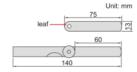


FEELER GAGE

- Range: 0.04-1.00mm
 Made of hardened alloy steel
 Meet DIN2275/grade TC1
 Accuracy: ±(3+T/80) μm,
 'T' is the thickness of leaves in μm

| Code | Thickness of leaves included (mm) | Quantity of leaves |
|---------|---|--------------------|
| 4601-25 | $\begin{array}{c} 0.04, 0.05, 0.06, 0.07, 0.08, 0.09, 0.10, 0.15, \\ 0.20, 0.25, 0.30, 0.35, 0.40, 0.45, 0.50, 0.55, \\ 0.60, 0.65, 0.70, 0.75, 0.80, 0.85, 0.90, 0.95, 1.00 \end{array}$ | 25 |





4601-25

LONG FEELER GAGE



■ Range: 0.05-1.00mm
■ Made of hardened alloy steel
■ Meet DIN2275/grade TC1
■ Accuracy: ±(3+T/80) µm,
'T' is the thickness of leaves in µm



4605-20

| | | Unit: mm |
|--------|-----|----------|
| 1- | 150 | |
| leaf o | | 12(|
| - | 135 | |
| | | |
| 295 | | |

| Code | Thickness of leaves included (mm) | Quantity of leaves |
|---------|--|--------------------|
| 4605-20 | 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 |

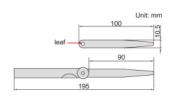


FEELER GAGES

- Made of hardened alloy steel Meet DIN2275/grade TC1 Accuracy: ±(3+T/80) µm, 'T' is the thickness of leaves in µm



4602-20



Unit: mm

| 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, 0.80, | 20 |
| 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 |

FEELER GAGE TAPES

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





| - 1 | 6 | 2 | 1 | -3 | r |
|-----|---|---|---|----|---|

| 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 |
| | | |

| Code | Thickness (T) | Accuracy |
|---------|---------------|----------|
| 4621-12 | 0.12mm | ±5µm |
| 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 |

| Code | Thickness (T) | Accuracy |
|---------|---------------|----------|
| 4621-50 | 0.50mm | ±14µm |
| 4621-55 | 0.55mm | ±14µm |
| 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 |
| 4621-90 | 0.90mm | ±22µm |
| | | |

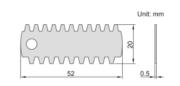
GEAR TOOTH PITCH GAGES



- Accuracy: ±0.05mm
 Check the module pitch of gear tooth
- Made of hardened stainless steel



4860-245



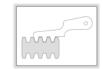
| Code | Range | Pressure angle | Quantity of leaves |
|----------|------------|----------------|--------------------|
| 4860-145 | 0.35-4.5mm | 14.5° | 15 |
| 4860-245 | 0.35-4.5mm | 20° | 15 |
| 4860-112 | 5-12mm | 14.5° | 8 |
| 4860-212 | 5-12mm | 20° | 8 |

PITCH GAGE



4824-12

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



| Code | Range | Thread type | Pitch of leaves included | Quantity of leaves |
|---------|--------|-------------|--|--------------------|
| 4824-12 | 2-20mm | Tr30° | 2, 3, 4, 5, 6, 7, 8, 9, 10, 12, 16, 20mm | 12 |



PITCH GAGES

- Identify the pitch of screw thread
- Made of medium carbon steel





4820-124

Metric 60° screw

| Code | Range | Pitch of leaves included | Quantity of leaves |
|----------|----------|---|--------------------|
| 4820-124 | 0.25-7mm | 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, 7mm | 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 |

Metric 60° and Whitworth 55° screw

| Code | Range | Pitch of leaves included | Quantity of leaves |
|----------|----------|--|--------------------|
| 4820-452 | 0.25-6mm | 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 | 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 | 52 |

Metric 60° and Unified 60° screw

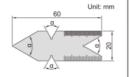
| Code | Range | Pitch of leaves included | Quantity of leaves |
|----------|---------|---|--------------------|
| 4820-552 | 0.4-7mm | 0.4, 0.5, 0.6, 0.7, 0.75, 0.8, 0.9, 1, 1.25, 1.5, 1.75, 2, 2.5, 3, 3.5, 4, 4.5, 5, 5.5, 6, 6.5, 7mm | 52 |
| | 4-42TPI | 4, 4-1/2, 5, 5-1/2, 6, 7, 8, 9, 10, 11, 11-1/2,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

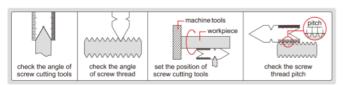
CENTER GAGES



4810-601

- To check and set screw cutting tools, and check the angle and pitch of screw thread
- Angle accuracy: ±30min.
- Made of stainless steel





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

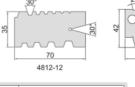
THREAD GAGES

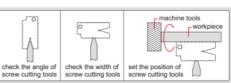


4812-E

- To check and set screw cutting tools

 Made of medium
- carbon steel





| Code | Range | Thread type | Pitch |
|---------|---------|-------------|--|
| 4812-12 | 2-12mm | Tr 30° | 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 |

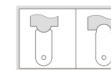
RADIUS GAGES

■ Made of carbon steel

15.5-25mm

4801-15





15+15

86

4812-E

| Code | Range | Radius of leaves included (mm) | Quantity of leaves (internal+exter |
|---------|----------|---|------------------------------------|
| 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 |
| 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 |

15.5, 16, 16.5, 17, 17.5, 18, 18.5, 19, 19.5, 20, 21, 22, 23, 24, 25



RADIUS GAGE

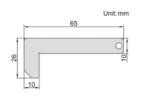


Made of stainless steel



| Code | Range | Radius of leaves included (mm) | Quantity of leaves |
|---------|---------|---|--------------------|
| 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 | |

CHAMFER GAGE



- Accuracy: ±0.25mm To measure internal and
- external chamfers Made of stainless steel

| Code | Graduation |
|--------|------------|
| 4844-1 | 0.5mm |





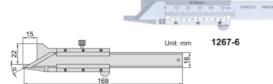




external chamfer

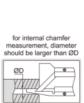
D1

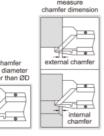
CHAMFER GAGES



- Measure 30°/45°/60° chamfer dimension
- Accuracy: ±0.06mmGraduation: 0.02mm
- Made of stainless steel
- Satin chrome plated reading surface

| Code | Range | Chamfer (α) | ØD |
|---------|--------|-------------|-----|
| 1267-6 | 0-10mm | 45° | 7mm |
| 1267-63 | 0-10mm | 30° | 8mm |
| 1267-66 | 0-10mm | 60° | 7mm |





RADIUS GAGE SET



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

Range Radius of leaves included (mm) Quantity of leaves Code 0.5, 1, 1.5, 2, 2.5, 3, 3.5, 4, 4.5, 5, **4804-26** 0.5-13mm 5.5, 6, 6.5, 7, 7.5, 8, 8.5, 9, 9.5, 26

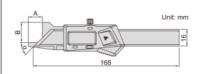
3 concave and 2 convex gaging surfaces 4804-26

10, 10.5, 11, 11.5, 12, 12.5, 13

DIGITAL CHAMFER GAGES



1180-6



- Measure 30°/45°/60° chamfer dimension
- Resolution: 0.01mm/0.0005"
- But
- Aut
- digi Bat
- Ma
- Opt (co

| le | Range | Accuracy | Chamfer (α) | Α |
|---------|---|----------|--------------------|--------|
| tiona | l accessory: data o 315-21, 7302-21) | | Jα | |
| ttery (| CR2032, data outp | | internal chamfe | |
| ital u | nit to turn on powe | | | |
| tomat | tic power off, move | | Δα | |
| ttons: | on/off, zero, mm/i | | 4 | |
| Joint | 011. 0.0 11111111110.000 | 0 | | unanne |

| Code | Range | Accuracy | Chamfer (α) | Α | В | ØD |
|---------|----------------|----------|-------------|------|------|-----|
| 1180-6 | 0-10mm/0-0.39" | ±0.06mm | 45° | 15mm | 22mm | 7mm |
| 1180-63 | 0-10mm/0-0.39" | ±0.06mm | 30° | 15mm | 22mm | 8mm |
| 1180-66 | 0-10mm/0-0.39" | ±0.06mm | 60° | 14mm | 21mm | 7mm |

DIGITAL CHAMFER GAGES

- Measure 45° chamfer length
- 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
- Supplied with pin gage for zero setting

| Code | Range | Accuracy |
|---------|-----------------|----------|
| 1537-20 | 0-20mm/0-0.787" | ±0.05mm |
| 1537-8 | 0-8mm/0-0.315" | ±0.05mm |









ATTENTION: THE ACTUAL LENGTH IS 1.414 TIMES OF THE READING

ATTENTION: CHAMFER OF HOLES CANNOT BE MEASURED

DATA

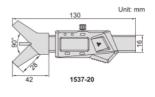
OUTPUT

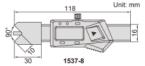
for internal chamfer measurement, diameter should be larger than ØD

ØD

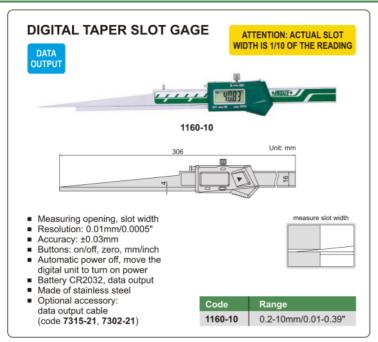


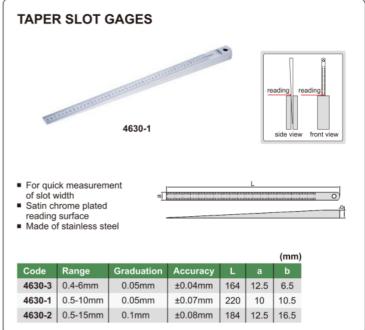


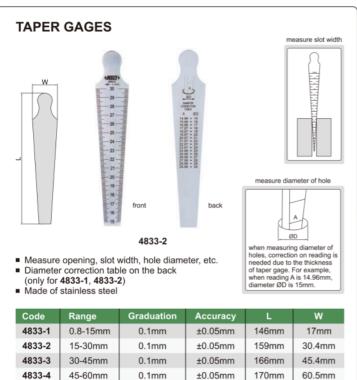




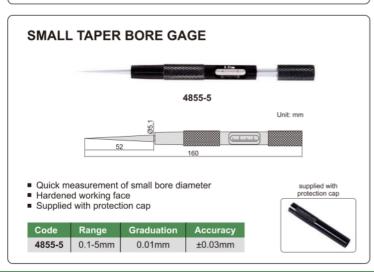


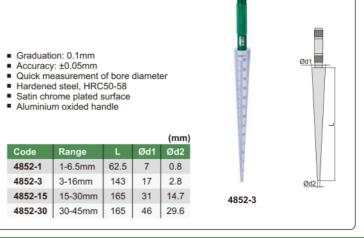










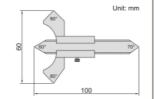


TAPER BORE GAGES

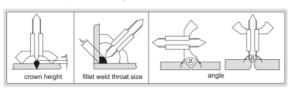


WELDING GAGE





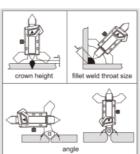
- Made of stainless steel
- Satin chrome plated reading surface



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

DIGITAL WELDING GAGE

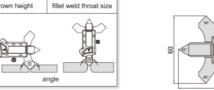
Buttons: zero, mm/inch, on/offBattery LR44 Made of stainless steel





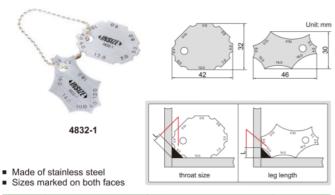
Unit: mm

4831-20A



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

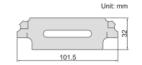




| Code | Throat size (mm) | Leg length (mm) | Accuracy |
|--------|--------------------------|-------------------------------|----------|
| 4832-1 | 4, 5, 6, 7, 8, 9, 10, 12 | 4, 6, 7.5, 10, 12, 14, 16, 18 | ±0.5mm |

FILLET WELDING GAGE



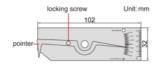


- Measure concave and convex weld sizes
- 7 blades are included Made of stainless steel

| Code | Size (mm) | Accuracy |
|--------|--|----------|
| 4836-1 | 3, 4, 5, 6, 8, 9, 10, 11, 12, 14, 16, 19, 22, 25 | ±0.5mm |

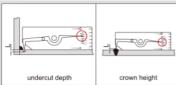
WELDING GAGE





4834-1

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





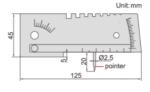


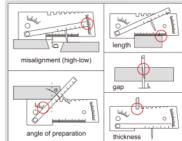
| Code | Measurement | Range | Graduation | Accuracy |
|--------|-----------------------------|------------|------------|----------|
| 4834-1 | undercut depth | 0-6mm | 0.5mm | ±0.5mm |
| | crown height | 0-6mm | 0.5mm | ±0.5mm |
| | porosity size comparison | 1.5mm, 3mm | _ | ±0.2mm |
| | amount of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

WELDING GAGE



4848-1





■ Made of stainless steel

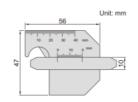
| Code | Measurement | Range | Graduation | Accuracy |
|--------|-------------------------|---|------------|----------|
| | misalignment (high-low) | -5mm~+15mm | 1mm | ±0.5mm |
| | angle of preparation | 0°-45° | 5° | ±2.5° |
| 4848-1 | length | 0-50mm | 1mm | ±0.5mm |
| 4040-1 | gap | 1-4mm | 0.5mm | ±0.25mm |
| | thickness | 1, 1.2, 2.0, 2.5, 3.0, 3.25, 4.0, 5.0mm | _ | ±0.1mm |



WELDING GAGE

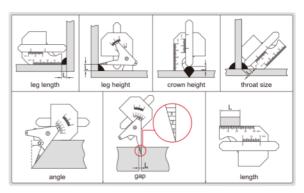






Made of stainless steelSatin chrome plated surface

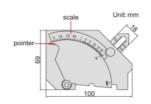
| Code | Measurement | Range | Graduation | Accuracy |
|--------|--------------|---------|------------|----------|
| 6832-1 | leg length | 0-20mm | 1mm | ±0.3mm |
| | leg height | 0-20mm | 1mm | ±0.3mm |
| | crown height | 0-20mm | 1mm | ±0.3mm |
| | throat size | 0-10mm | 1mm | ±0.3mm |
| | angle | 0°-60° | 5° | ±1° |
| | gap | 1-3.5mm | 0.5mm | ±0.2mm |
| | length | 0-40mm | 1mm | ±0.3mm |



WELDING GAGE



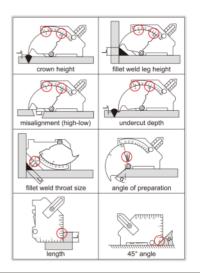




4835-1

- Adjustable scale to compensate pointer wearMade of stainless steel

| Code | Measurement | Range | Graduation | Accuracy |
|--------|-------------------------|-----------------|-------------|----------|
| | 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 |
| 4835-1 | undercut depth | 0-2mm (0-1/8") | 1mm (1/16") | ±0.5mm |
| 4635-1 | 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° |
| | | | | |

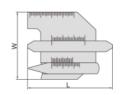


WELDING GAGE



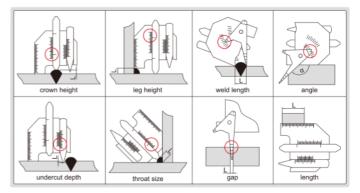


■ Made of stainless steel

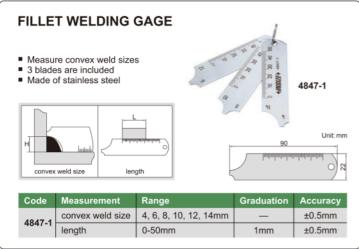


4838-1

| Code | Measurement | Range | Graduation | Accuracy | LxW |
|--------|----------------|----------|------------|----------|-------------|
| | crown height | 0-10mm | 1mm | ±0.5mm | |
| | leg height | 0-14mm | 1mm | ±0.5mm | |
| 4838-1 | undercut depth | 0-5mm | 0.05mm | ±0.05mm | |
| | throat size | 0-13mm | 1mm | ±0.5mm | 62x77mm |
| | weld length | 0-40mm | 1mm | ±1mm | 028//////// |
| | angle | 90°-150° | 5° | ±1° | |
| | gap | 0.5-5mm | 1mm | ±0.5mm | |
| | length | 0-40mm | 1mm | ±0.5mm | |





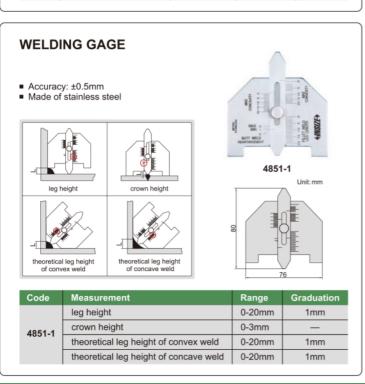


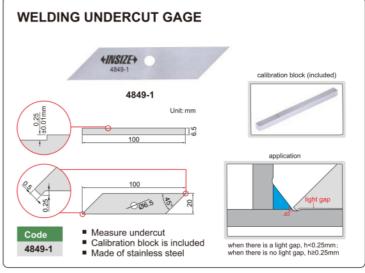


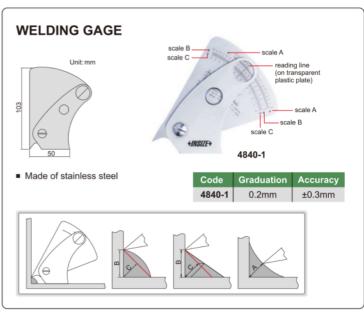
| Code | Measurement | Range | Graduation | Accuracy |
|--------|-----------------------------|---------------|------------|----------|
| 4850-1 | leg height (b) | 0-18mm | 1mm | ±0.5mm |
| | theoretical throat size (a) | 2-12mm | 1mm | ±0.5mm |
| | throat size | 4, 5, 6, 7mm | _ | ±0.5mm |
| | angle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

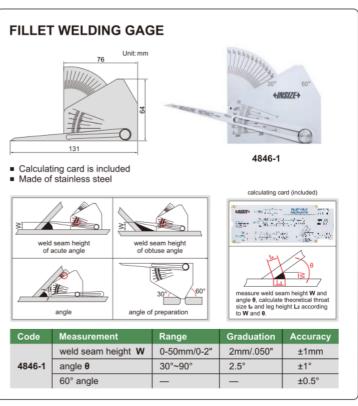
angle of preparation

thickness







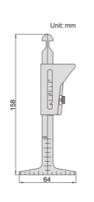




PIPE WELDING GAGE

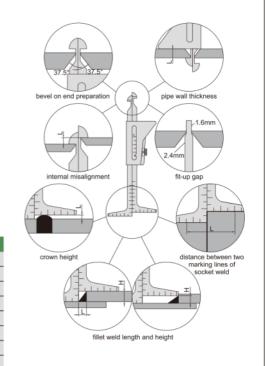
Made of stainless steel







| Code | Measurement | Range | Graduation | Accuracy |
|--------|--|---|---|--------------------------------------|
| | 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 |
| 4000.4 | fit-up gap | 1.6mm, 2.4mm | _ | ±0.1mm |
| 4039-1 | 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 |
| 4839-1 | fit-up gap crown height distance between two marking lines of socket weld fillet weld length | 1.6mm, 2.4mm 0-35mm (0~1-3/8") 0-60mm (0~2-3/8") 0-30mm (0~1-1/4") | 1mm (1/32") 1mm (1/16") 1mm (1/16") | ±0.1mm ±0.5mm ±0.5mm ±0.5mm |



PIPE WELDING GAGE Unit: mm 7.7 20 fit-up gap internal misalignment 4841-1 Made of stainless steel Code Measurement Graduation Range Accuracy internal misalignment 0-30mm ±0.5mm 1mm 4841-1 fit-up gap 0.7-4mm 0.1mm





7-PIECE WELDING GAGE SET

- Includes:
- 1) Welding gage (code 4834-1) 2) Welding gage (code 4851-1)
- 3) Pipe welding gage (code 4839-1) 4) Outside micrometer, range 0-25mm
- graduation 0.01mm (code 3203-25A)
 5) Telescoping inspection mirror, size of mirror Ø32mm,
- length 178~505mm (code 7160-1)
- Magnifier with illumination, magnification 4X (code **7513-4**)
- 7) Steel rule, range 150mm/6", graduation 0.5mm, 1mm, 1/64", 1/32", 1/16" (code **7110-150**)



5071

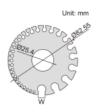
Code 5071



AMERICAN STANDARD WIRE GAGE



4808



| No. | W | No. | W |
|-----|-----------------|-----|-----------------|
| 0 | 8.250mm/0.3249" | 18 | 1.020mm/0.0403" |
| 1 | 7.350mm/0.2893" | 19 | 0.912mm/0.0359" |
| 2 | 6.540mm/0.2576" | 20 | 0.813mm/0.0320" |
| 3 | 5.830mm/0.2294" | 21 | 0.724mm/0.0285" |
| 4 | 5.190mm/0.2043" | 22 | 0.643mm/0.0253" |
| 5 | 4.620mm/0.1819" | 23 | 0.574mm/0.0226" |
| 6 | 4.110mm/0.1620" | 24 | 0.511mm/0.0201" |
| 7 | 3.670mm/0.1443" | 25 | 0.440mm/0.0179" |
| 8 | 3.260mm/0.1285" | 26 | 0.404mm/0.0159" |
| 9 | 2.910mm/0.1144" | 27 | 0.361mm/0.0142" |
| 10 | 2.590mm/0.1019" | 28 | 0.320mm/0.0126" |
| 11 | 2.300mm/0.0907" | 29 | 0.287mm/0.0113" |
| 12 | 2.050mm/0.0808" | 30 | 0.254mm/0.0100" |
| 13 | 1.820mm/0.0720" | 31 | 0.226mm/0.0089" |
| 14 | 1.630mm/0.0641" | 32 | 0.203mm/0.0080" |
| 15 | 1.450mm/0.0571" | 33 | 0.180mm/0.0071" |
| 16 | 1.290mm/0.0508" | 34 | 0.160mm/0.0063" |
| 17 | 1.150mm/0.0453" | 35 | 0.142mm/0.0056" |
| | | 36 | 0.127mm/0.0050" |

- For gaging non-ferrous wire and metals such as copper, brass and aluminum
 Hardened to HRC50-57

| Code | Range |
|------|-------------------------------------|
| 4808 | 0-36 (8.250-0.127mm/0.3249-0.0050") |

U.S. STANDARD SHEET METAL GAGE



4809

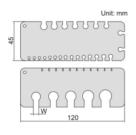


| No. | W | No. | W |
|-----|-----------------|-----|-----------------|
| 0 | 7.938mm/0.3125" | 18 | 1.270mm/0.0500" |
| 1 | 7.144mm/0.2813" | 19 | 1.111mm/0.0438" |
| 2 | 6.747mm/0.2656" | 20 | 0.953mm/0.0375" |
| 3 | 6.350mm/0.2500" | 21 | 0.873mm/0.0344" |
| 4 | 5.953mm/0.2344" | 22 | 0.794mm/0.0313" |
| 5 | 5.556mm/0.2188" | 23 | 0.714mm/0.0281" |
| 6 | 5.159mm/0.2031" | 24 | 0.635mm/0.0250" |
| 7 | 4.763mm/0.1875" | 25 | 0.556mm/0.0219" |
| 8 | 4.366mm/0.1719" | 26 | 0.476mm/0.0188" |
| 9 | 3.969mm/0.1563" | 27 | 0.437mm/0.0172" |
| 10 | 3.572mm/0.1406" | 28 | 0.397mm/0.0156" |
| 11 | 3.175mm/0.1250" | 29 | 0.357mm/0.0141" |
| 12 | 2.778mm/0.1094" | 30 | 0.318mm/0.0125" |
| 13 | 2.381mm/0.0938" | 31 | 0.278mm/0.0109" |
| 14 | 1.984mm/0.0781" | 32 | 0.258mm/0.0102" |
| 15 | 1.786mm/0.0703" | 33 | 0.238mm/0.0094" |
| 16 | 1.588mm/0.0625" | 34 | 0.218mm/0.0086" |
| 17 | 1.429mm/0.0563" | 35 | 0.198mm/0.0078" |
| | | 36 | 0.179mm/0.0070" |

- For gaging sheet metal, plate iron and steelHardened to HRC50-57

| Code | Range |
|------|-------------------------------------|
| 4809 | 0-36 (7.938-0.179mm/0.3125-0.0070") |

WIRE GAGE





| For gaging non-ferrous wire and metals |
|--|
| such as copper, brass and aluminum |

- Hardened to HRC51-53
- Including 2 pcs wire gages

| Code | Range | | |
|--------|----------|--|--|
| 4803-1 | 0.2-10mm | | |

| wire diameter (W) | wire diameter (W) | wire diameter (W) | |
|-------------------|-------------------|-------------------|--|
| 0.200mm | 0.900mm | 3.55mm | |
| 0.224mm | 1.000mm | 3.75mm | |
| 0.250mm | 1.120mm | 4.00mm | |
| 0.280mm | 1.250mm | 4.25mm | |
| 0.315mm | 1.400mm | 4.50mm | |
| 0.355mm | 1.500mm | 5.00mm | |
| 0.400mm | 1.60mm | 5.60mm | |
| 0.450mm | 1.80mm | 6.30mm | |
| 0.500mm | 2.00mm | 7.10mm | |
| 0.560mm | 2.24mm | 8.00mm | |
| 0.630mm | 2.50mm | 9.00mm | |
| 0.710mm | 2.80mm | 10.00mm | |
| 0.750mm | 3.00mm | | |
| 0.800mm | 3.15mm | | |
| | | | |

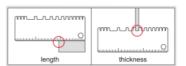
THICKNESS GAGE



4853-1



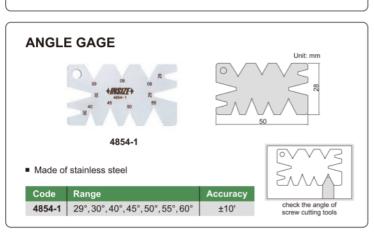
■ Made of stainless steel



| Code | Measurement | Range | Graduation | Accuracy |
|--------|-------------|--|------------|----------|
| 4853-1 | length | 0-2 3/4" | 1/16" | 1/32" |
| | thickness | 24GA. (0.0239"), 22GA. (0.0299"), 20GA.(0.0359") | | ±0.002" |
| | | 18GA. (0.0478"), 16GA. (0.0598"), 14GA. (0.0747"), 1/8" (0.125"),10GA. (0.1345"), 3/16" (0.1875"), | _ | ±0.004" |
| | | 1/4" (0.250"), 5/16" (0.3125") 0.024", 0.030", 0.035" | | ±0.002" |





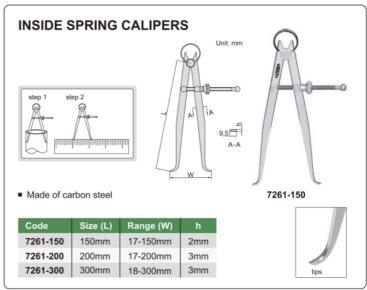


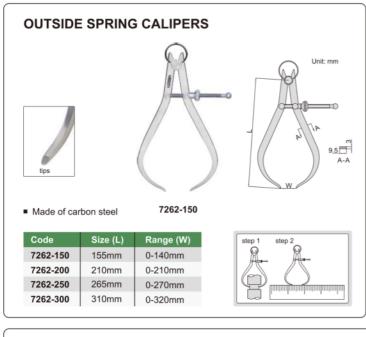
±0.5mm

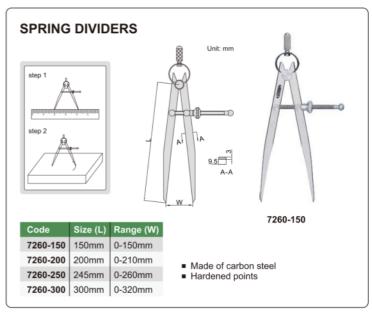
4843-1

±0.5°



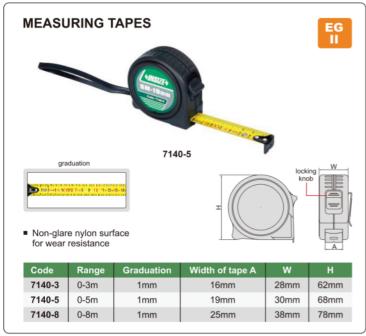








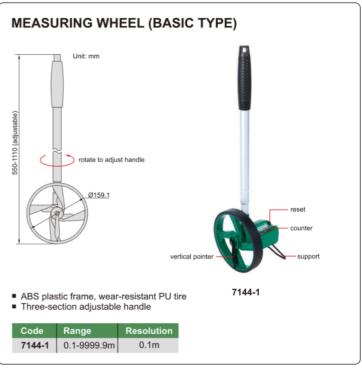


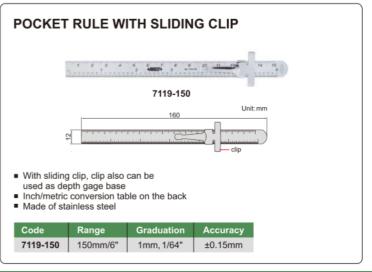














STEEL RULES



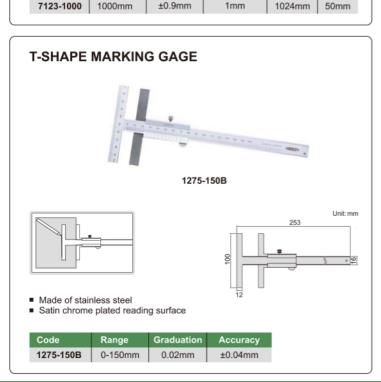
7110-300

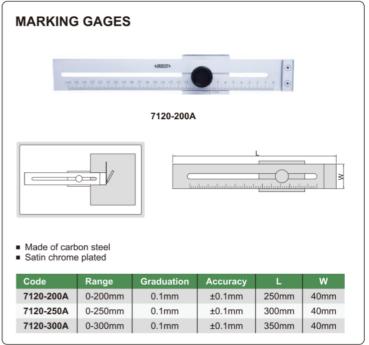


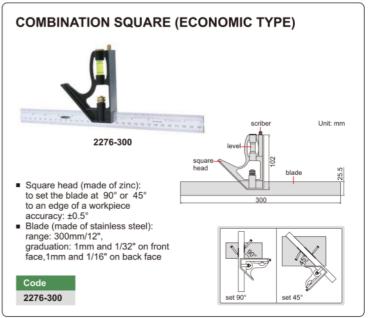
- Graduation: 0.5mm, 1mm, 1/64", 1/32", 1/16"
- Rigid rules
- Made of stainless steel
- Non-glare surface

| | | | | | | (mm) |
|-----------|------------|----------|------|----|-----|------------------------------|
| Code | Range | Accuracy | L | W | Н | Remark |
| 7110-150 | 150mm/6" | ±0.18mm | 170 | 18 | 1.0 | graduation on front and back |
| 7110-200 | 200mm/8" | ±0.18mm | 220 | 18 | 1.0 | graduation on front and back |
| 7110-300 | 300mm/12" | ±0.27mm | 330 | 25 | 1.0 | graduation on front and back |
| 7110-3001 | 300mm/12" | ±0.27mm | 325 | 30 | 1.0 | graduation on front and back |
| 7110-500 | 500mm/20" | ±0.27mm | 530 | 30 | 1.2 | graduation on front and back |
| 7110-600 | 600mm/24" | ±0.45mm | 630 | 30 | 1.2 | graduation on front and back |
| 7110-1000 | 1000mm/40" | ±0.45mm | 1040 | 32 | 1.5 | graduation on front and back |
| 7110-1500 | 1500mm/60" | ±0.63mm | 1550 | 38 | 1.8 | graduation on front |
| 7110-2000 | 2000mm/80" | ±0.80mm | 2065 | 40 | 2.0 | graduation on front |

ALUMINUM RULES 7123-300 ■ Made of aluminum, oxidized surface Graduation Code Range (L) Accuracy 7123-300 300mm ±0.5mm 50mm 1mm 321mm 7123-600 600mm +0.9mm 1mm 624mm 50mm ±0.9mm









COMBINATION SQUARE SETS

- Center head (made of cast iron): to locate center of cylinder with diameter (Ød): 30-100mm accuracy: ±0.15mm
- Protractor head (made of cast iron): to set the blade at desired angle to an edge of a workpiece, and can be used to measure angles range: 0-180°, accuracy: ±20min.
- Square head (made of cast iron): to set the blade at 90° or 45° to an edge of a workpiece accuracy: ±8min for 90° square, ±10min for 45° square
- Blade (made of stainless steel): range: 300mm/12", graduation: 0.5mm and 1/32" on front face, 1mm and1/64" on back face
- Optional accessory: rigid rule (code 7113)

