

USE • Measurement of gap width

MATERIAL

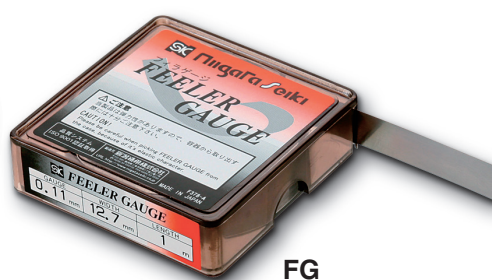
- SFG series : Stainless steel
- FG series : Carbon tool steel (Hardened)

FEATURES

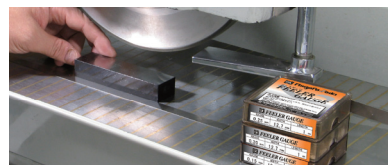
- Use for assembly or adjustment of automotive engine components or other machines by cutting it to necessary size
- Leaf width: 12.7mm
- 3m and 5m also available(FG series)



SFG



FG



SFG series (Stainless Steel)

Order No.	Model No.	Size (mm)	Leaf Width (mm)	Accuracy (mm)	Case size (mm)	Weight
007245	SFG-005-1	0.005×1m	12.7	±0.004	77×77×22	40g
007251	SFG-01-1	0.01 ×1m				
007252	SFG-02-1	0.02 ×1m				
007381	SFG-03-1	0.03 ×1m		±0.005		
007382	SFG-04-1	0.04 ×1m				
007383	SFG-05-1	0.05 ×1m				
007384	SFG-06-1	0.06 ×1m				
007385	SFG-07-1	0.07 ×1m				
007386	SFG-08-1	0.08 ×1m				
007387	SFG-09-1	0.09 ×1m				
007388	SFG-10-1	0.10 ×1m		±0.006		50g

BLOCK GAUGES

PIN GAUGES

PIN GAUGE ACCESSORIES

PIN VISE

FG series (Carbon Tool Steel)

Order No.	Model No.	Size (mm)	Leaf Width (mm)	Accuracy (mm)	Case size (mm)	Weight	
007253	FG-03-1	0.03 ×1m	12.7	±0.005	77×77×22	40g	
007254	FG-04-1	0.04 ×1m					
007255	FG-05-1	0.05 ×1m					
007256	FG-06-1	0.06 ×1m					
007257	FG-07-1	0.07 ×1m					
007258	FG-08-1	0.08 ×1m					
007259	FG-09-1	0.09 ×1m					
007260	FG-10-1	0.10 ×1m					
007261	FG-11-1	0.11 ×1m		±0.01		77×77×22	50g
007262	FG-12-1	0.12 ×1m					
007263	FG-13-1	0.13 ×1m					
007264	FG-14-1	0.14 ×1m					
007265	FG-15-1	0.15 ×1m					
007270	FG-20-1	0.20 ×1m					
007275	FG-25-1	0.25 ×1m					
007280	FG-30-1	0.30 ×1m					
007282	FG-35-1	0.35 ×1m		±0.012	115×115×22		60g
007284	FG-40-1	0.40 ×1m					
007286	FG-45-1	0.45 ×1m					
007287	FG-50-1	0.50 ×1m					
007289	FG-60-1	0.60 ×1m		±0.02	—		60g
007291	FG-70-1	0.70 ×1m					
007292	FG-80-1	0.80 ×1m					
007293	FG-90-1	0.90 ×1m					
007294	FG-00-1	1.00 ×1m					

GAUGES

RING GAUGES

PLUG GAUGES

LIMIT GAUGES

THICKNESS GAUGES

TAPER GAUGES

WELDING GAUGES

OTHER GAUGES



THICKNESS GAUGE



USE

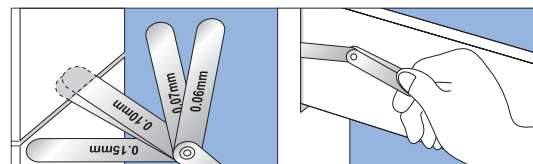
- Measurement of gap width

MATERIAL

- Carbon tool steel

FEATURES

- Use for precise spacing inspection by inserting into the gap between two flat surfaces
- Indispensable instrument for measuring gap between piston and cylinder of automotive engine
- Leaf width 12.7mm



※Leaves can be combined for a wide range of measurements

ACCURACY

Leaf size (mm)	Tolerance (mm)
0.01~0.06	±0.005
0.07~0.10	±0.01
0.11~0.35	±0.015
0.40~0.60	±0.02
0.70~3.00	±0.035

Order No.	Model No.	Leaf Length (mm)	Pieces/ Set	Nominal Size (mm)	Weight
111032	172MA	75	9	0.04 0.05 0.06 0.07 0.08 0.10 0.15 0.20 0.30	30g
111033	172MB	100			30g
111034	172MC	150			50g
110970	172MD	230			70g
110971	172ME	300	10	0.03 0.04 0.05 0.08 0.10 0.15 0.20 0.25 0.30 0.40	90g
110972	100MR	100			40g
110973	150MR	150	10	0.01 0.02 0.03 0.04 0.05 0.06 0.07 0.08 0.09 0.10	60g
110974	100MK	100			30g
110975	150MK	150	19	0.03 0.04 0.05 0.06 0.07 0.08 0.09 0.10 0.15 0.20	40g
111038	60M	75			60g
111039	100MY	100			80g
111040	150MY	150			120g
111035	65M	75	25	0.03 0.04 0.05 0.06 0.07 0.08 0.09 0.10 0.11 0.12	80g
111036	100MZ	100			100g
111037	150MZ	150			150g
111031	72M	75	12	0.04 0.05 0.06 0.07 0.08 0.10 0.15 0.20 0.30 1.00	70g
111044	100MT	100			100g
111045	150MT	150			140g
110976	100ML	100	19	0.01 0.02 0.03 0.04 0.05 0.06 0.07 0.08 0.09 0.10	80g
110977	150ML	150			120g
110978	80M	75	13	0.03 0.04 0.05 0.06 0.07 0.08 0.10 0.15 0.20 0.30	60g
111046	100MX	100			90g
111047	150MX	150			140g
111048	100MH	100	10	0.10 0.20 0.30 0.40 0.50 0.60 0.70 0.80 0.90 1.00	80g
111049	150MH	150			110g

THICKNESS GAUGES Leaf



S100-05

0.50mm

1.00mm

S150-10

MATERIAL

- Carbon tool steel

SPECIFICATIONS

- Leaf width : 12.7mm

■ Leaf Length : 100mm

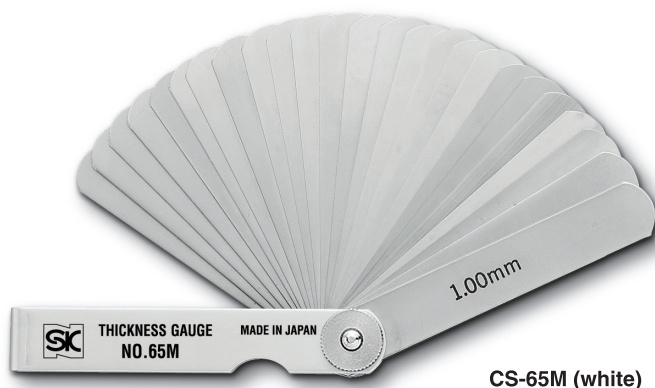
Order No.	Model No.	Thickness (mm)
110801	S100-001	0.01
110802	S100-002	0.02
110803	S100-003	0.03
110804	S100-004	0.04
110805	S100-005	0.05
110806	S100-006	0.06
110807	S100-007	0.07
110808	S100-008	0.08
110809	S100-009	0.09
110810	S100-01	0.10
110811	S100-02	0.20
110812	S100-03	0.30
110813	S100-04	0.40
110814	S100-05	0.50
110815	S100-06	0.60
110816	S100-07	0.70
110817	S100-08	0.80
110818	S100-09	0.90
110819	S100-10	1.00

■ Leaf Length : 150mm

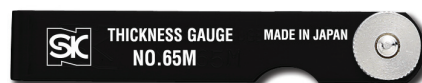
Order No.	Model No.	Thickness (mm)
110820	S150-001	0.01
110821	S150-002	0.02
110822	S150-003	0.03
110823	S150-004	0.04
110824	S150-005	0.05
110825	S150-006	0.06
110826	S150-007	0.07
110827	S150-008	0.08
110828	S150-009	0.09
110829	S150-01	0.10
110830	S150-02	0.20
110831	S150-03	0.30
110832	S150-04	0.40
110833	S150-05	0.50
110834	S150-06	0.60
110835	S150-07	0.70
110836	S150-08	0.80
110837	S150-09	0.90
110838	S150-10	1.00

Please choose from white, black and green.

• For parts other than 172 series, Threaded pivot so leaves can be removed and replaced.



CS-65M (white)



CS-65M (black)



CS-65M (green)

ACCURACY

Leaf size (mm)	Tolerance(mm)
0.01~0.06	±0.005
0.07~0.10	±0.01
0.11~0.35	±0.015
0.40~0.60	±0.02
0.70~3.00	±0.035

USE • Measurement of gap width

MATERIAL

- Carbon tool steel

FEATURES

- Use for precise spacing inspection by inserting into the gap between two flat surfaces
- Indispensable for measuring the gap between piston and cylinder of automotive engine
- Leaf width 12.7mm

※ Please specify color (White, Black, Green) when ordering

Model No.	Leaf Length (mm)	Pieces/set	Size (mm)												Weight
CS-172MA	75	9	0.04 0.05 0.06 0.07 0.08 0.10 0.15 0.20 0.30												30g
CS-172MB	100														30g
CS-172MC	150														50g
CS-172MD	230														70g
CS-172ME	300														90g
CS-100MR	100	10	0.03 0.04 0.05 0.08 0.10 0.15 0.20 0.25 0.30 0.40												40g
CS-150MR	150														60g
CS-100MK	100	10	0.01 0.02 0.03 0.04 0.05 0.06 0.07 0.08 0.09 0.10												30g
CS-150MK	150														40g
CS-60M	75	19	0.03 0.04 0.05 0.06 0.07 0.08 0.09 0.10 0.15 0.20 0.25 0.30 0.35 0.40 0.45 0.50 0.70 0.80 1.00												60g
CS-100MY	100														80g
CS-150MY	150														120g
CS-65M	75	25	0.03 0.04 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 0.60 0.70 0.80 0.90 1.00												80g
CS-100MZ	100														100g
CS-150MZ	150														150g
CS-72M	75	12	0.04 0.05 0.06 0.07 0.08 0.10 0.15 0.20 0.30 1.00 2.00 3.00												70g
CS-100MT	100														100g
CS-150MT	150														140g
CS-100ML	100	19	0.01 0.02 0.03 0.04 0.05 0.06 0.07 0.08 0.09 0.10 0.20 0.30 0.40 0.50 0.60 0.70 0.80 0.90 1.00												80g
CS-150ML	150														120g
CS-80M	75	13	0.03 0.04 0.05 0.06 0.07 0.08 0.10 0.15 0.20 0.30 1.00 2.00 3.00												60g
CS-100MX	100														90g
CS-150MX	150														140g
CS-100MH	100	10	0.10 0.20 0.30 0.40 0.50 0.60 0.70 0.80 0.90 1.00												80g
CS-150MH	150														110g

BLOCK
GAUGES

PIN
GAUGES

PIN
GAUGE
ACCESSORIES

PIN
VISE

GAUGES

RING
GAUGES

PLUG
GAUGES

LIMIT
GAUGES

THICKNESS
GAUGES

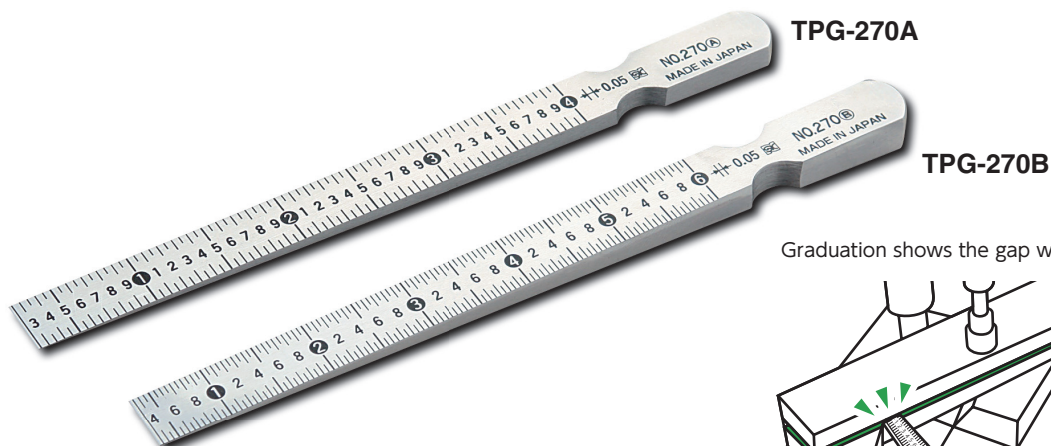
TAPER
GAUGES

WELDING
GAUGES

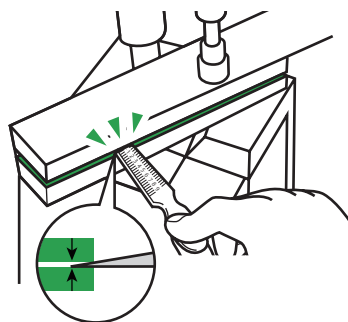
OTHER
GAUGES



TAPER GAUGES



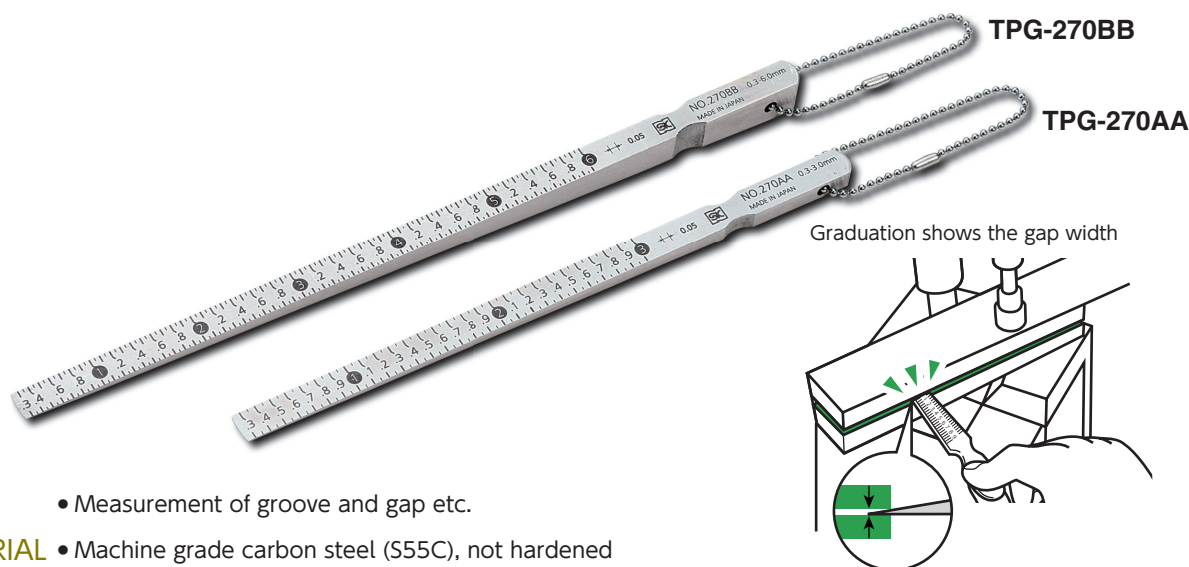
Graduation shows the gap width



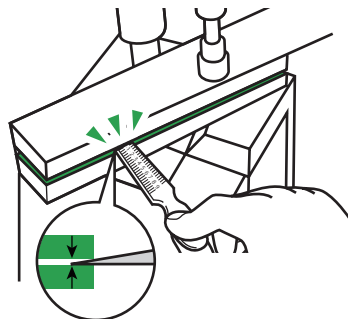
- USE** • Measurement of groove and gap etc.
- MATERIAL** • Machine grade carbon steel (S55C), not hardened
- FEATURES**
 - Use the thickness of taper to measure the gap width
 - Packed in plastic carrying case
 - Accuracy $\pm 0.04\text{mm}$
 - Satin finish

Order No.	Model No.	Standard	Measuring Range (mm)	Accuracy (mm)	Graduation (mm)	Taper Angle	Full Length (H) × (W) (mm)	Weight
007000	TPG-270A	270A	0.3~4	± 0.04	0.05	1°54'33"	160×11	95g
007001	TPG-270B	270B	0.4~6	± 0.04	0.05	2°51'45"	160×11	95g

TAPER GAUGES



Graduation shows the gap width



- USE** • Measurement of groove and gap etc.
- MATERIAL** • Machine grade carbon steel (S55C), not hardened
- FEATURES**
 - Use the thickness of taper to measure the gap width, also can use as height adjustment jig
 - Narrow width type
 - Satin finish
 - Packed in plastic carrying case
 - Ball chain attached

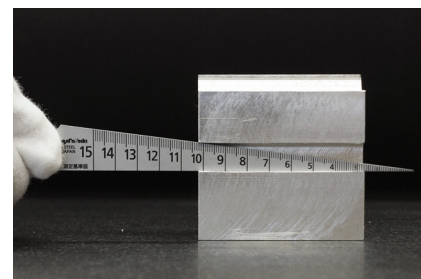
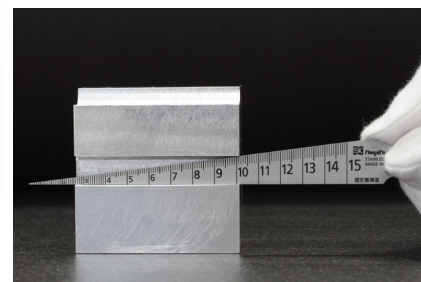
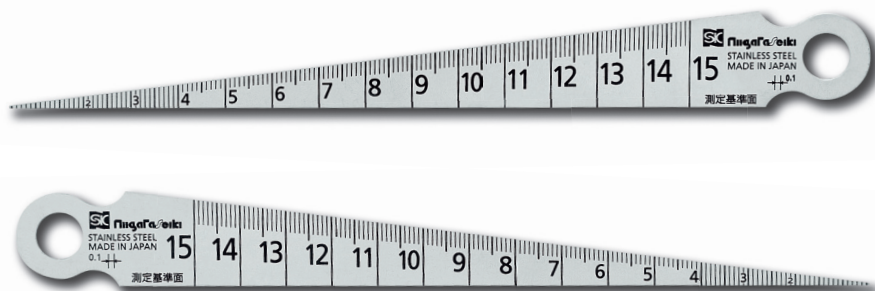
Order No.	Model No.	Standard	Measuring Range (mm)	Accuracy (mm)	Graduation (mm)	Taper Angle	Full Length (H) × (W) (mm)	Weight
007002	TPG-270AA	270AA	0.3~3	± 0.04	0.05	1°54'33"	127.5 × 6	18g
007003	TPG-270BB	270BB	0.3~6	± 0.04	0.05	2°51'45"	160 × 6	38g

RIGHT ANGLE TAPER GAUGE



GAUGES

06



- USE**
 - Measurement of groove and gap etc.
- MATERIAL**
 - Hardened stainless steel (SUS420J2)
- FEATURES**
 - Taper gauge specialized for inner width measurements. One side of gauge rests secure along with the workpiece for a stable measurement.
 - Scale is on the side of gauge to allow reading when top surface is not visible during measurement

Order No.	Model No.	Measuring Range (mm)	Accuracy (mm)	Graduation (mm)	Taper Angle	Product Dimensions Full Length x Width (mm)	Weight
007004	TPG-700T	1~15	±0.05	0.1	7° 9' 10"	148.5	10g

BLOCK GAUGES

PIN GAUGES

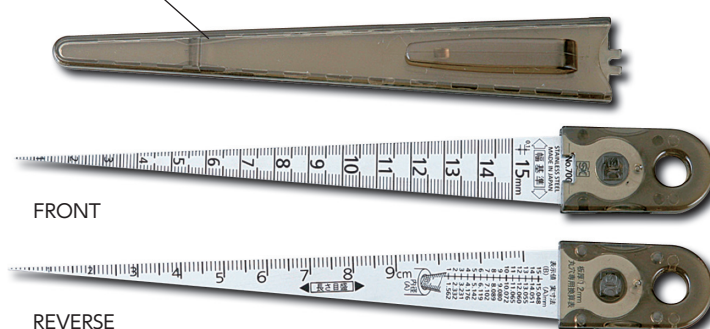
PIN GAUGE ACCESSORIES

PIN VISE

TAPER GAUGES



Clip style plastic case



Perfect for carrying in shirt pocket

- USE**
 - Use the width of taper to measure the gap width
- MATERIAL**
 - Hardened stainless steel (SUS420J2)
 - Hardness : HV480
- FEATURES**
 - Satin finish
 - Reverse side- scale graduated, hole diameter conversion table
 - Pocket clip style carrying case
 - Scale : Front side- Width scale, Reverse side - Length scale

Order No.	Model No.	Standard	Measuring Range (mm)	Accuracy (mm)	Graduation (mm)	Taper Angle	Full Length (mm)	Thickness (mm)	Weight
007008	TPG-700AC	#700 1-15 with Plastic case	1 ~ 15	± 0.05	0.1	7° 9' 10"	148.5	1.2	10g

GAUGES

RING GAUGES

PLUG GAUGES

LIMIT GAUGES

THICKNESS GAUGES

TAPER GAUGES

WELDING GAUGES

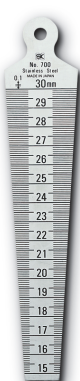
OTHER GAUGES



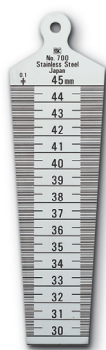
TAPER GAUGES



TPG-700A



TPG-700B

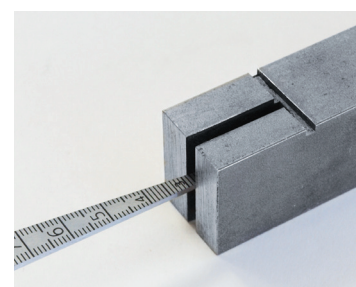


TPG-700C



TPG-700D

- USE** • Measure openings, slot width, hole size etc
- MATERIAL** • Hardened stainless steel (SUS420J2)
• Hardness : HV480
- FEATURES** • Satin finish



Measurement of gap width

Order No.	Model No.	Standard	Measuring Range (mm)	Accuracy (mm)	Graduation (mm)	Taper Angle	Full Length (mm)	Thickness (mm)	Weight
007010	TPG-700A	#700 1-15	1 ~ 15	± 0.05	0.1	7° 9' 10"	148.5	1.2	10g
007011	TPG-700B	#700 15-30	15 ~ 30	± 0.05	0.1	7° 9' 10"	153	1.2	40g
007012	TPG-700C	#700 30-45	30 ~ 45	± 0.05	0.1	7° 9' 10"	159	1.2	60g
007013	TPG-700D	#700 45-60	45 ~ 60	± 0.05	0.1	7° 9' 10"	161.5	1.2	80g



TAPER GAUGES (KAIDAN SCALE)

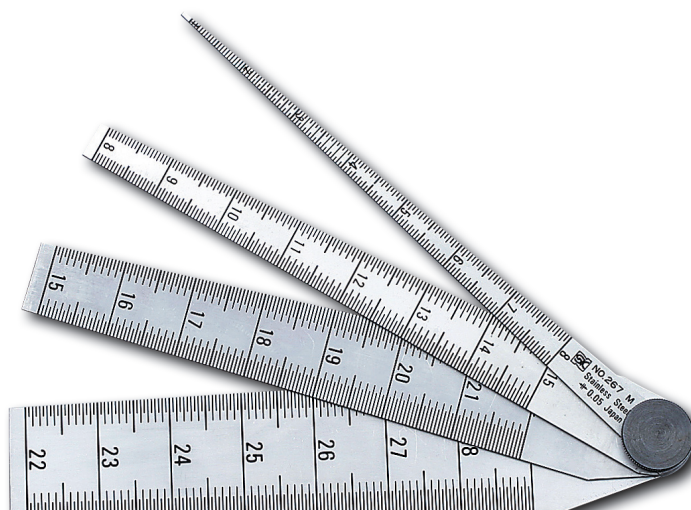


New stepped millimeter graduation prevents misreading



- USE** • Measure openings, slot width, hole size etc
- MATERIALS** • Hardened stainless steel
• Hardness: HV480
- FEATURES** • Increasing height of each mark makes it easier for eye to distinguish 1mm steps
• Sequential number style can be read directly without checking the surrounding numbers, 2mm point markings
• Satin finish
• FRONT: width scale
• BACK: length scale
• With a conversion table

Order No.	Model No.	Measurement Range (mm)	Accuracy (mm)	Graduation (mm)	Taper Angle	Full Length (mm)	Thickness (mm)	Weight
007211	TPG-700AKD	1 ~ 15	± 0.05	0.1	7° 9' 10"	148.5	1.2	10g



- USE** • Measurement of slot width and hole size etc.
- MATERIAL** • Hardened stainless steel (SUS420J2)
- FEATURES** • Use the width of taper to check the inside diameter of tubing or hole size
• Number of leaves: 4 pieces (1~8mm, 8~15mm, 15~22mm, 22~29mm)

Order No.	Model No.	Standard	Measuring Range (mm)	Accuracy (mm)	Graduation (mm)	Full Length (mm)	Thickness (mm)	Weight
007030	TPG-267M	267M	1~29	±0.05	0.05	144	1.2	80g

BLOCK GAUGES

PIN GAUGES

PIN GAUGE ACCESSORIES

PIN VISE

SLIDE TAPER GAUGES



Clip-style slide case

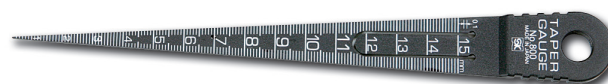


Perfect for carrying in shirt pocket

- USE** • Measurement of tubing, bore, slot width, hole size etc.
- MATERIAL**
 - Hardened stainless steel (SUS420J2)
 - Hardness : HV480
- FEATURES**
 - Satin finish
 - Clip-type slide case for safe and convenient carrying
 - Gauge tip is rounded for safety
 - Slide into case for storage

Order No.	Model No.	Standard	Measuring Range (mm)	Accuracy (mm)	Graduation (mm)	Taper Angle	Weight
007201	TPG-700SL	700SL	1~9	±0.05	0.1	7°9'10"	20g

PLASTIC TAPER GAUGES



can put in a pocket

- USE** • Measure openings, slot width, hole size, etc.
- MATERIALS** • Polycarbonate
- FEATURES**
 - Scratch resistant
 - Clip design

Order No.	Model No.	Standard	Measuring Range (mm)	Accuracy (mm)	Graduation (mm)	Taper Angle	Weight
007040	TPG-800	800	1~15	±0.2	0.1	158	5g

GAUGES

RING GAUGES

PLUG GAUGES

LIMIT GAUGES

THICKNESS GAUGES

TAPER GAUGES

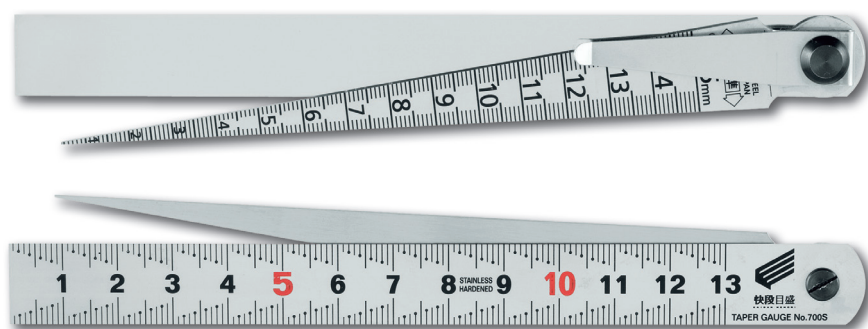
WELDING GAUGES

OTHER GAUGES



TAPER GAUGES (with KAIDAN SCALE)

Convenient set, taper gauge 700A with 130mm scale



With pocket clip, easy to carry

- USE**
 - Measurement of tubing, slot width, hole size and flange face to face dimension etc.
- MATERIALS**
 - Hardened stainless steel (SUS 420J2)
- FEATURES**
 - Convenient set, taper gauge 700A with 130mm scale. Folds safely with pocket clip, easy to carry
 - 130mm scale with stepped graduation for easy reading
 - Satin finish

Order No.	Model No.	Weight
NEW 007205	700SKD	40g

	Measurement Range (mm)	Accuracy (mm)	Graduation (mm)	Full Length (mm)	Taper Angle
Taper Gauge	1~ 15	±0.05	0.1	148.5	7° 9' 10"
Scale	0~130	±0.13	0.5	155	—

BLOCK GAUGES

PIN GAUGES

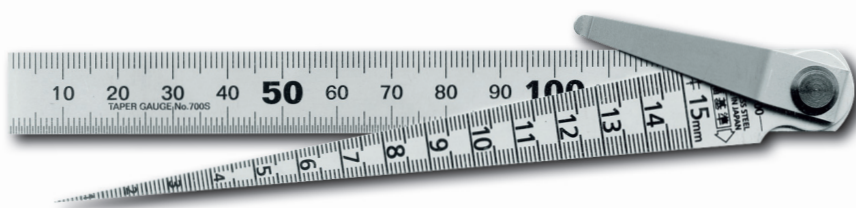
PIN GAUGE ACCESSORIES

PIN VISE

TAPER GAUGE

T RACEABILITY

Convenient set, taper gauge 700A with 130mm scale



With pocket clip, easy to carry

- USE**
 - Measurement of tubing, slot width, hole size and flange face to face dimension etc.
- MATERIALS**
 - Hardened stainless steel (SUS 420J2)
- FEATURES**
 - Convenient set, taper gauge 700A with 130mm scale. Folds safely with pocket clip, easy to carry
 - Satin finish

Order No.	Model No.	Standard	Weight
007200	TPG-700S	700S	40g

	Measurement Range (mm)	Accuracy (mm)	Graduation (mm)	Full Length (mm)	Taper Angle
Taper Gauge	1~ 15	±0.05	0.1	148.5	7° 9' 10"
Scale	0~130	±0.13	0.5	155	—

GAUGES

RING GAUGES

PLUG GAUGES

LIMIT GAUGES

THICKNESS GAUGES

TAPER GAUGES

WELDING GAUGES

OTHER GAUGES



TPG-710A



TPG-710B



TPG-710C

- USE**
 - Measure hole size or gap width
- MATERIAL**
 - TPG-710A : SK Steel, TPG-710B/710C : Carbon steel for machine structural use
 - Grip : Free cutting steel
- FEATURES**
 - Cylindrical type
 - Silver finish

Order No.	Model No.	Standard	Measuring Range (mm)	Accuracy (mm)	Graduation (mm)	Taper Angle	Full Length (mm)	Weight
007100	TPG-710A	710A	1 ~ 6	± 0.05	0.1	5° 44'	93	20g
007101	TPG-710B	710B	4 ~ 15	± 0.05	0.1	5° 44'	175	140g
007102	TPG-710C	710C	4 ~ 25	± 0.05	0.1	5° 44'	290	550g

BLOCK GAUGES

PIN GAUGES

PIN GAUGE ACCESSORIES

PIN VISE

CIRCULAR TAPER GAUGE WITH GREEN COLOR GRIP

New line-up with Green Aluminum Grip



CGTPG-710A



CGTPG-710B



CGTPG-710C

- USE**
 - Measure hole size or gap width
- MATERIALS**
 - Gauge : SK steel (CGTPG-710A), Carbon steel for machine structure use (CGTPG-710B & CGTPG-710C)
 - Grip : Anodized aluminum
- FEATURES**
 - Silver finish

Order No.	Model No.	Standard	Measuring Range (mm)	Accuracy (mm)	Graduation (mm)	Taper Angle	Full Length (mm)	Weight
007103	CGTPG-710A	710A	1 ~ 6	± 0.05	0.1	5° 44'	93	20g
007104	CGTPG-710B	710B	4 ~ 15	± 0.05	0.1	5° 44'	175	140g
007105	CGTPG-710C	710C	4 ~ 25	± 0.05	0.1	5° 44'	290	550g

GAUGES

RING GAUGES

PLUG GAUGES

LIMIT GAUGES

THICKNESS GAUGES

TAPER GAUGES

WELDING GAUGES

OTHER GAUGES



CIRCULAR TAPER GAUGES



TPG-715A

- USE**
 - Use for measuring hole size or gap width
- MATERIAL**
 - Gauge : SK Steel (Non-Hardened)
 - Case : Brass
- FEATURES**
 - Silver finish
 - Comes with a protective cap for the gauge tip

Order No.	Model No.	Standard	Measuring Range (mm)	Accuracy (mm)	Graduation (mm)	Taper Angle	Full Length (mm)	Weight
007150	TPG-715A	715A	0.1 ~ 3	± 0.05	0.1	5° 43' 29"	118.5	33g
007151	TPG-715B	715B	1 ~ 6	± 0.05	0.1	5° 43' 29"	168	80g

BLOCK GAUGES

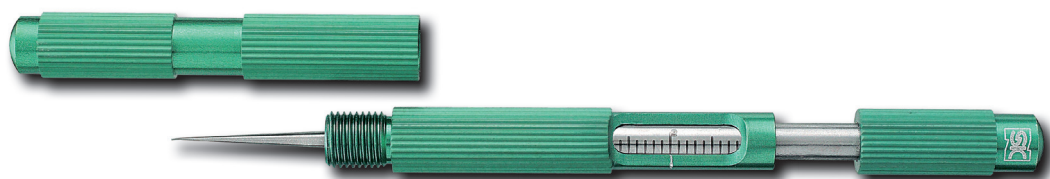
PIN GAUGES

PIN GAUGE ACCESSORIES

PIN VISE

CIRCULAR TAPER GAUGE WITH GREEN COLOR CASE

New line-up. Circular taper gauge with green case



CCTPG-715A

- USE**
 - Use for measuring hole size or gap width
- MATERIALS**
 - Gauge : SK steel
 - Anodized aluminum
- FEATURES**
 - Comes with a protective cap for the gauge tip

Order No.	Model No.	Standard	Measuring Range (mm)	Accuracy (mm)	Graduation (mm)	Taper Angle	Full Length (mm)	Weight
007152	CCTPG-715A	715A	0.1 ~ 3	± 0.05	0.1	5° 43' 29"	118.5	33g
007153	CCTPG-715B	715B	1 ~ 6	± 0.05	0.1	5° 43' 29"	168	80g

RING GAUGES

PLUG GAUGES

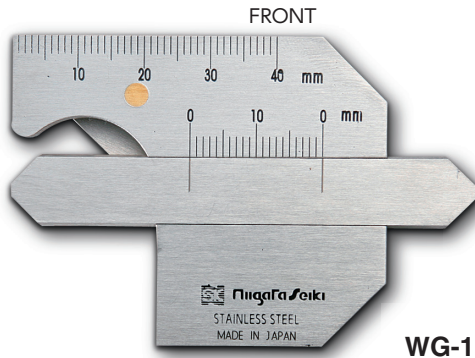
LIMIT GAUGES

THICKNESS GAUGES

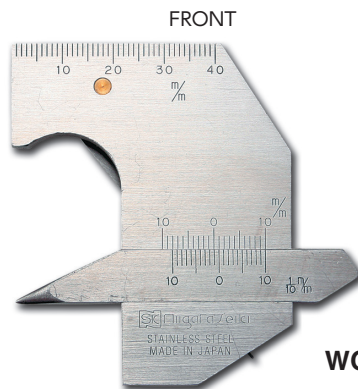
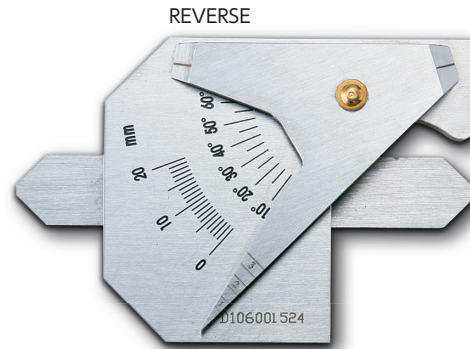
TAPER GAUGES

WELDING GAUGES

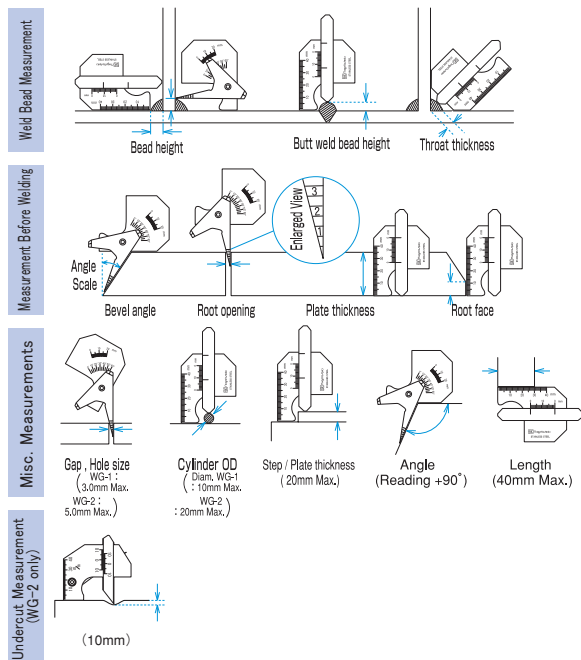
OTHER GAUGES



WG-1



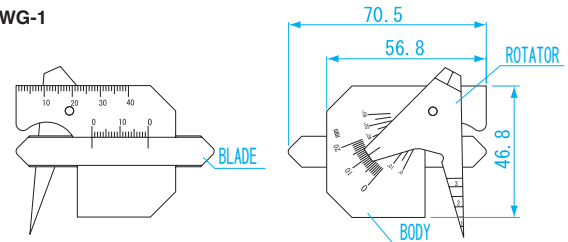
WG-2



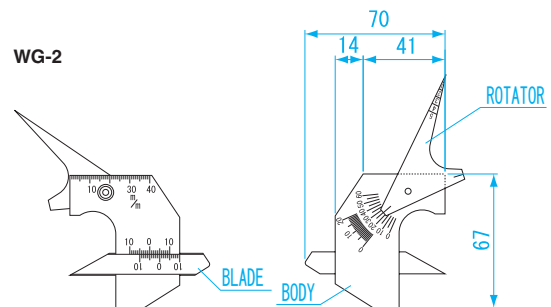
DIMENSIONS

Units : mm

WG-1



WG-2



BLOCK GAUGES

PIN GAUGES

PIN GAUGE ACCESSORIES

PIN VISE

GAUGES

RING GAUGES

PLUG GAUGES

LIMIT GAUGES

THICKNESS GAUGES

TAPER GAUGES

WELDING GAUGES

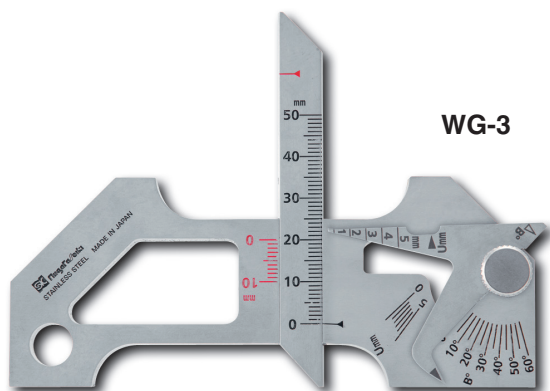
OTHER GAUGES

- USE** • For measuring fillet weld, bead weld, etc.
- MATERIAL** • Stainless steel (SUS410)
- FEATURES** • Efficient for welding and quality control
• Tough and portable (with vinyl case)

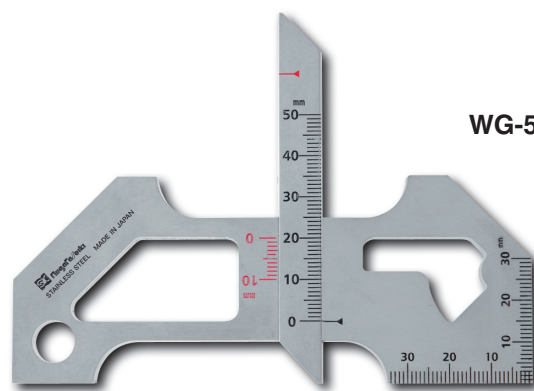
Order No.	Model No.	Measurement Accuracy for Throat Thickness of Fillet Weld	Bevel Angle Accuracy	Accuracy	Weight
007502	WG-1 (M)	± 0.4mm	± 0.7°	± 0.4mm	79g
007503	WG-2 (L)	± 0.2mm	± 0.7°	± 0.4mm	91g

WELDING GAUGE

Gauges with new features added to existing welding gauge line-up
Measure weld reinforcement height up to 50mm



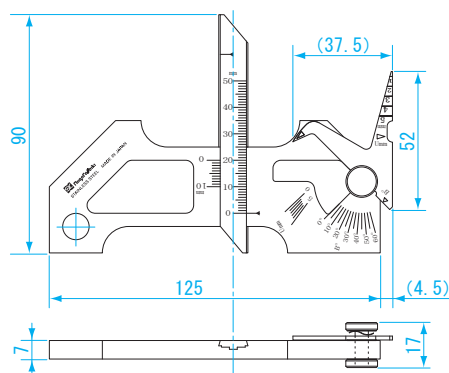
WG-3



WG-5

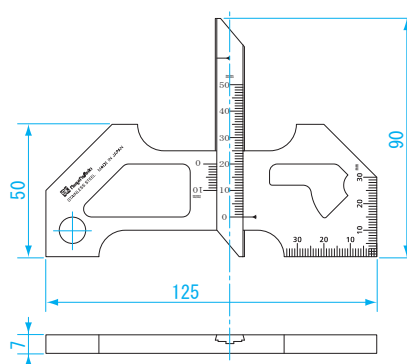
DIMENSIONS

Units : mm



DIMENSIONS

Units : mm



USE • Measurement of size and alignment of bead, gap size, undercut, etc.

MATERIAL

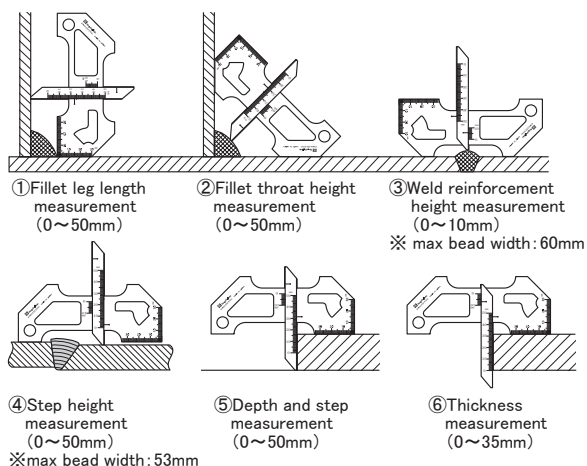
- Stainless Steel (SUS410) Silver finish

FEATURES

- Speed up and streamline the quality control of welding
- Measures weld reinforcement height up to 50mm
- Wide base for stability during measurements
- Pivoting gauge provides a variety of measurement functions
- Translucent case for easy confirmation of contents

Measurement Functions

WG-3, WG-5 capabilities



USE • Measurement of size and alignment of bead, gap size, undercut, etc.

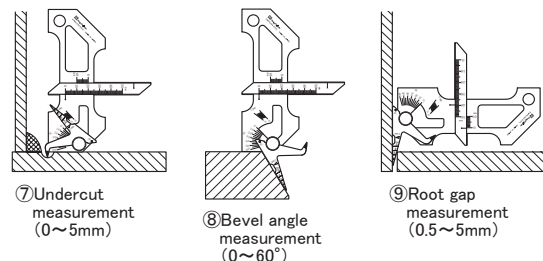
MATERIAL

- Stainless steel (SUS410) Silver finish

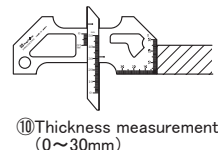
FEATURES

- Speed up and streamline the quality control of welding
- Measures weld reinforcement height up to 50mm
- Wide base for stability during measurements
- silver finish is ideal for reduced reflection when photographing measurements
- Translucent case for easy confirmation of contents

WG-3 only



WG-5 only



Order No.	Model No.	Weight
007506	WG-3	198g
007507	WG-5	187g

BLOCK GAUGES

PIN GAUGES

PIN GAUGE ACCESSORIES

PIN VISE

GAUGES

RING GAUGES

PLUG GAUGES

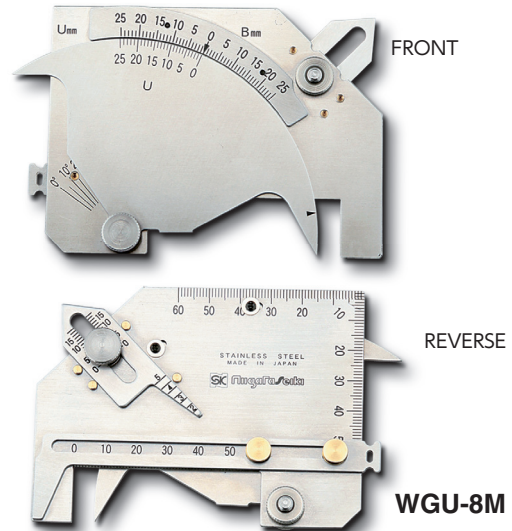
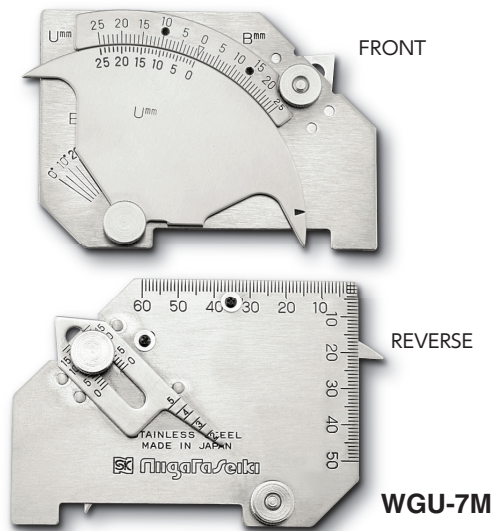
LIMIT GAUGES

THICKNESS GAUGES

TAPER GAUGES

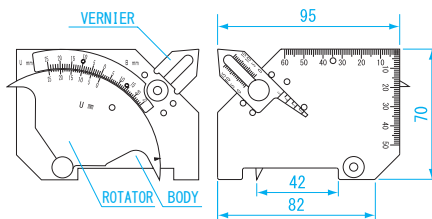
WELDING GAUGES

OTHER GAUGES



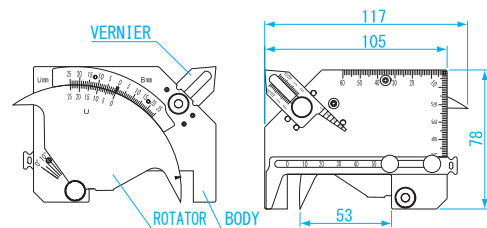
DIMENSIONS

Units : mm



DIMENSIONS

Units : mm



USE • For wide of variety welding measurements

Undercut depth/ Groove angle/ Inconsistent level
Height of fillet weld & bead weld/ Throat thickness of fillet
Root opening/ Plate thickness

MATERIAL

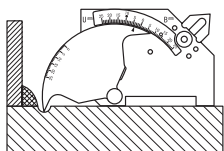
- Stainless steel (SUS410)

FEATURES

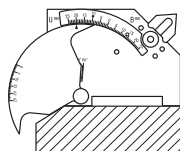
- Long usage life, rust and corrosion resistant and extremely durable as well as being light weight
- Very convenient to the welding process involving steel frame assembly such as general welding, ship building, bridge construction, etc.
- Easy reading scale

MEASUREMENT FUNCTION

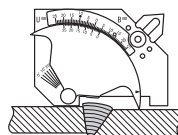
WGU-7M, WGU-8M, WGU-9M common functions



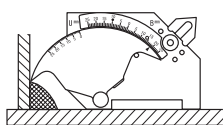
① Undercut depth (0~25mm)



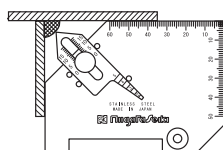
② Bevel angle (WGU-7M: 0~60°)
(WGU-8M・WGU-9M: 0~70°)



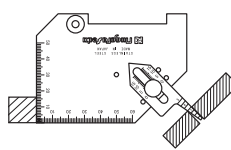
③ Bead striding width (WGU-7M: 42mm)
(WGU-8M・WGU-9M: 53mm)
Step difference (0~25mm)



④ Height of fillet & bead weld (0~25mm)

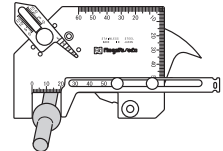


⑤ Throat thickness of fillet weld (0~15mm)

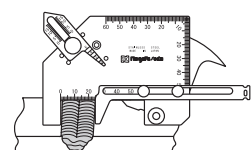


⑥ Root opening (2~5mm)
⑦ Plate thickness (scale)

WGU-8M, WGU-9M common functions



⑧ External diameter of circular workpiece
WGU-8M: up to 30mm
WGU-9M: up to 50mm



⑨ Width of bead weld (0~53mm)

Order No.	Model No.	Weight
007513	WGU-7M	150g
007514	WGU-8M	190g

BLOCK GAUGES

PIN GAUGES

PIN GAUGE ACCESSORIES

PIN VISE

GAUGES

RING GAUGES

PLUG GAUGES

LIMIT GAUGES

THICKNESS GAUGES

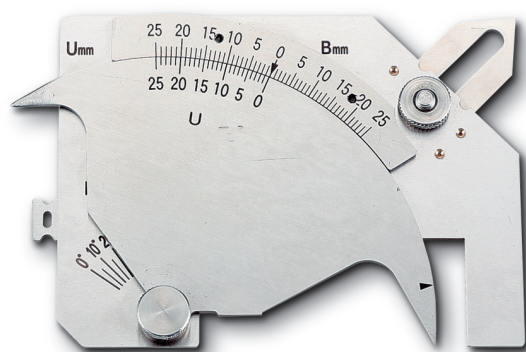
TAPER GAUGES

WELDING GAUGES

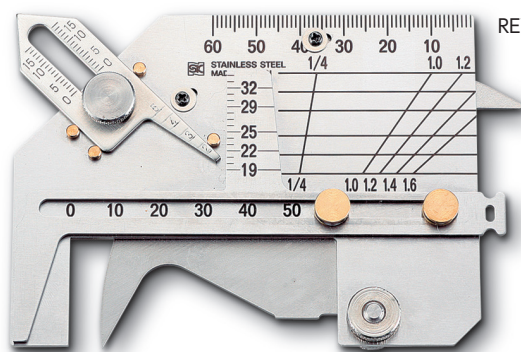
OTHER GAUGES



WELDING GAUGE



FRONT



REVERSE

USE

- For a wide variety of welding measurements

Undercut depth/ Groove angle/ Inconsistent level
Height of fillet weld & bead weld/ Throat thickness of fillet
Root opening/ Plate thickness/ External diameter of circular
workpiece/ Width of bead weld

MATERIAL

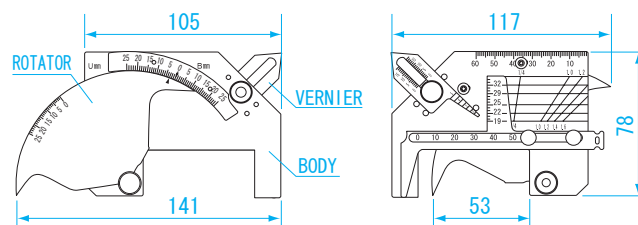
- Stainless steel (SUS420J2)

FEATURES

- Additional functions for measurement of
 - external diameter of circular workpiece
 - swelling of pressure welded reinforcing iron
 - width of bead weld
- Bead stride width: 53mm
- Bevel angle range: 0-70°
- Higher accuracy undercut measurement function

DIMENSIONS

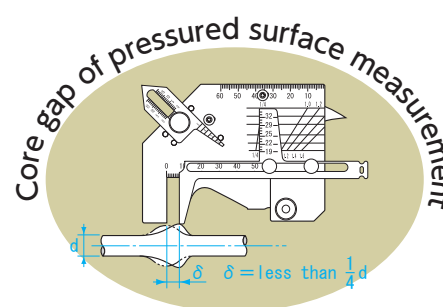
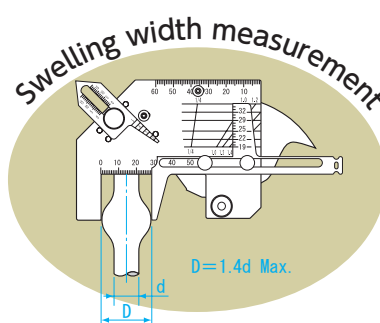
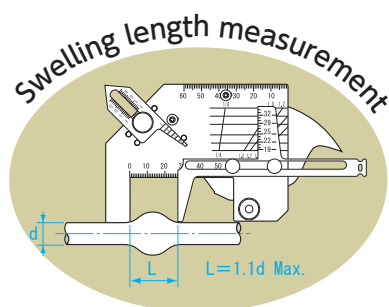
Units : mm



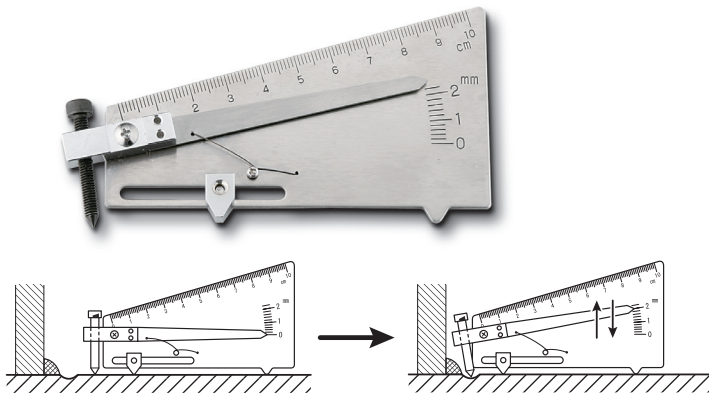
Additional functions

Provides quick way to measure the diameter of welded rebar to insure proper dimensions of weld seam.

Scale marked for material diameter ($\phi 19, 20, 25, 29, 32$) corresponding to various rebar diameters, and amount of expansion ($1/4, 1.0 \sim 1.6$). You can quickly find the ratio by reading the intersection of the two scale lines.



Order No.	Model No.	Rebar diameter (mm)	Expansion	Weight
007515	WGU-9M	$\phi 19 \sim 35$	1/4, 1.0 ~ 1.6	190g

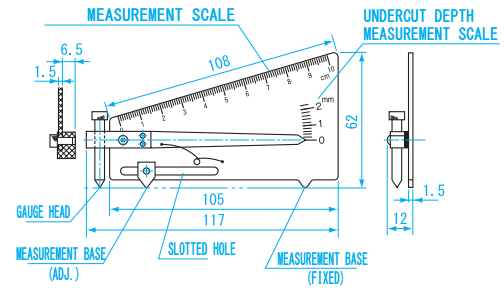


- USE** • For undercut depth and length measurement (Scale range : 0-2mm)
- MATERIAL** • Stainless steel (SUS410)
- FEATURES** • Easy to measure depth and length of undercut
• Capable of 0 adjustment with screw type of gauge head
- SPECIFICATION**
 - Measurement range
Depth: 0 ~ 2.0mm (Minimum reading: 0.2mm) Length: 0 ~ 10cm (Accuracy: ± 0.1 mm)
 - Width of measurement base: ≈ 40 mm

Order No.	Model No.	Weight
007521	WGU-2S	100g

DIMENSIONS

Units : mm



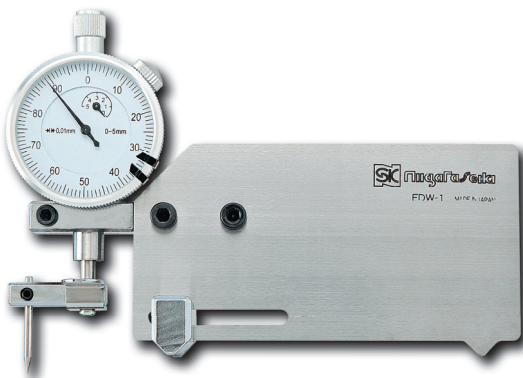
Zero Adjustment

1. Press this gauge to the measuring sample.
2. Adjust Zero point adjustment screw to indicate 0, insuring that all three points contact surface.

Measurement

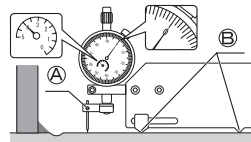
After 0 adjustment, put the tool on undercut and the spring will move indicator arm to show depth of undercut on graduation.

WELDING GAUGE

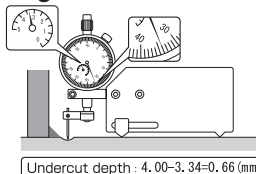


- USE** • Exclusive use for undercut measurement
- FEATURES**
 - Stainless steel (SUS420J2)
 - Easy and accurate to measure depth and length of undercut
 - Dial gauge type performs more precise measurement
 - Three point support for stable measurement
- SPECIFICATIONS**
 - Measurement range : 0 ~ 4.00mm
 - Minimum reading : 0.01mm
 - Accuracy : ± 0.04 mm
 - Width of measurement base : ≈ 23 mm

(Figure 1)

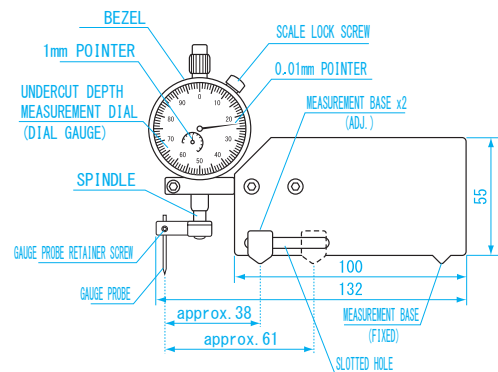


(Figure 2)



DIMENSIONS

Units : mm



Zero Adjustment

Recommended to be performed on a flat surface such as a surface plate.

- ① Loosen GAUGE PROBE RETAINER SCREW using hex key.
- ② Place Welding Gauge on surface insuring all three points of MEASUREMENT BASE are making contact (2x ADJ. 1x FIXED) and push on SPINDLE shaft. When 1mm POINTER indicates 4.00mm, tighten GAUGE PROBE RETAINER SCREW. (Insure that probe tip is in contact with the surface plate)

Measurement

- ① Place the gauge on a flat surface and rotate BEZEL to indicate 0.01mm. (Figure 1)
- ② Place PROBE tip on weld undercut point to be measured. (Figure 2)
- ③ Undercut value is obtained by subtracting Dial Gauge reading from 4.00mm.

Order No.	Model No.	Weight
007520	FDW-1	280g

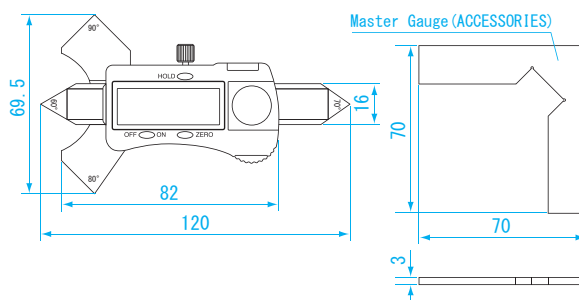
DIGITAL WELDING GAUGE

Essential for welding process. Digital welding gauge specialized for measuring fillet weld and bead weld height
Provided with zero setting master gauge



DIMENSIONS

Units : mm



USE • For measuring the size of fillet weld and bead weld

MATERIAL • Stainless steel

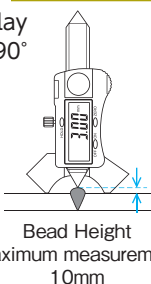
FEATURES • Easy to read with digital display
• Bevel angle: 60°, 70°, 80°, 90°
• Master gauge included
• Hold function

SPECIFICATIONS

- Throat thickness : 20mm
- Bead height : 10mm
- Operating temperature : 0 ~ 40°C

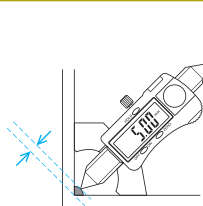
POWER • SR44 or LR44, one included for testing

Weld reinforcement height measurement

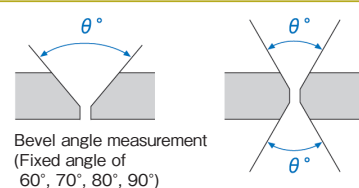


Bead Height
Maximum measurement
10mm

Measurement before welding process



Throat thickness
Maximum measurement
20mm

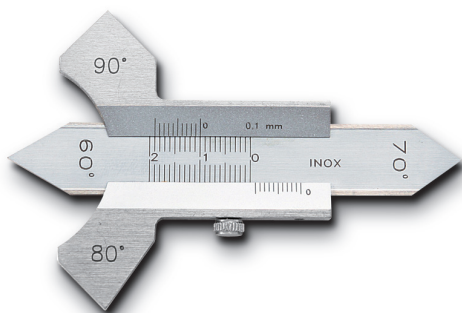


Bevel angle measurement
(Fixed angle of
60°, 70°, 80°, 90°)

Order No.	Model No.	Resolution (mm)	Accuracy※ (mm)	Weight
007526	DWG-20G	0.01	± 0.03	130g

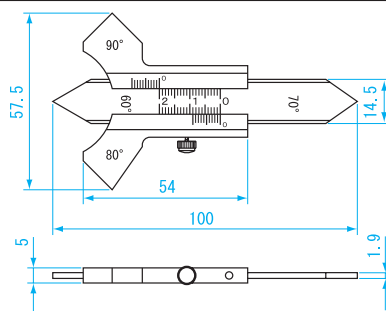
※ Quantization Error (± 1 digit) not included

WELDING GAUGE



DIMENSIONS

Units : mm



USE • Use for measuring the size of fillet weld and bead weld

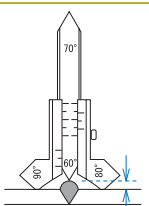
MATERIAL • Stainless steel

FEATURES • Bevel angle: 60° 70° 80° 90°

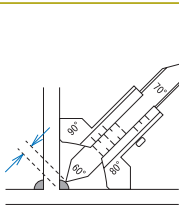
SPECIFICATIONS

- Fillet weld : 11mm
- Bead weld : 8mm
- Accuracy: ± 0.2mm
- Minimum reading : 0.1mm

Weld Bead Measurement

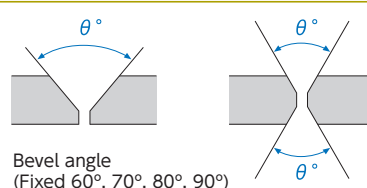


Bead height
Maximum measurement 8mm



Throat thickness
Maximum measurement 11mm

Measurement Before Welding

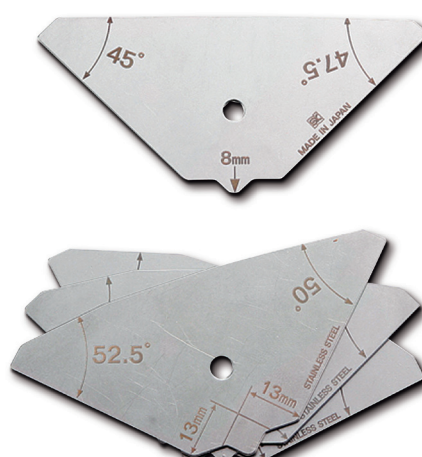


Bevel angle
(Fixed 60°, 70°, 80°, 90°)

Order No.	Model No.	Weight
007516	AWG-10	80g

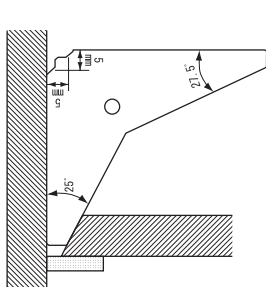


WAL2542

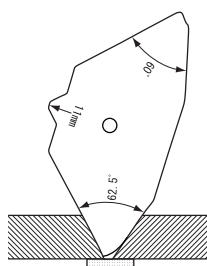


WAL4562

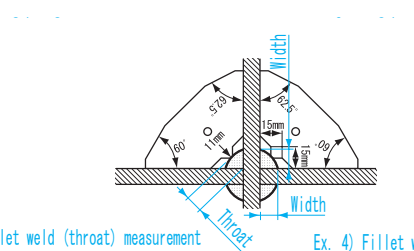
Example use



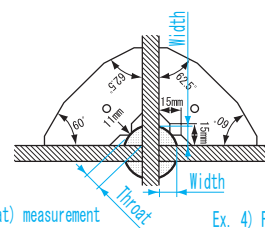
Ex. 1) Joint gap angle (inside) measurement



Ex. 2) Butt joint gap angle measurement



Ex. 3) Fillet weld (throat) measurement



Ex. 4) Fillet weld width measurement

USE • For measuring bevel angle of T-joint (interior angle), bevel angle of facing joint (interior angle), leg length (height), and throat thickness of fillet weld

MATERIAL

- SUS304

FEATURES

- Indication of size limit for easy judgement (angle step by 2.5°, throat thickness step by 1mm)
- Set of 4 pieces
- Provided with plastic case and ball chain

SPECIFICATIONS

Model No.		WAL2542				WAL4562			
Blank No.		1	2	3	4	1	2	3	4
Outline Dimension (mm)	Overall width	92				92			
	Overall height	46	45	44	43	43	44	45	46
	Plate thickness	1.5				1.5			
Material/ Finish		SUS304 /barrel semi-gloss finish				SUS304 / barrel semi-gloss finish			
Measurement Value Indication	Angle degree (Both side)	25°	30°	35°	40°	45°	50°	55°	60°
		27.5°	32.5°	37.5°	42.5°	47.5°	52.5°	57.5°	62.5°
	Throat thickness (Front)	4	5	6	7	8	9	10	11
	Leg Length (Back)	5	7	8	10	11	13	14	15
Accuracy		Fillet weld·Reinforcement±0.1mm/ Angle ±1°				Fillet weld·Reinforcement±0.1mm / Angle ±1°			

Order No.	Model No.	Weight
007550	WAL2542	100g
007551	WAL4562	120g

BLOCK GAUGES

PIN GAUGES

PIN GAUGE ACCESSORIES

PIN VISE

GAUGES

RING GAUGES

PLUG GAUGES

LIMIT GAUGES

THICKNESS GAUGES

TAPER GAUGES

WELDING GAUGES

OTHER GAUGES

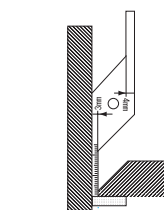
ROOT LIMIT GAUGE



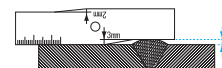
WRL310

WRL1118

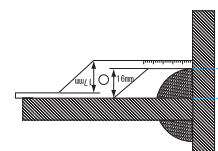
Example use



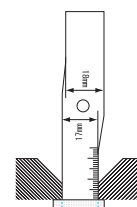
Ex. 1) T-joint root thickness measurement



Ex. 2) Butt joint reinforcement height measurement



Ex. 3) Fillet weld width measurement



Ex. 4) Butt joint root thickness measurement

USE

- Use for measuring root gap of T-joint or facing joint, leg length (height) of fillet weld and excess weld and height of facing joint

MATERIAL

- SUS304

FEATURES

- Measure with 1mm interval
- The measurement result of root thickness will be indicated on the scale
- Measurement range chosen so most frequently used dimensions are combined
- Provided with plastic case & ball chain

SPECIFICATIONS

Order No.	Model No.	Weight
007560	WRL310	60g
007561	WRL1118	90g

Model No.		WRL310				WRL1118			
Blank No.		1	2	3	4	1	2	3	4
Outline dimension (mm)	Overall width	90				90			
	Overall height	20				20			
	Plate thickness	2				2			
Material/ Finish		SUS304 / barrel semi-gloss finish				SUS304 / barrel semi-gloss finish			
Measurement Value Indication	Root gap (Front)	3·4	5·6	7·8	9·10	11·12	13·14	15·16	17·18
	Leg length-height (Back)	16·17	14·15	12·13	10·11	8·9	6·7	4·5	2·3
	Root side(Front)	20				20			
	Plate thickness	20				20			
Accuracy		±0.1mm				±0.1mm			

WELDING ELECTRODE GAUGE



※Sample of custom design

Custom Designs
with Fast Delivery

Please contact us
with request

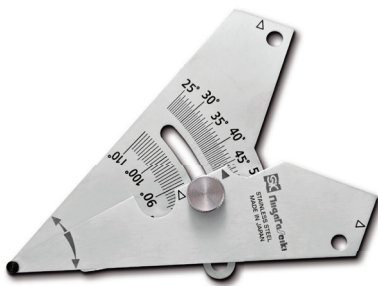
USE

- Use for measuring height of welding electrode

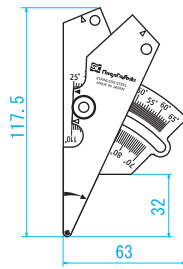
MATERIAL

- SUS420J2

Specialized for angle measurement of grooves with minimum reading 0.5°



DIMENSIONS
Units : mm



USE

- Butt angle measurement and gap angle measurement

MATERIAL

- Stainless(SUS410)

FEATURES

- Measurement of butt joint gap angle
- Sharpened tip enables measurement for root gap of 0mm, or when sheet thickness is less than 15mm
- Minimum reading 0.5°, large scale for easy reading
- T-joint gap angle can be measured avoiding weld buildup
- Non-reflective satin finish for easy to read scale
- Solid and convenient carrying.(Provided with plastic carrying case)

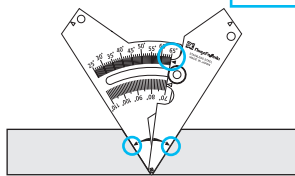
SPECIFICATIONS

- Bevel angle : 25 ~ 65° (Minimum graduation: 0.5°)
- Angle of cross weld part : 70-110°

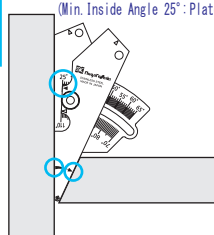
Example use

1) Butt joint gap angle measurement
(Max. Inside Angle 65° :
Plate Thickness :30mm)

• How to Read the value
for examples 1) & 2)
Angle between ◀ marks
indicated at ▶

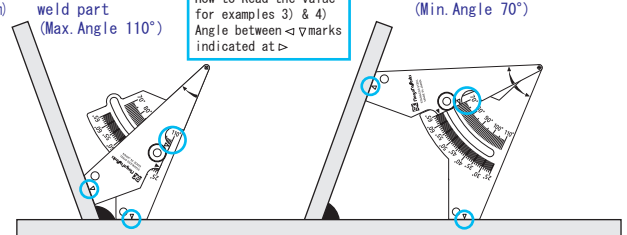


2) T-joint gap angle measurement
(Min. Inside Angle 25°:Plate Thickness: 30mm)



3) Angle of cross
weld part
(Max. Angle 110°)

• How to Read the value
for examples 3) & 4)
Angle between ◀ marks
indicated at ▶



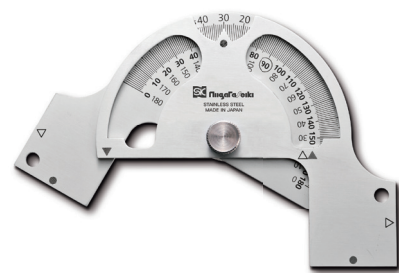
4) Angle of cross weld part
(Min. Angle 70°)

SPECIFICATIONS

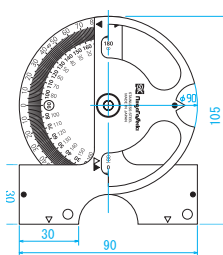
Order No.	Model No.	Accuracy of angle	Weight
007518	WGA-65	± 0.5°	73.5g

ANGLE PROTRACTOR

Specialized for angle measurement. 3 measurement points enable multiple angle measurements



DIMENSIONS
Units : mm



USE

- Measuring angles for sheet metal bending, welding flanges and butt joints, openings and bevels, scissors plates, etc.

MATERIAL

- Stainless steel (SUS410)

FEATURES

- Enables a wide range of angle measurements before and after welding process
- Direct measurement can be done without interference from swelling or weld bead
- Can measure sheet metal bends and outside angle measurements
- Non-reflective satin finish for easy to read scale
- Solid and convenient carrying (provided with plastic case)

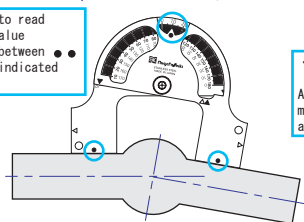
SPECIFICATIONS

- Bevel angle : Scissors angle 30-130° (Minimum graduation : 1°)
- Bending angle and angle of butt weld joint : 0 ~ 90°
- Stud and beam angle after welding : 0 ~ 180°

Example use

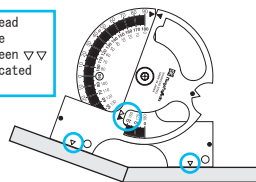
Example 1) Angle measurement of bent butt
weld (0-90°:Example indicates 10°)

• How to read
the value
Angle between ◀ marks
indicated at ▶



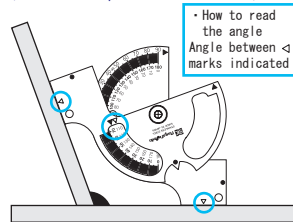
Example 2) Angle measurement of bent
Flange and metal plate (0-180°:Example
indicates 20°)

• How to read
the value
Angle between ◀ marks
indicated at ▶

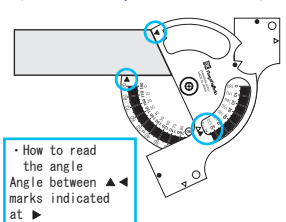


Example 3) Angle of cross weld part
(0-180°:Example indicates 110°)

• How to read
the angle
Angle between ◀ marks
indicated at ▶



Example 4) Plate bevel angle
(30-130°:Example indicates 65°)



SPECIFICATIONS

Order No.	Model No.	Accuracy of angle	Weight
007519	AP-130	± 0.5°	100g



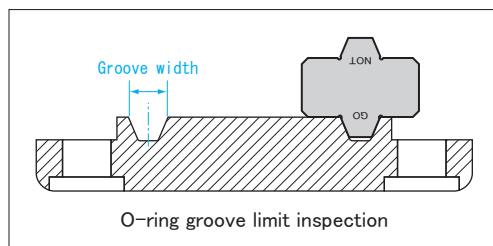
Measurement function and List

Process	No.	Categories	Figures	Applicable Model															
Machine and Assembly (Before welding)	1	T joint Gap		○	○	○	○	—	○	○	○	—	—	○	—	—	—	—	—
	2	Lap joint Gap		○	○	○	○	—	○	○	○	—	—	○	—	—	—	—	—
	3	Misalignment of Butt weld		○	○	○	○	—	○	○	○	—	—	○	—	—	—	—	—
	4	Root Openings		○	○	○	○	—	○	○	○	—	—	○	—	—	—	—	—
	5	Root gap of T-joint		—	—	—	—	—	—	—	—	—	—	○	—	—	—	—	—
	6	Root Face		—	○	○	○	○	○	○	○	○	—	○	—	—	—	—	—
	7	Bevel Angle		—	○	○	○	—	○	○	○	—	—	—	—	—	—	—	○
	8	Groove angle		—	—	—	—	—	—	—	—	—	—	—	○	○	○	○	—
	9	T-joint gap angle		—	—	—	—	—	—	—	—	—	—	—	○	—	—	○	—
	10	Edg Misalignment		—	○	○	○	○	○	○	○	—	—	—	—	—	—	—	—
After Welding	11	Leg length (height) of Fillet Weld		—	○	○	○	○	○	○	○	—	—	○	○	—	—	—	—
	12	Throat Thickness of Fillet Weld		—	○	○	○	○	○	○	○	—	—	—	○	○	○	—	—
	13	Height of Butt weld Overlay		—	○	○	○	○	○	○	○	—	—	○	—	○	○	—	—
	14	Height of T-joint weld Overlay		—	○	○	○	○	○	○	○	—	—	○	—	○	○	—	—
	15	Undercut		—	—	○	○	—	○	○	○	○	○	—	—	—	—	—	—
	16	Misalignment of Butt Weld		—	—	○	○	○	○	○	○	—	—	—	—	—	—	—	—
	17	Bending angle and angle of butt weld joint		—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	○
	18	Angle of Cross weld part		—	—	—	—	—	—	—	—	—	—	—	—	—	—	○	○
	19	Stud angle after welding		—	—	—	—	—	—	—	—	—	—	—	—	—	—	○	○
	20	Irregularity of Bead Surface		—	—	—	—	—	—	○	○	—	—	—	—	—	—	—	—
Pressure welding	21	Swelling diameter		—	—	—	—	—	—	△※	○	—	—	—	—	—	—	—	—
	22	Swelling length		—	—	—	—	—	—	△※	○	—	—	—	—	—	—	—	—
	23	Misalignment of Pressured Surface		—	—	—	—	—	—	△※	○	—	—	—	—	—	—	—	—
	24	Bending angle		—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	○

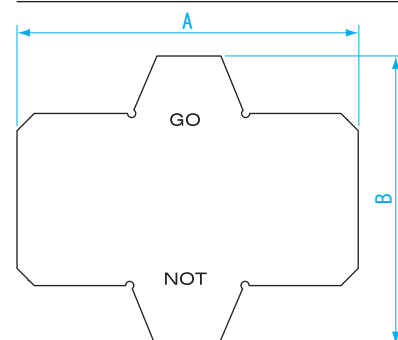
※ Measures dimension of weld, relative amount must be calculated.

SPECIFICATIONS

Model No.	Material	Scale	Height of Bead Weld	Height of Fillet Weld	Throat thickness of fillet weld	Undercut depth	Root Opening	Width of Bead Weld	Welding Bar Diameter	Length Accuracy	Beveling(groove) angle	Bending angle and angle of butt weld joint	Stud and beam angle after welding	Angle Accuracy
WG-1	Stainless steel SUS410 Plate thickness: 4.3mm	40mm	10mm	20mm	10mm	—	0.5~3mm	—	10mm	±0.4mm	0~60° Minimum reading value: 5°	—	—	±0.7°
WG-2	Stainless steel (SUS410) Plate thickness: 4.9mm			10mm Minimum reading 0.1		10mm	0.5~5mm			±0.2mm (gap measurement ±0.4mm)				
WG-3	Stainless steel SUS410	30・35mm	10mm	50mm	50mm	10mm	0.5~5mm	—	10mm	±0.4mm	0~60° Minimum reading value: 5°	—	—	±0.7°
WG-5	Plate thickness 7mm Satin finish					—	—			±0.4mm	—			
WGU-7M	Stainless steel (SUS410) Plate thickness: 1.5mm	50・60mm	25mm	25mm	15mm	25mm	2~5mm	—	—	±0.4mm (Throat thickness measurement ±0.7mm—manufacturing accuracy)	0~60° Minimum reading value: 5°	—	—	±2°
WGU-8M	Stainless steel (SUS420J2) Plate thickness: 1.5mm									30mm	0~70° Minimum reading value: 5°			
WGU-9M	Stainless steel (SUS420J2) Plate thickness: 1.5mm									50mm	—			
WGU-2S	Stainless steel (SUS410) Plate thickness: 1.5mm	100mm	—	—	—	2mm	—	—	—	±0.1mm	—	—	—	—
FDW-1	Stainless steel (SUS420J2) Plate thickness: 1.5mm	—	—	—	—	4mm	—	—	—	±0.04mm	—	—	—	—
AWG-10	Stainless steel Thickness: Body: 5mm, Blade: 1.9mm	—	8mm	—	11mm	—	—	—	—	±0.2mm	60・70・80・90° fixed	—	—	—
DWG-20	Stainless steel Thickness: Body: 5.2mm Blade: 2.7mm Display: 13.5mm		10mm	—	20mm	—	—	—	—	±0.05mm				
WRL310	Stainless steel (SUS304) Plate thickness: 2mm	20mm	10~17mm (1mm step)	10~17mm fixed (1mm step)	—	—	3~10mm fixed (1mm step)	—	—	±0.1mm	—	—	—	—
WRL1118	Stainless steel (SUS304) Plate thickness: 2mm		2~9mm (1mm step)	2~9mm fixed (1mm step)			11~18mm fixed (1mm step)			—				
WAL2542	Stainless steel (SUS304) Plate thickness: 1.5mm	—	—	5・7・8・10mm fixed	4~7mm fixed (1mm step)	—	—	—	—	±0.1mm	25・27.5・30・32.5 35・37.5・40・42.5° fixed	—	—	±1°
WAL4562	Stainless steel (SUS304) Plate thickness: 1.5mm			11・13・14・15mm fixed	8~11mm fixed (1mm step)					—	45・47.5・50・52.5 55・57.5・60・62.5° fixed			
WGA-65	Stainless steel SUS410 Plate thickness 1.5mm Satin finish	—	—	—	—	—	—	—	—	—	25~65° Minimum reading value: 0.5°	—	70~110°	±0.5°
AP-130		—	—	—	—	—	—	—	—	—	30~130° Minimum reading value: 1°	0~90°	0~180°	



DIMENSIONS



BLOCK
GAUGES

PIN
GAUGES

PIN
GAUGE
ACCESSORIES

PIN
VISE

GAUGES

Units : mm

Model No.	A	B
GSW-1	40	35
GSW-2	40	35
GSW-3	60	50
GSW-4	60	50
GSW-5	80	60
GSW-6	80	60
GSW-7	80	70

RING
GAUGES

PLUG
GAUGES

LIMIT
GAUGES

THICKNESS
GAUGES

TAPER
GAUGES

WELDING
GAUGES

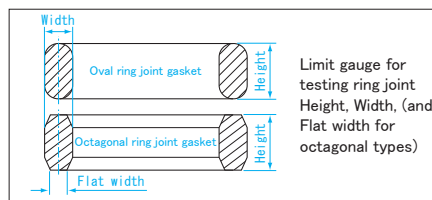
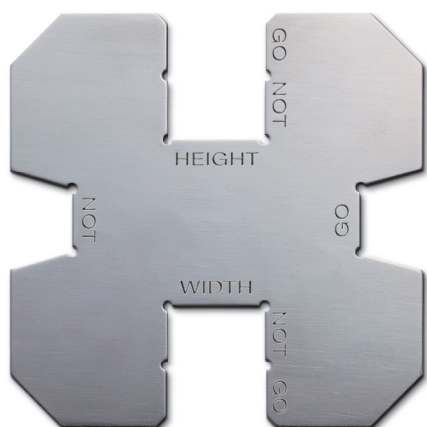
OTHER
GAUGES

- USE** • Limit gauge for measuring width of O-ring groove
- MATERIAL** • SUS420J2 (Polished finish)
- FEATURES**
 - GO/NO GO standard conforms to JPI-7S-23
 - Groove width accuracy : $\pm 0.20\text{mm}$
 - Groove depth accuracy : $\pm 0.41/0\text{mm}$
 - Groove bottom corner radius tolerance:
Less than 1.5mm $\cdots +0.8\text{mm}$
More than 1.5mm $\cdots \pm 0.8\text{mm}$
 - Angle accuracy : $\pm 0.5^\circ$

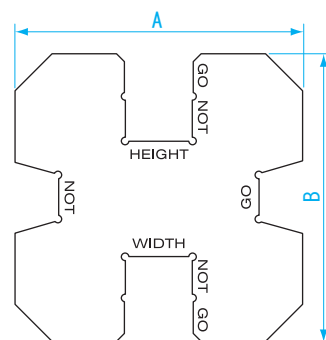
Order No.	Model No.	Compatible O-Ring No	Groove Width (mm)	Groove Depth (mm)	Groove Bottom Corner Radius	Weight
007471	GSW-1	21,23,24,26,27,30,31,34,35,37,39,41,44,45,49,53,57,61,65,69,82,84,92,99	11.91	7.92	0.8	11g
007472	GSW-2	28,32,46,73	13.49	9.52	1.5	11g
007473	GSW-3	38,50,54,62,66,77,86,87	16.66	11.13	1.5	22g
007474	GSW-4	42,47,70,74,88,89,93,94,95	19.84	12.70	1.5	22g
007475	GSW-5	51,58,96,97,98	23.01	14.27	1.5	35g
007476	GSW-6	63,78	26.97	15.88	2.3	35g
007477	GSW-7	55,67,71,100	30.18	17.48	2.3	40g



GASKET LIMIT GAUGE for width and height measurement



DIMENSIONS



Units : mm

Model No.	A	B
GST-1	80	80
GST-2	80	80
GST-3	80	80
GST-4	120	120
GST-5	120	120
GST-6	140	140
GST-7	140	140

USE

- Limit gauge for GO / NO GO testing of ring joint gaskets

MATERIAL

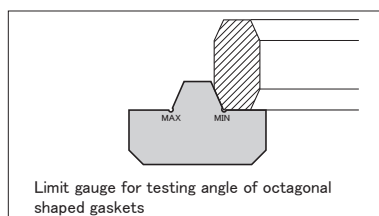
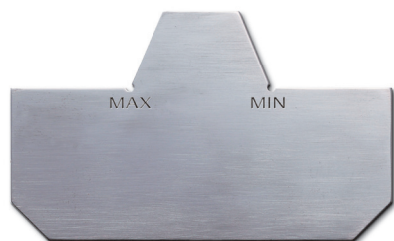
- SUS420J2 (Polished finish)

SPECIFICATIONS

- GO/NO GO standard conforms to JPI-7S-23
- Gasket width accuracy : $\pm 0.20\text{mm}$
- Gasket height accuracy : $\pm 0.5/0\text{mm}$
- Octagonal corner radius accuracy : $\pm 0.5\text{mm}$

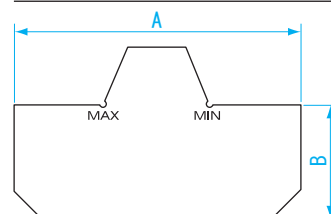
Order No.	Model No.	Compatible Gasket No.	Gasket Width (mm)	Gasket Height (mm)	Octagonal Corner Radius (mm)	Weight
007478	GST-1	21,23,24,26,27,30,31,34,35,37,39,41,44,45,49,53,57,61,65,69,82,84,92,99	11.13	15.7	1.5	53g
007479	GST-2	28,32,46,73	12.70	17.5	1.5	53g
007480	GST-3	38,50,54,62,66,77,86,87	15.88	20.6	1.5	110g
007481	GST-4	42,47,70,74,88,89,93,94,95	19.05	23.9	1.5	110g
007482	GST-5	51,58,96,97,98	22.22	26.9	1.5	110g
007483	GST-6	63,78	25.40	31.8	2.3	139g
007484	GST-7	55,67,71,100	28.58	35.1	2.3	139g

OCTAGONAL GASKET LIMIT GAUGE



DIMENSIONS

Units : mm



USE

- Limit gauge for GO/ NO GO testing of angle for octagonal ring joint gaskets

MATERIAL

- SUS420J2 (Polished finish)

SPECIFICATIONS

- Conform to JPI-7S-23 standards
- Dimensional tolerance of angle : $\pm 0.5^\circ$

Order No.	Model No.	Width A (mm)	Height B (mm)	MAX	MIN	Weight
007485	OG-1	50	20	23° 30'	22° 30'	10g
007486	OG-2	60	27	23° 30'	22° 30'	18g

BLOCK
GAUGESPIN
GAUGESPIN
GAUGE
ACCESSORIESPIN
VISE

GAUGES

RING
GAUGESPLUG
GAUGESLIMIT
GAUGESTHICKNESS
GAUGESTAPER
GAUGESWELDING
GAUGESOTHER
GAUGES

PITCH GAUGE

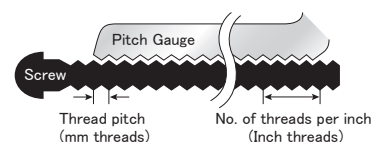
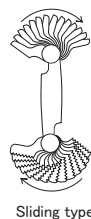
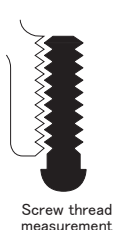


GAUGES



W26

- USE** • Use for measuring screw pitch
- MATERIAL** • Machine grade carbon steel
- FEATURES** • Pitch is marked on leaf



06

Order No.	Model No.	Indication unit	Number of leaves	Pitch size	Weight
110961	M28	mm	28	0.25 0.3 0.35 0.4 0.45 0.5 0.55 0.6 0.65 0.7 0.75 0.8 0.85 0.9 1 1.1 1.2 1.25 1.3 1.4 1.5 1.6 1.7 1.75 1.8 1.9 2 2.5	40g
110962	W26	inch	26	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 40 48 60	40g

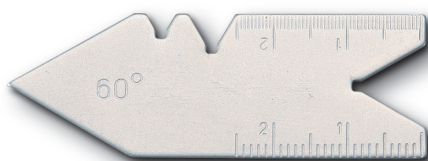
BLOCK GAUGES

PIN GAUGES

PIN GAUGE ACCESSORIES

PIN VISE

CENTER GAUGE

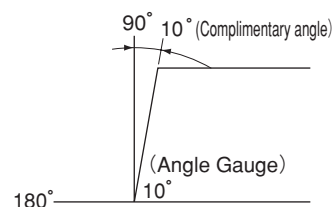
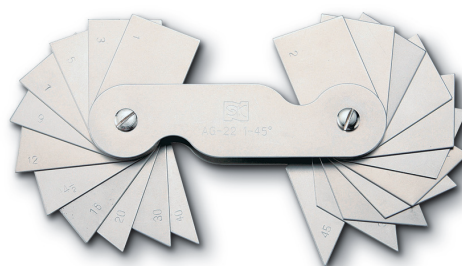


SG-60M

- USE** • Use for inspection of the angle of lathe center, angle of the tool for screw cutting, etc
- MATERIAL** • Machine grade carbon steel
- FEATURES** • Can check the angle of tool bits and tool edges

Order No.	Model No.	Angle	Graduation	Accuracy	Weight
007541	SG-60M	60°	0~25mm 0.5mm step, 1mm step	±1°	10g
007542	SG-55I	55°	0~1inch 1/14 inch step, 1/20 inch step	±1°	10g

ANGLE GAUGE



- USE** • Use for inspection of internal angle
- MATERIAL** • Stainless steel
- FEATURES** • 11 leaves on each side, range of 1°~45°
• The angle marked on each leaf is complementary angle

Order No.	Model No.	Graduation	Accuracy	Weight
110931	AG-22	1 2 3 4 5 6 7 8 9 10 12 14 14.5 15 16 18 20 25 30 35 40 45°	±20'	200g

GAUGES

RING GAUGES

PLUG GAUGES

LIMIT GAUGES

THICKNESS GAUGES

TAPER GAUGES

WELDING GAUGES

OTHER GAUGES



RADIUS GAUGE



- USE** • Use for checking the radius curve of dies, jigs, and wooden molds, etc.
- MATERIAL** • Machine grade carbon steel
- FEATURES** • Concave and convex leaves are separated.



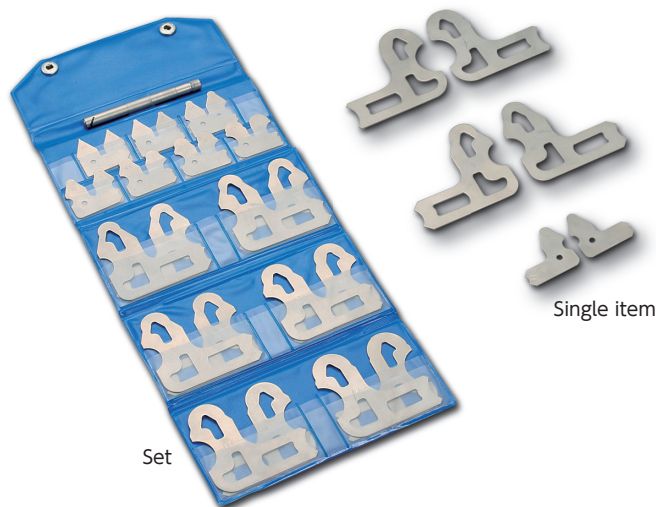
RG-32

Order No.	Model No.	Number of Leaves per set	Details of Radius Dimension (mm)	Accuracy (mm)	Weight
110923	RG-34	34	1.0~3.0 (0.25 step) 3.5~7.0 (0.5 step)	±0.1	65g
110922	RG-32	32	7.5~15.0 (0.5 step)	±0.1	115g
110921	RG-30	30	15.5~20.0 (0.5 step) 21.0~25.0 (1.0 step)	±0.1	110g

RADIUS GAUGE (Set/ Single part)

BLOCK
GAUGESPIN
GAUGESPIN
GAUGE
ACCESSORIESPIN
VISE

GAUGES

RING
GAUGESPLUG
GAUGESLIMIT
GAUGESTHICKNESS
GAUGESTAPER
GAUGESWELDING
GAUGESOTHER
GAUGES

Set

Single item

SPECIFICATIONS (Single part)

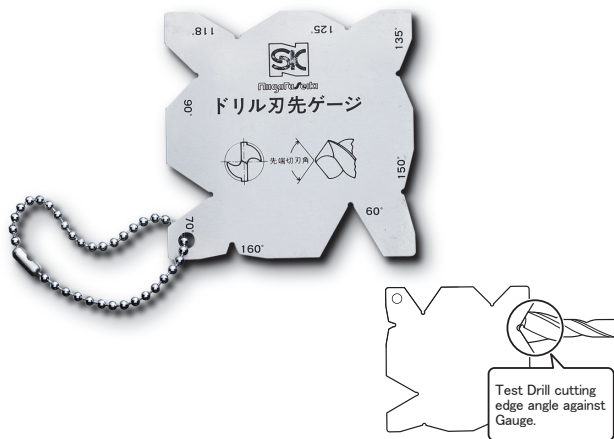
Order No.	Model No.	Detail of Radius Dimension (mm)
110881	RGL-05	0.5
110882	RGL-10	1.0
110883	RGL-15	1.5
110884	RGL-20	2.0
110885	RGL-25	2.5
110886	RGL-30	3.0
110887	RGL-35	3.5
110888	RGL-40	4.0
110889	RGL-45	4.5
110890	RGL-50	5.0
110891	RGL-55	5.5
110892	RGL-60	6.0
110893	RGL-65	6.5
110894	RGL-70	7.0
110895	RGL-75	7.5
110896	RGL-80	8.0
110897	RGL-85	8.5
110898	RGL-90	9.0
110899	RGL-95	9.5
110900	RGL-100	10.0
110901	RGL-105	10.5
110902	RGL-110	11.0
110903	RGL-115	11.5
110904	RGL-120	12.0
110905	RGL-125	12.5
110906	RGL-130	13.0

- USE** • For checking radius curve of dies, jigs and wooden mold etc.
- MATERIAL** • Machine grade carbon steel
- FEATURES** • Each size is separated, suitable for measuring difficult to access parts

SPECIFICATIONS (radius gauge set)

Order No.	Model No.	Pieces per set	Detail of Radius Dimension (mm)
110875	RG-26S	26	0.5~13.0 (0.5 step)
Accuracy (mm)		Weight	
±0.1		290g	

DRILL TIP GAUGE



- USE**
 - Use for measuring drill-tip after grinding (60° 70° 90° 118° 125° 135° 150° 160°)
- MATERIAL**
 - Stainless steel (SUS420J2)
- FEATURES**
 - 8 types of edge angle gauges are useful when grinding
 - 2mm scale to measure length of drill tip
 - Provided with ball chain

Order No.	Model No.	Product Dimension W×H×D (mm)	Accuracy	Weight
007531	DPG-A	77×77×1	±1.5°	11g

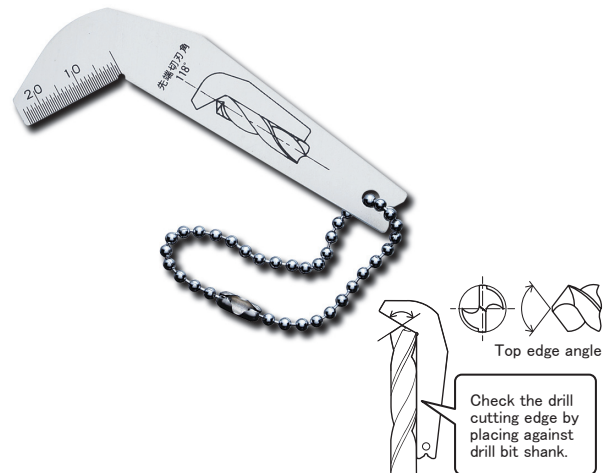
DRILL POINT GAUGE



- USE**
 - Use for measuring the drill edge length range of 3mm-45mm, right and left side
- MATERIAL**
 - Carbon tool steel
- FEATURES**
 - Provided with ball chain
 - Rotating tip angle gauge (Marking at 60° 70° 90° 125° 135° 150°)
 - Tip angle : 118°
 - Drill edge length : 3 ~ 45mm

Order No.	Model No.	Product Dimension (mm)	Accuracy	Weight
007535	DP-118	Base:22×110×8 Rotor:7.5×50×2 Main Scale:68×9	±1.5°	160g

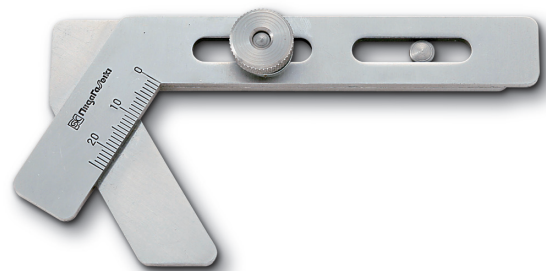
DRILL TIP GAUGE



- USE**
 - Use for measuring drill-tip after grinding (118°)
- MATERIAL**
 - Stainless steel (SUS420J2)
- FEATURES**
 - Confirms drill tip edge angle after grinding
 - Provided with ball chain

Order No.	Model No.	Product Dimension L×D (mm)	Accuracy	Weight
007532	DPG-118	90×0.5	±1.5°	10g

SLIDING DRILL POINT GAUGE



- USE**
 - Maintenance management of drill point angle
 - Use for measuring the drill tip edge length range of 3-40mm
- MATERIAL**
 - Stainless steel (SUS420J2) Satin finish
- FEATURES**
 - Tip angle : 118°
 - Drill edge length : 3~40mm

Order No.	Model No.	Accuracy	Weight
007536	S-118	±1.5°	150g



GAUGES

06

BLOCK GAUGES

PIN GAUGES

PIN GAUGE ACCESSORIES

PIN VISE

GAUGES

RING GAUGES

PLUG GAUGES

LIMIT GAUGES

THICKNESS GAUGES

TAPER GAUGES

WELDING GAUGES

OTHER GAUGES

CHAMFER MEASURING GAUGE **T** RACEABILITY

USE • Use for measuring the size of all kinds of chamfer

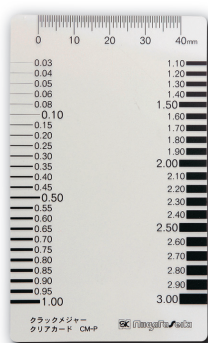
MATERIAL

- Stainless steel (SUS420J2)

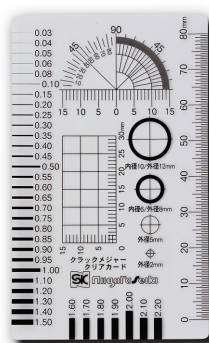
FEATURES

- Measure chamfer circumference of workpiece on lathe
- For milling, measure hole chamfer on workpiece
- Measurement range : 0 ~ 15C
- Minimum reading : 0.5mm

Order No.	Model No.	Product Dimension (mm)	Accuracy (mm)	Weight
006990	CMG-10	Overall Length 71.6×2 Side Length 16	±0.25	20g

CRACK GAUGE/ CLEAR CARD TYPE **T** RACEABILITY

CM-P



CM-C

USE

- Use for measuring cracks

MATERIAL

- Polyester

FEATURES

- CM-P: can measure width and length of cracks
- CM-C: can measure width, angle and length of cracks
- Flexible, transparent polyester makes it easy to use
- Portable (Business card size)

Order No.	Model No.	Product Dimension (H) × (W) (mm)	Weight
111162	CM-P	91×55	1g
111163	CM-C	91×55	1g

PROFILE GAUGE



Example of Use



1. Push profile gauge against desired sample
2. Transfer profile to workpiece
3. Cut workpiece to shape
4. A perfect fit made easy

USE

- Use for recording the cross-sectional shape of a surface

MATERIAL

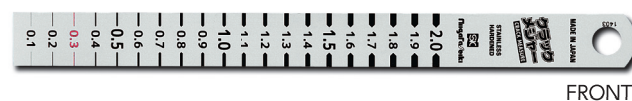
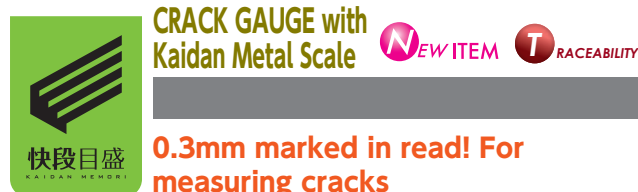
- Pin material : Stainless steel

FEATURES

- Pins are thin and can easily record a smooth curve

SPECIFICATIONS • Active Length: 150mm

Order No.	Model No.	Product Dimension (mm)	Weight
011440	CG-100S	155×84	210g



FRONT



BACK

USE • Crack measurement of wall, foundation etc

MATERIALS

- Stainless steel (SUS420J2)

FEATURES

- 0.3mm marked in red, easy to distinguish defect or cracks.
- Reverse side is 15cm scale with stepped graduation.
- Satin finished

Order No.	Model No.	Measurement Range of Crack Gauge (mm)	Measurement Range of Metal Scale (mm)	Wight
New 111262	CM-SKD	0.1~2.0	0~150	10g

BLOCK GAUGES

PIN GAUGES

PIN GAUGE ACCESSORIES

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