WATERPROOF DIGITAL PROTRACTOR (HEAVY DUTY)

AUTOMATIC BACKLIGHT   **ABSOLUTE LEVEL**   **IP54 WATERPROOF**

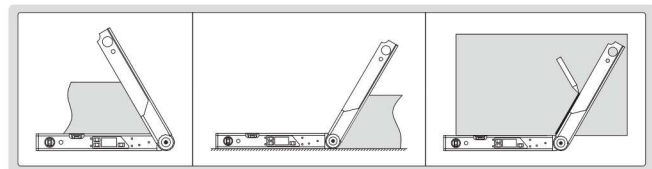Unit: mm

longitudinal vial

transverse vial
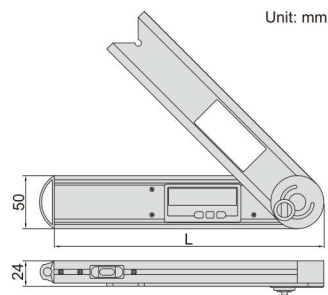
60

L

35

made of aluminum
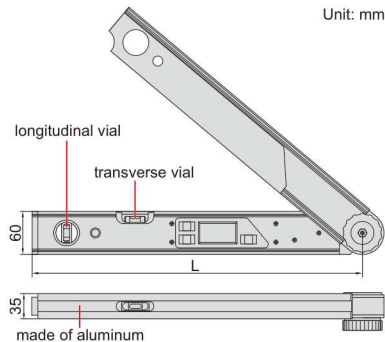
2174-225

- Suitable for setting horizontal and vertical mitre angles of cutting machines
- Buttons: ON/OFF, HOLD/SUP, SPR/CNR/MTR/BVL
- IP54 dust/waterproof
- With transverse and longitudinal vials
- 2xAAA batteries
- Absolute level, zero setting is not needed when batteries are replaced
- Backlight turns off in one minute after reading is stable, automatic power off in 5 minutes

Code	Size (L)	Range	Resolution	Accuracy
2174-225	460mm	0-225°	0.05°	±0.10°

DIGITAL PROTRACTOR

made of stainless steel

level vial

made of aluminum

analogue quadrant

locking screw

Unit: mm

50

L

24

2171-250

- Buttons: on/off, hold (keep the reading), zero, ABS (absolute and incremental measurement)
- Fix the locking screw at 4 positions for different measuring ranges: 0°~225°, -225°~0°, -45°~180°, -180°~45°
- Remove the locking screw for 360° range
- With level vial
- Battery CR2032, automatic power off

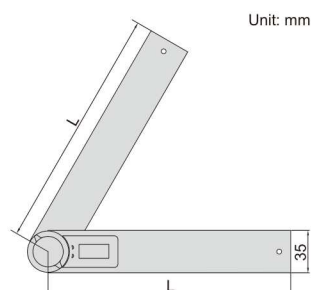| Code	Size (L)	Range	Resolution	Accuracy
2171-250	250mm	0-360°	0.05°	±0.15°

https://precishop.hu
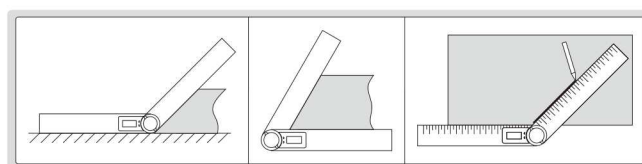
DIGITAL PROTRACTORS

Unit: mm
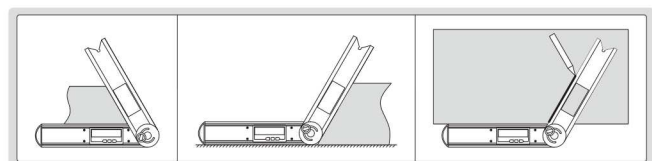
2176-200

- Buttons: on/off, zero
- With clamping screw to lock the blades
- Graduation of blade: 1mm and 1/32"
- Made of stainless steel
- CR2032 battery
- Automatic power off

Code	Size (L)	Range	Resolution	Accuracy
2176-200	200mm	0-360°	0.1°	±0.3°
2176-300	300mm	0-360°	0.1°	±0.3°

DIGITAL PROTRACTORS

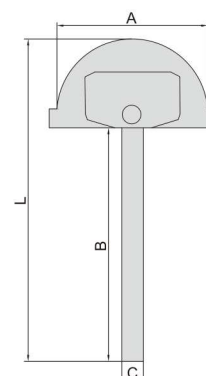**ATTENTION: NO DATA OUTPUT**

the reading can turn over

4779-120

- Range: 0-180°
- Buttons: on/off, zero, hold/turn
- Made of stainless steel
- With clamping screw

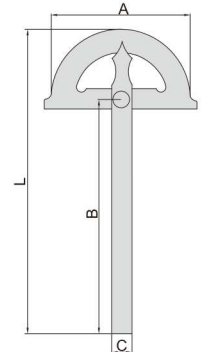| Code	Size (AxB)	Resolution	Accuracy	L	C
4779-120	120×150mm	0.05°	±0.3°	221mm	22mm
4779-150	150×200mm	0.05°	±0.3°	286mm	22mm
4779-200	200×300mm	0.05°	±0.3°	409mm	22mm

https://precishop.hu

PROTRACTORS

- Graduation: 1°
- Made of stainless steel
  (**4799-1300** is made of carbon steel)
- Satin chrome plated scale
- With clamping screw

4799-180

Code	Size (AxB)	Range	Accuracy	L	C
4799-180	80x120mm	0-180°	±0.3°	168mm	11mm
4799-1120	120x150mm	0-180°	±0.3°	220mm	14mm
4799-1150	150x200mm	0-180°	±0.3°	285mm	16mm
4799-1200	200x300mm	0-180°	±0.3°	413mm	20mm
4799-1300	300x500mm	0-180°	±0.3°	675mm	30mm

DIGITAL PROTRACTORS
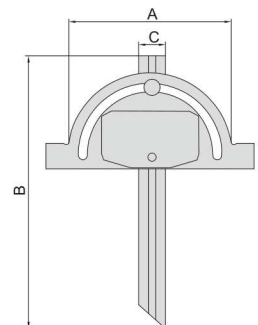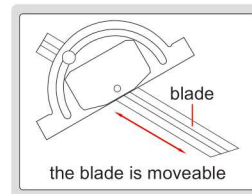
10

ATTENTION: NO DATA OUTPUT

the reading can turn over

4778-100

- Range: 0-180°
- Buttons: on/off, zero, hold/turn
- Made of stainless steel
- With clamping screw
- The blade is moveable

blade

the blade is moveable

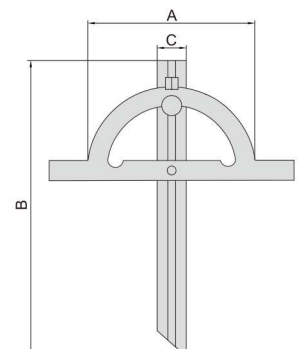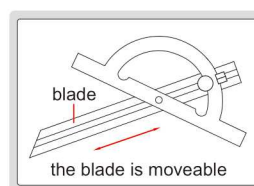| Code	Size (AxB)	Resolution	Accuracy	C
4778-100	126x150mm	0.05°	±0.3°	22mm
4778-150	150x300mm	0.05°	±0.3°	22mm
4778-200	200x400mm	0.05°	±0.3°	24mm

PROTRACTORS

- Graduation: 1°
- Made of carbon steel
- Satin chrome plated
- With clamping screw
- The blade is moveable

4797-100

blade

the blade is moveable

Code	Size (AxB)	Range	Accuracy	C
4797-100	100x150mm	10-170°	±0.3°	18mm
4797-150	150x300mm	10-170°	±0.3°	22mm
4797-200	200x400mm	10-170°	±0.3°	24mm
4797-250	250x500mm	10-170°	±0.3°	28mm
4797-300	300x600mm	10-170°	±0.3°	32mm

https://precishop.hu

PROTRACTORS

Unit: mm

2374-320

2374-320D

positioning block

124
14
25
10
14
45°
150
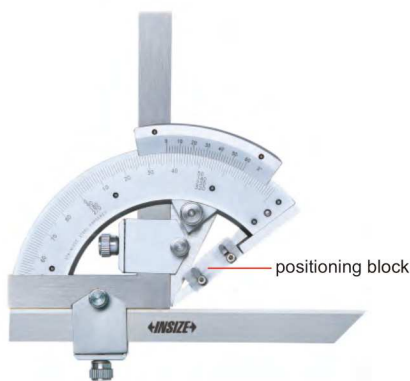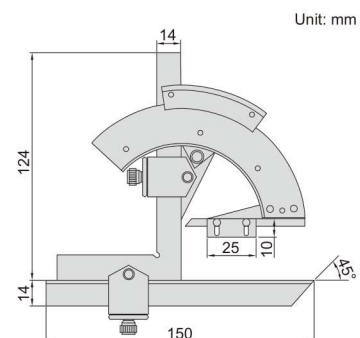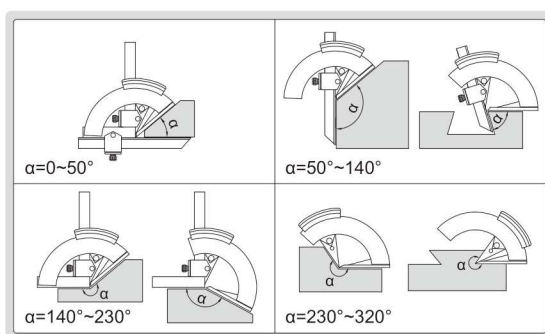
application of **2374-320D**

α=0~50°

α=50°~140°

α=140°~230°

α=230°~320°

- Made of stainless steel
- Satin chrome plated scale
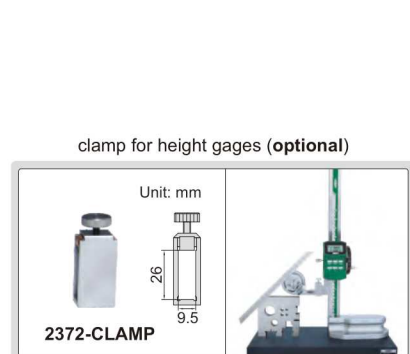
The positioning block can be moved down for positioning, and moved up when not in use

Code	Range	Graduation	Accuracy	Remark
2374-320	0-320°	2'	±2'	without positioning block
2374-320D	0-320°	2'	±2'	with positioning block

10

UNIVERSAL PROTRACTOR

150mm blade (included)

300mm blade (included)

Unit: mm

clamp for height gages (**optional**)

Unit: mm

26
9.5

2372-CLAMP

2372-360

300
Ø70
18
45°
90°
16
85
fine adjustment
16
60°
150
45°
60°
16
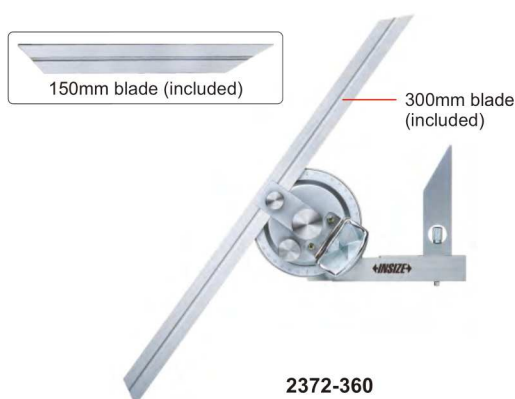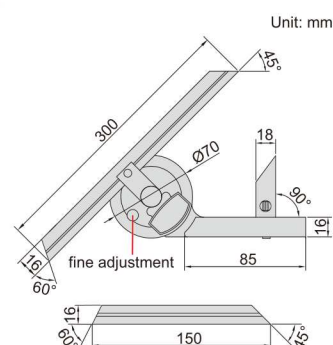
- Parallax-free reading
- Made of stainless steel
- Optional accessory: clamp (code **2372-CLAMP**), suitable for height gages **1156**, **1351** and **1250**

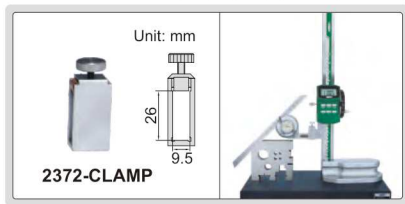| Code	Range	Graduation	Accuracy
2372-360	0-360°	5'	±5'

DIAL PROTRACTOR

clamp for height gages (**optional**)

Unit: mm

26
9.5

2372-CLAMP

150mm blade (included)

300mm blade (included)

Unit: mm

45°
300
Ø38
18
90°
16
85
60°
16
16
150
45°
60°

2373-360

- Made of stainless steel
- Optional accessory: clamp (code **2372-CLAMP**), suitable for height gages **1156**, **1351** and **1250**

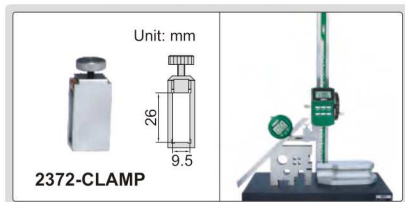| Code	Range	Graduation	Accuracy
2373-360	0-360°	5'	±5'

DIGITAL PROTRACTOR

DATA OUTPUT

VIDEO

clamp for height gages (**optional**)

Unit: mm

26
9.5

2372-CLAMP

150mm blade (included)

square (included)

300mm blade (included)

2172-360A

Unit: mm

45°
300
Ø70
18
90°
80
15.6
fine adjustment
16
60°
16
150
45°
60°

- Display in degree (for example 32.655°) and degree/minute/second (for example 32°39'30")
- SET button: preset the reading, change measuring direction
- MODE button: choose 0~90°, 0~180° or 0~360° display
- ZERO/ON/OFF button: zero and power on/off
- Battery CR2032, automatic power off
- Data output
- Supplied with square to set 90°
- Made of stainless steel
- Optional accessory: data output cable (code **7315-50**, **7302-SPC3B**), clamp (code **2372-CLAMP**), suitable for height gages **1156**, **1351** and **1250**

Code	Range	Resolution	Accuracy
2172-360A	0-360°	10"/0.005°	±5'
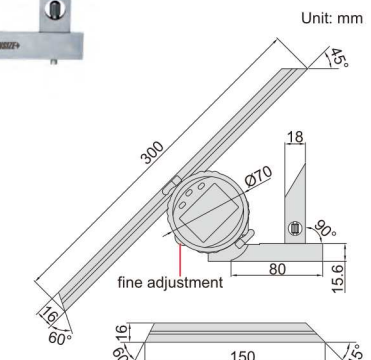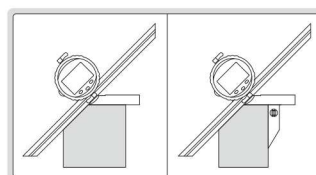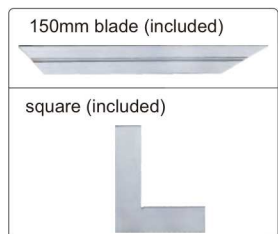
CYLINDER SQUARES

INSPECTION CERTIFICATE

- Made of special alloy steel, hardness HRC58~60
- The handle can be removed

working surface

Unit: mm

working surface
90°   90°
11
L
90°   90°

inspect 90° internal and external angles

working surface
Ø60
working surface

Code	Length (L)	Squareness
4710-200 *	200mm	1μm
4710-300 *	300mm	2μm

* Supplied with manufacturer inspection certificate

4710-200

10

https://precishop.hu
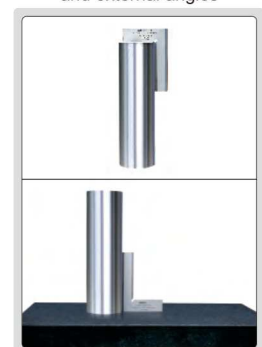
PERPENDICULARITY TESTERS

Unit: mm

35   25

L   63   50   hole Ø8mm

α   β   adjust screw

180   100

dial test indicator is optional
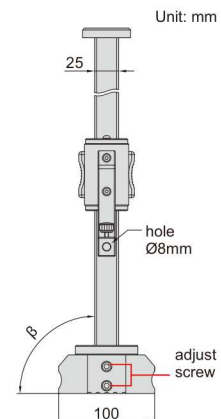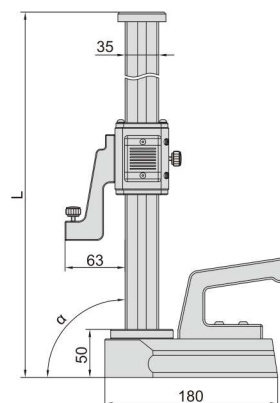
- Optional accessory:
  dial test indicators (graduation: 1µm or 2µm)

4770-300

Code	Range (H)	Perpendicularity (α)	Side perpendicularity (β)	L
4770-300	0-300mm	3µm	10µm	460mm
4770-600	0-600mm	5µm	20µm	760mm

10

GRANITE SQUARES

CUSTOM-MADE
SUPPLY SPECIAL SIZES ACCORDING
TO CUSTOMER'S REQUEST

Ⓐ   90°   Ⓑ W   Ⓓ
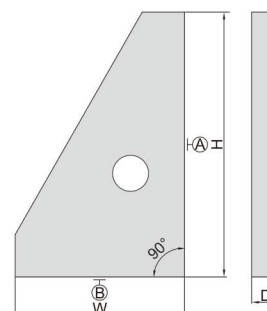
4141-250

Code	Size (HxW)	Flatness of A	Flatness of B	Squareness of A to B	D
4141-250	250x160mm	1µm	1µm	2µm	25mm
4141-400	400x250mm	1.5µm	1µm	3µm	40mm
4141-630	630x400mm	2µm	1.5µm	4µm	63mm

GRANITE SQUARE

CUSTOM-MADE
SUPPLY SPECIAL SIZES ACCORDING
TO CUSTOMER'S REQUEST

Unit: mm

Ⓐ   Ⓓ   Ⓑ   Ⓒ W   40
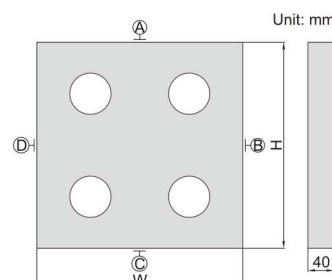
4144-315

Code	Size (HxW)	Flatness of A, B, C and D	Squareness and parallelism between A, B, C and D
4144-315	315x315mm	1.1µm	2.6µm

https://precishop.hu

GRANITE SQUARE WITH V GROOVE

- Parallelism and squareness of A, B, C, D, E and F: 6µm
- Parallelism and squareness of V groove to A, B, C, D, E and F: 6µm

4142-200

Code	Size (LxWxH)	Range of shaft (Ød)
4142-200	200x200x200mm	9~70mm

90° BEVELED EDGE SQUARES

- Satin chrome plating
- Beveled edges for inside and outside measurements
- Made of hardened stainless steel

4790-0100

DIN875 grade 00 (mm)

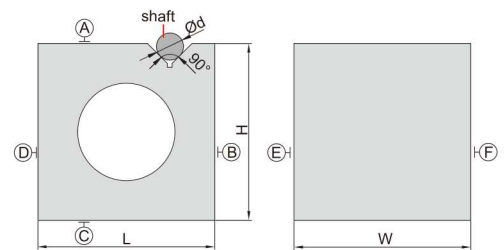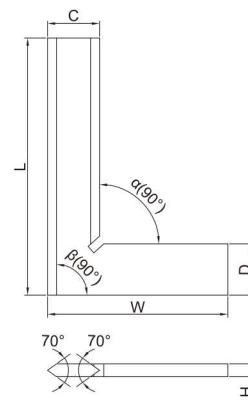| Code	Size (LxW)	Squareness		C	D	H
		Inside (α)	Outside (β)			
4790-050	50x40mm	2.4µm	2.5µm	13	13	4
4790-075	75x50mm	2.6µm	2.8µm	15	15	4
4790-0100	100x70mm	2.8µm	3.0µm	20	20	5
4790-0150	150x100mm	3.2µm	3.5µm	30	30	6
4790-0200	200x130mm	3.7µm	4.0µm	34	34	7
4790-0250	250x165mm	4.2µm	4.5µm	35	35	7
4790-0300	300x200mm	4.6µm	5.0µm	40	40	8

DIN875 grade 0 (mm)

Code	Size (LxW)	Squareness		C	D	H
		Inside (α)	Outside (β)			
4790-500	50x40mm	6µm	6µm	13	13	4
4790-750	75x50mm	6µm	7µm	15	15	4
4790-1000	100x70mm	7µm	7µm	20	20	5
4790-1500	150x100mm	7µm	8µm	30	30	6
4790-2000	200x130mm	8µm	9µm	34	34	7
4790-2500	250x165mm	9µm	10µm	35	35	7
4790-3000	300x200mm	10µm	11µm	40	40	8

90° TOOL MAKER SQUARES

- DIN875 grade 00
- Beveled edge for inside measurement
- Made of hardened stainless steel

4794-040

(mm)

Code	Size (LxW)	Squareness		C	D	H
		Inside (α)	Outside (β)			
4794-025	25x20mm	2.2µm	2.3µm	4	6.5	3.5
4794-040	40x28mm	2.3µm	2.4µm	5.5	8.5	3.5

https://precishop.hu
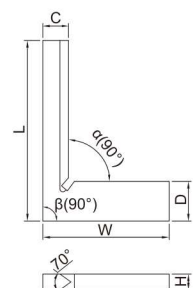
90° FLAT EDGE SQUARES

DIN875 grade 0 (mm)

Code	Size (LxW)	Squareness		C	D	H
		Inside (α)	Outside (β)			
4791-50	50x40mm	6µm	6µm	15	15	4
4791-75	75x50mm	6µm	7µm	15	15	4
4791-100	100x70mm	7µm	7µm	20	20	5
4791-150	150x100mm	7µm	8µm	30	30	6
4791-200	200x130mm	8µm	9µm	30	30	7
4791-250	250x165mm	9µm	10µm	35	35	7
4791-300	300x200mm	10µm	11µm	40	40	8

DIN875 grade 1 (mm)

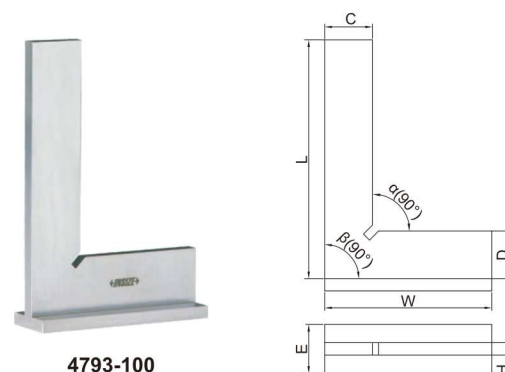| Code	Size (LxW)	Squareness		C	D	H
		Inside (α)	Outside (β)			
4791-501	50x40mm	12µm	13µm	15	15	4
4791-751	75x50mm	13µm	14µm	15	15	4
4791-1001	100x70mm	14µm	15µm	20	20	5
4791-1501	150x100mm	16µm	18µm	30	30	6
4791-2001	200x130mm	19µm	20µm	30	30	6
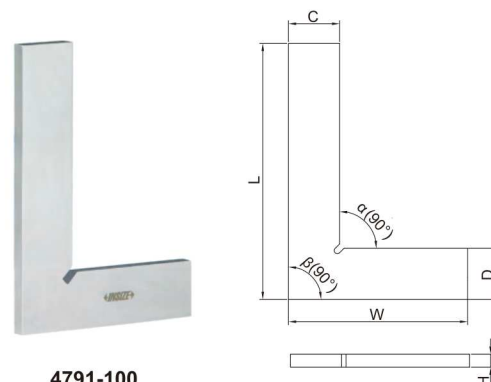
4791-100

- Made of hardened stainless steel

10

90° FLAT EDGE SQUARES WITH WIDE BASE

- DIN875 grade 0
- Made of hardened stainless steel

(mm)

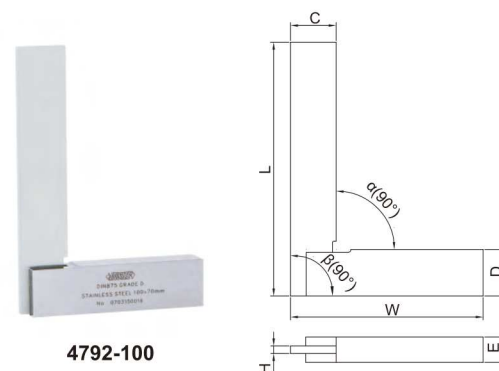| Code	Size (LxW)	Squareness		C	D	H	E
		Inside (α)	Outside (β)				
4793-50	50x40mm	6µm	6µm	13	13	4	13
4793-75	75x50mm	6µm	7µm	15	15	4	15
4793-100	100x70mm	7µm	7µm	20	20	5	20
4793-150	150x100mm	7µm	8µm	30	30	6	30
4793-200	200x130mm	8µm	9µm	30	30	7	30
4793-250	250x165mm	9µm	10µm	35	35	7	35
4793-300	300x200mm	10µm	11µm	40	40	8	40

4793-100

90° FLAT EDGE SQUARES WITH WIDE BASE

- DIN875 grade 0
- Made of hardened stainless steel

(mm)

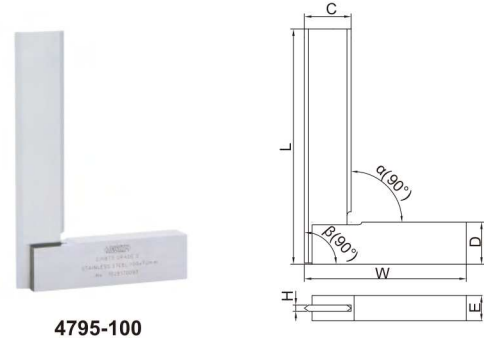| Code	Size (LxW)	Squareness		C	D	H	E
		Inside (α)	Outside (β)				
4792-50	50x40mm	6µm	6µm	12	12	3	10
4792-75	75x50mm	6µm	7µm	14	14	3	10
4792-100	100x70mm	7µm	7µm	18	18	3	10
4792-150	150x100mm	8µm	8µm	22	22	4	12
4792-200	200x130mm	9µm	9µm	25	25	4	12

4792-100

https://precishop.hu

90° BEVELED EDGE SQUARES WITH WIDE BASE

- DIN875 grade 0
- Beveled edges for inside and outside measurements
- Made of hardened stainless steel

(mm)

| Code | Size (LxW) | Squareness | | C | D | H | E |
		Inside (α)	Outside (β)				
4795-50	50x40mm	6µm	6µm	12	12	3	10
4795-75	75x50mm	6µm	7µm	14	14	3	10
4795-100	100x70mm	7µm	7µm	18	18	3	10
4795-150	150x100mm	8µm	8µm	22	22	4	12
4795-200	200x130mm	9µm	9µm	25	25	4	12

4795-100

MACHINIST SQUARES WITH WIDE BASE (ECONOMIC TYPE)

ATTENTION: NO ANTI-RUST TREATMENT, NOT HARDEND

ATTENTION: LOW ACCURACY

- DIN875 grade 2
- Made of carbon steel, no anti-rust treatment, not hardend

(mm)

| Code | Size (LxW) | Squareness | | C | D | H | E |
		Inside (α)	Outside (β)				
4707-50	50x40mm	24µm	25µm	16	12	3	9
4707-75	75x50mm	26µm	28µm	16	16	3	9
4707-100	100x70mm	28µm	30µm	19	19	3	12
4707-150	150x100mm	33µm	35µm	25	25	3	16
4707-200	200x130mm	37µm	40µm	30	32	4	16
4707-250	250x165mm	42µm	45µm	30	32	4	19
4707-300	300x200mm	47µm	50µm	32	32	4	19
4707-400	400x250mm	56µm	60µm	38	38	5	22
4707-500	500x300mm	65µm	70µm	45	50	6	25
4707-600	600x350mm	75µm	80µm	50	50	6	30
4707-750	750x400mm	90µm	95µm	55	55	6	50
4707-900	900x500mm	103µm	110µm	65	75	9	50
4707-1000	1000x550mm	113µm	120µm	65	75	9	50

4707-100

MACHINIST SQUARES (ECONOMIC TYPE)

ATTENTION: NO ANTI-RUST TREATMENT, NOT HARDEND

ATTENTION: LOW ACCURACY

- DIN875 grade 2
- Made of carbon steel, no anti-rust treatment, not hardend

(mm)

| Code | Size (LxW) | Squareness | | C | D | H |
		Inside (α)	Outside (β)			
4796-50	50×30mm	24µm	25µm	12	12	3
4796-75	75×50mm	26µm	28µm	16	16	3
4796-100	100×70mm	28µm	30µm	19	19	5
4796-125	125×80mm	30µm	33µm	22	22	5
4796-150	150×100mm	33µm	35µm	25	25	6
4796-200	200×130mm	38µm	40µm	25	25	6
4796-250	250×165mm	43µm	45µm	25	25	6
4796-300	300×200mm	47µm	50µm	30	30	6
4796-350	350×200mm	51µm	55µm	38	38	6
4796-400	400×200mm	56µm	60µm	38	38	9
4796-450	450×250mm	58µm	65µm	38	38	9
4796-500	500×300mm	69µm	70µm	38	38	9

4796-150

https://precishop.hu

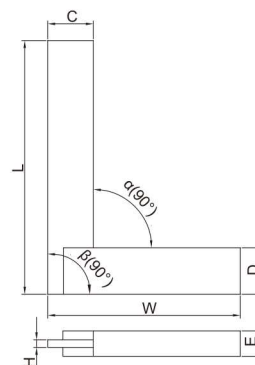## MACHINIST SQUARES WITH WIDE BASE AND SCALE (ECONOMIC TYPE)

ATTENTION: NO ANTI-RUST TREATMENT, NOT HARDEND

ATTENTION: LOW ACCURACY

- DIN875 grade 2
- Made of carbon steel, no anti-rust treatment, not hardend

4711-100

Code	Size (LxW)	Squareness Inside (α)	Squareness Outside (β)	C	D	H	E
4711-50	50×30mm	24µm	25µm	16mm	12mm	2.5mm	9mm
4711-75	75×50mm	26µm	28µm	16mm	16mm	2.5mm	9mm
4711-100	100×70mm	28µm	30µm	19mm	19mm	3mm	12mm
4711-150	150×100mm	33µm	35µm	25mm	25mm	3mm	16mm
4711-200	200×130mm	37µm	40µm	30mm	32mm	3mm	16mm
4711-250	250×165mm	42µm	45µm	30mm	32mm	3mm	19mm
4711-300	300×200mm	47µm	50µm	32mm	32mm	3mm	19mm
4711-400	400×200mm	56µm	60µm	38mm	38mm	4.5mm	22mm
4711-500	500×300mm	65µm	70µm	44mm	50mm	6mm	25mm
4711-600	600×350mm	75µm	80µm	50mm	50mm	6mm	30mm
4711-750	750×400mm	90µm	95µm	55mm	55mm	6mm	50mm

10

MAGNALIUM 90° FLAT EDGE SQUARES WITH WIDE BASE

ATTENTION: LOW ACCURACY

- Made of magnalium, light weight, non-deform, no rusty
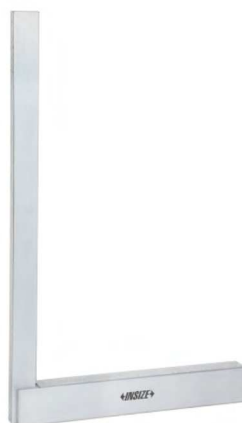
4705-630
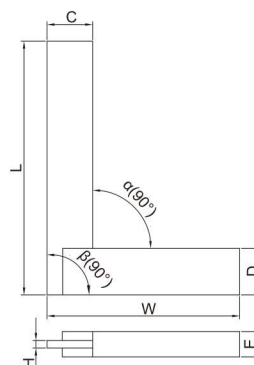
| Code	Size (L×W)	Squareness Inside (α)	Squareness Outside (β)	C	D	H	E	Weight
4705-630	630×400mm	107µm	113µm	40mm	60mm	18mm	40mm	5kg
4705-800	800×500mm	123µm	130µm	50mm	70mm	25mm	50mm	7kg
4705-1000	1000×630mm	143µm	150µm	50mm	70mm	25mm	50mm	9kg
4705-1250	1250×800mm	168µm	175µm	50mm	70mm	25mm	50mm	11kg
4705-1600	1600×1000mm	203µm	210µm	50mm	70mm	25mm	50mm	13kg
4705-2000	2000×1250mm	243µm	250µm	50mm	70mm	25mm	50mm	15kg
4705-2600	2600×1500mm	303µm	310µm	50mm	70mm	25mm	50mm	20kg

ADJUSTABLE SQUARE

- The straight edge can move and can be locked by the clamping screw
- Made of hardened stainless steel
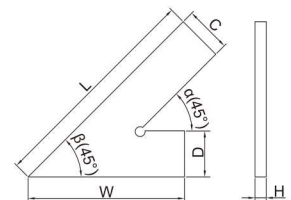
Unit: mm

Code	Squareness (a, b, c, d)
4701-1	7μm
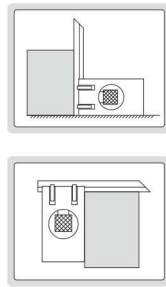
4701-1
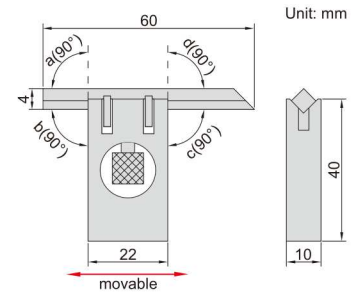
45° SQUARES

- Made of hardened stainless steel

(mm)

Code	Size (LxW)	Accuracy		C	D	H
		Inside (α)	Outside (β)			
4745-1120	120x80mm	29μm	32μm	20	20	5
4745-1150	150x100mm	32μm	35μm	20	20	5
4745-1200	200x130mm	36μm	40μm	25	25	5

4745-1120

45° SQUARES WITH WIDE BASE

- Made of hardened stainless steel

(mm)

Code	Size (LxW)	Accuracy		C	D	H	E
		Inside (α)	Outside (β)				
4747-120	120x80mm	29μm	33μm	20	20	5	20
4747-150	150x100mm	32μm	36μm	20	20	5	20
4747-200	200x130mm	36μm	41μm	25	25	5	25

4747-120
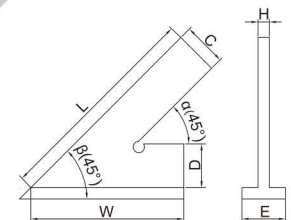
60° SQUARES

- Made of hardened stainless steel

(mm)

Code	Size (LxW)	Accuracy		C	D	H
		Inside (α)	Outside (β)			
4760-1120	120x80mm	30μm	32μm	20	20	5
4760-1150	150x100mm	32μm	35μm	20	20	5
4760-1200	200x130mm	37μm	40μm	25	25	5

4760-1120

10

https://precishop.hu
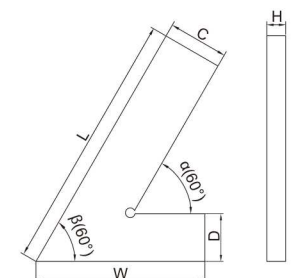
60° SQUARES WITH WIDE BASE

- Made of hardened stainless steel

(mm)
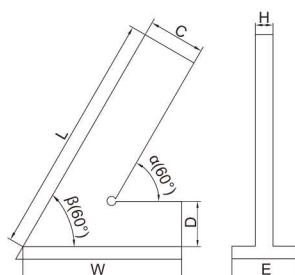
Code	Size (LxW)	Accuracy		C	D	H	E
		Inside (α)	Outside (β)				
4762-120	120x80mm	30µm	33µm	20	20	5	20
4762-150	150x100mm	33µm	36µm	20	20	5	20
4762-200	200x130mm	37µm	41µm	25	25	5	25

4762-120

120° SQUARES

(mm)
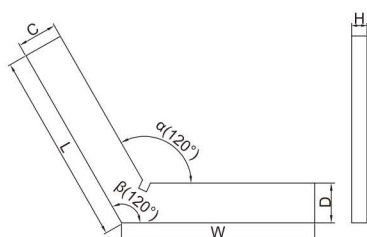
Code	Size (LxW)	Accuracy		C	D	H
		Inside (α)	Outside (β)			
4706-150	50x50mm	24µm	25µm	15	15	5
4706-175	75x75mm	26µm	28µm	20	20	5
4706-1100	100x100mm	29µm	30µm	20	20	5
4706-1150	150x150mm	34µm	35µm	25	25	5
4706-1200	200x200mm	38µm	40µm	30	30	7

4706-1100

- Made of hardened stainless steel

135° SQUARES WITH WIDE BASE

(mm)
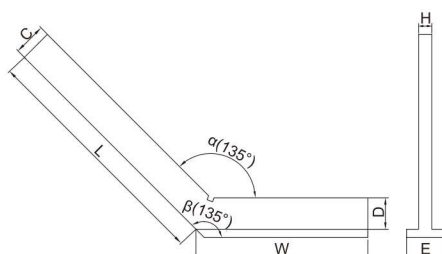
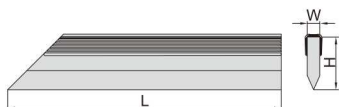| Code	Size (LxW)	Accuracy		C	D	H	E
		Inside (α)	Outside (β)				
4754-3120	120x80mm	31µm	33µm	20	20	5	20
4754-3150	150x100mm	34µm	36µm	20	20	5	20
4754-3200	200x130mm	39µm	41µm	30	30	7	30

4754-3120

- Made of hardened stainless steel

https://precishop.hu

STRAIGHT EDGES

4700-100

- DIN874
- Beveled edge
- Made of hardened stainless steel
- Satin chrome plating

Code	Size (L)	Straightness	W	H
4700-50	50mm	2.2µm	5mm	20mm
4700-75	75mm	2.3µm	5mm	25mm
4700-100	100mm	2.4µm	5mm	25mm
4700-125	125mm	2.5µm	6mm	30mm
4700-150	150mm	2.6µm	6mm	30mm
4700-200	200mm	2.8µm	6mm	30mm
4700-250	250mm	3.0µm	8mm	40mm
4700-300	300mm	3.2µm	8mm	40mm
4700-400	400mm	3.6µm	10mm	50mm
4700-500	500mm	4.0µm	10mm	50mm

SQUARE SET

- Includes:
    - 90° tool maker square 25x20mm DIN875 grade 00 (code **4794-025**)
    - 90° tool maker square 40x28mm DIN875 grade 00 (code **4794-040**)
    - 90° beveled edge square 75x50mm DIN875 grade 00 (code **4790-075**)
    - straight edge 100mm DIN874 (code **4700-100**)
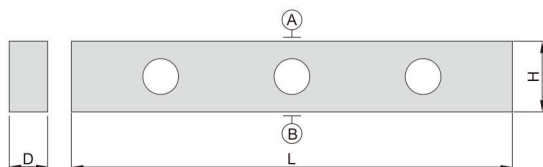   - scriber
- Made of hardened stainless steel

Code
4702-1

Unit: mm
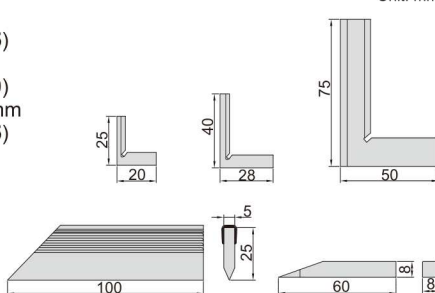
4702-1

GRANITE STRAIGHT EDGES

4147-500A

Code	Length (L)	Flatness of A and B	Parallelism between A and B	D	H
4147-500A	500mm	2.1µm	3.2µm	50mm	80mm
4147-1000A	1000mm	3.0µm	4.5µm	60mm	120mm

MAGNALIUM STRAIGHT EDGES

LIGHT WEIGHT

- Made of magnalium, light weight, non-deform, no rusty
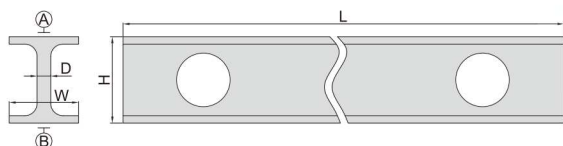
4180-1500

Code	Length (L)	Flatness of A and B	Parallelism between A and B	H	W	D	Weight
4180-500	500mm	3µm	4µm	60mm	30mm	5mm	1kg
4180-1000	1000mm	5µm	8µm	60mm	30mm	5mm	1.5kg
4180-1500	1500mm	15µm	22µm	100mm	40mm	7mm	4.5kg
4180-2000	2000mm	18µm	27µm	100mm	40mm	7mm	6kg
4180-2500	2500mm	22µm	33µm	100mm	40mm	7mm	7.5kg
4180-3000	3000mm	48µm	72µm	150mm	80mm	8mm	21kg

10

https://precishop.hu

PRECISION STRAIGHT EDGES

7117-300

- Check flatness and for marking
- Made of tool steel

check flatness

marking
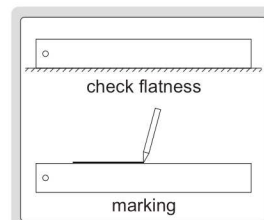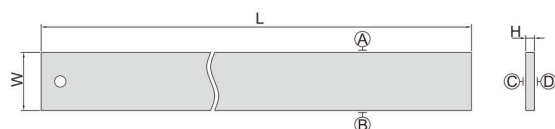
Code	Range (L)	Flatness of A and B	Flatness of C and D	W	H
7117-300	305mm	0.005mm	0.05mm	41mm	6.3mm
7117-600	610mm	0.006mm	0.06mm	51mm	7.9mm
7117-900	914mm	0.007mm	0.06mm	64mm	9.5mm

PRECISION STRAIGHT EDGES WITH BEVELED EDGE

7118-300

- Check flatness and for marking
- Made of tool steel

check flatness

marking
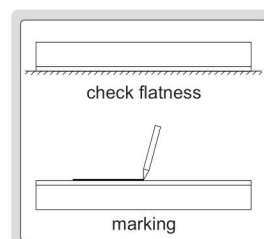
Code	Range (L)	Flatness of A and B	Flatness of C and D	W	H
7118-300	305mm	0.005mm	0.05mm	41mm	6.3mm
7118-600	610mm	0.006mm	0.06mm	51mm	7.9mm
7118-900	914mm	0.007mm	0.06mm	64mm	9.5mm

STRAIGHT EDGES

7111-300A

Unit: mm

- Check flatness and straightness, as well as for marking
- Graduation on the beveled edge
- Made of hardened tool steel
- Chrome plated

check flatness

marking

rule
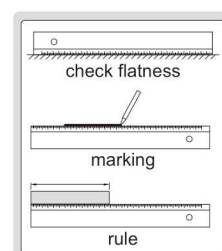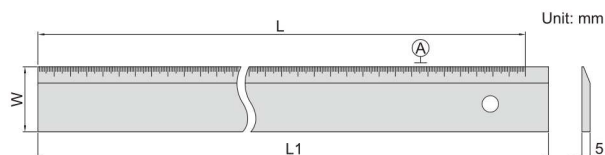
Code	Range (L)	Straightness of A	L1	W
7111-300A	300mm	0.02mm	310mm	40mm
7111-500A	500mm	0.03mm	510mm	40mm
7111-1000A	1000mm	0.04mm	1010mm	50mm

https://precishop.hu
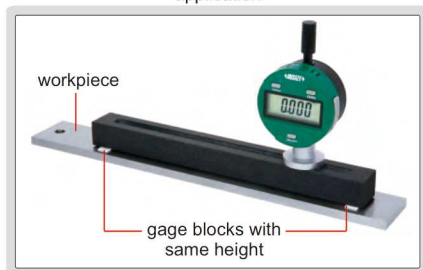
STRAIGHTNESS/FLATNESS GAGE

GRANITE HODLER CAN BE CUSTOMIZED ACCORDING TO WORKPIECES

digital indicator (code **2112-101F**)

stainless steel base

granite holder

2144-200

application

workpiece

gage blocks with same height
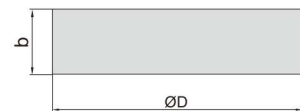
Unit: mm

Ø58

Ø16

Ø30

18

20

230
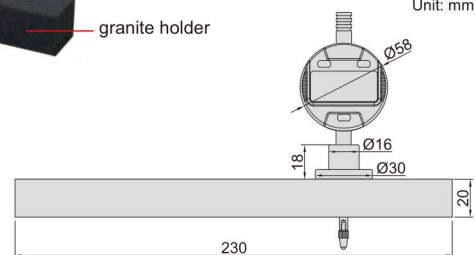
Code	Range	Digital indicator resolution	Straightness measurement accuracy	Parallelism of top and botton surfaces of granite holder	Flatness of top and botton surfaces of granite holder
2144-200	200mm	0.001mm/0.00005"	3µm	2µm	1.5µm

OPTICAL FLATS

- Check flatness
- Single working face, the arrow indicates the working face

4191-45B

b

ØD

Code	b	ØD	Flatness
4191-45A	12mm	45mm	0.03µm
4191-60A	15mm	60mm	0.03µm

Code	b	ØD	Flatness
4191-45B	12mm	45mm	0.1µm
4191-60B	15mm	60mm	0.1µm

FEELER GAGE

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

4601-25

Unit: mm

leaf

75

13

60

140
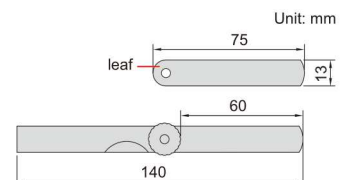
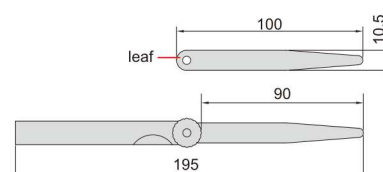| Code	Range	Thickness of leaves included (mm)	Quantity of leaves
4601-25	0.04-1.00mm	0.04, 0.05, 0.06, 0.07, 0.08, 0.09, 0.10, 0.15, 0.20, 0.25, 0.30, 0.35, 0.40, 0.45, 0.50, 0.55, 0.60, 0.65, 0.70, 0.75, 0.80, 0.85, 0.90, 0.95, 1.00	25

https://precishop.hu

FEELER GAGES

4602-20

Unit: mm

leaf

100
10.5

90

195

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

11

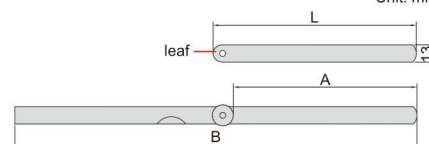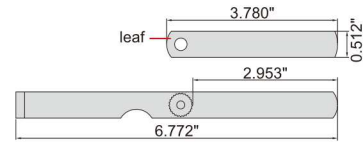| Code	Range	Thickness of leaves included (mm)	Quantity of leaves
4602-13A	0.03-0.50mm	0.03, 0.04, 0.05, 0.06, 0.07, 0.08, 0.09, 0.10, 0.15, 0.20, 0.30, 0.40, 0.50	13
4602-13	0.05-1.00mm	0.05, 0.10, 0.15, 0.20, 0.25, 0.30, 0.40, 0.50, 0.60, 0.70, 0.80, 0.90, 1.00	13
4602-17	0.02-1.00mm	0.02, 0.03, 0.04,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

LONG FEELER GAGES

4605-20

Unit: mm

leaf

L
13

A

B

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

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

https://precishop.hu

INCH FEELER GAGE

4608-31

- 0.010" is made of brass, others are made of hardened alloy steel
- Each blade is marked with inch/metric size

Thickness of leaves included	Accuracy
0.010" (brass)	±0.00039"
0.0015", 0.002"	±0.0002"
0.0025", 0.003", 0.004", 0.005", 0.006", 0.007"	±0.00028"
0.008", 0.009"	±0.00035"
0.010", 0.011"	±0.00039"
0.012", 0.013"	±0.00047"
0.014", 0.015"	±0.00051"

Thickness of leaves included	Accuracy
0.016", 0.017"	±0.00055"
0.018", 0.019"	±0.00059"
0.020", 0.021"	±0.00067"
0.022", 0.023"	±0.00071"
0.024", 0.025", 0.026"	±0.00075"
0.028"	±0.00091"
0.030"	±0.00094"
0.032", 0.035"	±0.00102"

Code	Range	Quantity of Leaves
4608-31	0.0015"~0.035"	32

FEELER GAGE STOCKS

4622-10

- Used as shims to accurately set spacing
- Made of hardened alloy steel
- Length 300mm
- Width 13mm
- 10 pcs per package
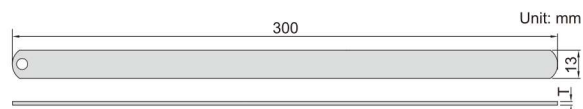
Code	Thickness (T)	Accuracy
4622-02	0.02mm	±3µm
4622-03	0.03mm	±3µm
4622-04	0.04mm	±3µm
4622-05	0.05mm	±3µm
4622-06	0.06mm	±3µm
4622-07	0.07mm	±4µm
4622-08	0.08mm	±4µm
4622-09	0.09mm	±4µm
4622-10	0.10mm	±4µm
4622-12	0.12mm	±5µm

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

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

11

https://precishop.hu

FEELER GAGE TAPES

Code	Thickness (T)	Accuracy	Code	Thickness (T)	Accuracy
4621-02	0.02mm	±4µm	4621-30	0.30mm	±9µm
4621-03	0.03mm	±4µm	4621-35	0.35mm	±11µm
4621-04	0.04mm	±4µm	4621-40	0.40mm	±12µm
4621-05	0.05mm	±4µm	4621-45	0.45mm	±12µm
4621-06	0.06mm	±4µm	4621-50	0.50mm	±14µm
4621-07	0.07mm	±5µm	4621-55	0.55mm	±14µm
4621-08	0.08mm	±5µm	4621-60	0.60mm	±14µm
4621-09	0.09mm	±5µm	4621-65	0.65mm	±14µm
4621-10	0.10mm	±5µm	4621-70	0.70mm	±17µm
4621-12	0.12mm	±5µm	4621-75	0.75mm	±17µm
4621-15	0.15mm	±6µm	4621-80	0.80mm	±19µm
4621-18	0.18mm	±7µm	4621-85	0.85mm	±19µm
4621-20	0.20mm	±8µm	4621-90	0.90mm	±22µm
4621-25	0.25mm	±9µm	4621-95	0.95mm	±22µm
			4621-100	1.00mm	±24µm

4621-30

Unit: mm

5000

13

T

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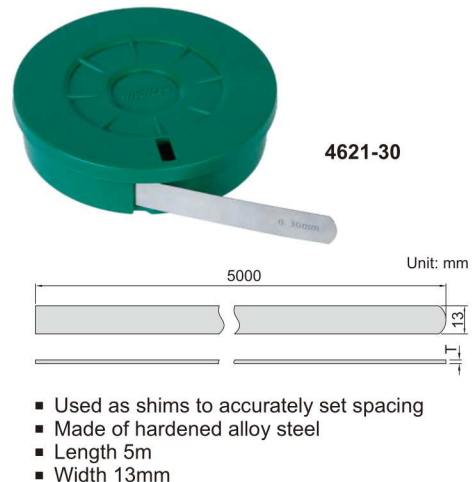
PITCH GAGES

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

4820-122

11
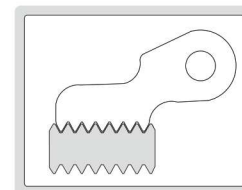
Metric 60° screw

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

Unified 60° screw

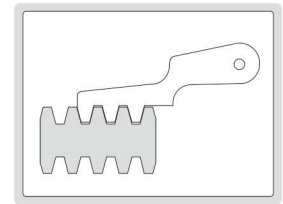| Code	Range	Pitch of leaves included	Quantity of leaves
4820-230	4-42TPI	4, 4-1/2, 5, 5-1/2, 6, 7, 8, 9, 10, 11, 11-1/2, 12, 13, 14, 15, 16, 18, 20, 22, 24, 26, 27, 28, 30, 32, 34, 36, 38, 40, 42TPI	30

Whitworth 55° screw

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

Metric 60° and Whitworth 55° screw

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

Metric 60° and Unified 60° screw

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

https://precishop.hu

PITCH GAGES

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

4824-12

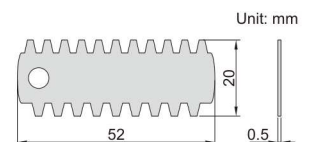| Code	Range	Thread type	Pitch of leaves included	Quantity of leaves
4824-12	2-20mm	Tr 30°	2, 3, 4, 5, 6, 7, 8, 9, 10, 12, 16, 20mm	12
4824-16	1-12TPI	ACME 29°	1, 1-1/3, 1-1/2, 1-3/4, 2, 2-1/2, 3, 3-1/2, 4, 5, 6, 7, 8, 9, 10, 12TPI	16

GEAR TOOTH PITCH GAGES

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

4860-245

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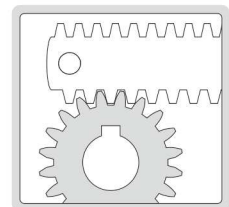
Code	Range	Pressure angle	Quantity of leaves
4860-145	0.35-4.5mm	14.5°	15
4860-245	0.35-4.5mm	20°	15
4860-112	5-12mm	14.5°	8
4860-212	5-12mm	20°	8

CENTER GAGES

Unit: mm

4810-602

check the angle of screw cutting tools | check the angle of screw thread

machine tools | workpiece | pitch

set the position of screw cutting tools | check the screw thread pitch
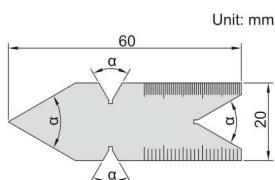
- To check and set screw cutting tools, and check the angle and pitch of screw thread
- Angle accuracy: ±30min.
- Made of stainless steel
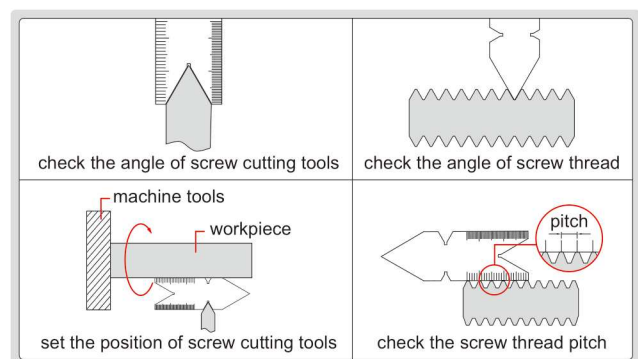
Code	Thread type	Angle (α)	Graduation
4810-601	METRIC 60°	60°	0.5mm and 1mm
4810-602	UNIFIED 60°	60°	14ths and 20ths on front side, 24ths and 32ths on back side
4810-55	WHITWORTH 55°	55°	14ths and 20ths on front side, 24ths and 32ths on back side

11

https://precishop.hu

THREAD GAGES

4812-E

Unit: mm

4812-12   4812-E

- To check and set screw cutting tools
- Made of medium carbon steel

check the angle of screw cutting tools | check the width of screw cutting tools | set the position of screw cutting tools

machine tools
workpiece

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

ANGLE GAGE SET

Angle 1, 2 are primary angle
Angle 3 is complementary angle
Angle 4, 5 are 1/2 primary angle

type A

Angle 1, 2, 3, 4 are primary angle
Angle 5, 6 are complementary angle
Angle 7, 8 are 1/2 primary angle
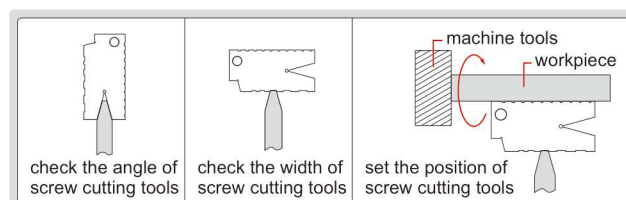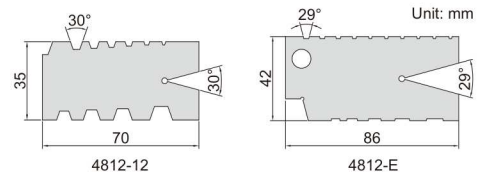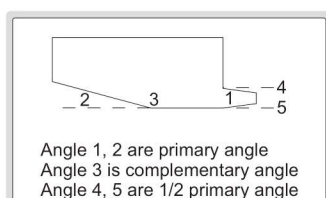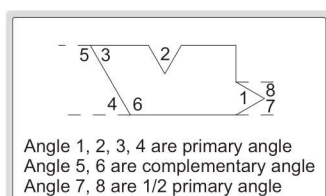
type B

4807

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

Code	Quantity of leaves	Accuracy
4807	18	±10'

Primary angle	½ primary angle	Complementary angle	Type
5°	2°30'	175°	A
10°	5°	170°	A
15°	7°30'	165°	A
20°	10°	160°	B
25°	12°30'	155°	B
30°	15°	150°	B
35°	17°30'	145°	B
40°	20°	140°	B
45°	22°30'	135°	B
50°	25°	130°	B
55°	27°30'	125°	B
60°	30°	120°	B
65°	32°30'	115°	B
70°	35°	110°	B
75°	37°30'	105°	B
80°	40°	100°	B
85°	42°30'	95°	B
90°	45°	90°	B

ANGLE GAGE

- To check complementary angles
- Made of stainless steel

4806-20

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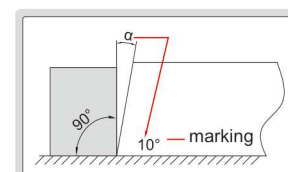
Code	Range (α)	Angle of leaves included	Quantity of leaves	Accuracy
4806-20	1°-45°	1°, 2°, 3°, 4°, 5°, 6°, 7°, 8°, 9°, 10°, 12°, 14°,16°, 18°, 20°, 25°, 30°, 35°, 40°, 45°	20	±30'

RADIUS GAGES

- Made of medium carbon steel

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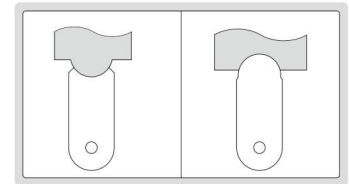
Code	Range	Radius of leaves included (mm)	Quantity of leaves (internal + external)
4801-17	1-7mm	1, 1.25, 1.5, 1.75, 2, 2.25, 2.5, 2.75, 3, 3.5, 4, 4.5, 5, 5.5, 6, 6.5, 7	17+17
4801-16	7.5-15mm	7.5, 8, 8.5, 9, 9.5, 10, 10.5, 11, 11.5, 12, 12.5, 13, 13.5, 14, 14.5, 15	16+16
4801-15	15.5-25mm	15.5, 16,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

RADIUS GAGE

11

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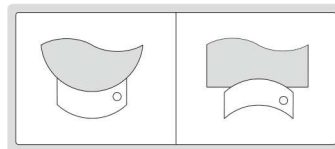
Code	Range	Radius of leaves included (mm)	Quantity of leaves
4802-31	25-40mm	25, 25.5, 26, 26.5, 27, 27.5, 28, 28.5, 29, 29.5, 30, 30.5, 31, 31.5, 32, 32.5, 33, 33.5, 34, 34.5, 35, 35.5, 36, 36.5, 37, 37.5, 38, 38.5, 39, 39.5, 40	31 pcs

4802-31

RADIUS GAGE SET

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

use of handle

3 concave and
2 convex gaging surfaces
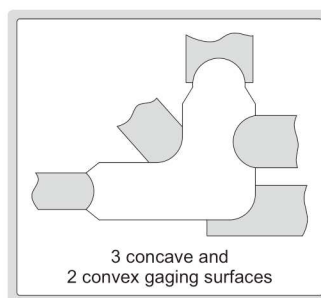
4804-26

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

https://precishop.hu

CHAMFER GAGE

Unit: mm

65
26
10
10
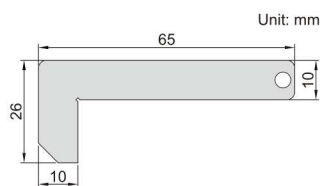
- To measure internal and external chamfers
- Made of stainless steel

Code	Graduation	Accuracy
4844-1	0.5mm	±0.25mm

4844-1

D1
D2

D1
D2

DIGITAL CHAMFER GAGES
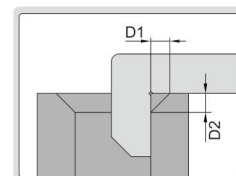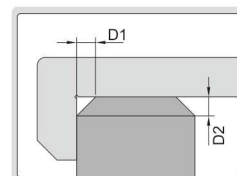
DATA OUTPUT

- Measure 15º/20º/30º/45º/60º chamfer dimension
- Resolution: 0.01mm/0.0005"
- Buttons: on/off, zero, mm/inch
- Automatic power off, move the digital unit to turn on power
- Battery CR2032
- Made of stainless steel

1180-6

Unit: mm
15
22
168
16

With data interface (data output cable code 7315-21, 7302-21, optional)

Code	Range	Accuracy	Chamfer (α)
1180-6	0-10mm/0-0.39"	±0.06mm	45º
1180-61	0-10mm/0-0.39"	±0.06mm	15º
1180-62	0-10mm/0-0.39"	±0.06mm	20º
1180-63	0-10mm/0-0.39"	±0.06mm	30º
1180-66	0-10mm/0-0.39"	±0.06mm	60º

Built-in wireless (receiver code 7315-2/3/6/7/8 is required)

Code	Range	Accuracy	Chamfer (α)
1180-6WL	0-10mm/0-0.39"	±0.06mm	45º
1180-61WL	0-10mm/0-0.39"	±0.06mm	15º
1180-62WL	0-10mm/0-0.39"	±0.06mm	20º
1180-63WL	0-10mm/0-0.39"	±0.06mm	30º
1180-66WL	0-10mm/0-0.39"	±0.06mm	60º

measure chamfer dimension

external chamfer
α
internal chamfer
α

external chamfer
internal chamfer

11
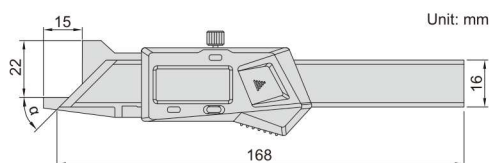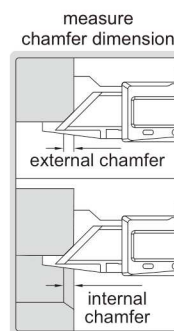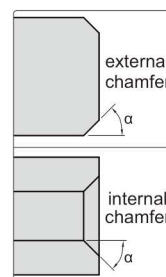
CHAMFER GAGES

- Measure 30º/45º/60º chamfer dimension
- Graduation: 0.02mm
- Made of stainless steel
- Satin chrome plated reading surface

1267-6

measure chamfer dimension

external chamfer
internal chamfer
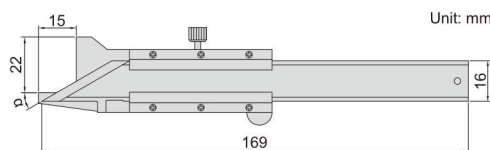
Unit: mm
15
22
169
16
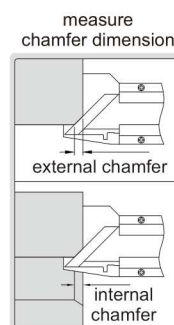
Code	Range	Accuracy	Chamfer (α)
1267-6	0-10mm	±0.06mm	45º
1267-63	0-10mm	±0.06mm	30º
1267-66	0-10mm	±0.06mm	60º

https://precishop.hu

DIGITAL CHAMFER GAGES

1537-8 can measure small workpieces or workpieces with steps
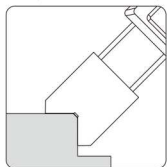
pin gage (included)

- 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
- Date 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

1537-20

1537-8
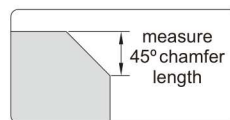
Unit: mm

1537-20

Unit: mm

1537-8

measure 45° chamfer length
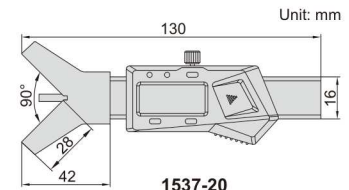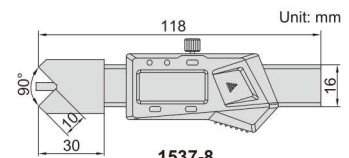
CHAMFER HEIGHT GAGE

INSIZE PLUS
MADE IN EUROPE

setting gage (included)

- Measure outside or inside chamfer height
- Suitable for diameter of bores ≥ 6mm, chamfer angle α ≥ 30°
- Setting gage is included

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

2943-1

Unit: mm

Ø28.3

principle of measurement

Unit: mm

$L = R + b$

L: chamfer height
α: chamfer angle
R: reading of dial indicator
$b = \dfrac{0.15}{\tan\alpha}$
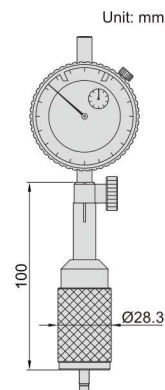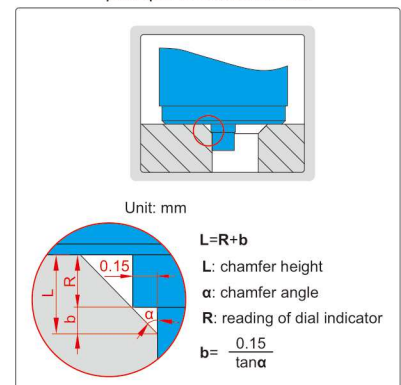
DIGITAL CHAMFER HEIGHT GAGE

INSIZE PLUS
MADE IN EUROPE

setting gage (included)

- Measure outside or inside chamfer height
- Suitable for diameter of bores ≥ 6mm, chamfer angle α ≥ 30°
- Resolution: 0.01mm/0.0005"
- Setting gage is included
- Optional accessory: data output cable (code **7315-50M, 7302-40M**)

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

2944-1

Unit: mm

Ø28.3

principle of measurement

Unit: mm

$L = R + b$

L: chamfer height
α: chamfer angle
R: reading of dial indicator
$b = \dfrac{0.15}{\tan\alpha}$

11

https://precishop.hu
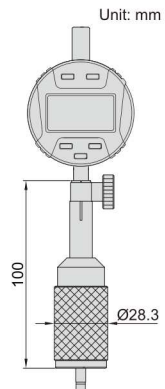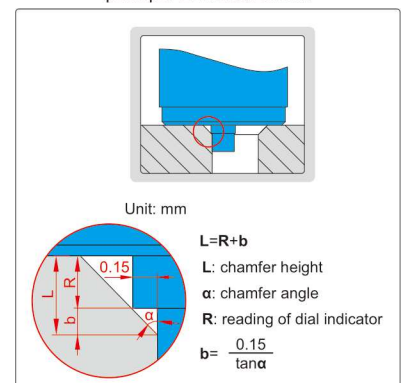
DATA OUTPUT

ATTENTION: ACTUAL SLOT WIDTH IS 1/10 OF THE READING

DIGITAL TAPER SLOT GAGES

1160-10

measure slot width

- Measuring opening, slot width
- Resolution: 0.01mm/0.0005"
- Buttons: on/off, zero, mm/inch
- Automatic power off, move the digital unit to turn on power
- Battery CR2032
- Made of stainless steel

Unit: mm

306

0.2-10mm/0.01-0.39"

306
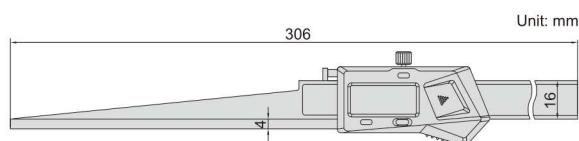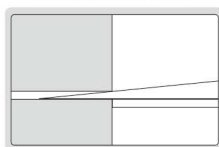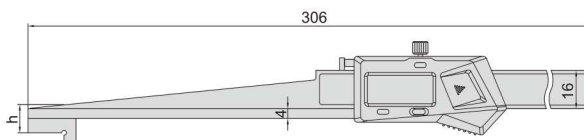
10-20mm/0.39-0.79" up to 30-40mm/1.18-1.58"

With data interface (data output cable code 7315-21, 7302-21, optional)

Code	Range	Accuracy	h
1160-10	0.2-10mm/0.01-0.39"	±0.03mm	—
1160-20	10-20mm/0.39-0.79"	±0.05mm	10mm
1160-30	20-30mm/0.79-1.18"	±0.05mm	20mm
1160-40	30-40mm/1.18-1.58"	±0.05mm	30mm

Built-in wireless (receiver code 7315-2/3/6/7/8 is required)

Code	Range	Accuracy	h
1160-10WL	0.2-10mm/0.01-0.39"	±0.03mm	—
1160-20WL	10-20mm/0.39-0.79"	±0.05mm	10mm
1160-30WL	20-30mm/0.79-1.18"	±0.05mm	20mm
1160-40WL	30-40mm/1.18-1.58"	±0.05mm	30mm

11

TAPER SLOT GAGES

L
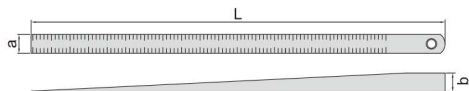
- For quick measurement of slot width
- Satin chrome plated reading surface
- Made of stainless steel

4630-1

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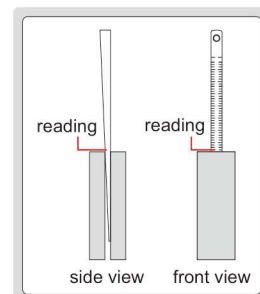
reading

reading

side view

front view

TAPER GAGES

4833-2

front back

measure diameter of hole

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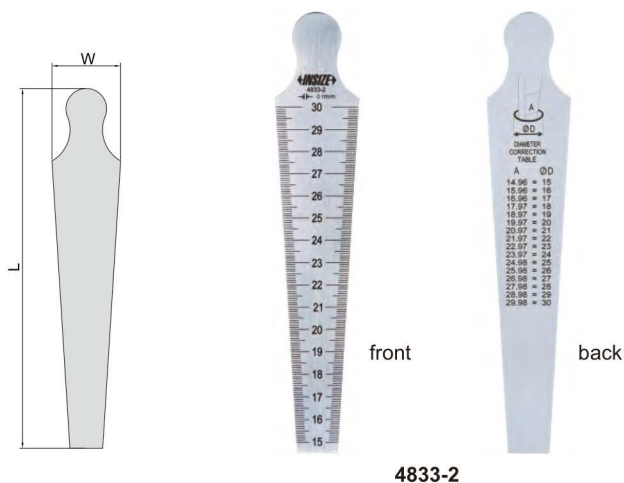
measure slot width

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

(mm)
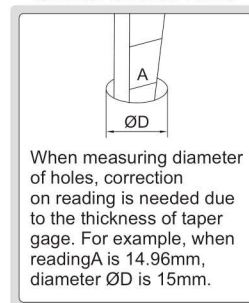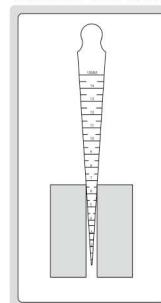
Code	Range	Graduation	Accuracy	L	W
4833-1	0.8-15mm	0.1mm	±0.05mm	146	17
4833-2	15-30mm	0.1mm	±0.05mm	159	30.4
4833-3	30-45mm	0.1mm	±0.05mm	166	45.4
4833-4	45-60mm	0.1mm	±0.05mm	170	60.5

11

TAPER GAGE SET

front **4837-1** back

Unit: mm
133
29.6

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

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

measure diameter of hole

When measuring diameter of holes, correction on reading is needed due to the thickness of taper gage. For example, when readingA is 14.96mm, diameter ØD is 15mm.
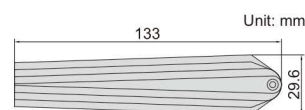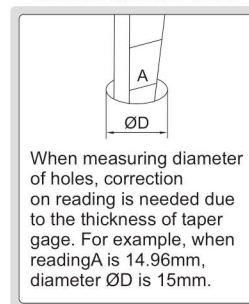
measure slot width
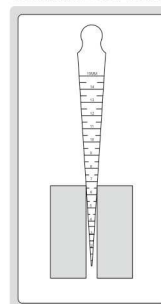
BORE GAGE

- Quick measurement of small bore diameter
- Hardened working face
- Supplied with protection cap

supplied with protection cap

4855-5

Unit: mm
Ø5.1
52
160

Code	Range	Graduation	Accuracy
4855-5	0.1-5mm	0.01mm	±0.03mm

https://precishop.hu
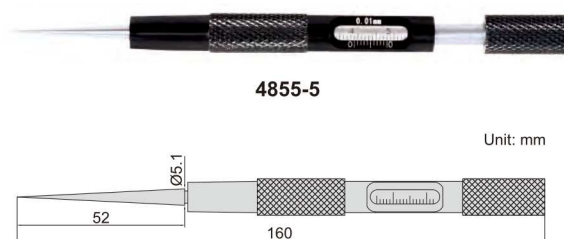
TAPER BORE GAGES

- Quick measurement of bore diameter
- Hardened steel, HRC50-58
- Satin chrome plated surface
- Aluminium oxided handle

(mm)

Code	Range	Graduation	Accuracy	L	Ød1	Ød2
4852-1	1-6.5mm	0.1mm	±0.05mm	62.5	7	0.8
4852-3	3-16mm	0.1mm	±0.05mm	143	17	2.8
4852-15	15-30mm	0.1mm	±0.05mm	165	31	14.7
4852-30	30-45mm	0.1mm	±0.05mm	165	46	29.6
4852-45	45-60mm	0.1mm	±0.05mm	167	61	44.3

4852-15

WELDING GAGE

crown height   fillet weld throat size   angle
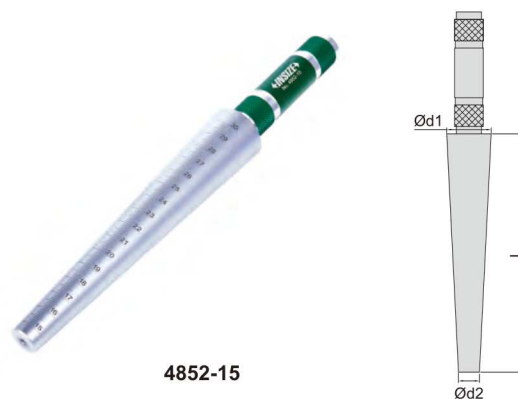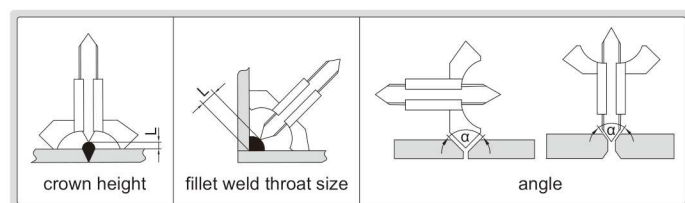
4830

Unit: mm

- Made of stainless steel
- Satin chrome plated reading surface

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

DIGITAL WELDING GAGE
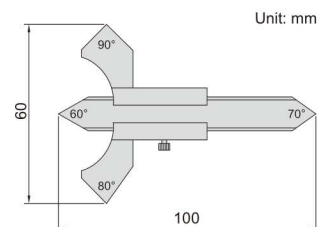
ATTENTION: NO DATA OUTPUT
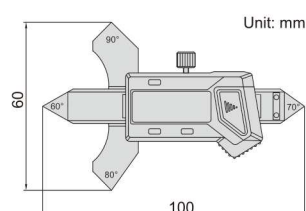
Unit: mm

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

4831-20A

crown height   fillet weld throat size

angle

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

292
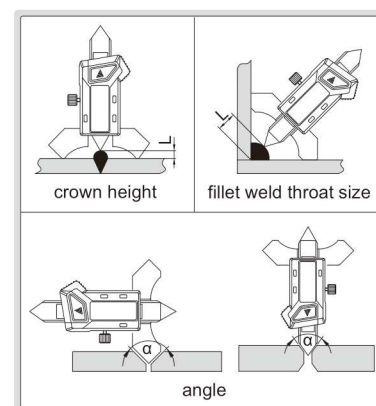
FILLET WELDING GAGES

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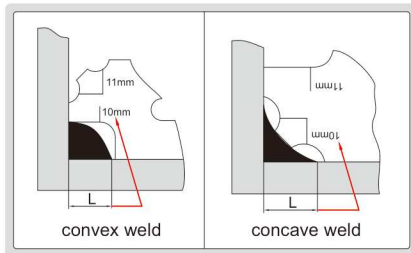
- Measure concave and convex weld sizes
- 7 blades are included
- Made of stainless steel

4836-1   **4836-2**

Unit: mm

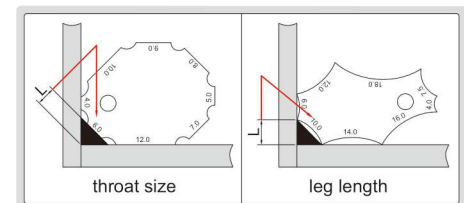| Code	Size	Accuracy
4836-1	3mm, 4mm, 5mm, 6mm, 8mm, 9mm, 10mm, 11mm, 12mm, 14mm, 16mm, 19mm, 22mm, 25mm	±0.5mm
4836-2	1/8" (3.2mm), 3/16" (4.8mm), 1/4" (6.4mm), 5/16" (7.9mm), 3/8" (9.5mm), 7/16" (11.1mm), 1/2" (12.7mm), 5/8" (15.9mm), 3/4" (19.1mm), 7/8" (22.2mm), 1" (25.4mm)	±0.02" (0.5mm)

FILLET WELDING GAGE

Unit: mm
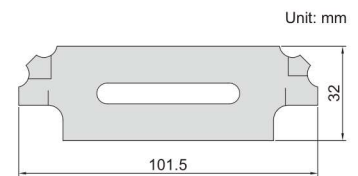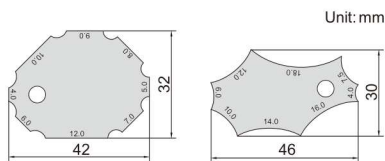
- Made of stainless steel
- Sizes marked on both faces

4832-1

throat size   leg length

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

WELDING GAGE

locking screw   Unit: mm
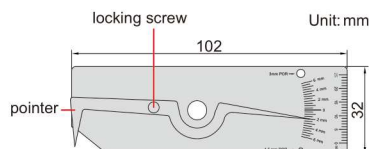
pointer

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

4834-1

undercut depth   crown height

porosity size comparison   amount of porosity per 25mm

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	—

11

https://precishop.hu

WELDING GAGE

Unit: mm

- Made of stainless steel

4848-1

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

misalignment (high-low)   length   gap

angle of preparation   thickness
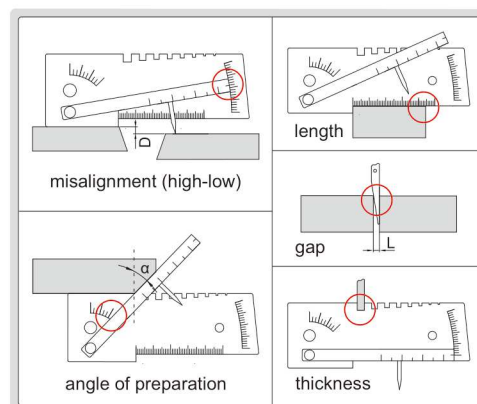
FILLET WELDING GAGE

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

convex weld size   length
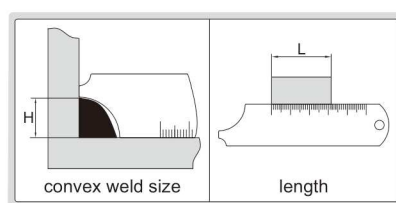
4847-1

Unit: mm

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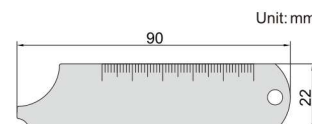
WELDING GAGE

front   back

6832-1

Unit: mm

- Made of stainless steel
- Satin 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

leg length   leg height   crown height   throat size

angle   gap   length

11

WELDING GAGE

front   back
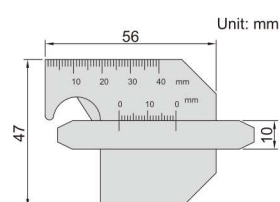
4835-1

scale

pointer

Unit: mm
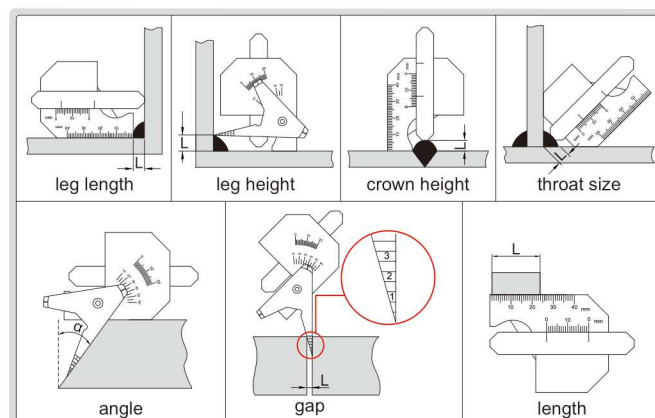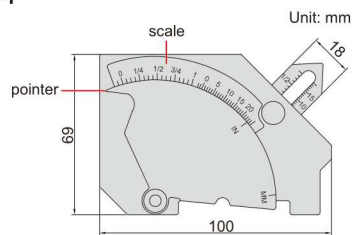
- Adjustable scale to compensate pointer wear
- Made of stainless steel

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

crown height   fillet weld leg height

misalignment (high-low)   undercut depth

fillet weld throat size   angle of preparation

length   45° angle

WELDING GAGES

crown height   leg height   weld length   angle

undercut depth   throat size   gap   length

- Made of stainless steel

front   **4838-1**   back

front   **4838-2**   back

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

https://precishop.hu
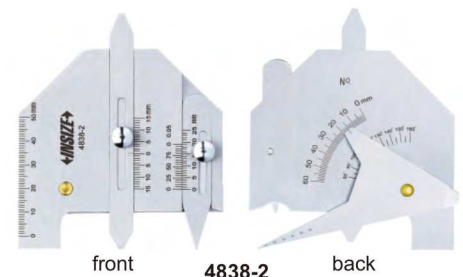
WELDING UNDERCUT GAGE

application

light gap

h
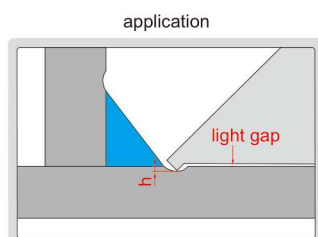
when there is a light gap, h<0.25mm;
when there is no light gap, h≥0.25mm
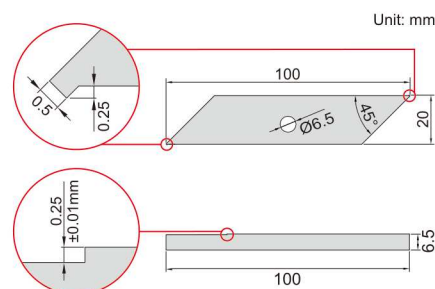
- Measure undercut
- Calibration block is included
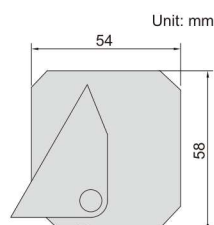- Made of stainless steel

INSIZE
4849-1

4849-1

calibration block (included)

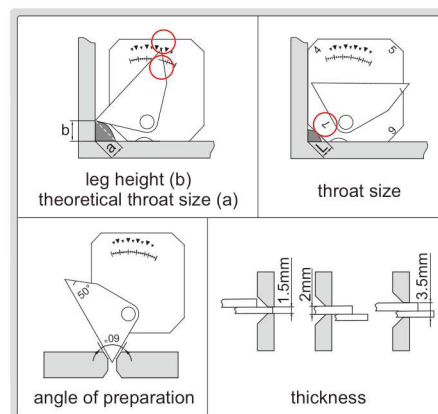| Code |
|------|
| 4849-1 |

Unit: mm

0.5
0.25
100
Ø6.5
45°
20

0.25
±0.01mm
100
6.5

WELDING GAGE

Unit: mm

54
58

- Made of stainless steel

3,6,7,9,11 a mm
3 12 15 18 b mm
50°
1.5 mm
INSIZE
60°
7

4850-1

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

b

leg height (b)
theoretical throat size (a)

throat size

50°
60°

angle of preparation

1.5mm
2mm
3.5mm

thickness

11

FILLET WELDING GAGE

Unit: mm
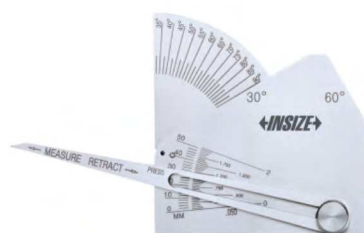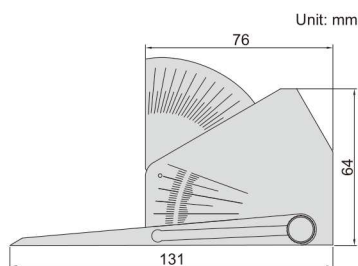
76
64
131

- Calculating card is included
- Made of stainless steel

MEASURE RETRACT
30° 60°
INSIZE

4846-1

Code	Measurement	Range	Graduation	Accuracy
	weld seam height W	0-50mm/0-2"	2mm/0.05"	±1mm
4846-1	angle θ	30°-90°	2.5°	±1°
	60° angle	—	—	±0.5°

W

weld seam height
of acute angle

W

weld seam height
of obtuse angle

θ

angle

30° 60°

angle of preparation
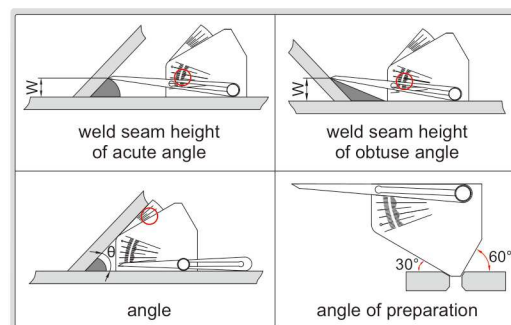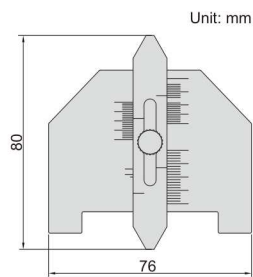
calculating card (included)

INSIZE
FILLET WELD
CALCULATOR

t_e
θ
W
L_2
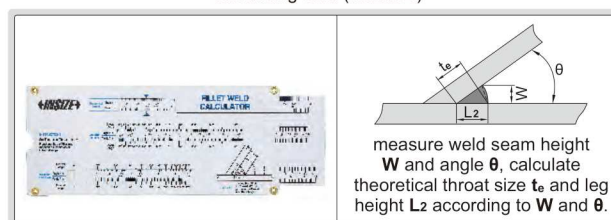
measure weld seam height
W and angle θ, calculate
theoretical throat size t_e and leg
height L_2 according to W and θ.

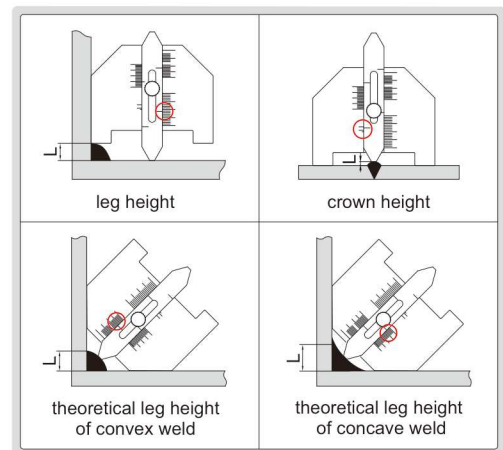https://precishop.hu

WELDING GAGE

4851-1

■ Made of stainless steel

leg height

crown height

theoretical leg height of convex weld

theoretical leg height of concave weld

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

11

WELDING GAGE

■ Made of stainless steel

scale B
scale C
scale A
reading line
(on transparent plastic plate)
scale A
scale B
scale C

Unit: mm
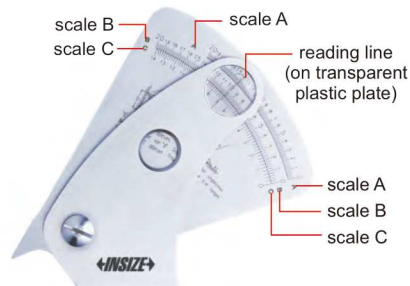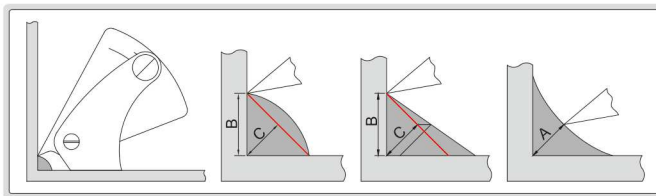
4840-1

Code	Graduation	Accuracy
4840-1	0.2mm	±0.3mm

PIPE WELDING GAGE

■ Made of stainless steel

fit-up gap

internal misalignment

4841-1

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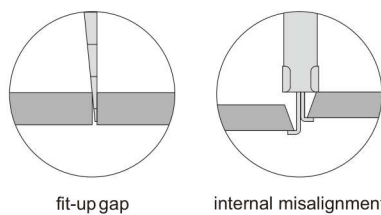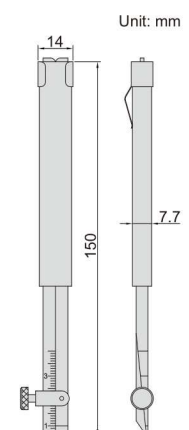
Code	Measurement	Range	Graduation	Accuracy
4841-1	internal misalignment	0-30mm	1mm	±0.5mm
	fit-up gap	0.7-4mm	0.1mm	±0.1mm

https://precishop.hu

PIPE WELDING GAGE

37.5° 37.5°
bevel on end preparation

pipe wall thickness

1.6mm

2.4mm

internal misalignment

fit-up gap

crown height

distance between two marking lines of socket weld

fillet weld length and height

- Made of stainless steel

front   back
4839-1

Unit: mm

158

64
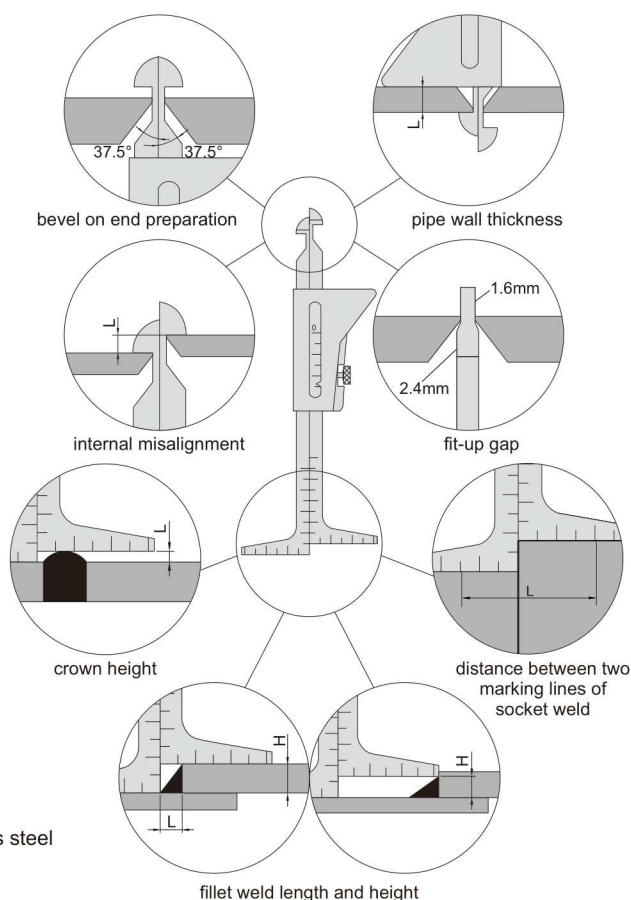
Code	Measurement	Range	Graduation	Accuracy
4839-1	bevel on end preparation	37.5°	—	±1°
	pipe wall thickness	0-45mm (0~1-3/4")	1mm (1/16")	±0.5mm
	internal misalignment	0-35mm (0~1-3/8")	1mm (1/32")	±0.5mm
	fit-up gap	1.6mm, 2.4mm	—	±0.1mm
	crown height	0-35mm (0~1-3/8")	1mm (1/32")	±0.5mm
	distance between two marking lines of socket weld	0-60mm (0~2-3/8")	1mm (1/16")	±0.5mm
	fillet weld length	0-30mm (0~1-1/4")	1mm (1/16")	±0.5mm
	fillet weld height	0-35mm (0~1-3/8")	1mm (1/32")	±0.5mm

6-PIECE WELDING GAGE SET

- Includes:
  1) Welding gage (code **4834-1**)
  2) Fillet welding gage, size 3~25mm, 7 blades (code **4836-1**)
  3) Pipe welding gage (code **4841-1**)
  4) Telescoping inspection mirror, size of mirror Ø32mm, length 178~505mm (code **7160-1**)
  5) Pocket rule with sliding clip, range 150mm/6", graduation 1mm, 1/64" (code **7119-150**)
  6) LED flashlight (code **ISGF-0501**)

5064

Code
5064

https://precishop.hu

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**)
  6) 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

7-PIECE WELDING GAGE SET

11

- Includes:
  1) Welding gage (code **4834-1**)
  2) Welding gage (code **4851-1**)
  3) Fillet welding gage, size 3~25mm,
     7 blades (code **4836-1**)
  4) Outside micrometer, range 0-25mm,
     graduation 0.01mm (code **3203-25A**)
  5) Digital caliper, range 0-150mm/0-6",
     resolution 0.01mm/0.005" (code **1108-150**)
  6) Pocket rule with sliding clip, range 150mm/6",
     graduation 1mm, 1/64" (code **7119-150**)
  7) Magnifier with illumination, magnification 4X (code **7513-4**)

5072

Code
5072

AMERICAN STANDARD WIRE GAGE

Unit: mm

Ø82.55

Ø25.4

W
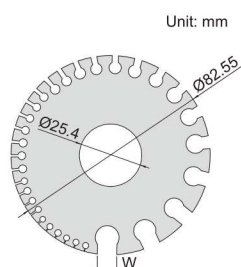
4808

- 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")

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"

https://precishop.hu

U.S. STANDARD SHEET METAL GAGE

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"

Unit: mm

Ø82.55
Ø25.4
W
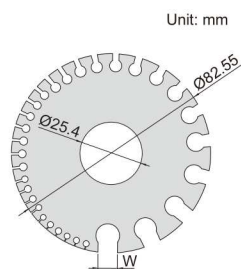
4809

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

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

SQUARE WIRE GAGE

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

Unit: mm

45
W
120

4803-1

- 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

THICKNESS GAGE

- Made of stainless steel

length   thickness

Unit: mm

24GA.(.0239)
22GA.(.0299)
20GA.(.0359)
18GA.(.0478)
16GA.(.0598)
14GA.(.0747)
1/8" (.125)
10GA.(.1345)
3/16" (.1875)
1/4" (.250)
5/16" (.3125)
.024"
.030"
.035"

72
25
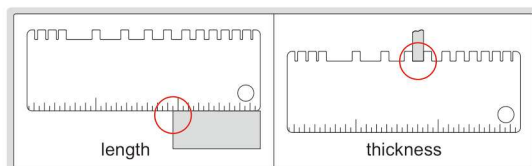
4853-1

| 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"), 1/4" (0.250"), 5/16" (0.3125")		±0.004"
		0.024", 0.030", 0.035"		±0.002"

11

https://precishop.hu
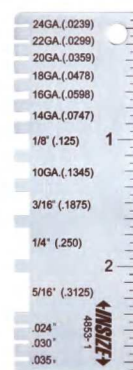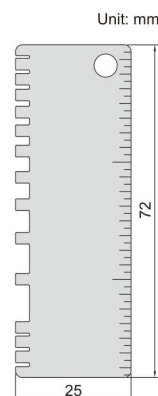
DRILL POINT GAGE

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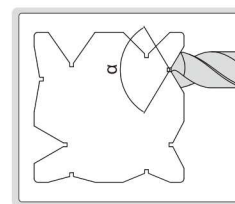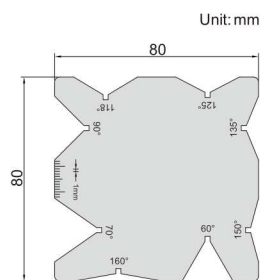- Made of stainless steel

Unit: mm
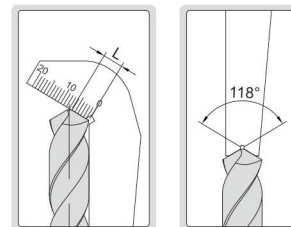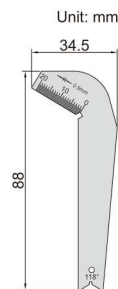
4843-1

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

DRILL ANGLE GAGE

Unit: mm

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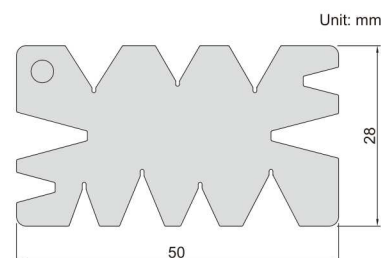- Made of stainless steel

4842-1

Code	Accuracy
4842-1	±0.5°

ANGLE GAGE

check the angle of screw cutting tools

Unit: mm
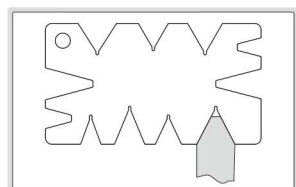
4854-1

- Made of stainless steel

Code	Range	Accuracy
4854-1	29°, 30°, 40°, 45°, 50°, 55°, 60°	±10'

https://precishop.hu
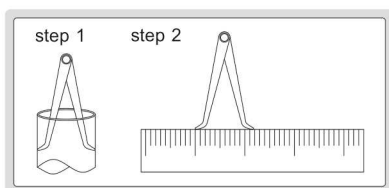
INSIDE CALIPERS

- Made of carbon steel

Code	Size (L)	Range (W)	h
7240-150	150mm	17-150mm	2mm
7240-200	200mm	17-200mm	3mm
7240-300	300mm	18-300mm	3mm

7240-150
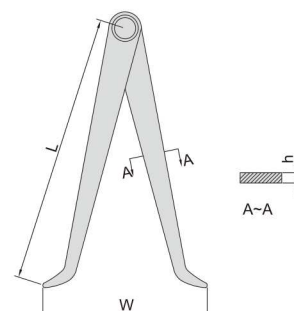
OUTSIDE CALIPERS
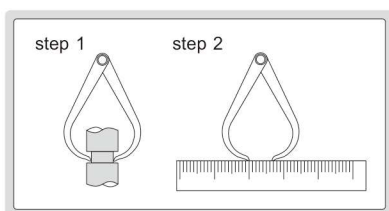
- Made of carbon steel

Code	Size (L)	Range (W)	h
7241-150	150mm	0-150mm	2mm
7241-200	200mm	0-200mm	3mm
7241-300	300mm	0-300mm	3mm

7241-150
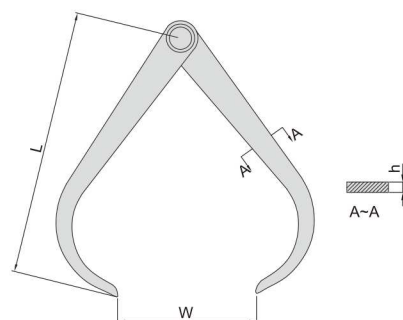
INSIDE SPRING CALIPERS
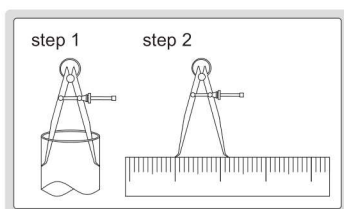
- Made of carbon steel

Code	Size (L)	Range (W)
7261-150	150mm	20-170mm
7261-200	200mm	22-220mm
7261-250	245mm	30-270mm
7261-300	300mm	30-320mm

7261-150

tips

11

https://precishop.hu
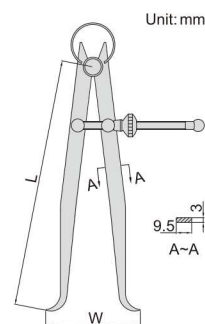
OUTSIDE SPRING CALIPERS
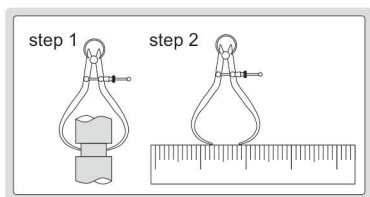
- Made of carbon steel

Code	Size (L)	Range (W)
7262-150	155mm	0-140mm
7262-200	210mm	0-210mm
7262-250	265mm	0-270mm
7262-300	310mm	0-320mm

Unit: mm

A~A

7262-150

tips
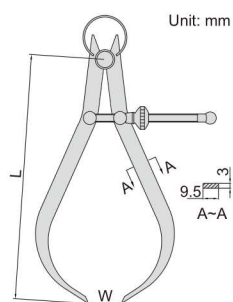
SPRING DIVIDERS

11
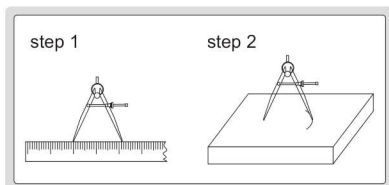
- Made of carbon steel
- Hardened points

Code	Size (L)	Range (W)
7260-150	150mm	0-150mm
7260-200	200mm	0-210mm
7260-250	245mm	0-260mm
7260-300	300mm	0-320mm

Unit: mm

A~A

7260-150
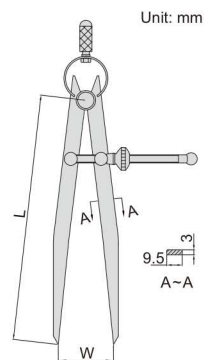
DIVIDERS
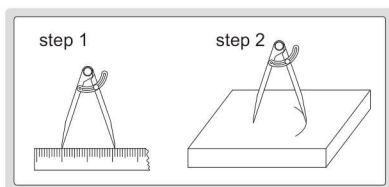
- Made of carbon steel
- Hardened points

(mm)

Code	Size (L)	Range (W)	a	b
7247-150	150mm	0-140mm	8.5	7
7247-200	200mm	0-190mm	10	7
7247-300	300mm	0-290mm	12	7

A~A

7247-150

https://precishop.hu

MEASURING TAPES

EG
II

graduation

7140-5

locking knob
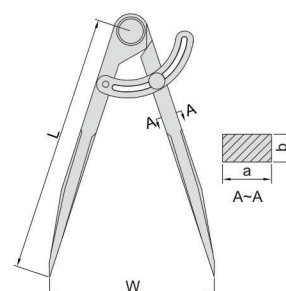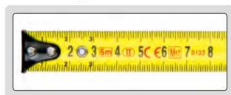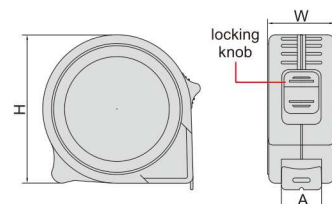
- Non-glare nylon surface for wear resistance

Individual (1 pc per package)

Code	Range	Graduation	Width of tape A	W	H
7140-3	0-3m	1mm	16mm	28mm	62mm
7140-5	0-5m	1mm	19mm	30mm	68mm
7140-8	0-8m	1mm	25mm	38mm	78mm

Set (12 pcs per package)

Code	Range	Graduation	Width of tape A	W	H
7140-3A	0-3m	1mm	16mm	28mm	62mm
7140-5A	0-5m	1mm	19mm	30mm	68mm
7140-8A	0-8m	1mm	25mm	38mm	78mm

MEASURING TAPE (BASIC TYPE)

EG
II

graduation

7142-5

locking knob

- Non-glare nylon coating tape, wear resistance

Individual (1 pc per package)

Code	Range	Graduation	Width of tape A	W	H
7142-5	0-5m/0-16ft	1mm, 1/16"	19mm	31mm	64mm

Set (12 pcs per package)

Code	Range	Graduation	Width of tape A	W	H
7142-5A	0-5m/0-16ft	1mm, 1/16"	19mm	31mm	64mm
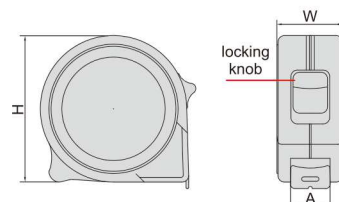
LONG MEASURING TAPE

EG
II
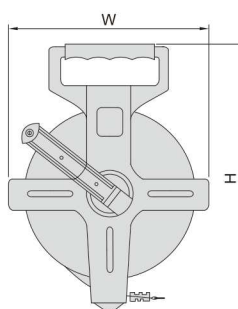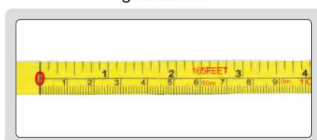
graduation

7143-50

- High tensile strength fibreglass tape
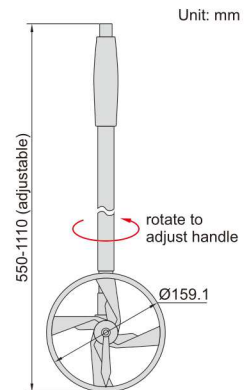- Nylon coating tape, wear resistance

Code	Range	Graduation	Width of tape	W	H
7143-50	0-50m/0-165ft	1mm, 1/8"	13mm	220mm	320mm

11

https://precishop.hu

MEASURING WHEEL (BASIC TYPE)

- ABS plastic frame, wear-resistant PU tire
- Three-section adjustable handle

reset
counter
vertical pointer
support

Unit: mm

550-1110 (adjustable)

rotate to adjust handle

Ø159.1

7144-1

Code	Range	Resolution
7144-1	0.1-9999.9m	0.1m

MEASURING WHEEL

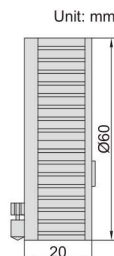- ABS plastic frame, wear-resistant PU tire
- Two-section foldable handle

after folding

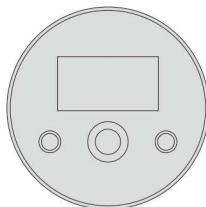backpack (included)

counter
reset

brake

reset
counter

vertical pointer

support

Unit: mm

1000

500

Ø319.2

7145-1

Code	Range	Resolution
7145-1	0.1-9999.9m	0.1m
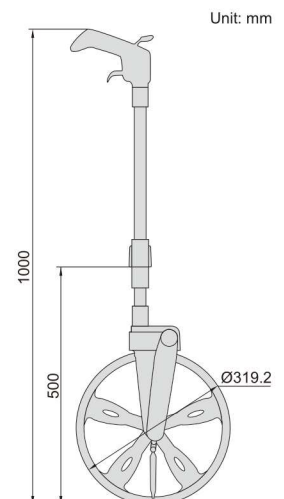
DIGITAL MEASURING WHEEL

IP40 WATERPROOF

VIDEO

Unit: mm

Ø60

20

scriber

7146-10

- IP40 dust/waterproof
- Measuring length of curve
- Four measurement modes: length, rectangle area, diameter of circle, cube
- Resolution: 0.001m/0.01ft
- Button function: on/off, mm/inch, one or two sides set, measurement mode conversion, measurement
- Battery CR2032, automatic power off

Code	Range	Accuracy
7146-10	0-10m/0-32.8ft	±0.3%L (L is the measured length)

https://precishop.hu

RIGID RULE

- Rigid rules
- With groove on the back, suitable for combination square set (**2278** series)
- Satin chrome plated

7113-300A

groove on the back

Unit: mm

Code	Range	Graduation		Accuracy	L
		front	back		
7113-300A	300mm/12"	0.5mm and 1/32"	1mm and 1/64"	±0.15mm	300mm

POCKET RULE WITH SLIDING CLIP

- With sliding clip, clip can be inserted in the pocket, also can be used as depth gage base
- Inch/metric conversion table on the back
- Made of stainless steel

7119-150

Unit: mm

160

12

clip

Code	Range	Graduation	Accuracy
7119-150	150mm/6"	1mm, 1/64"	±0.15mm
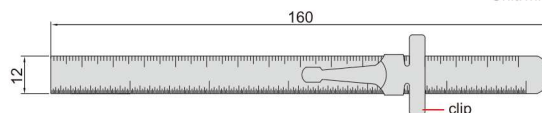
STEEL RULES (ECONOMIC TYPE)

ATTENTION: LOW ACCURACY

7110-300

- Graduation: 0.5mm, 1mm, 1/64", 1/32", 1/16"
- Rigid rules
- Made of stainless steel
- Non-glare surface
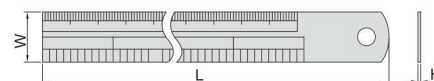
Individual (1 pc per package) (mm)

Code	Range	Accuracy	L	W	H	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
7110-1200	1200mm/48"	±0.63mm	1240	35	1.8	graduation on front
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

Set (mm)

| Code	Range	Accuracy	L	W	H	Remark	Quantity per package
7110-150A	150mm/6"	±0.18mm	170	18	1.0	graduation on front and back	10 pcs
7110-200A	200mm/8"	±0.18mm	220	18	1.0	graduation on front and back	10 pcs
7110-300A	300mm/12"	±0.27mm	330	25	1.0	graduation on front and back	5 pcs
7110-3001A	300mm/12"	±0.27mm	325	30	1.0	graduation on front and back	5 pcs
7110-500A	500mm/20"	±0.27mm	530	30	1.2	graduation on front and back	5 pcs
7110-600A	600mm/24"	±0.45mm	630	30	1.2	graduation on front and back	5 pcs
7110-1000A	1000mm/40"	±0.45mm	1040	32	1.5	graduation on front and back	5 pcs
7110-1200A	1200mm/48"	±0.63mm	1240	35	1.8	graduation on front	5 pcs
7110-1500A	1500mm/60"	±0.63mm	1550	38	1.8	graduation on front	5 pcs
7110-2000A	2000mm/80"	±0.80mm	2065	40	2.0	graduation on front	5 pcs

11

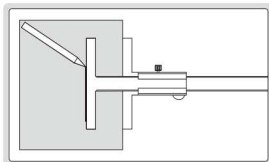# MARKING GAGES

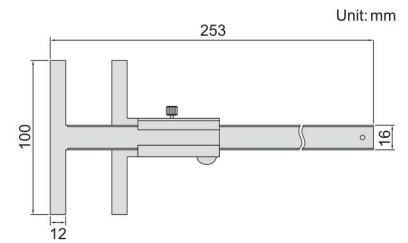- Made of carbon steel
- Satin chrome plated

7120-200A
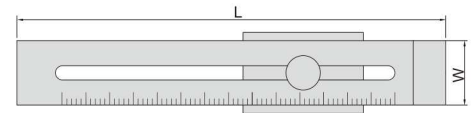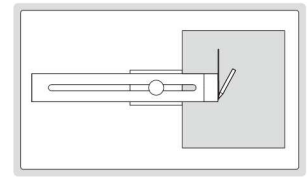
Code	Range	Graduation	Accuracy	L	W
7120-200A	0-200mm	0.1mm	±0.1mm	250mm	40mm
7120-250A	0-250mm	0.1mm	±0.1mm	300mm	40mm
7120-300A	0-300mm	0.1mm	±0.1mm	350mm	40mm

T-SHAPE MARKING GAGE

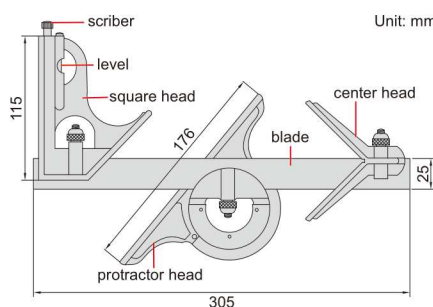- Made of stainless steel
- Satin chrome plated reading surface

1275-150B

Unit: mm

Code	Range	Graduation	Accuracy
1275-150B	0-150mm	0.02mm	±0.04mm

COMBINATION SQUARE SET

protractor can rotate 360°
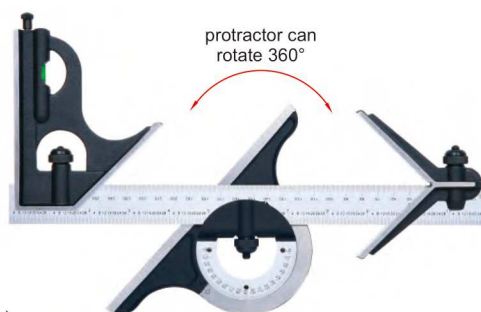
2274-4

- Center head (made of cast iron):
  to locate center of cylinders with
  diameter (Ød): 30-100mm
  accuracy: ±0.15mm
- Protractor head (made of cast iron):
  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):
  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 and 1/64" on back face
- Optional accessory: rigid rule (code **7113**)

Unit: mm

scriber
level
square head
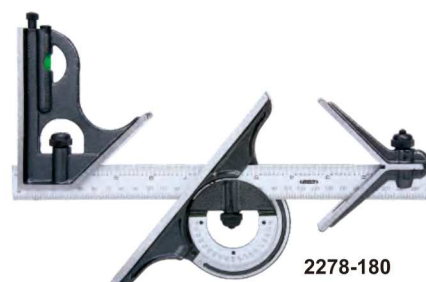center head
blade
protractor head

Code	Remark
2274-4	4-piece set

locate center
protractor
set 90°
set 45°
level
rule and marking

https://precishop.hu
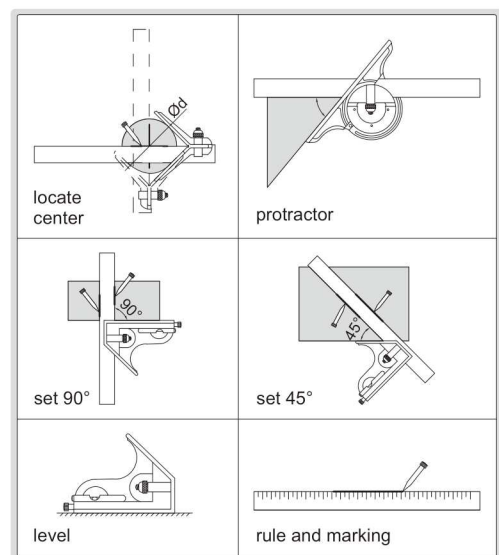
COMBINATION SQUARE SETS

2278-2

2278-3

2278-180
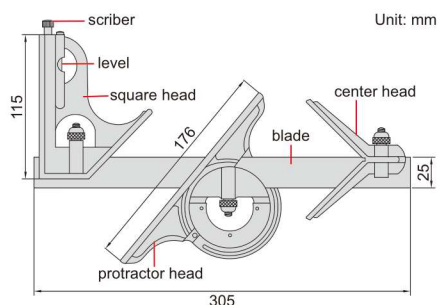
scriber
level
square head
center head
blade
protractor head

Unit: mm

115
176
25
305

- Center head (made of cast iron):
  to locate center of cylinders with
  diameter (Ød): 30-100mm
  accuracy: ±0.15mm
- Protractor head (made of cast iron):
  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):
  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 and 1/64" on back face
- Optional accessory: rigid rule (code **7113**)

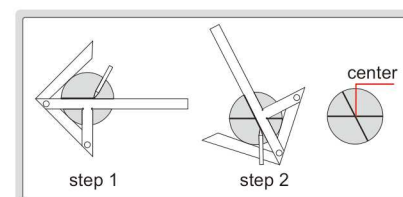| Code	Remark
2278-2	2-piece set
2278-3	3-piece set
2278-180	4-piece set

locate center

protractor

set 90°

set 45°

level

rule and marking
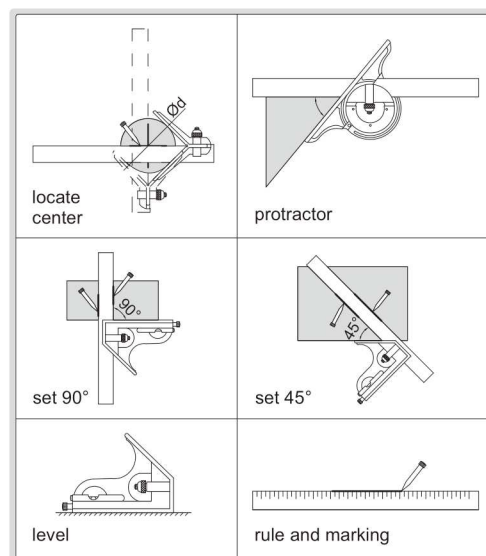
11

CENTER MARKING GAGES
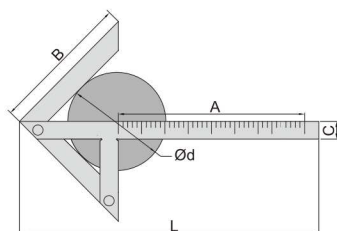
- Marking the center of round plates and shafts
- Made of stainless steel
- Satin chrome plated

7205-100

step 1   step 2   center

Code	Size (AxB)	Diameter of shafts (Ød)	Accuracy	C	L
7205-100	100x70mm	4-90mm	±0.15mm	12mm	153mm
7205-150	150x130mm	4-190mm	±0.15mm	15mm	245mm
7205-200	200x150mm	6-220mm	±0.15mm	15mm	310mm
7205-300	300×180mm	6-270mm	±0.15mm	20mm	435mm

https://precishop.hu

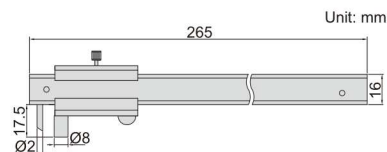# SCRIBING CALIPER

7202-200A

the position of scriber
tip can be adjusted

rolling sleeve
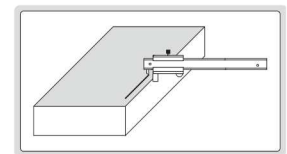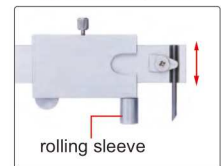
- Made of stainless steel
- Satin chrome plated reading surface
- Carbide scriber tip
- Optional accessory: carbide scriber tip
  (code **SP-SCRIBER-7202**)

Unit: mm

265

16

17.5

Ø2   Ø8

Code	Range	Graduation	Accuracy
7202-200A	0-200mm/0-8"	0.1mm, 1/128"	±0.1mm

DIGITAL SCRIBING CALIPERS

DATA OUTPUT

11

- The carbide-tipped jaws facilitate scribing on workpieces
- Resolution: 0.01mm/0.0005"
- Buttons: on/off, zero, mm/inch
- Automatic power off, move the digital unit to turn on power
- Battery CR2032
- Made of stainless steel

carbide
measuring faces   **1166-150A**

**With data interface (data output
cable code 7315-21, 7302-21, optional)**

Code	Range	Accuracy
1166-150A	0-150mm/0-6"	±0.03mm

**Built-in wireless
(receiver code 7315-2/3/6/7/8 is required)**

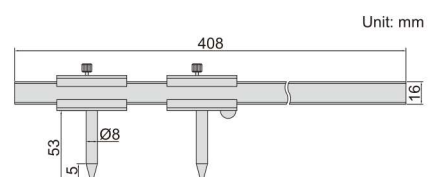| Code	Range	Accuracy
1166-150AWL	0-150mm/0-6"	±0.03mm

Unit: mm

236

21   16.5   3.7

30   40   16
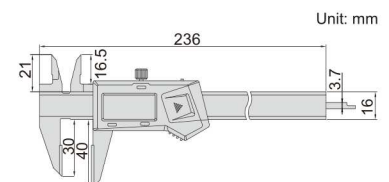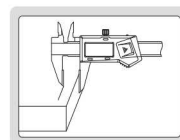
SCRIBING CALIPER
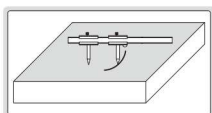
7203-300A

- Made of stainless steel
- Satin chrome plated reading surface
- Hardened scriber tips

Unit: mm

408

16

53   Ø8

15

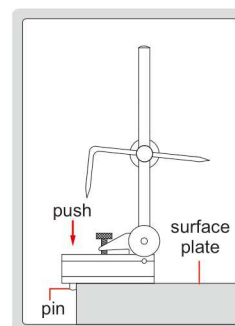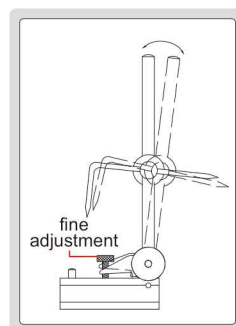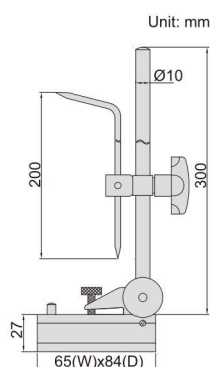| Code	Range	Graduation	Accuracy
7203-300A	51-300mm	0.1mm	±0.1mm

https://precishop.hu

HEIGHT SCRIBER

- Grooved bottom for cylinders
- Two pins to be set against the edge of surface plate

Unit: mm

Ø10

200

300

27

65(W)x84(D)

6990-300A

fine adjustment

push

surface plate

pin

Code
6990-300A

SCRIBERS

7230

7231

7232

clip

- 7230 and 7231 are nickel plated, 7232 is zinc-plated

Code	Tip
7230	hardened tips
7231	hardened tip
7232	carbide tip

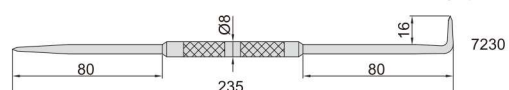Unit: mm
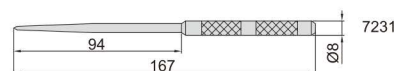
Ø8

16

7230

80

80

235

94

7231

167

Ø8

145

7232

6

11

PRECISION SCREWDRIVER SET
CODE ISGF-0901

packaging

- Includes:
  4 pcs "–": 1.4mm, 2.0mm, 2.4mm, 3.0mm
  2 pcs "+": 0#, 1#
- Rotating cap
- Material: CRV, hardness: HRC52~56

ISGF-0901

LED FLASHLIGHT
CODE ISGF-0501

packaging

- Toshiba high performance LED
- Powered by 3x AAA batteries (batteries are not included)
- Max output: 120 lumens
- Battery life: 4 hours
- Beam distance: 70 meters
- IP54 dust/waterproof

ISGF-0501

https://precishop.hu