WATERPROOF DIGITAL PROTRACTOR (HEAVY DUTY)

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

- 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
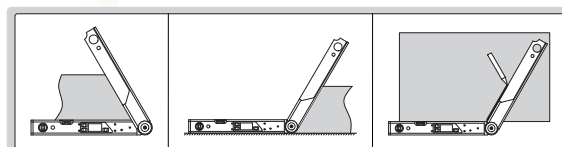
Unit: mm

longitudinal vial
transverse vial
made of aluminum
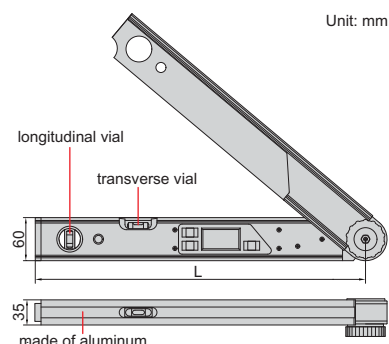
2174-225

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

10

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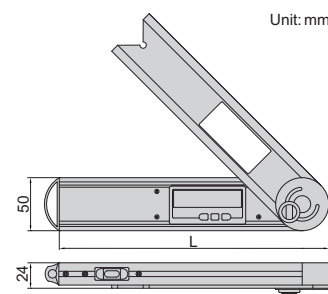
made of stainless steel
level vial
made of aluminum
analogue quadrant
locking screw
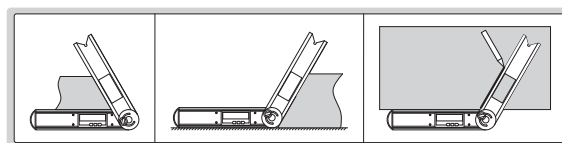
- Buttons: on/off, hold (keep the reading), zero, ABS (absolute and incremental measurement)
- Fix the locking screw at 4 positions for different measuring ranges: 0°~225°, -225°~0°, -45°~180°, -180°~45°
- Remove the locking screw for 360° range
- With level vial
- Battery CR2032, automatic power off

Unit: mm

2171-250

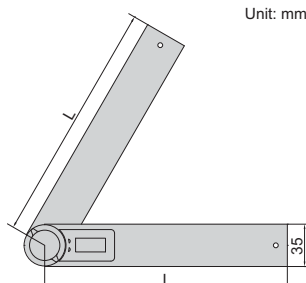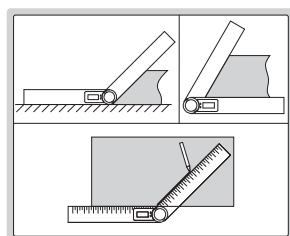| Code	Size (L)	Range	Resolution	Accuracy
2171-250	250mm	0 - 360°	0.05°	±0.15°

DIGITAL PROTRACTORS

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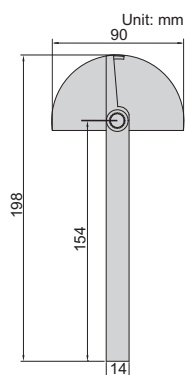- Automatic power off

Unit: mm

2176-200

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

Unit: mm

PROTRACTOR (ECONOMIC TYPE)

4780-85A

- Graduation: 1°
- Made of stainless steel
- With clamping screw

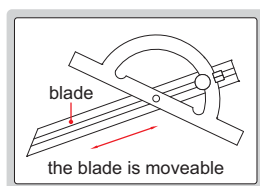| Code	Size	Range	Accuracy
4780-85A	90x154mm	0-180°	±0.5°

PROTRACTORS
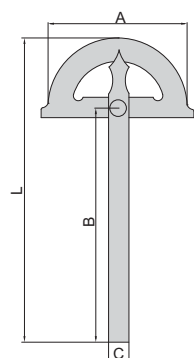
4799-180

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

(mm)

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

10

PROTRACTORS

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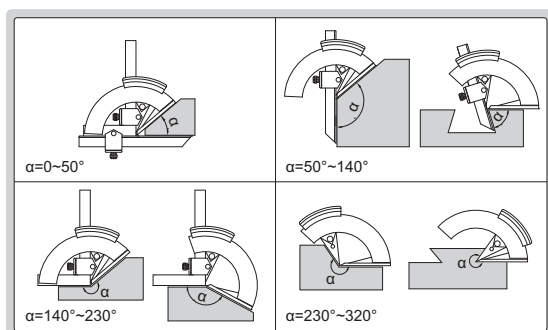- Satin chrome plated
- With clamping screw
- The blade is moveable

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

4797-100

PROTRACTOR

α=0~50°

α=50°~140°

α=140°~230°

α=230°~320°

Unit: mm
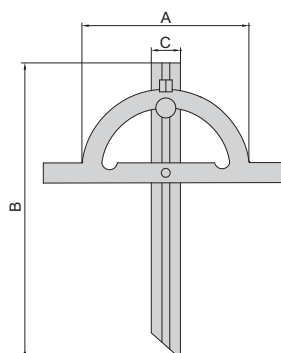
Code	Range	Graduation	Accuracy
2374-320	0-320°	2'	±2'
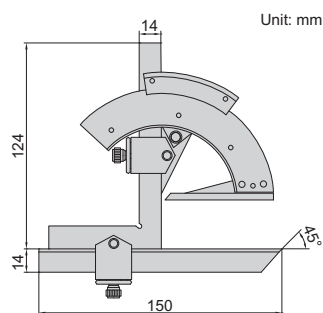
- Made of stainless steel
- Satin chrome plated scale

2374-320

UNIVERSAL PROTRACTOR

150mm blade (included)

300mm blade (included)

Unit: mm

clamp for height gages (**optional**)

Unit: mm
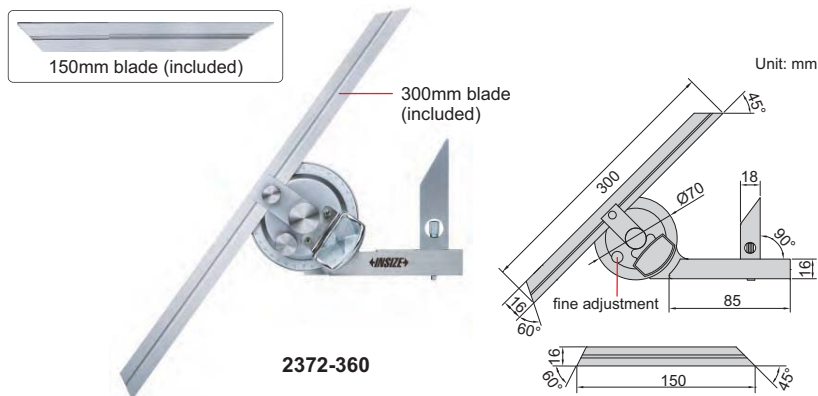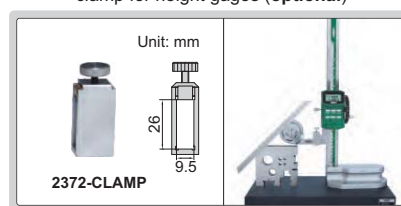
2372-CLAMP

2372-360

- 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
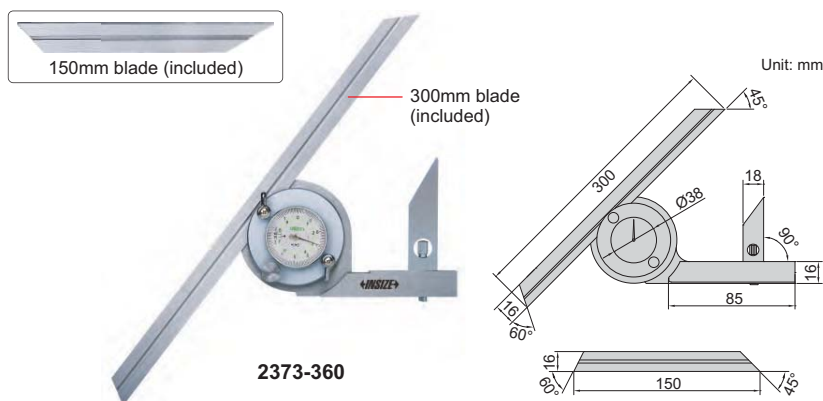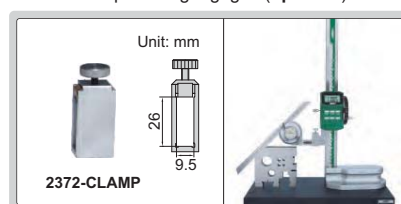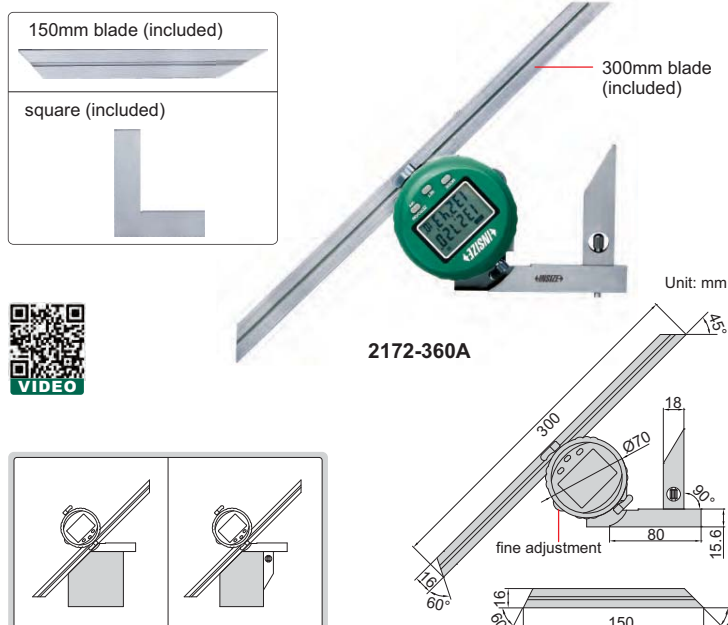
150mm blade (included)

300mm blade (included)

Unit: mm

clamp for height gages (**optional**)
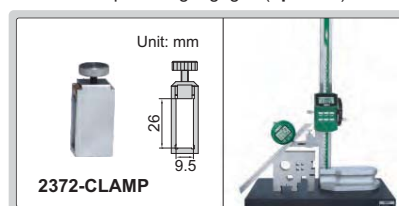
Unit: mm

2372-CLAMP

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

150mm blade (included)

square (included)

300mm blade (included)

clamp for height gages (**optional**)

DATA OUTPUT

Unit: mm

2372-CLAMP

VIDEO

Unit: mm

2172-360A
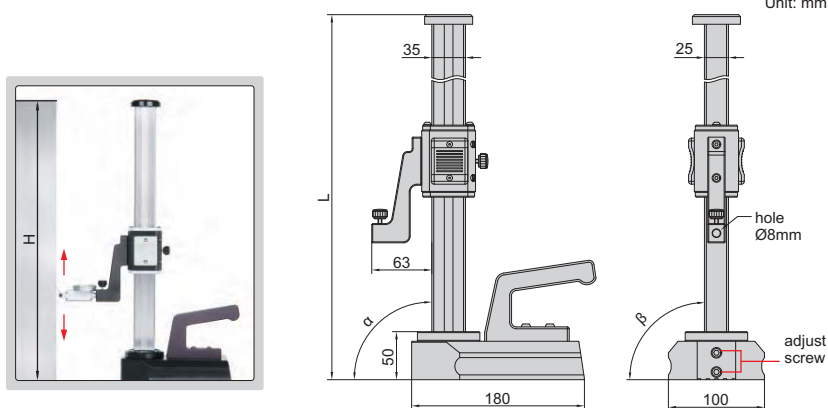
- Display in degree (for example 32.655°) and degree/minute/second (for example 32°39'30")
- SET button: preset the reading, change measuring direction
- MODE button: choose 0~90°, 0~180° or 0~360° display
- ZERO/ON/OFF button: zero and power on/off
- Battery CR2032, automatic power off
- Data output
- Supplied with square to set 90°
- Made of stainless steel
- Optional accessory: data output cable (code **7315-, 7302-, 7305-**), clamp (code **2372-CLAMP**), suitable for height gages **1156**, **1351** and **1250**

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

PERPENDICULARITY TESTERS

Unit: mm

35

25

L

63

hole Ø8mm

α

50

adjust screw

β

180

100

dial test indicator is optional

4770-300

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

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

CYLINDER SQUARES

INSPECTION CERTIFICATE

Unit: mm

inspect 90° internal and external angles

working surface

working surface

11

L

working surface

Ø60

working surface

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

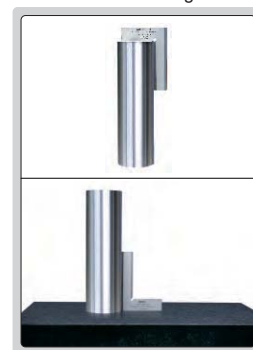| Code	Length (L)	Squareness
4710-200 *	200mm	1μm
4710-300 *	300mm	2μm

*Supplied with manufacturer inspection certificate

4710-200

GRANITE SQUARES

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

4141-250

Ⓐ H

90°

Ⓑ W

D

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