm	±0.5mm
	crown height	0-10mm	0.1mm	±0.1mm
	throat size	0-10mm	0.1mm	±0.1mm
	angle	0°-60°	5°	±1°
	gap	1-3.5mm	0.5mm	±0.5mm
	length	0-40mm	1mm	±0.5mm



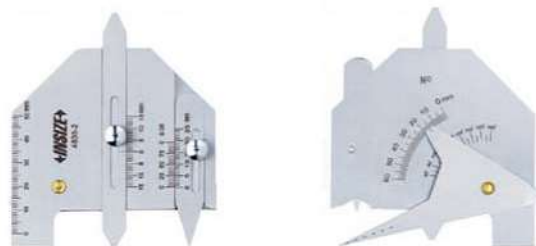
WELDING GAGES



front

4838-1

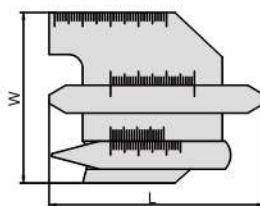
back



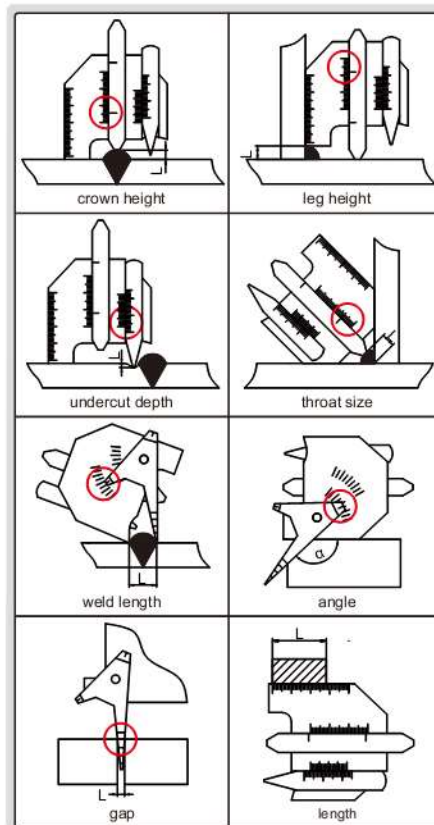
front

4838-2

back

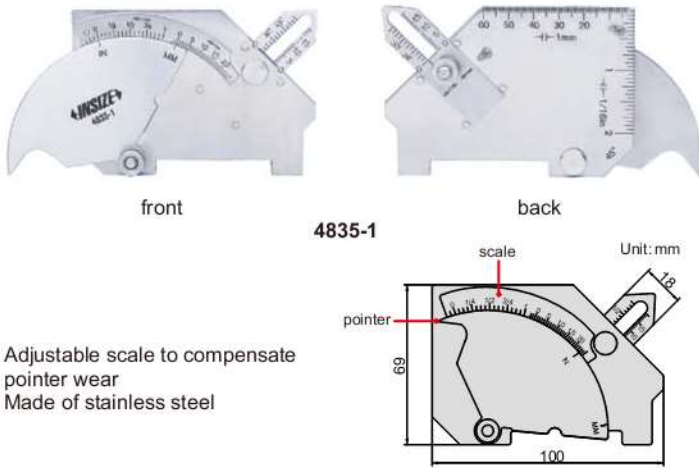


- Made of stainless steel



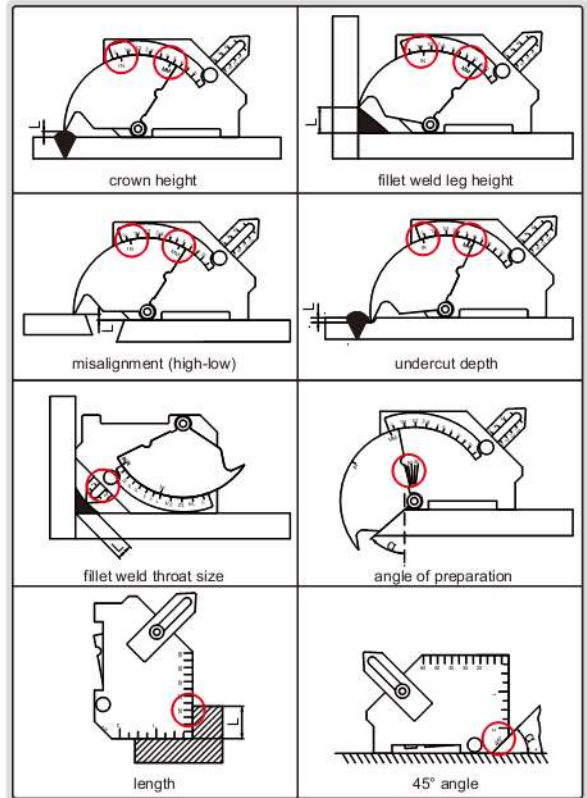
Code	4838-1			4838-2			
	Measurement	Range	Graduation	Accuracy	Range	Graduation	Accuracy
	crown height	0-10mm	1mm	±0.5mm	0-15mm	1mm	±0.5mm
	leg height	0-14mm	1mm	±0.5mm	0-15mm	1mm	±0.5mm
	undercut depth	0-5mm	0.05mm	±0.05mm	0-5mm	0.05mm	±0.05mm
	throat size	0-13mm	1mm	±0.5mm	0-13mm	1mm	±0.5mm
	weld length	0-40mm	1mm	±1mm	0-60mm	1mm	±1mm
	angle	90°-150°	5°	±1°	80°-160°	5°	±1°
	gap	0.5-5mm	1mm	±0.5mm	1-6mm	1mm	±0.5mm
	length	0-40mm	1mm	±0.5mm	0-50mm	1mm	±0.5mm
	LxW	62x77mm			99x84mm		

WELDING GAGE

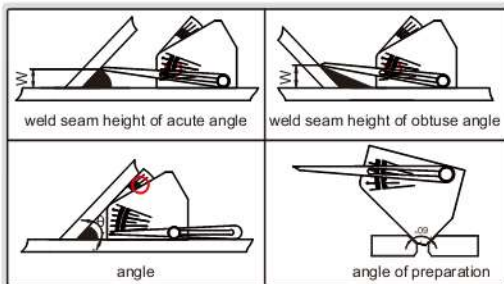


- Adjustable scale to compensate pointer wear
- Made of stainless steel

Code	Measurement	Range	Graduation	Accuracy
4835-1	crown height	0-25mm (0-1")	1mm (1/16")	±0.5mm
	fillet weld leg height	0-25mm (0-1")	1mm (1/16")	±0.5mm
	misalignment (high-low)	0-25mm (0-1")	1mm (1/16")	±0.5mm
	undercut depth	0-2mm (0-1/8")	1mm (1/16")	±0.5mm
	fillet weld throat size	0-20mm (0-3/4")	1mm (1/16")	±0.5mm
	angle of preparation	0-60°	5°	±1°
	length	0-60mm (0-2")	1mm (1/16")	±0.5mm
	45° angle	—	—	±1°



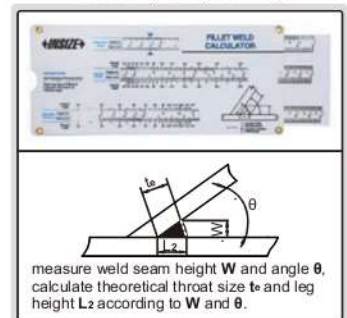
FILLET WELDING GAGE



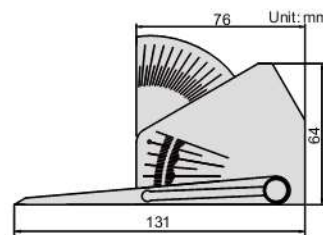
4846-1

- Calculating card is included
- Made of stainless steel

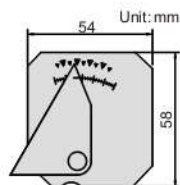
calculating card (included)



Code	Measurement	Range	Graduation	Accuracy
4846-1	weld seam height W	0-50mm/0-2"	2mm/.050"	±1mm
	angle θ	30°- 90°	2.5°	±1°
	60° angle	—	—	±0.5°



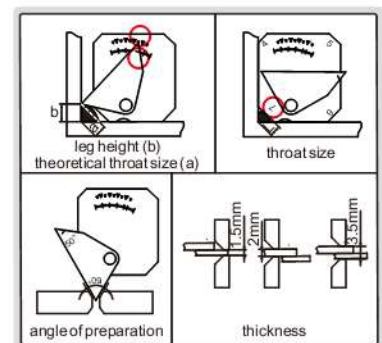
WELDING GAGE



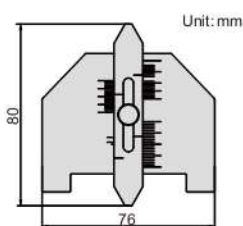
4850-1

- Made of stainless steel

Code	Measurement	Range	Graduation	Accuracy
4850-1	leg height (b)	2-12mm	1mm	±0.5mm
	theoretical throat size (a)	0-18mm	1mm	±0.5mm
	throat size	4, 5, 6, 7mm	—	±0.5mm
	angle of preparation	50°, 60°	—	±1°
	thickness	1.5, 2, 3.5mm	—	±0.2mm

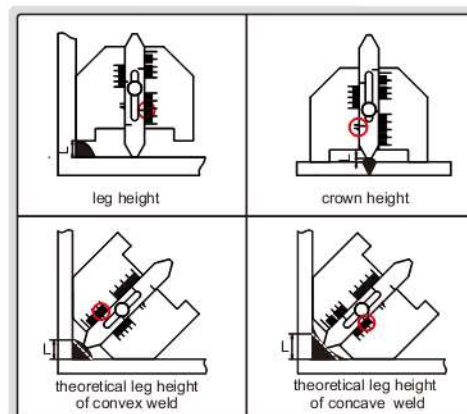


WELDING GAGE



4851-1

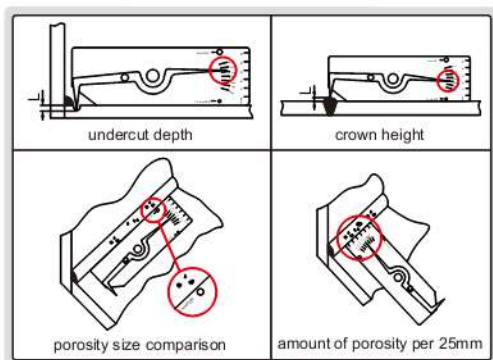
- Made of stainless steel



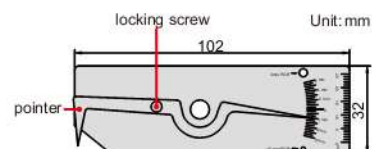
Code	Measurement	Range	Graduation	Accuracy
4851-1	leg height	0-20mm	1mm	±0.5mm
	crown height	0-3mm	—	±0.5mm
	theoretical leg height of convex weld	0-20mm	1mm	±0.5mm
	theoretical leg height of concave weld	0-20mm	1mm	±0.5mm

WELDING GAGE

- Pointer can be locked for later reference
- Made of stainless steel



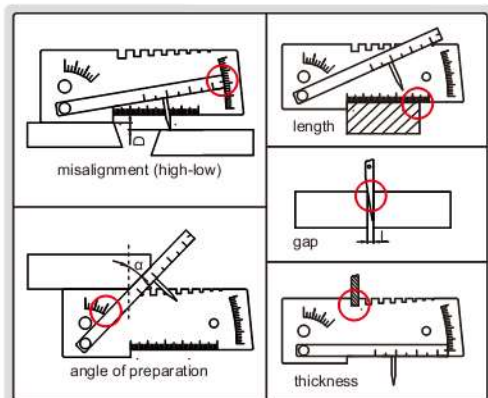
4834-1



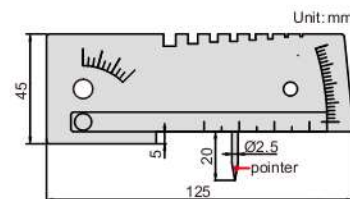
Code	Measurement	Range	Graduation	Accuracy
4834-1	undercut depth	0-6mm	0.5mm	±0.5mm
	crown height	0-6mm	0.5mm	±0.5mm
	porosity size comparison	1.5mm, 3mm	—	±0.2mm
	amount of porosity per 25mm	25mm	1mm	—

WELDING GAGE

- Made of stainless steel

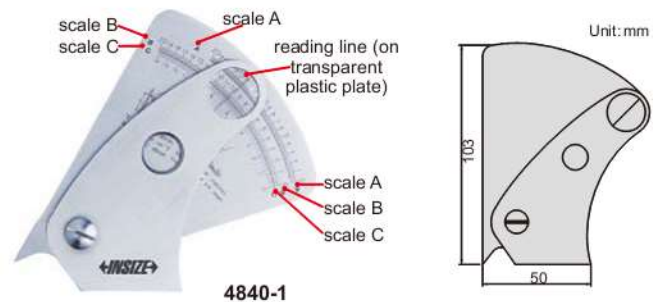
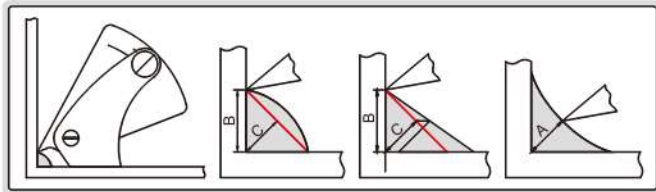


4848-1



Code	Measurement	Range	Graduation	Accuracy
4848-1	misalignment (high-low)	-5mm~+15mm	1mm	±0.5mm
	angle of preparation	0°-45°	5°	±2.5°
	length	0-50mm	1mm	±0.5mm
	gap	1-4mm	0.5mm	±0.25mm
	thickness	1, 1.2, 2.0, 2.5, 3.0, 3.25, 4.0, 5.0mm	—	±0.1mm

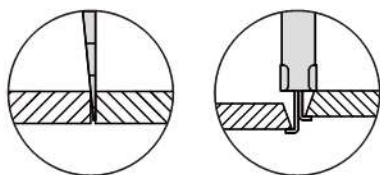
WELDING GAGE



■ Made of stainless steel

Code	Graduation	Accuracy
4840-1	0.2mm	±0.3mm

PIPE WELDING GAGE



fit-up gap

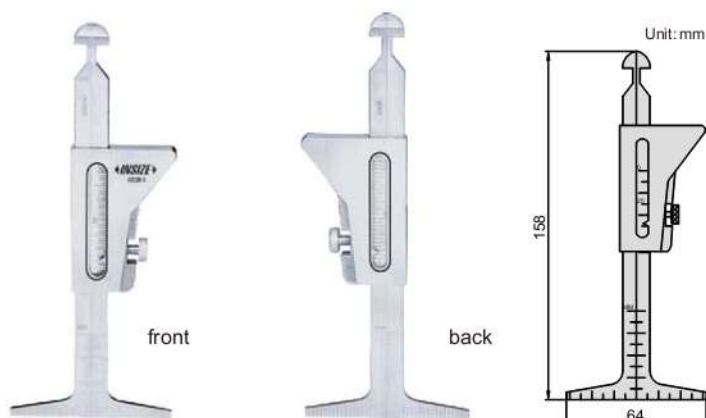
internal misalignment

■ Made of stainless steel

Code	Measurement	Range	Graduation	Accuracy
4841-1	internal misalignment	0-30mm	1mm	±0.5mm
	fit-up gap	0.7-4mm	0.1mm	±0.1mm



PIPE WELDING GAGE



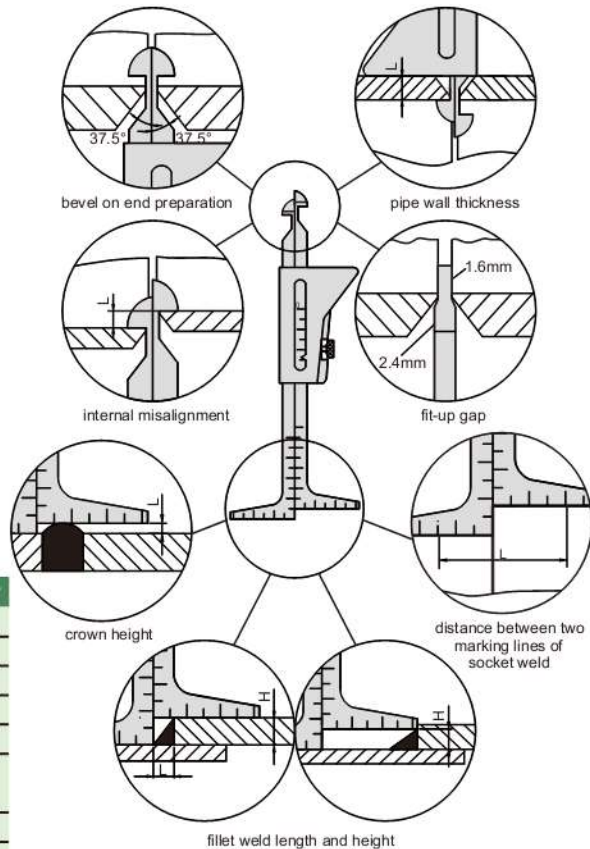
front

back

4839-1

■ Made of stainless steel

Code	Measurement	Range	Graduation	Accuracy
4839-1	bevel on end preparation	37.5°	—	±1°
	pipe wall thickness	0-45mm (0-1-3/4")	1mm (1/16")	±0.5mm
	internal misalignment	0-35mm (0-1-3/8")	1mm (1/32")	±0.5mm
	fit-up gap	1.6mm, 2.4mm	—	±0.1mm
	crown height	0-35mm (0-1-3/8")	1mm (1/32")	±0.5mm
	distance between two marking lines of socket weld	0-60mm (0-2-3/8")	1mm (1/16")	±0.5mm
	fillet weld length	0-30mm (0-1-1/4")	1mm (1/16")	±0.5mm
	fillet weld height	0-35mm (0-1-3/8")	1mm (1/32")	±0.5mm



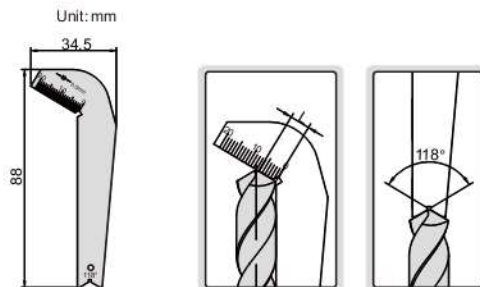
DRILL POINT GAGE

- For twist drills with 118° angle, to check if the center of tip is concentric with the drill body
- Made of stainless steel

Code	Accuracy	
	Angle	Length
4843-1	±0.5°	±0.5mm



4843-1



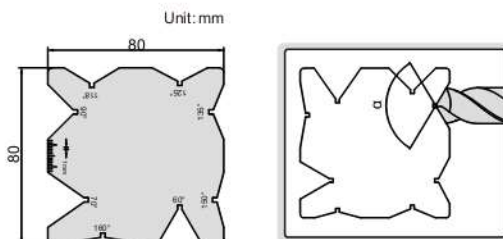
DRILL ANGLE GAGE

- Check drills with angle 60°, 70°, 90°, 118°, 125°, 135°, 150° or 160°
- Made of stainless steel

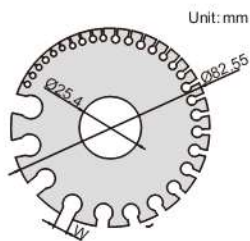
Code	Accuracy
4842-1	±0.5°



4842-1



AMERICAN STANDARD WIRE GAGE



Unit: mm



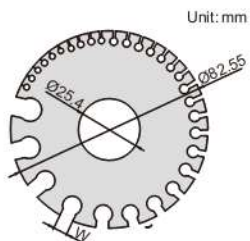
4808

- For gaging non-ferrous wire and metals such as copper, brass and aluminum
- Hardened and satin chrome finish

Code	Range
4808	0-36 (8.250-0.127mm/.3249-.0050")

No.	W	No.	W	No.	W
0	8.250mm (.3249")	13	1.820mm (.0720")	26	0.404mm (.0159")
1	7.350mm (.2893")	14	1.630mm (.0641")	27	0.361mm (.0142")
2	6.540mm (.2576")	15	1.450mm (.0571")	28	0.320mm (.0126")
3	5.830mm (.2294")	16	1.290mm (.0508")	29	0.287mm (.0113")
4	5.190mm (.2043")	17	1.150mm (.0453")	30	0.254mm (.0100")
5	4.620mm (.1819")	18	1.020mm (.0403")	31	0.226mm (.0089")
6	4.110mm (.1620")	19	0.912mm (.0359")	32	0.203mm (.0080")
7	3.670mm (.1443")	20	0.813mm (.0320")	33	0.180mm (.0071")
8	3.260mm (.1285")	21	0.724mm (.0285")	34	0.160mm (.0063")
9	2.910mm (.1144")	22	0.643mm (.0253")	35	0.142mm (.0056")
10	2.590mm (.1019")	23	0.574mm (.0226")	36	0.127mm (.0050")
11	2.300mm (.0907")	24	0.511mm (.0201")		
12	2.050mm (.0808")	25	0.440mm (.0179")		

U.S. STANDARD SHEET METAL GAGE



Unit: mm



4809

- For gaging sheet metal, plate iron and steel
- Hardened and satin chrome finish

Code	Range
4809	0-36 (7.938-0.179mm/.3125-.0070")

No.	W	No.	W	No.	W
0	7.938mm (.3125")	13	2.381mm (.0938")	26	0.476mm (.0188")
1	7.144mm (.2813")	14	1.984mm (.0781")	27	0.437mm (.0172")
2	6.747mm (.2656")	15	1.786mm (.0703")	28	0.397mm (.0156")
3	6.350mm (.2500")	16	1.588mm (.0625")	29	0.357mm (.0141")
4	5.953mm (.2344")	17	1.429mm (.0563")	30	0.318mm (.0125")
5	5.556mm (.2188")	18	1.270mm (.0500")	31	0.278mm (.0109")
6	5.159mm (.2031")	19	1.111mm (.0438")	32	0.258mm (.0102")
7	4.763mm (.1875")	20	0.953mm (.0375")	33	0.238mm (.0094")
8	4.366mm (.1719")	21	0.873mm (.0344")	34	0.218mm (.0086")
9	3.969mm (.1563")	22	0.794mm (.0313")	35	0.198mm (.0078")
10	3.572mm (.1406")	23	0.714mm (.0281")	36	0.179mm (.0070")
11	3.175mm (.1250")	24	0.635mm (.0250")		
12	2.778mm (.1094")	25	0.556mm (.0219")		