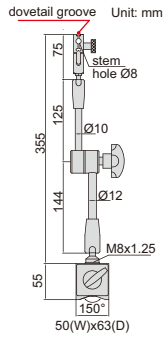


### UNIVERSAL MAGNETIC STAND (LIGHT DUTY)

**ATTENTION: LOW LOCKING FORCE**

- Magnetic force: 80kgf
- Applicable holding stem: Ø8mm
- For digital/dial indicators and dial test indicators



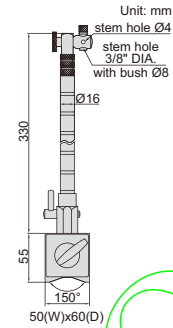
6208-80A

Code	Remark
6208-80A	with fine adjustment and dovetail groove

### FLEX ARM MAGNETIC STAND

**ATTENTION: FOR DIAL TEST INDICATORS ONLY**

- For dial test indicators



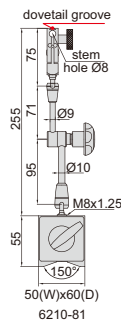
6207-80A

Code	Magnetic force	Applicable holding stem
6207-80A	80kgf	Ø8mm, Ø4mm, 3/8" DIA.

### UNIVERSAL MAGNETIC STAND (HEAVY DUTY)



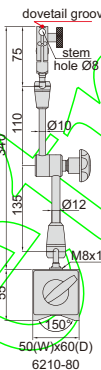
6210-81



6210-81



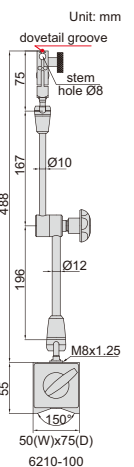
6210-80



6210-80



6210-100



6210-100

- For digital/dial indicators and dial test indicators

Code	Magnetic force	Applicable holding stem	Remark
6210-81	80kgf	Ø8mm	with fine adjustment and dovetail groove
6210-80	80kgf	Ø8mm	with fine adjustment and dovetail groove
6210-100	100kgf	Ø8mm	with fine adjustment and dovetail groove

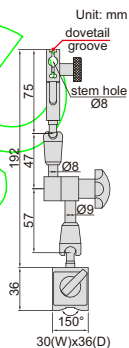
### MINI MAGNETIC STAND

**ATTENTION: FOR DIAL TEST INDICATORS ONLY**

- For dial test indicators
- With fine adjustment and dovetail groove



6224-40



30(W)x36(D)

Code	Magnetic force	Applicable holding stem
6224-40	40kgf	Ø8mm

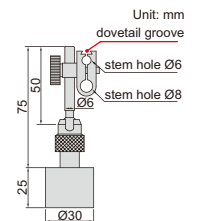
### MINI MAGNETIC STAND

**ATTENTION: FOR DIAL TEST INDICATORS ONLY**

- For dial test indicators
- With dovetail groove



6211-10

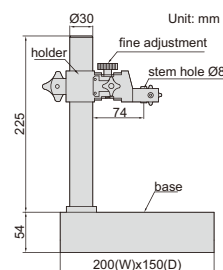


Code	Magnetic force	Applicable holding stem
6211-10	10kgf	Ø6mm, Ø8mm

### GRANITE COMPARATOR STAND

- Vertical travel of holder: 150mm
- Fine adjustment range: 2mm
- Base: flatness 2.5µm
- Supplied with dust cover

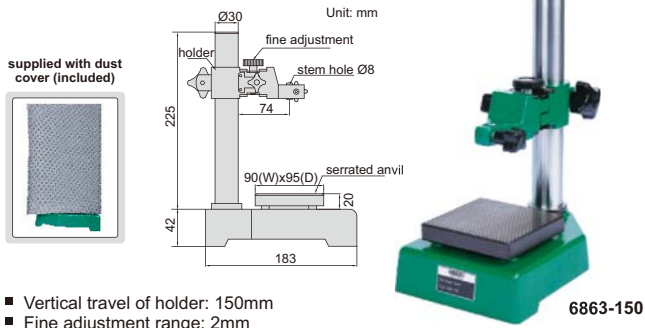
supplied with dust cover (included)



6866-150

Code	Applicable holding stem
6866-150	Ø8mm

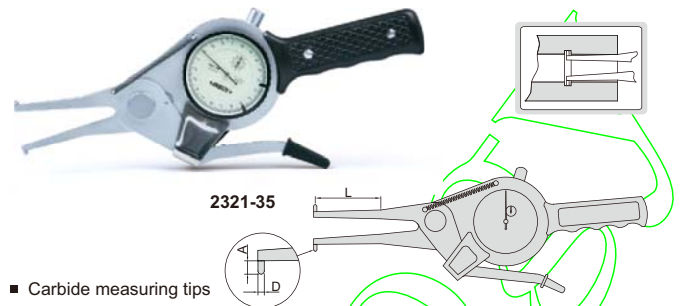
**DIAL GAGE STAND**



- Vertical travel of holder: 150mm
- Fine adjustment range: 2mm
- Supplied with dust cover

Code	Applicable holding stem	Anvil
6863-150	Ø8mm	serrated, flatness 1.5µm, hardness HRC60±2

**INTERNAL DIAL CALIPER GAGE**

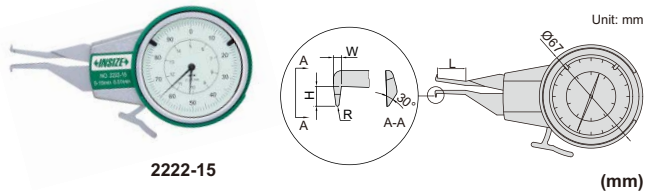


- Carbide measuring tips

Code	Range	Graduation	Accuracy	L	A	D
2321-35	15-35mm	0.01mm	±0.04mm	50	3	Ø3
2321-55	35-55mm	0.01mm	±0.04mm	80	6	Ø3

Sizes available up to 135mm

**INTERNAL DIAL CALIPER GAGE**



Code	Range	Graduation	Accuracy	L	H	W	R
2222-15	5-15mm	0.01mm	±0.03mm	20	2	2.5	R0.3

Sizes available up to 60mm

**DIGITAL EXTERNAL CALIPER GAGE**

DATA OUTPUT

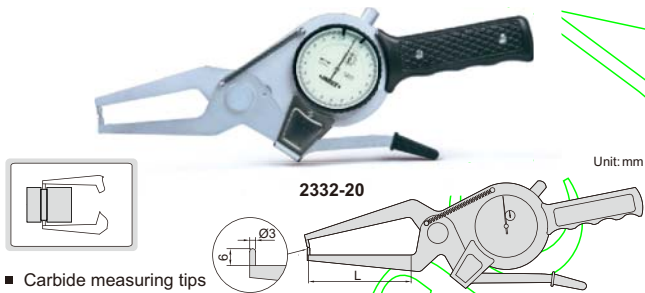


- Carbide measuring tips
- Reading in digit and analog
- Display can be rotated by 320°
- Button function: tolerance Go and No-Go display, data preset, measuring direction change, max./min./range measurement, inch/metric conversion, absolute/incremental measurement
- CR2032 battery, automatic power off
- Data output
- Optional accessory: data output cable

Code	Range	Resolution	Accuracy	L
2132-20	0-20mm/0-0.8"	0.01mm/0.0005"	±0.04mm	60

Sizes available up to 100mm

**EXTERNAL DIAL CALIPER GAGE**

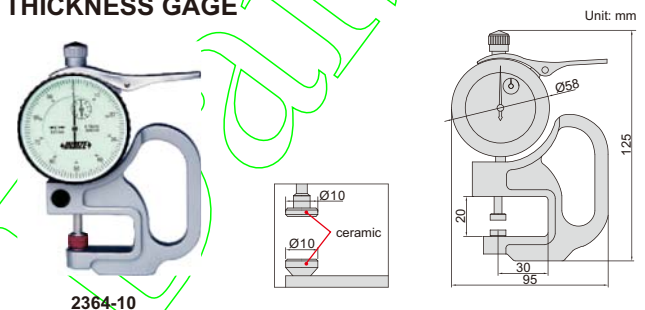


- Carbide measuring tips

Code	Range	Graduation	Accuracy	L (mm)
2332-20	0-20mm	0.01mm	±0.04mm	60

Sizes available up to 100mm

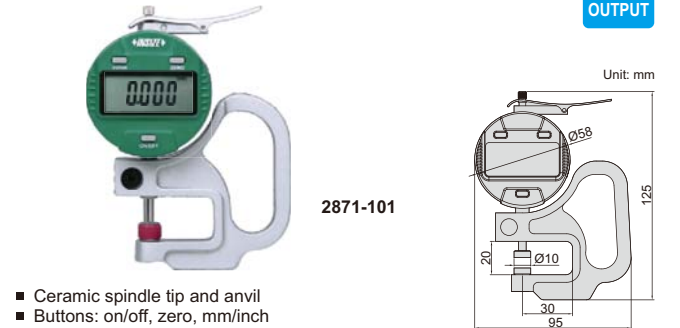
**THICKNESS GAGE**



Code	Range	Graduation	Accuracy
2364-10	0-10mm	0.01mm	±0.02mm

**DIGITAL THICKNESS GAGE**

DATA OUTPUT



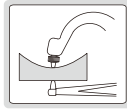
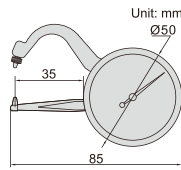
- Ceramic spindle tip and anvil
- Buttons: on/off, zero, mm/inch
- Battery CR2032, automatic power off
- Data output
- Optional accessory: data output cable

Code	Range	Resolution	Accuracy
2871-10	0-10mm/0-0.4"	0.01mm/0.0005"	±0.02mm
2871-101	0-10mm/0-0.4"	0.001mm/0.00005"	±0.005mm

### THICKNESS GAGE



2862-101

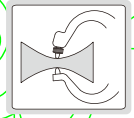
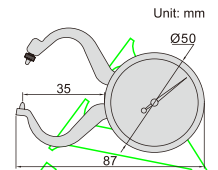


Code	Range	Graduation	Accuracy
2862-101	0-10mm	0.05mm	±0.1mm

### THICKNESS GAGE



2863-10

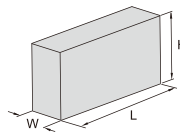


Code	Range	Graduation	Accuracy
2863-10	0-10mm	0.05mm	±0.1mm

### STEEL GAGE BLOCK SET



4100-287



Dimension:

Size (L)	W	H
$0.5 \leq L \leq 10\text{mm}$	9mm	30mm
$L > 10\text{mm}$	9mm	35mm

- Made of alloy steel
- Meet ISO3650
- Supplied with manufacturer inspection certificate

Blocks per set	Blocks included in set			Code
	Size (mm)	Step (mm)	Quantity	
87	1.001-1.009	0.001	9	4100-287
	1.01-1.49	0.01	49	
	0.5-9.5	0.5	19	
	10-100	10	10	
47	1.005	0.01	1	4100-247
	1.01-1.19		19	
	1.2-1.9	0.1	8	
	1-9	1	9	
32	10-100	10	10	4100-232
	1.005	0.01	1	
	1.01-1.09		9	
	1.1-1.9	0.1	9	
	1-9	1	9	
10-30	10	3		
50		1		

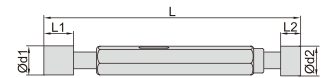
### PLAIN PLUG GAGE



4124-12

- Supplied with Go and No-Go gages together
- Class H7
- Hardness HRC 60±2
- Standard DIN7150-2

**CUSTOM-MADE**  
OTHER CLASSES ARE AVAILABLE, SUCH AS H8; H9  
OTHER DIAMETERS ARE AVAILABLE, SUCH AS 19,003mm  
OTHER LENGTHS ARE AVAILABLE, SUCH AS 70mm



Code	Diameter Ød (mm)	Code	Diameter Ød (mm)
4124-3	3	4124-13	13
4124-4	4	4124-14	14
4124-5	5	4124-15	15
4124-6	6	4124-16	16
4124-7	7	4124-17	17
4124-8	8	4124-18	18
4124-9	9	4124-19	19
4124-10	10	4124-20	20
4124-11	11	4124-22	22
4124-12	12	4124-23	23

Code	Diameter Ød (mm)
4124-24	24
4124-25	25
4124-26	26
4124-28	28
4124-30	30
4124-35	35
4124-40	40

Size tolerance of H7			(mm)		
Diameter Ød	Size tolerance of Go gage (µm)	Size tolerance of No-Go gage (µm)	L1	L2	L
≥2, ≤3	+0.5 / +2.5	+9 / +11	6.5	4.5	20
>3, ≤6	+0.75 / +3.25	+10.75 / +13.25	8	6	24
>6, ≤10	+0.75 / +3.25	+13.75 / +16.25	10	7	29
>10, ≤14	+1 / +4	+16.5 / +19.5	12	8	34
>14, ≤18	+1 / +4	+16.5 / +19.5	14	10	36
>18, ≤24	+1 / +5	+19 / +23	16	12	42
>24, ≤30	+1 / +5	+19 / +23	18	14	42
>30, ≤40	+1.5 / +5.5	+23 / +27	20	15	55

### METRIC THREAD PLUG GAGE



4130-10



**ATTENTION: BASIC MODEL**

- Supplied with Go and No-Go gages together
- Class 6H
- Standard ISO1502

Code	Size (mm)	Code	Size (mm)
4130-2D5*	M2.5x0.45	4130-10*	M10x1.5
4130-3*	M3x0.5	4130-12*	M12x1.75
4130-4*	M4x0.7	4130-14*	M14x2
4130-5*	M5x0.8	4130-16*	M16x2
4130-6*	M6x1	4130-20*	M20x2.5
4130-8*	M8x1.25	4130-24*	M24x3

\*Supplied with manufacturer inspection certificate

## METRIC THREAD RING GAGE

**ATTENTION:**  
BASIC MODEL



4120-16



4120-16N

- Go and No-Go gages are supplied separately
- Class 6g
- Standard ISO1502

Code (Go)	Code (No Go)	Size (mm)
4120-2D5*	4120-2D5N*	M2.5x0.45
4120-3*	4120-3N*	M3x0.5
4120-4*	4120-4N*	M4x0.7
4120-5*	4120-5N*	M5x0.8
4120-6*	4120-6N*	M6x1
4120-8*	4120-8N*	M8x1.25

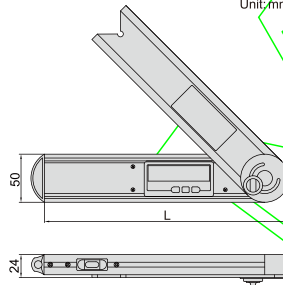
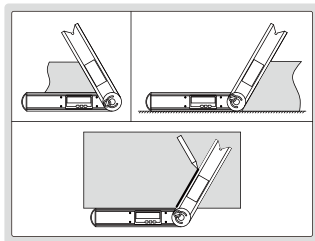
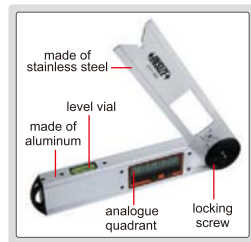
\*Supplied with manufacturer inspection certificate

Code (Go)	Code (No Go)	Size (mm)
4120-10*	4120-10N*	M10x1.5
4120-12*	4120-12N*	M12x1.75
4120-14*	4120-14N*	M14x2
4120-16*	4120-16N*	M16x2
4120-20*	4120-20N*	M20x2.5
4120-24*	4120-24N*	M24x3

## DIGITAL PROTRACTOR



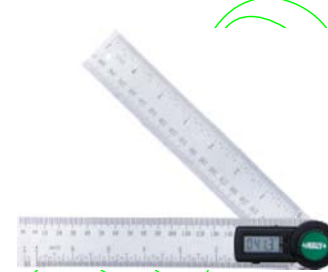
2171-250



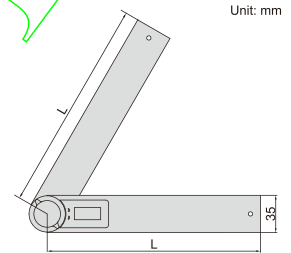
- Buttons: on/off, hold (keep the reading), zero, ABS (absolute and incremental measurement)
- Fix the locking screw at 4 positions for different measuring ranges: 0°~225°, -225°~0°, -45°~180°, -180°~45°
- Remove the locking screw for 360° range
- With level vial
- Battery CR2032
- Automatic power off

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

## DIGITAL PROTRACTOR



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°

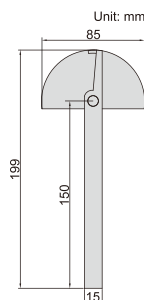
## PROTRACTOR



4780-85

- Made of stainless steel
- Satin chrome plated scale
- With clamping screw

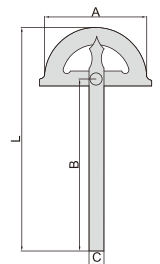
Code	Size	Range	Graduation	Accuracy
4780-85	85x150mm	0 - 180°	1°	±0.3°



## PROTRACTOR



4799-180

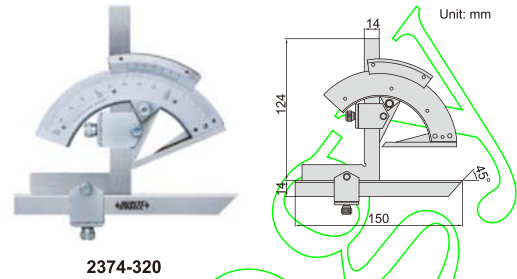
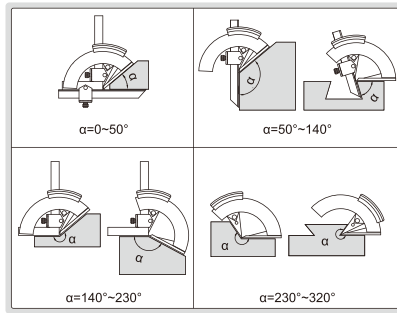


- Made of stainless steel
- Satin chrome plated scale
- With clamping screw

Code	Size (AxB)	Range	Graduation	Accuracy	L	C
4799-180	80x120mm	0-180°	1°	±0.3°	168	11
4799-1120	120x150mm	0-180°	1°	±0.3°	220	14
4799-1150	150x200mm	0-180°	1°	±0.3°	285	16
4799-1200	200x300mm	0-180°	1°	±0.3°	413	20

### PROTRACTOR

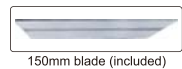
- Made of stainless steel
- Satin chrome plated scale



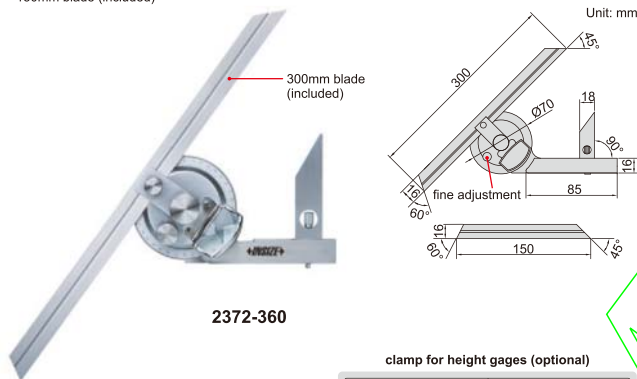
2374-320

Code	Range	Graduation	Accuracy
2374-320	0-320°	2'	±2'

### UNIVERSAL PROTRACTOR

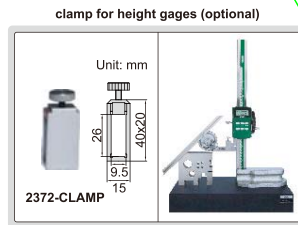


150mm blade (included)



2372-360

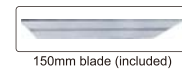
- Parallax-free reading
- Made of stainless steel
- Optional accessory: clamp (code 2372-CLAMP), suitable for height gages 1156, 1351 and 1250



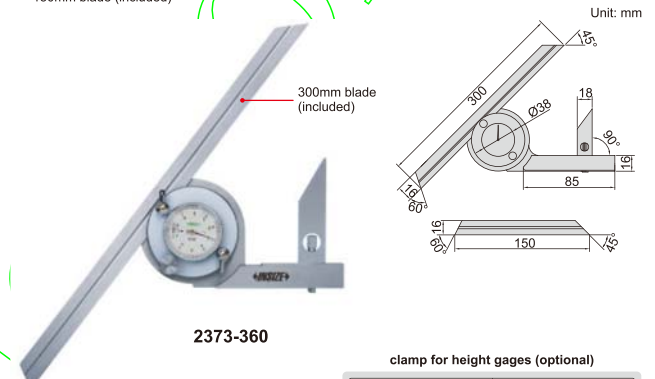
2372-CLAMP

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

### DIAL PROTRACTOR

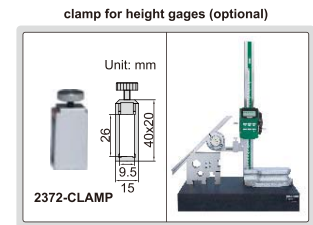


150mm blade (included)



2373-360

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

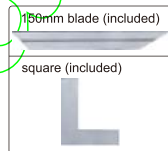


2372-CLAMP

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

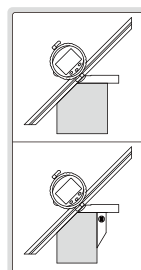
### DIGITAL PROTRACTOR

- 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, clamp (code 2372-CLAMP), suitable for height gages 1156, 1351 and 1250

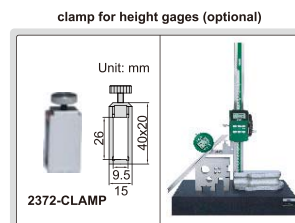


150mm blade (included)

square (included)



2172-360A

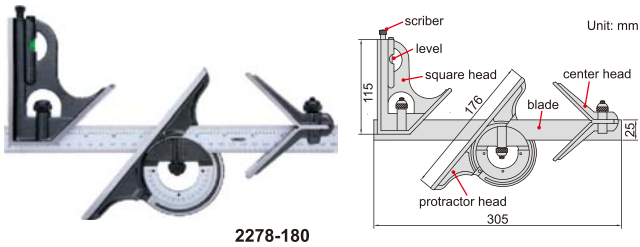


2372-CLAMP

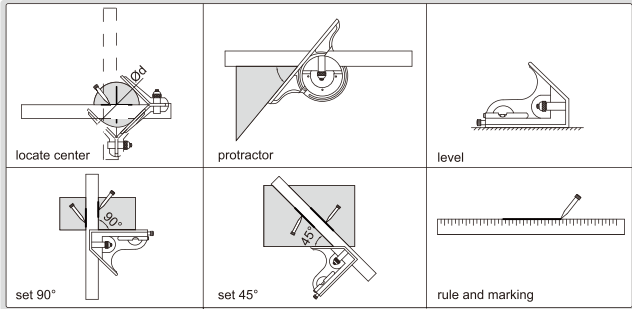
Code	Range	Graduation	Accuracy
2172-360A	0-360°	10"/0.005"	±5'

DATA OUTPUT

### COMBINATION SQUARE SET



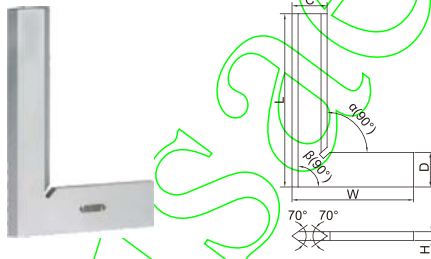
2278-180



- Center head:  
To locate center of cylinder with diameter ( $\varnothing$ d): 30-100mm  
Accuracy:  $\pm 0.15$ mm
- Protractor head:  
To set the blade at desired angle to an edge of a workpiece, and can be used to measure angles  
Range: 0-180°, accuracy:  $\pm 7$ min.
- Square head:  
To set the blade at 90° or 45° to an edge of a workpiece  
Accuracy:  $\pm 8$ min for 90° square,  $\pm 10$ min for 45° square
- Blade:  
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  
2278-180

### 90° BEVELED EDGE SQUARE



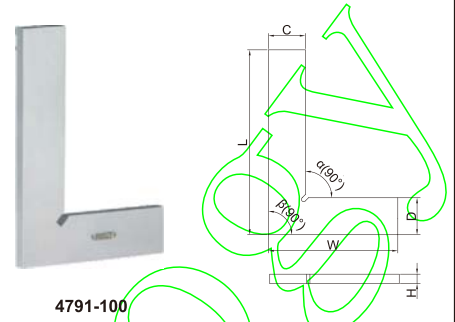
4790-0100

- DIN875 grade 00
- Satin chrome plating
- Beveled edges for inside and outside measurement
- Made of hardened stainless steel

Code	Size (LxW)	Squareness		C	D	H
		Inside ( $\alpha$ )	Outside ( $\beta$ )			
4790-050	50x40mm	2.4 $\mu$ m	2.5 $\mu$ m	13	13	4
4790-075	75x50mm	2.6 $\mu$ m	2.8 $\mu$ m	15	15	4
4790-0100	100x70mm	2.8 $\mu$ m	3.0 $\mu$ m	20	20	5
4790-0150	150x100mm	3.2 $\mu$ m	3.5 $\mu$ m	30	30	6
4790-0200	200x130mm	3.7 $\mu$ m	4.0 $\mu$ m	34	34	7

Sizes available up to 300x200mm

### 90° FLAT EDGE SQUARE



4791-100

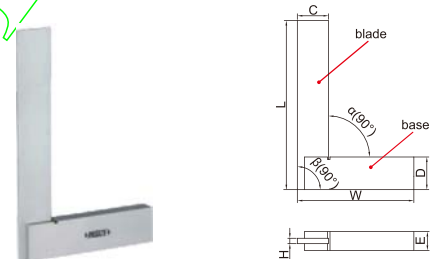
- DIN875 grade 0
- Made of hardened stainless steel

Code	Size (LxW)	Squareness		C	D	H
		Inside ( $\alpha$ )	Outside ( $\beta$ )			
4791-100	100x70mm	7 $\mu$ m	7 $\mu$ m	20	20	5
4791-150	150x100mm	7 $\mu$ m	8 $\mu$ m	30	30	6

Sizes available up to 300x200mm

### MACHINIST SQUARE WITH WIDE BASE

ATTENTION:  
LOW ACCURACY



4707-100

- Economic model
- DIN875 grade 2
- Made of carbon steel, no anti-rust treatment, not hardened

Code	Size (LxW)	Squareness		C	D	H	E
		Inside ( $\alpha$ )	Outside ( $\beta$ )				
4707-75	75x50mm	26 $\mu$ m	28 $\mu$ m	16	16	3	9
4707-100	100x70mm	28 $\mu$ m	30 $\mu$ m	19	19	3	12
4707-150	150x100mm	33 $\mu$ m	35 $\mu$ m	25	25	3	16
4707-200	200x130mm	37 $\mu$ m	40 $\mu$ m	30	32	4	16
4707-250	250x165mm	42 $\mu$ m	45 $\mu$ m	30	32	4	19
4707-300	300x200mm	47 $\mu$ m	50 $\mu$ m	32	32	4	19

Sizes available up to 1000x550mm

### STRAIGHT EDGE



4700-150

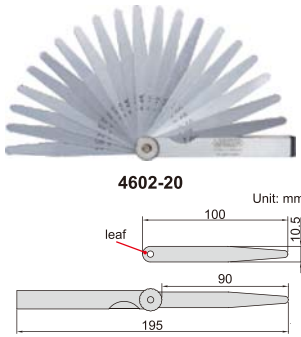
- DIN874
- Beveled edge
- Made of hardened stainless steel
- Satin chrome plating



Code	Size (L)	Straightness	W	H
4700-150	150mm	2.6 $\mu$ m	6mm	30mm

Sizes available up to 500mm

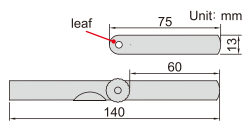
### FEELER GAGE



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

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

### FEELER GAGE

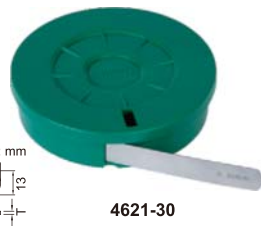
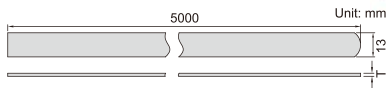


- Made of hardened alloy steel
- Meet DIN2275
- Accuracy:  $\pm(3+T/80)$   $\mu\text{m}$ , 'T' is the thickness of leaves in  $\mu\text{m}$

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

### FEELER GAGE ROLL

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



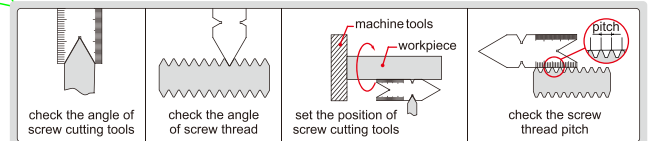
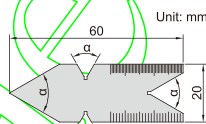
Code	Thickness (T)	Accuracy	Code	Thickness (T)	Accuracy
4621-02	0.02mm	$\pm 4\mu\text{m}$	4621-10	0.10mm	$\pm 5\mu\text{m}$
4621-03	0.03mm	$\pm 4\mu\text{m}$	4621-15	0.15mm	$\pm 6\mu\text{m}$
4621-04	0.04mm	$\pm 4\mu\text{m}$	4621-20	0.20mm	$\pm 8\mu\text{m}$
4621-05	0.05mm	$\pm 4\mu\text{m}$	4621-25	0.25mm	$\pm 9\mu\text{m}$
4621-06	0.06mm	$\pm 4\mu\text{m}$	4621-30	0.30mm	$\pm 9\mu\text{m}$
4621-07	0.07mm	$\pm 5\mu\text{m}$	4621-40	0.40mm	$\pm 12\mu\text{m}$
4621-08	0.08mm	$\pm 5\mu\text{m}$	4621-50	0.50mm	$\pm 14\mu\text{m}$

### CENTER GAGE



4810-55

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



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

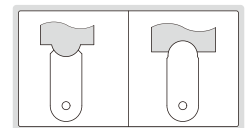
### RADIUS GAGE



4801-17

- Made of medium carbon steel

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

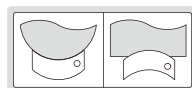


### RADIUS GAGE

- Quantity of leaves: 31pcs
- Accuracy:  $\pm 0.06\text{mm}$
- Made of stainless steel



4802-31



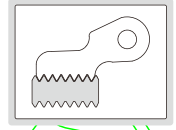
Code	Range	Radius of leaves included (mm)
4802-31	25-40mm	25, 25.5, 26, 26.5, 27, 27.5, 28, 28.5, 29, 29.5, 30, 30.5, 31, 31.5, 32, 32.5, 33, 33.5, 34, 34.5, 35, 35.5, 36, 36.5, 37, 37.5, 38, 38.5, 39, 39.5, 40

## PITCH GAGE

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



4820-124



### Metric 60° screw

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

### Unified 60° screw

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

### Metric 60° and Whitworth 55° screw

Code	Range	Pitch of leaves included	Quantity of leaves
4820-452	0.25-6mm	0.25, 0.3, 0.35, 0.4, 0.45, 0.5, 0.6, 0.7, 0.75, 0.8, 0.9, 1, 1.25, 1.5, 1.75, 2, 2.5, 3, 3.5, 4, 4.5, 5, 5.5, 6mm	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	

### Metric 60° and Unified 60° screw

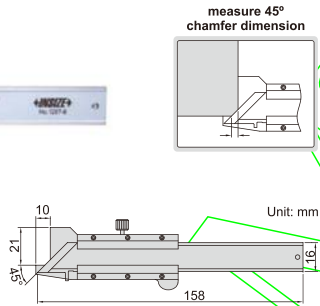
Code	Range	Pitch of leaves included	Quantity of leaves
4820-552	0.4-7mm	0.4, 0.5, 0.6, 0.7, 0.75, 0.8, 0.9, 1, 1.25, 1.5, 1.75, 2, 2.5, 3, 3.5, 4, 4.5, 5, 5.5, 6, 6.5, 7mm	52
	4-42TPI	4, 4-1/2, 5, 5-1/2, 6, 7, 8, 9, 10, 11, 11-1/2, 12, 13, 14, 15, 16, 18, 20, 22, 24, 26, 27, 28, 30, 32, 34, 36, 38, 40,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

## CHAMFER GAGE



1267-6

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



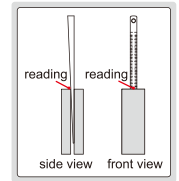
Code	Range	Accuracy	Graduation
1267-6	0-6mm	$\pm 0.06\text{mm}$	0.02mm

## TAPER GAGE



4630-1

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



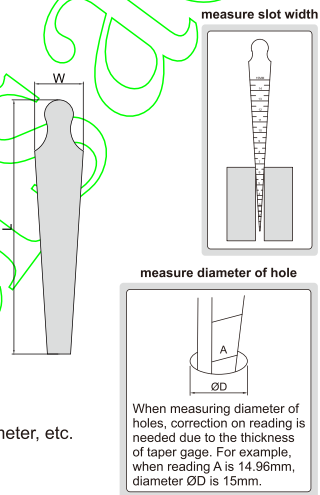
Code	Range	Graduation	Accuracy	L	a	b
4630-1	0.5-10mm	0.05mm	$\pm 0.07\text{mm}$	220mm	10mm	10.5mm

## TAPER GAGE



4833-2

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

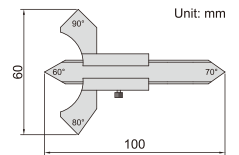


Code	Range	Graduation	Accuracy	L	W
4833-1	0.8-15mm	0.1mm	$\pm 0.1\text{mm}$	146mm	17mm
4833-2	15-30mm	0.1mm	$\pm 0.1\text{mm}$	159mm	30.4mm

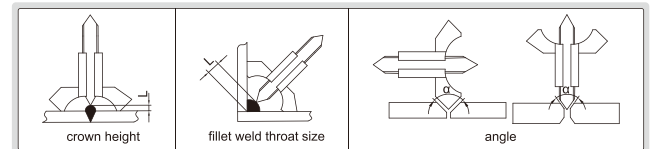
## WELDING GAGE



4830



- Made of stainless steel
- Stain chrome plated reading surface



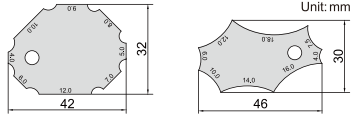
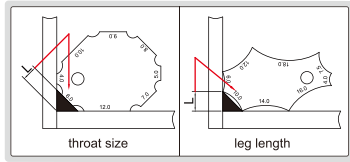
Code	Measurement	Range	Graduation	Accuracy
4830	crown height	0-8mm	0.1mm	$\pm 0.1\text{mm}$
	fillet weld throat size	0-20mm	0.1mm	$\pm 0.3\text{mm}$
	angle	60°, 70°, 80°, 90°	—	$\pm 1^\circ$



**FILLET WELDING GAGE**



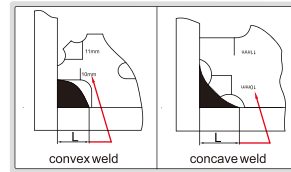
4832-1



- Made of stainless steel
- Sizes marked on both faces

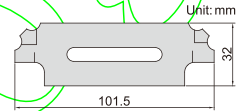
Code	Throat size (mm)	Leg length (mm)	Accuracy
4832-1	4, 5, 6, 7, 8, 9, 10, 12	4, 6, 7.5, 10, 12, 14, 16, 18	±0.5mm

**FILLET WELDING GAGE**



4836-1

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



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

**WELDING GAGE**

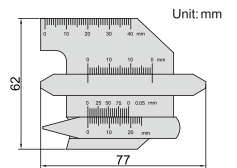


front

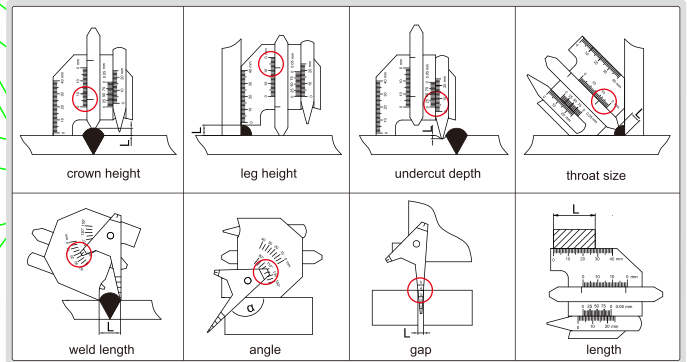
4838-1

back

- Made of stainless steel



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



**WELDING GAGE**

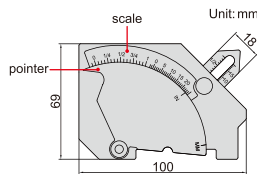


front

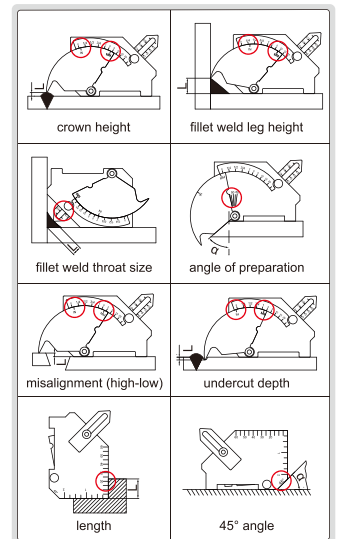
4835-1

back

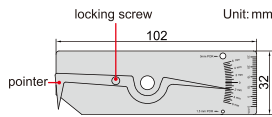
- Adjustable scale to compensate pointer wear
- Made of stainless steel



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°



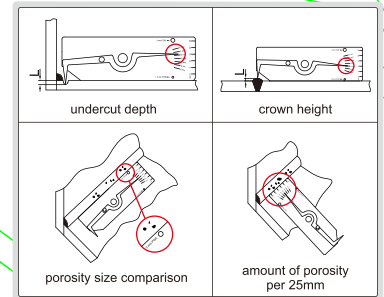
## WELDING GAGE



4834-1

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

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



## PIPE WELDING GAGE



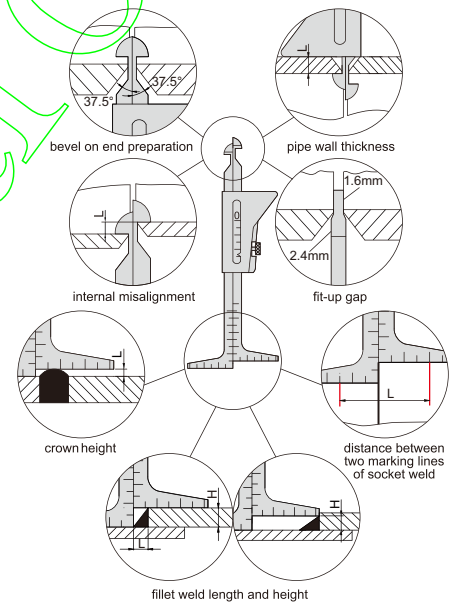
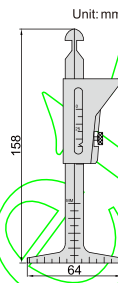
front



back

4839-1

- Made of stainless steel

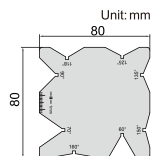


Code	Measurement	Range	Graduation	Accuracy
4839-1	bevel on end preparation	37.5°	—	±1°
	pipe wall thickness	0-45mm (0-1-3/4")	1mm (1/16")	±0.5mm
	internal misalignment	0-35mm (0-1-3/8")	1mm (1/32")	±0.5mm
	fit-up gap	1.6mm, 2.4mm	—	±0.1mm
	crown height	0-35mm (0-1-3/8")	1mm (1/32")	±0.5mm
	distance between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

## DRILL ANGLE GAGE

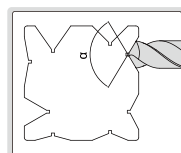


4842-1



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

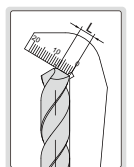
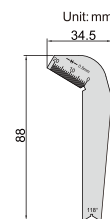
Code	Accuracy
4842-1	±0.5°



## DRILL POINT GAGE

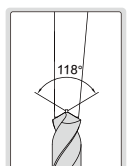


4843-1

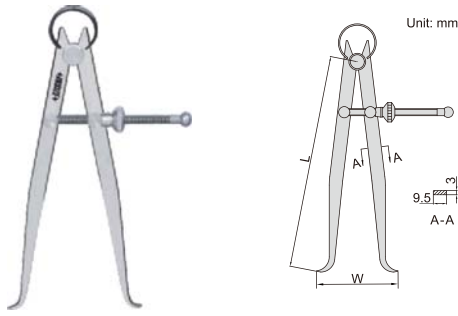


- For twist drills with 118° angle, to check if the center of tip is concentric with the drill body
- Made of stainless steel

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



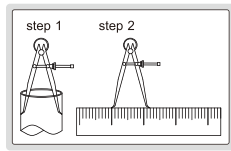
**INSIDE SPRING CALIPER**



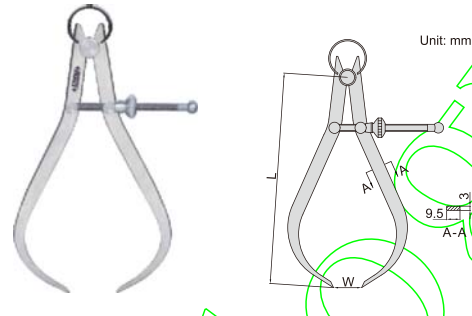
7261-150

- 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



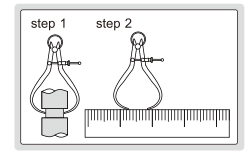
**OUTSIDE SPRING CALIPER**



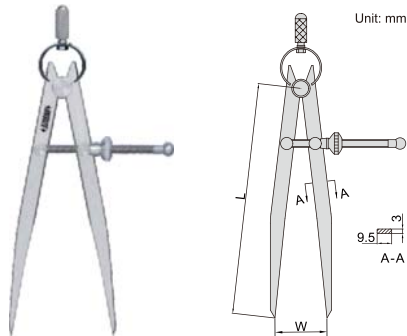
7262-150

- 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



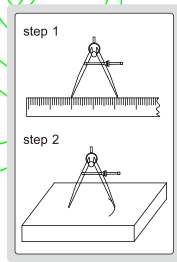
**SPRING DIVIDER**



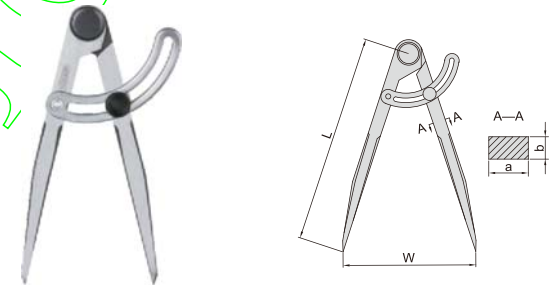
7260-150

- 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



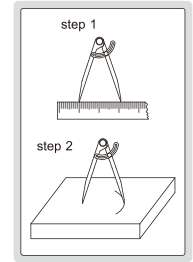
**DIVIDER**



7247-150

- Made of carbon steel
- Hardened points

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

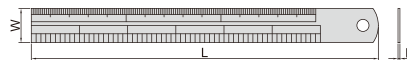


**STEEL RULE**



7110-300

- Graduation: 0,5mm, 1mm, 1/64", 1/32", 1/16"
- Semi-flexible rules
- Made of stainless steel
- Non-glare surface



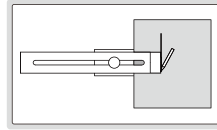
ATTENTION: BASIC MODEL

Code	Range	Accuracy	L (mm)	W (mm)	H (mm)	Remark
7110-150	150mm/6"	±0.15mm	170	18	1.0	graduation on front and back
7110-300	300mm/12"	±0.15mm	330	25	1.0	graduation on front and back
7110-3001	300mm/12"	±0.15mm	325	30	1.0	graduation on front and back
7110-500	500mm/20"	±0.15mm	530	30	1.2	graduation on front and back
7110-600	600mm/24"	±0.20mm	630	30	1.2	graduation on front and back
7110-1000	1000mm/40"	±0.20mm	1040	32	1.5	graduation on front and back

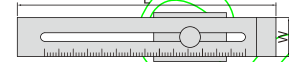
## MARKING GAGE

- Made of stainless steel
- Satin chrome finish

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



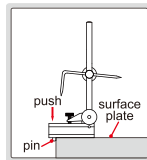
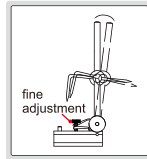
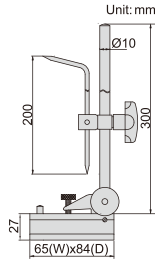
7120-200A



## HEIGHT SCRIBER



6990-300A



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

Code  
6990-300A

## SCRIBER



7230



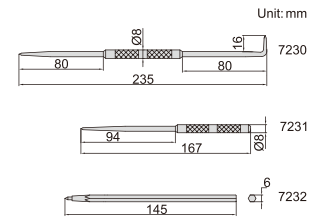
7231



7232

- Nickel plated

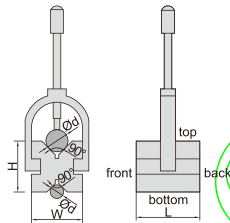
Code	Tip
7230	hardened tips
7231	hardened tip
7232	carbide tip



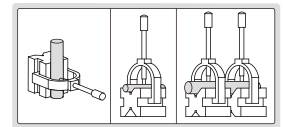
## V-BLOCK SET



6896-11



- Hold cylindrical workpieces for inspection and machining
- Two V-blocks per set
- Made of alloy steel
- Hardened to HRC60±2
- V groove on the top for large shafts
- V groove on the bottom for small shafts (except 6896-10)
- Squareness of V grooves to front and back sides: 5µm
- Height difference of a matched pair: 5µm



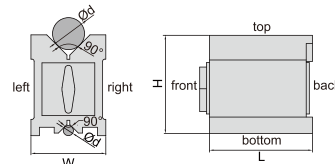
Code	Size (LxWxH)	Range of shafts (Ød)	Parallelism of V grooves to top and bottom sides
6896-11	50x40x40mm	5-30mm	5µm
6896-12	80x63x63mm	7-63mm	5µm
6896-13	100x80x80mm	7-80mm	5µm

## MAGNETIC V-BLOCK

- Hardened, high accuracy, strong magnetic force, for grinding, light milling, drilling and inspection of round and square jobs
- Suitable for cast iron surface plates and granite surface plates
- V groove on the top for large shafts
- V groove on the bottom for small shafts
- All working surfaces are hardened to HRC60±2
- Magnetic force on top, bottom and two V grooves



6889-1

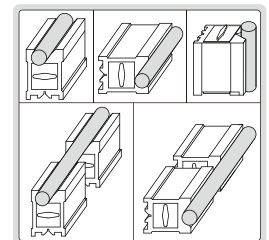


HIGH PRECISION  
HARDENED SURFACES

STRONG MAGNETIC FORCE

### Matched pair

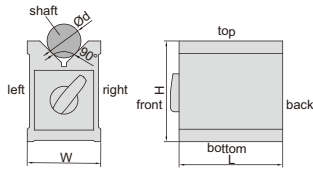
Code	Size (LxWxH)	Range of shafts (Ød)	Magnetic force	Parallelism of V grooves to top, bottom, left, right sides	Squareness of V grooves to back side	Height difference of a matched pair
6889-1	75x56x75mm	5-40mm	75kgf	5µm	5µm	5µm



### MAGNETIC V-BLOCK



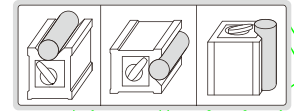
6890-702



- Hold cylindrical workpieces for inspection and machining
- Supplied in single piece
- Not hardened
- Not suitable for steel or iron surface
- Parallelism of V groove to top, bottom, left and right sides: 10µm
- Squareness of V groove to back side: 10µm

ATTENTION: NOT SUITABLE FOR STEEL OR IRON SURFACE

ATTENTION: NOT HARDENED



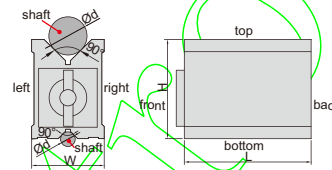
Code	Size (LxWxH)	Range of shafts (Ød)	Magnetic force
6890-702	70x60x73mm	6-44mm	56kgf

### MAGNETIC V-BLOCK



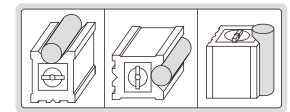
6801-1202

- Hold cylindrical workpieces for inspection and machining
- Supplied in single piece
- Not hardened
- V groove on the top for large shafts
- V groove on the bottom for small shafts
- Not suitable for steel or iron surface



ATTENTION: NOT SUITABLE FOR STEEL OR IRON SURFACE

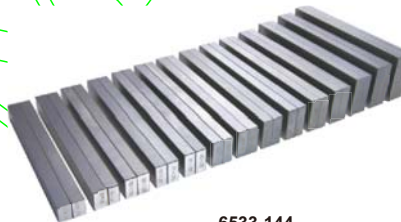
ATTENTION: NOT HARDENED



Code	Size (LxWxH)	Range of shafts (Ød)	Magnetic force	Parallelism of V grooves to top, bottom, left, right sides	Squareness of V grooves to back side
6801-1202	100x70x95mm	6-67mm	80kgf	10µm	10µm

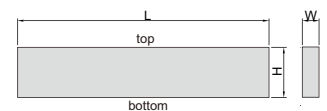
### PARALLEL SET

- Parallelism between top and bottom: 5µm
- Height difference of a matched pair: 5µm
- Hardened to HRC55-60
- Made of alloy tool steel



6533-144

Code	Parallels per set	Length (L)	Thickness (W)	Height (H) (mm)
6533-144	14 pairs	150	10	14, 16, 18, 20, 22, 24, 26, 28, 30, 32, 35, 40, 45, 50



### CENTERING INDICATOR

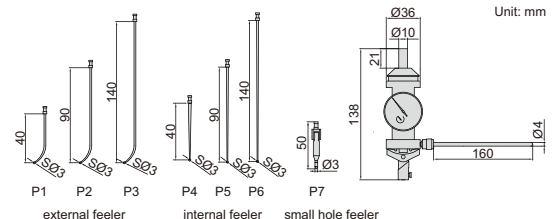
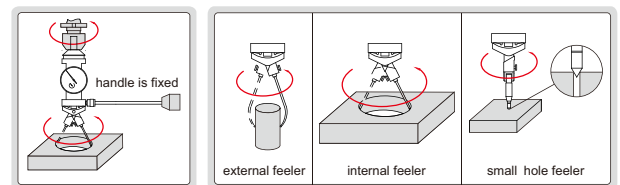


2385-3

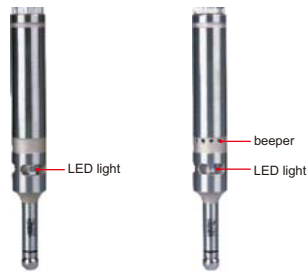
- Provides quick and accurate centering in boring and milling set-up

Code  
2385-3

Feeler	Measuring diameter	Accuracy
P1	Ø0-60mm	±0.04mm
P2	Ø0-160mm	±0.06mm
P3	Ø0-250mm	±0.08mm
P4	Ø3.2-80mm	±0.04mm
P5	Ø3.2-180mm	±0.06mm
P6	Ø3.2-280mm	±0.08mm
P7	Ø0-2.8mm	±0.04mm

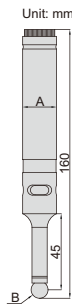


### ELECTRONIC EDGE FINDER

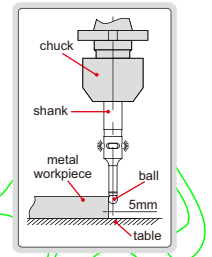


6566-2

6566-3



- Accuracy: 5µm
- The shank is electrically conducted to the metal workpiece through the chuck and table, the LED lights up and the beeper sounds (only for 6566-3), when the ball touches the workpiece
- Not suitable for rotary use
- Hardened shank and contact ball



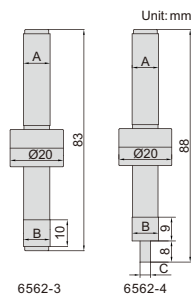
Code	Shank (A)	Contact ball (B)	Beeper	Battery
6566-2	Ø20mm	SØ10mm	without	23AE, 12Vx1pc
6566-3	Ø20mm	SØ10mm	with	23AE, 12Vx1pc

### EDGE FINDER



6562-3

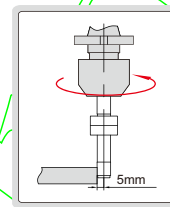
6562-4



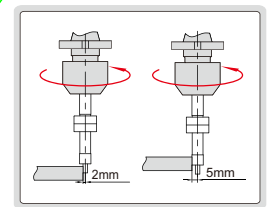
6562-3

6562-4

- Hardened shank and contact point



6562-3



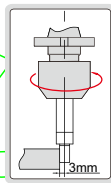
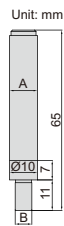
6562-4

Code	Shank (A)	Contact point (B)	Contact point (C)	Accuracy
6562-3	Ø10mm	Ø10mm	—	5µm
6562-4	Ø10mm	Ø10mm	Ø4mm	5µm

### EDGE FINDER



6567-1



- Hardened shank and contact point

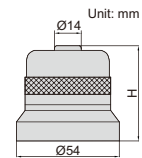
Code	Shank (A)	Contact point (B)	Accuracy
6567-1	Ø10mm	Ø6mm	8µm

### ELECTRONIC ZERO SETTER

**ATTENTION:  
HIGH TEST FORCE**

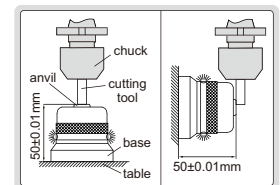


6550-50A



- Accuracy: ±10µm
- The base is electrically conducted to the cutting tools through the table and chuck, the LED lights up when the cutting tool touches the anvil
- Magnetic base
- Battery LR44

Code	Height (H)	Test force
6550-50A	50mm	27N (at 49mm)

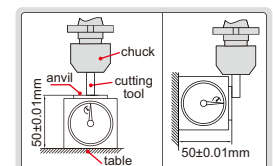
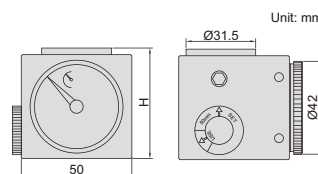


### ZERO SETTER

- Magnetic base
- Accuracy: ±10µm



2397-502A



Code	Height (H)	Test force
2397-502A	50mm	9N (at 50mm)