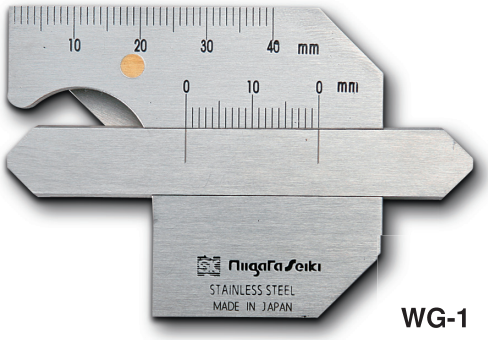
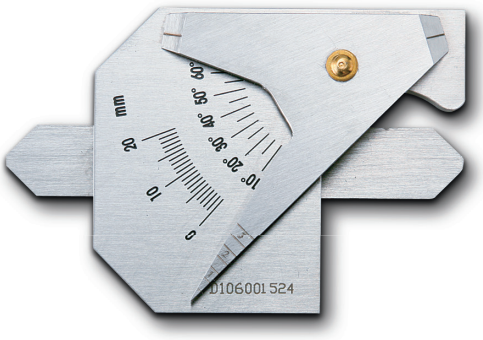
WELDING GAUGE

FRONT

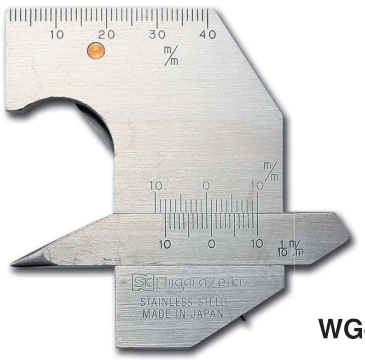


WG-1

REVERSE

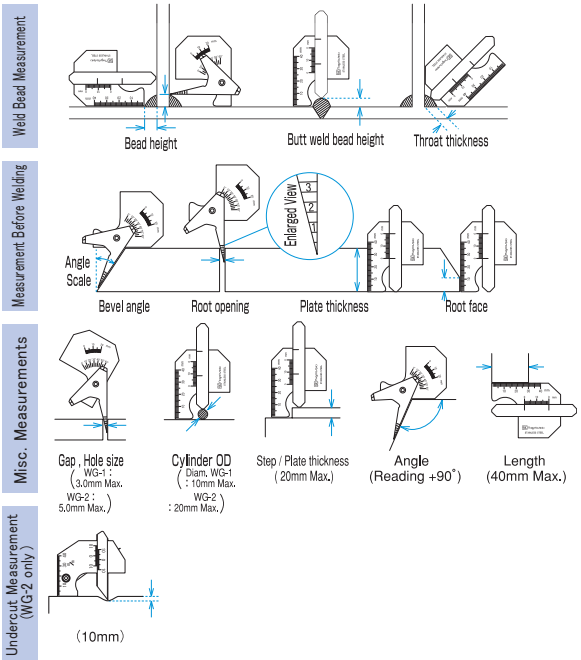


FRONT



WG-2

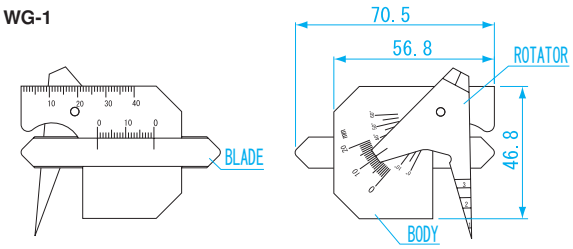
REVERSE



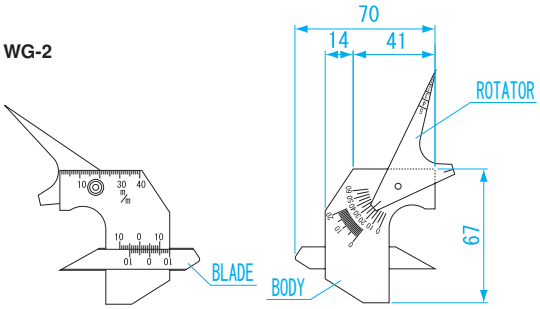
DIMENSIONS

Units : mm

WG-1



WG-2



USE

• For measuring fillet weld, bead weld, etc.

MATERIAL

• Stainless steel (SUS410)

FEATURES

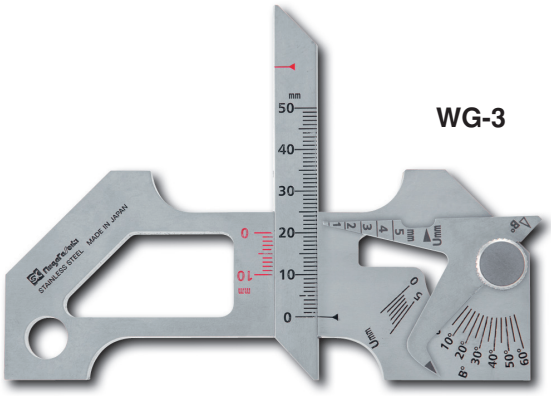
• Efficient for welding and quality control
• Tough and portable (with vinyl case)

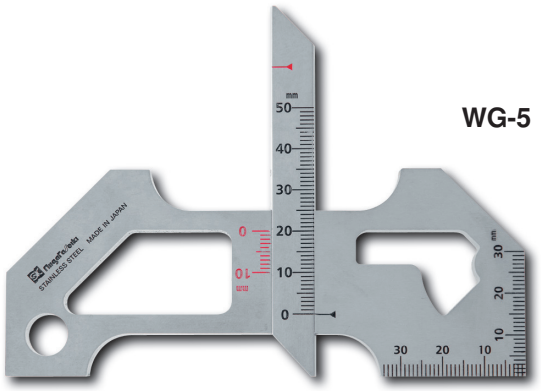
Order No.	Model No.	Measurement Accuracy for Throat Thickness of Fillet Weld	Bevel Angle Accuracy	Accuracy	Weight
007502	WG-1 (M)	± 0.4mm	± 0.7°	± 0.4mm	79g
007503	WG-2 (L)	± 0.2mm	± 0.7°	± 0.4mm	91g

WELDING GAUGE

NEW ITEM TRACEABILITY

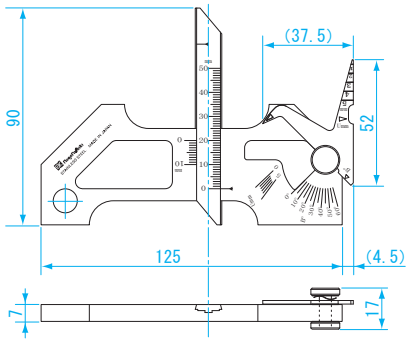
New product! Gauges with new features added to existing welding gauge line-up
Measure weld reinforcement height up to 50mm





DIMENSIONS

Units : mm



USE

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

MATERIAL

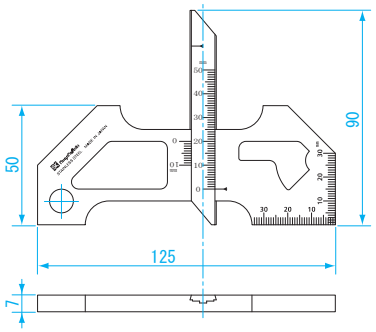
• Stainless Steel (SUS410) Silver finish

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

DIMENSIONS

Units : mm



USE

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

MATERIAL

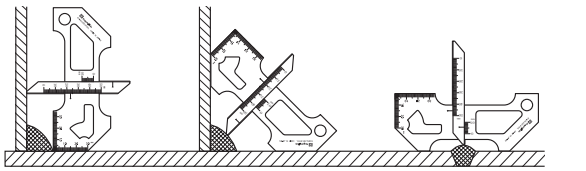
• Stainless steel (SUS410) Silver finish

FEATURES

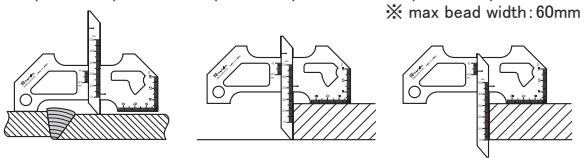
• Speed up and streamline the quality control of welding
• Measures weld reinforcement height up to 50mm
• Wide base for stability during measurements
silver finish is ideal for reduced reflection when photographing measurements
• Translucent case for easy confirmation of contents

■ Measurement Functions

WG-3, WG-5 capabilities

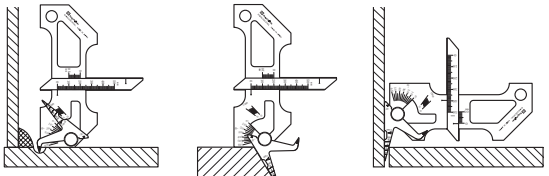


①Fillet leg length measurement (0～50mm)
②Fillet throat height measurement (0～50mm)
③Weld reinforcement height measurement (0～10mm)
※ max bead width : 60mm



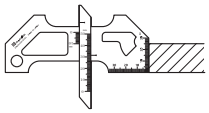
④Step height measurement (0～50mm)
※max bead width : 53mm
⑤Depth and step measurement (0～50mm)
⑥Thickness measurement (0～35mm)

WG-3 only



⑦Undercut measurement (0～5mm)
⑧Bevel angle measurement (0～60°)
⑨Root gap measurement (0.5～5mm)

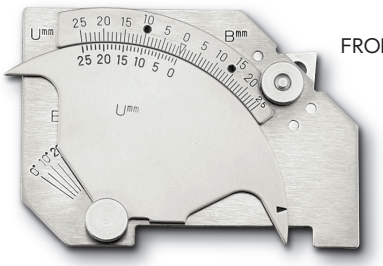
WG-5 only

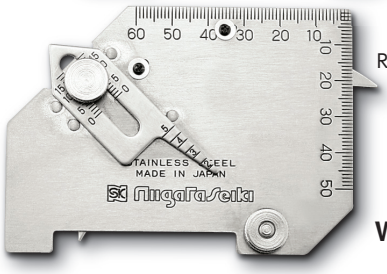


⑩Thickness measurement (0～30mm)

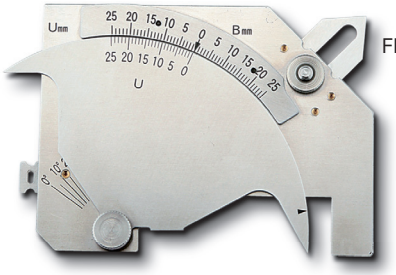
Order No.	Model No.	Weight
NEW 007506	WG-3	198g
NEW 007507	WG-5	187g

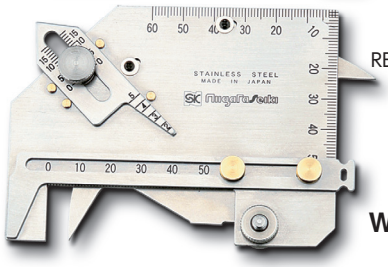
WELDING GAUGE





WGU-7M

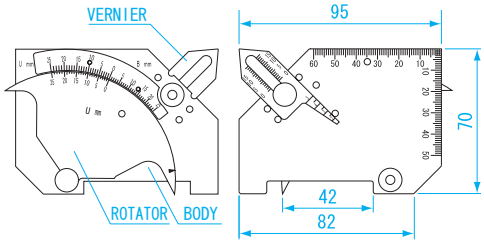




WGU-8M

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

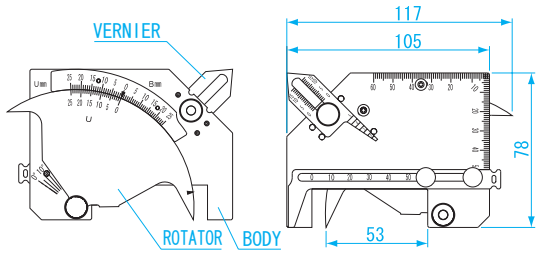
MATERIAL • Stainless steel (SUS410)

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

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/ External diameter of circular workpiece/ Width of bead weld

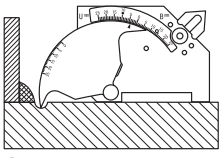
MATERIAL • Stainless steel (SUS420J2)

FEATURES

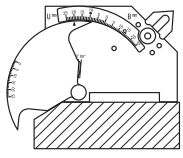
- Additional function for measurement of external diameter of circular workpiece, swelling of pressure welding of reinforcing iron and width of bead weld
- Bead stride width: 53mm
- Bevel angle range: 0-70°
- Easy reading scale

■ MEASUREMENT FUNCTION

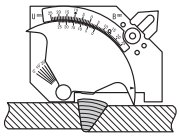
WGU-7M,WGU-8M, WGU-9M common functions



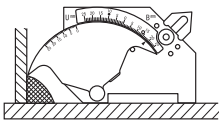
① Undercut depth (0～25mm)



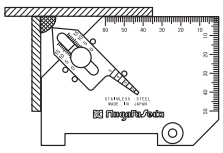
② Bevel angle
(WGU-7M:0～60°)
(WGU-8M・WGU-9M:0～70°)



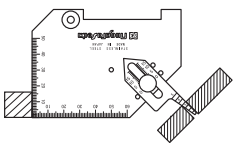
③
Bead striding width (WGU-7M:42mm)
(WGU-8M・WGU-9M : 53mm)
Step difference (0～25mm)



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

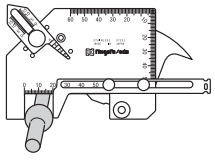


⑤ Throat thickness of fillet weld (0～15mm)

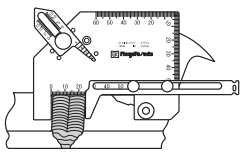


⑥ Root opening (2～5mm)
⑦ Plate thickness (scale)

WGU-8M, WGU-9M common functions



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

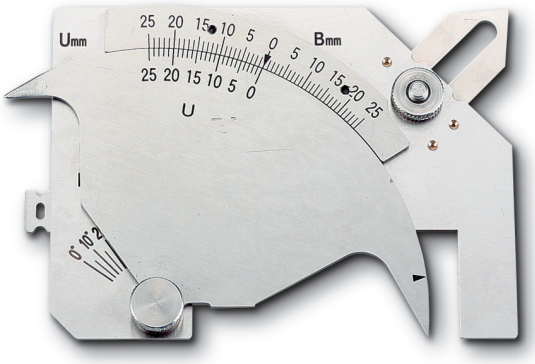


⑨ Width of bead weld (0～53mm)

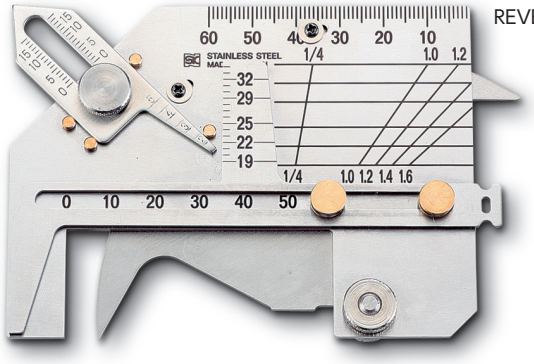
Order No.	Model No.	Weight
007513	WGU-7M	150g
007514	WGU-8M	190g

WELDING GAUGE

TRACEABILITY



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

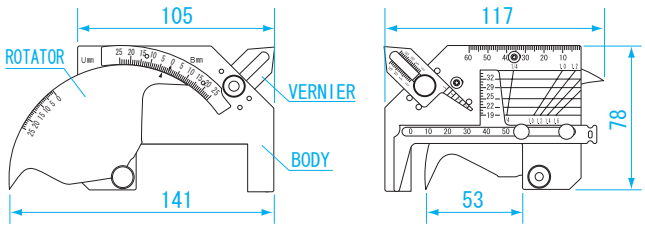
• Bead stride width: 53mm

• Bevel angle range: 0-70°

• Higher accuracy undercut measurement function

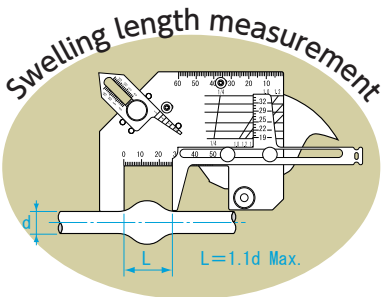
DIMENSIONS

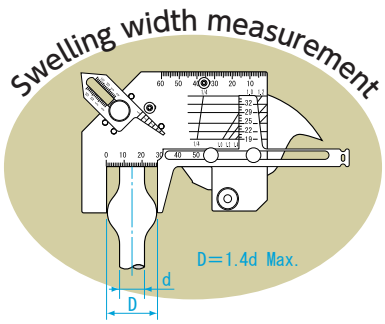
Units : mm

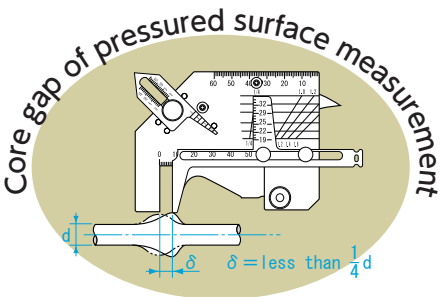


Additional functions

Provides quick way to measure the diameter of welded rebar to insure proper dimensions of weld seam.
Scale marked for material diameter (φ19, 20, 25, 29, 32) corresponding to various rebar diameters, and amount of expansion (1/4、1.0～1.6). You can quickly find the ratio by reading the intersection of the two scale lines.



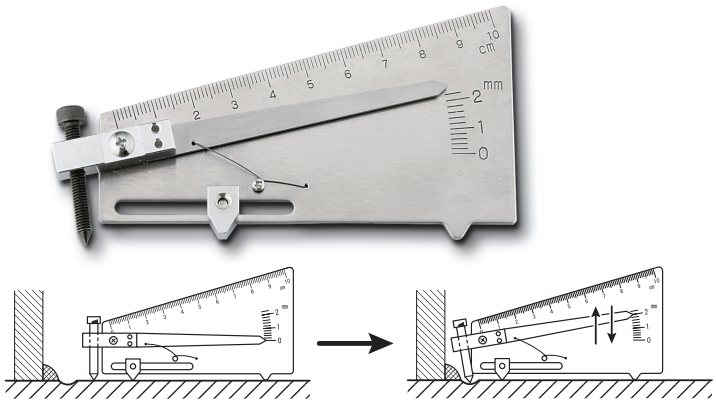




Order No.	Model No.	Rebar diameter (mm)	Expansion	Weight
007515	WGU-9M	φ 19～35	1/4、1.0～1.6	190g

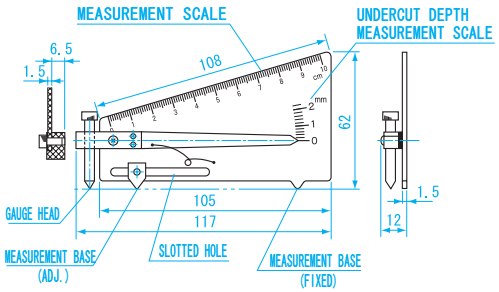
WELDING GAUGE

TRACEABILITY



DIMENSIONS

Units : mm



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

SPECIFICATIONS

• Exclusive use for undercut measurement (minimum reading : 0.2mm)

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.

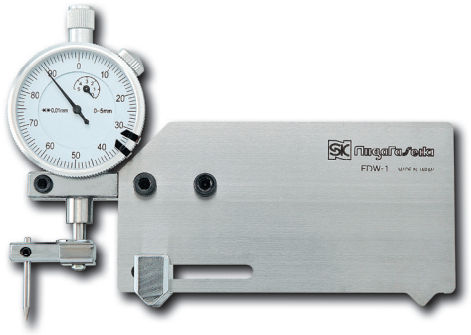
Measurement

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

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

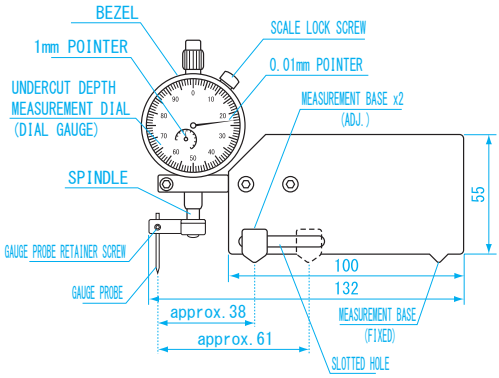
WELDING GAUGE

TRACEABILITY



DIMENSIONS

Units : mm



USE

• Exclusive use for undercut measurement

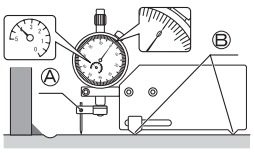
FEATURES

• 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

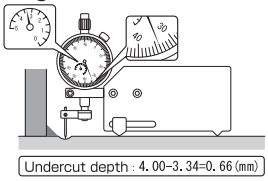
SPECIFICATIONS

• Measurement range : 0 ~ 4.00mm
• Minimum reading : 0.01mm
• Accuracy : ± 0.04mm
• Width of measurement base : ≒ 23mm

(Figure 1)



(Figure 2)



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

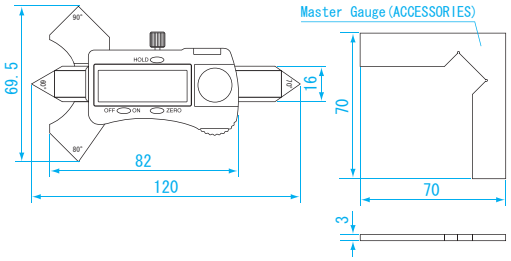
TRACEABILITY PDI

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

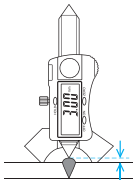
MATERIAL

- Stainless steel

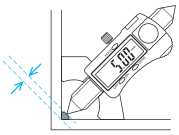
FEATURES

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

Weld reinforcement height measurement

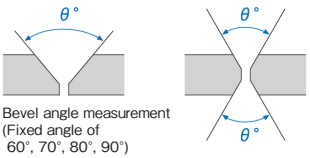


Bead Height
Maximum measurement
10mm



Throat thickness
Maximum measurement
20mm

Measurement before welding process



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

SPECIFICATIONS

- Throat thickness : 20mm
- Bead height : 10mm
- perating temperature : 0 ~ 40℃

POWER

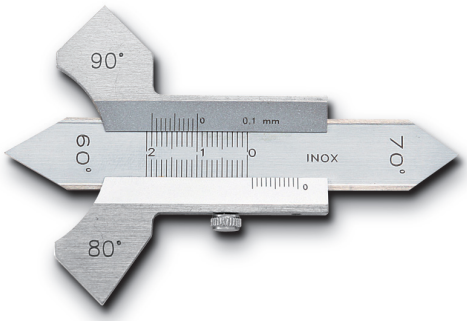
- SR44 or LR44, one included for testing

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

※ Quantization Error (± 1 digit) not included

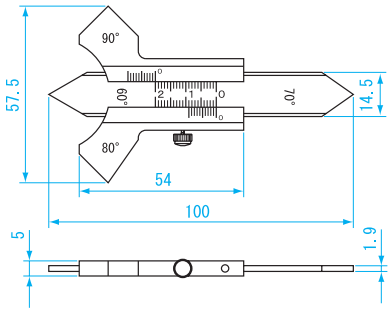
WELDING GAUGE

TRACEABILITY



DIMENSIONS

Units : mm



USE

- Use for measuring the size of fillet weld and bead weld

MATERIAL

- Stainless steel

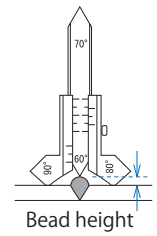
FEATURES

- Bevel angle: 60° 70° 80° 90°

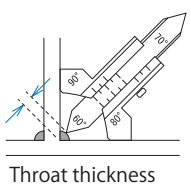
SPECIFICATIONS

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

Weld Bead Measurement

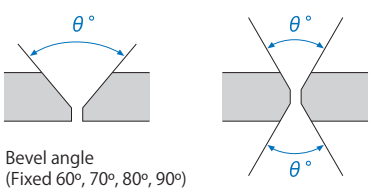


Bead height
Maximum measurement 8mm



Throat thickness
Maximum measurement 11mm

Measurement Before Welding



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

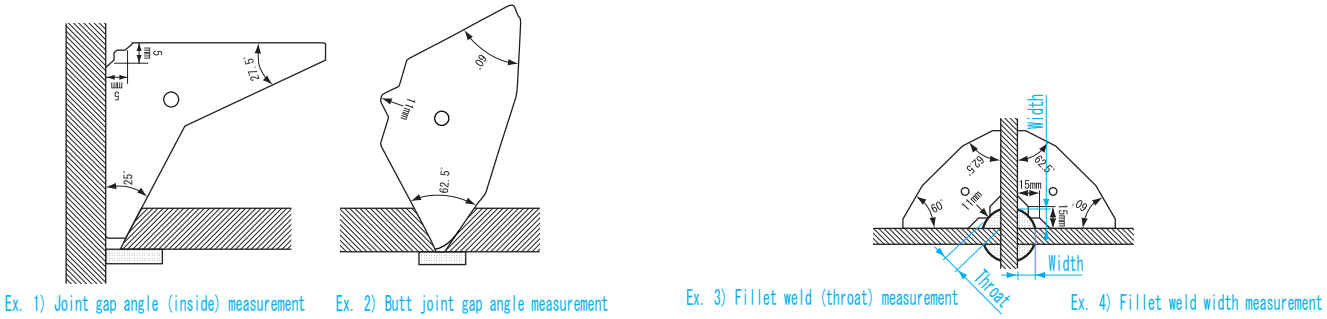
Order No.	Model No.	Weight
007516	AWG-10	80g

ANGLE LIMIT GAUGE

TRACEABILITY

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

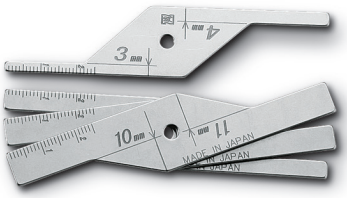
SPECIFICATIONS

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

ROOT LIMIT GAUGE

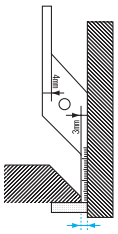
TRACEABILITY



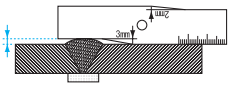
WRL310

WRL1118

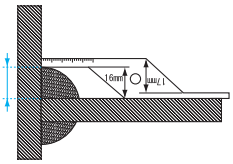
Example use



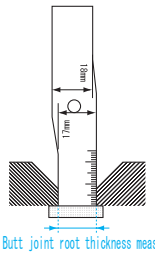
Ex. 1) T-joint root thickness measurement



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

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

SPECIFICATIONS

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

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USE

- Use for measuring height of welding electrode

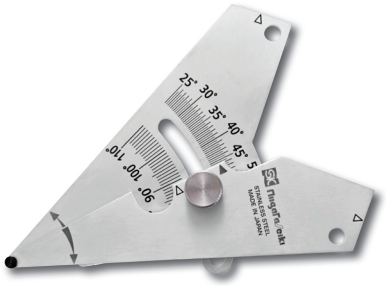
MATERIAL

- SUS420J2

ANGLE GAUGE

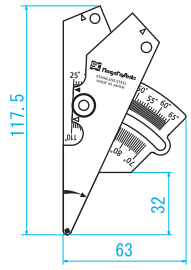
TRACEABILITY

New Product. Specialized for angle measurement of grooves with minimum reading 0.5°



DIMENSIONS

Units : mm



USE
• Butt angle measurement and gap angle measurement

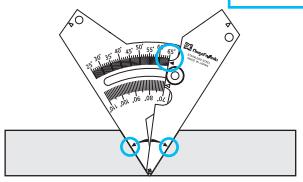
MATERIAL
• Stainless(SUS410)

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° , lage 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)

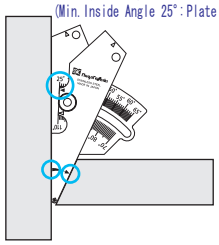
SPECIFICATIONS
- Bevel angle : 25 ～ 65° (Minimum graduation: 0.5°)
- Angle of cross weld part : 70-110°

Example use

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

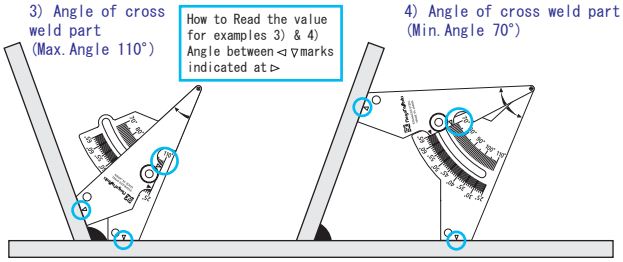


2) T-joint gap angle measurement
(Min. Inside Angle 25° : Plate Thickness : 30mm)



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

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



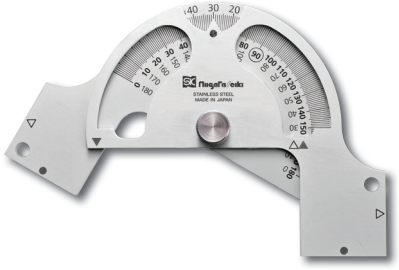
SPECIFICATIONS

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

ANGLE PROTRACTOR

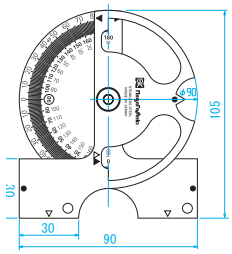
TRACEABILITY

New Product. 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.

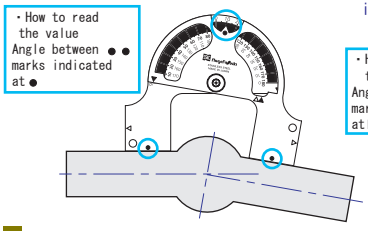
MATERIAL
• Stainless steel (SUS410)

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)

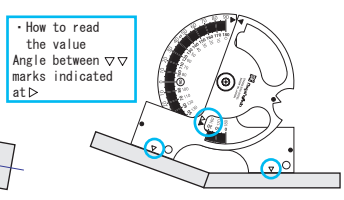
SPECIFICATIONS
- Bevel angle : Scissors angle 30-130° (Minimum graduation : 1°)
- Bending angle and angle of butt weld joint : 0 ～ 90°
- Stud and beam angle after welding : 0 ～ 180°

Example use

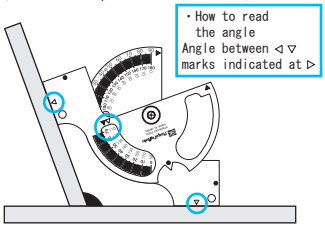
Example 1) Angle measurement of bent butt weld (0-90° : Example indicates 10°)



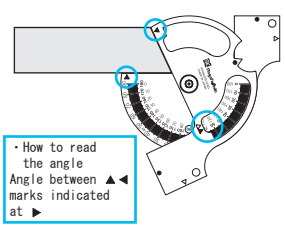
Example 2) Angle measurement of bent Flange and metal plate (0-180° : Example indicates 20°)



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



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