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

INSPECTION CERTIFICATE

GRANITE SURFACE PLATES

6900-132

Grade 00

Code	Size (LxWxH)	Flatness	Weight	Max. load
6900-132*	300x200x60mm	2.7μm	11kg	30kg
6900-142*	400x250x60mm	2.9μm	18kg	50kg
6900-144*	400x400x60mm	3.1μm	29kg	60kg
6900-153*	500x315x70mm	3.2μm	33kg	60kg
6900-164*	630x400x80mm	3.5μm	60kg	65kg
6900-166*	630x630x100mm	3.8μm	119kg	75kg
6900-185*	800x500x100mm	3.9μm	120kg	100kg
6900-1106*	1000x630x140mm	4.4μm	265kg	200kg
6900-1101*	1000x1000x150mm	4.8μm	450kg	400kg
6900-1128*	1200x800x160mm	4.9μm	461kg	500kg
6900-1161*	1600x1000x180mm	5.8μm	864kg	600kg
6900-1201*	2000x1000x220mm	6.5μm	1320kg	650kg
6900-1202*	2000x1500x250mm	7.0μm	2250kg	750kg

Grade 0

Code	Size (LxWxH)	Flatness	Weight	Max. load
6900-032*	300x200x60mm	5.4μm	11kg	60kg
6900-042*	400x250x60mm	5.9μm	18kg	100kg
6900-044*	400x400x60mm	6.3μm	29kg	120kg
6900-053*	500x315x70mm	6.4μm	33kg	120kg
6900-064*	630x400x80mm	7.0μm	60kg	130kg
6900-066*	630x630x100mm	7.6μm	119kg	150kg
6900-085*	800x500x100mm	7.8μm	120kg	200kg
6900-0106*	1000x630x140mm	8.7μm	265kg	400kg
6900-0101*	1000x1000x150mm	9.7μm	450kg	800kg
6900-0128*	1200x800x160mm	9.8μm	461kg	1000kg
6900-0161*	1600x1000x180mm	11.5μm	864kg	1200kg
6900-0201*	2000x1000x220mm	12.9μm	1320kg	1300kg
6900-0202*	2000x1500x250mm	14.0μm	2250kg	1500kg

*Supplied with manufacturer inspection certificate

- Made of granite, free from deterioration or dimensional change over time, minimal changes in dimension due to temperature changes
- Meet DIN876, grade 00 is for inspection room or lab, grade 0 is for workshop
- Optional accessory:
  stand for granite surface plate (code **6902**),
  jack for granite surface plate (code **6903**)

12

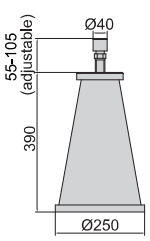
JACK SET FOR GRANITE SURFACE PLATES

- 5 jacks per set
- Adjustable height
- For large granite surface plates:
  2000x1000x220mm
  (code **6900-0201** and **6900-1201**)
  2000x1500x250mm
  (code **6900-0202** and **6900-1202**)

Code
6903-B

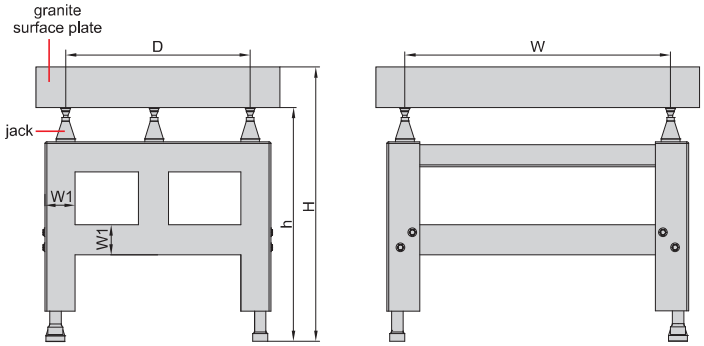
6903-B

Unit: mm



STANDS FOR GRANITE SURFACE PLATES

6902-64A



12

- For medium size granite surface plates
- 5 jacks are included
- Adjusting range of jacks: 25mm
- One foot on the bottom is adjustable

Low stands (mm)

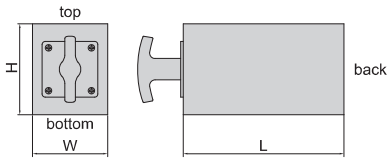
Code	For granite surface plate	W	D	H (with granite surface plate)	h (without granite surface plate)	W1
6902-64A	630x400x80mm (code **6900-064** and **6900-164**)	352	224	775-800	695-720	80
6902-66A	630x630x100mm (code **6900-066** and **6900-166**)	352	352	775-800	675-700	80
6902-85A	800x500x100mm (code **6900-085** and **6900-185**)	448	280	775-800	675-700	80
6902-106A	1000x630x140mm (code **6900-0106** and **6900-1106**)	560	352	755-780	615-640	80
6902-101A	1000x1000x150mm (code **6900-0101** and **6900-1101**)	560	560	755-780	605-630	80
6902-128A	1200x800x160mm (code **6900-0128** and **6900-1128**)	672	448	755-780	595-620	80
6902-161A	1600x1000x180mm (code **6900-0161** and **6900-1161**)	896	560	755-780	575-600	80
6902-201A	2000×1000×220mm(code **6900-0201** and **6900-1201**)	1120	560	755-780	535-560	100
6902-202A	2000×1500×250mm(code **6900-0202** and **6900-1202**)	1120	840	755-780	505-530	100

High stands (mm)

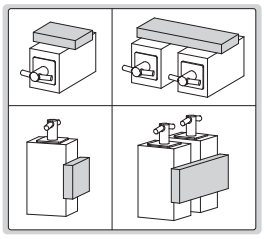
Code	For granite surface plate	W	D	H (with granite surface plate)	h (without granite surface plate)	W1
6902-64H	630x400x80mm (code **6900-064** and **6900-164**)	352	224	1000-1025	920-945	80
6902-66H	630x630x100mm (code **6900-066** and **6900-166**)	352	352	1000-1025	900-925	80
6902-85H	800x500x100mm (code **6900-085** and **6900-185**)	448	280	1000-1025	900-925	80
6902-106H	1000x630x140mm (code **6900-0106** and **6900-1106**)	560	352	1000-1025	860-885	80
6902-101H	1000x1000x150mm (code **6900-0101** and **6900-1101**)	560	560	1000-1025	850-875	80
6902-128H	1200x800x160mm (code **6900-0128** and **6900-1128**)	672	448	1000-1025	840-865	80
6902-161H	1600x1000x180mm (code **6900-0161** and **6900-1161**)	896	560	1000-1025	820-845	80
6902-201H	2000×1000×220mm(code **6900-0201** and **6900-1201**)	1120	560	1000-1025	780-805	100
6902-202H	2000×1500×250mm(code **6900-0202** and **6900-1202**)	1120	840	1000-1025	750-775	100

HARDENED SURFACES | HIGH PRECISION | STRONG MAGNETIC FORCE

MAGNETIC RECTANGULAR BLOCKS



6898-150



- For grinding, light milling, drilling and inspection of round and square jobs
- Hardened, high accuracy, strong magnetic force
- Working surfaces are hardened to HRC58-62
- Magnetic force on top, bottom and back sides
- Supplied in matched pair

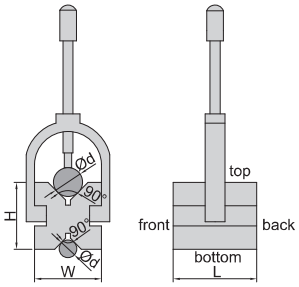
Code	Size (LxWxH)	Magnetic force	Parallelism of top to bottom side	Squareness of top and bottom to back side	Height difference of a matched pair
6898-100	100x70x70mm	100kgf	5μm	5μm	5μm
6898-150	150x70x85mm	125kgf	5μm	5μm	5μm

12

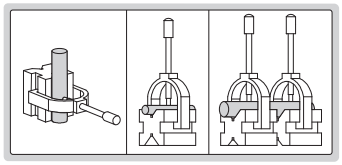
V-BLOCK SETS

6896-10

6896-11



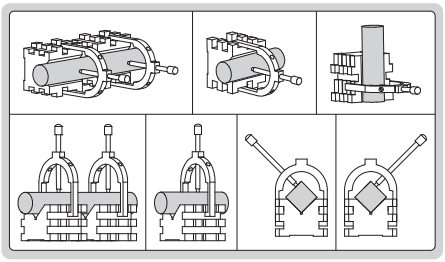
- Hold cylindrical workpieces for inspection and machining
- Two V-blocks per set
- Made of alloy steel
- Hardened to HRC60±2
- V groove on the top for large shafts
- V groove on the bottom for small shafts (except **6896-10**)



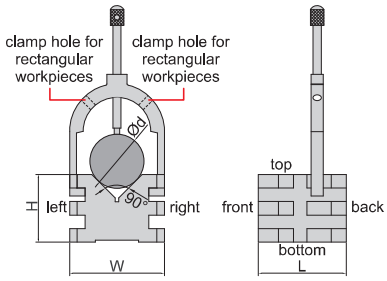
Code	Size (LxWxH)	Range of shafts (Ød)	Parallelism of both V grooves to top and bottom sides	Squareness of both V grooves to front and back sides	Height difference of a matched pair
6896-10	25x20x20mm	3-20mm	3μm	3μm	3μm
6896-11	50x40x40mm	5-30mm	5μm	5μm	5μm
6896-12	80x63x63mm	7-63mm	5μm	5μm	5μm
6896-13	100x80x80mm	7-80mm	5μm	5μm	5μm
6896-14	70x140x140mm	9-140mm	5μm	5μm	5μm

V-BLOCK SET

SIDE LIE-DOWN USE IS POSSIBLE



6802-1

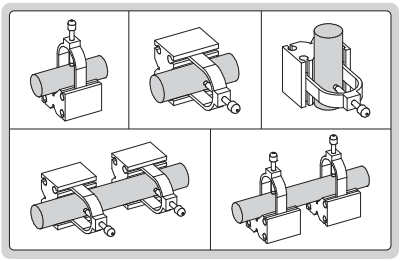


- Hold cylindrical or rectangular workpieces for inspection and machining
- Two V-blocks per set
- Made of alloy steel
- Hardened to HRC60±2
- Applicable for cylinder with diameter (Ød): 5-50mm
- Applicable for rectangular workpieces with thickness: ≤35mm

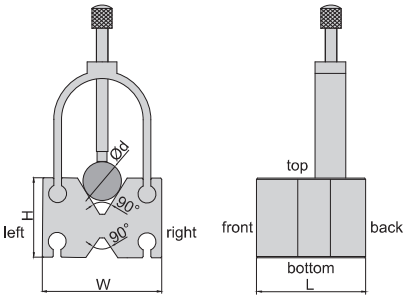
Code	Size (LxWxH)	Parallelism of V groove to top, bottom, left, right sides	Squareness of V groove to front and back sides	Height difference of a matched pair
6802-1	65x70x50mm	5μm	5μm	5μm

V-BLOCK SETS

SIDE LIE-DOWN USE IS POSSIBLE



6803-1

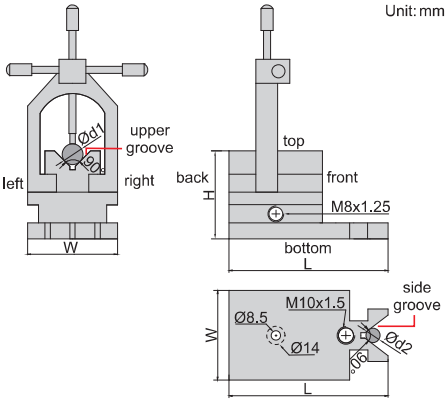


- Hold cylindrical workpieces for inspection and machining
- Two V-blocks per set
- Made of alloy steel
- Hardened to HRC60±2
- V groove on the top for large shafts
- V groove on the bottom for small shafts

Code	Size (LxWxH)	Range of shafts (Ød)	Parallelism of both V grooves to top, bottom, left, right sides	Squareness of both V grooves to front and back sides	Height difference of a matched pair
6803-1	55x60x40mm	4-35mm	5μm	5μm	5μm
6803-2	65x70x45mm	4-47mm	5μm	5μm	5μm

V-BLOCK

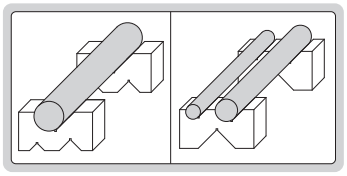
6804-M2



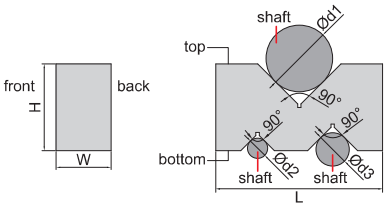
- Hold cylindrical workpieces for inspection and machining
- Made of alloy steel
- Hardened to HRC60±2

Code	Size (LxWxH)	Range of shafts (Ød1 and Ød2)	Parallelism of upper groove to bottom, left and right sides	Squareness of upper groove to back side	Parallelism of side groove to back side
6804-M2	90x48x48mm	5-33mm	5μm	5μm	5μm

V-BLOCK SETS



6887-3

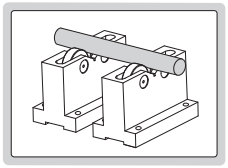


- Two V-blocks per set
- Made of hardened tool steel

Code	Size (LxWxH)	Range of shafts (Ød1)	Range of shafts (Ød2)	Range of shafts (Ød3)
6887-1	50x19x24mm	3-32mm	3-16mm	3-22mm
6887-2	75x24x35mm	3-50mm	3-20mm	3-32mm
6887-3	100x33x52mm	3-68mm	3-26mm	3-40mm
6887-4	125x44x69mm	3-87mm	3-34mm	3-50mm

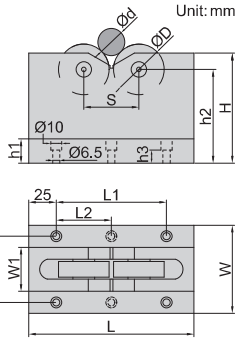
Code	Parallelism of three V grooves to top and bottom sides	Height difference of a matched pair
6887-1	5μm	5μm
6887-2	5μm	5μm
6887-3	5μm	5μm
6887-4	5μm	5μm

ROLLER BEARING V-BLOCK SETS



6888-1

Unit: mm



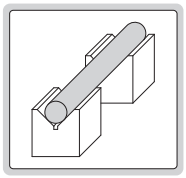
- Runout accuracy: 5μm
- Parallelism of bearings to bottom: 12μm
- Two V-blocks per set
- Workpieces don't get damaged due to bearings
- Suitable for heavy workpieces

Code	Size (LxWxH)	Code of bearings	Diameter of bearings (ØD)	Range of shafts (Ød)	Load capacity
6888-1	150x60x100mm	16004 ZZ	42mm	25-70mm	500kg
6888-2	150x80x100mm	6303 ZZ	47mm	5-55mm	1000kg
6888-3	230x100x150mm	6306 ZZ	72mm	70-200mm	1000kg

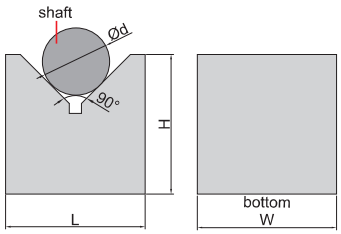
(mm)

Code	W1	W2	h1	h2	h3	L1	L2	S
6888-1	22	44	20	85	12	100	-	60
6888-2	40	60	22	85	12	100	-	50
6888-3	60	80	30	124	20	180	90	120

GRANITE V-BLOCK SETS



6897-1

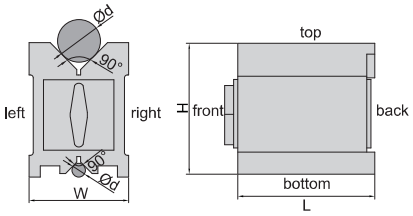


- Two V-blocks per set

Code	Size (LxWxH)	Range of shafts (Ød)	Parallelism of V groove to bottom	Height difference of a matchet pair
6897-1	70x50x70mm	6-75mm	4μm	5μm
6897-2	100x50x70mm	6-99mm	4μm	5μm

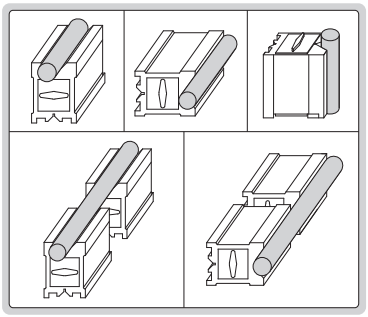
MAGNETIC V-BLOCKS (ADVANCED TYPE)

HARDENED SURFACES | HIGH PRECISION | STRONG MAGNETIC FORCE



6889-11

6889-1



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

Individual

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
6889-11	75x56x75mm	5-40mm	85kgf	5μm	5μm
6889-22	100x70x95mm	5-65mm	150kgf	5μm	5μm
6889-33	150x75x100mm	5-70mm	190kgf	6μm	6μm
6889-55	160x125x130mm	5-140mm	220kgf	12μm	12μm
6889-44	200x125x150mm	10-140mm	400kgf	12μm	12μm

Matched pair

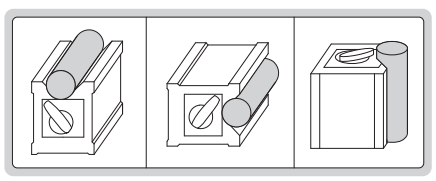
Code	Size (LxWxH)	Range of shafts (Ød)	Magnetic force	Parallelism of V grooves to top, bottom, left, right sides	Squareness of V grooves to back side	Height difference of a matched pair
6889-1	75x56x75mm	5-40mm	85kgf	5μm	5μm	5μm
6889-2	100x70x95mm	5-65mm	150kgf	5μm	5μm	5μm
6889-3	150x75x100mm	5-70mm	190kgf	6μm	6μm	6μm
6889-5	160x125x130mm	5-140mm	220kgf	12μm	12μm	12μm
6889-4	200x125x150mm	10-140mm	400kgf	12μm	12μm	12μm

MAGNETIC V-BLOCK (ECONOMIC TYPE)

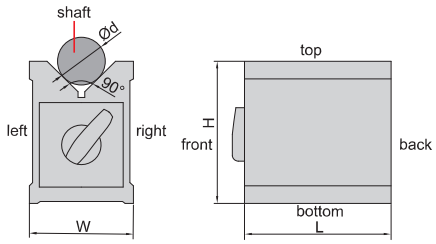
ATTENTION: NOT SUITABLE FOR STEEL OR IRON SURFACES, OTHERWISE THE MAGNETIC FORCE WILL BE REDUCED

ATTENTION: NOT HARDENED

- Hold cylindrical workpieces for inspection and machining
- Supplied in single piece
- Not hardened
- Not suitable for steel or iron surfaces, otherwise the magnetic force will be reduced



6890-702



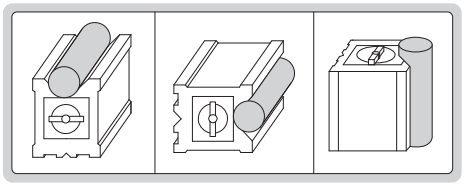
Code	Size (LxWxH)	Range of shafts (Ød)	Magnetic force	Parallelism of V groove to top, bottom, left and right sides	Squareness of V groove to back side
6890-702	70x60x73mm	6-44mm	56kgf	10μm	10μm

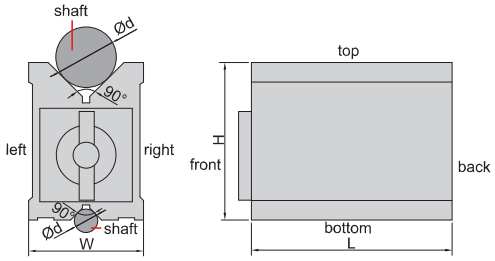
MAGNETIC V-BLOCKS (ECONOMIC TYPE)

ATTENTION: NOT SUITABLE FOR STEEL OR IRON SURFACES, OTHERWISE THE MAGNETIC FORCE WILL BE REDUCED

ATTENTION: NOT HARDENED

- 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 surfaces, otherwise the magnetic force will be reduced

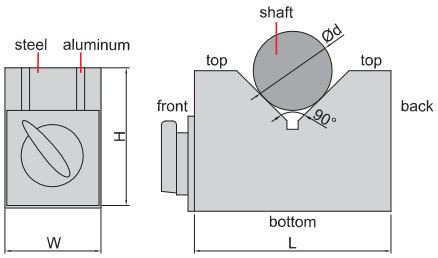




6801-1201

Code	Size (LxWxH)	Range of shafts (Ød)	Magnetic force	Parallelism of V grooves to top, bottom, left, right side	Squareness of V grooves to back side
6801-1201	80x70x95mm	6-67mm	64kgf	10μm	10μm
6801-1202	100x70x95mm	6-67mm	80kgf	10μm	10μm
6801-1203	120x70x95mm	6-67mm	96kgf	10μm	10μm

MAGNETIC V-BLOCK SETS

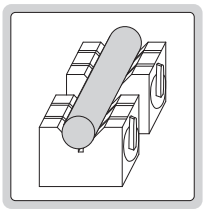


ATTENTION: NOT HARDENED, DO NOT ROTATE WORKPIECES ON V-BLOCKS

ATTENTION: LOW MAGNETIC FORCE

6891-1

- Hold cylindrical workpieces for inspection, not suitable for machining due to low magnetic force
- Two V-blocks per set
- Hardness HRB70



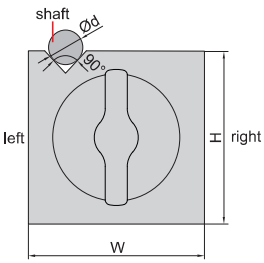
Code	Size (LxWxH)	Range of shafts (Ød)	Magnetic force	Parallelism of V groove to bottom and back sides	Height difference of a matched pair
6891-1	70x40x50mm	6-46mm	8kgf	10μm	10μm
6891-3	150x50x100mm	6-125mm	14kgf	10μm	10μm

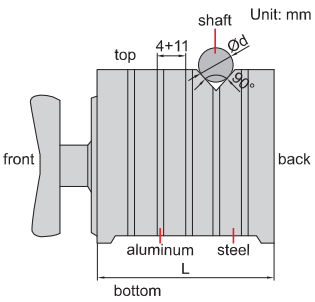
MAGNETIC SQUARE WITH V GROOVE

ATTENTION: NOT HARDENED, DO NOT ROTATE WORKPIECES ON V-BLOCKS

- Hold flat and cylindrical workpieces for inspection and machining
- Magnetic force on top, left, right and V grooves
- Parallelism and squareness of top, bottom, left, right and back: 20μm
- Parallelism and squareness of V grooves to top, bottom, left, right and back: 20μm

6539-100





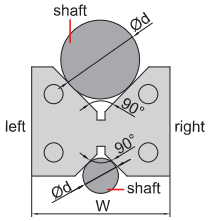
Code	Size (L×W×H)	Magnetic force of V grooves		Magnetic force of top, left and right sides		Range of shafts (Ød)
		On granite surface plate	On cast iron plate	On granite surface plate	On cast iron plate	
6539-100	100×100×100mm	30kgf	25kgf	50kgf	30kgf	5-35mm

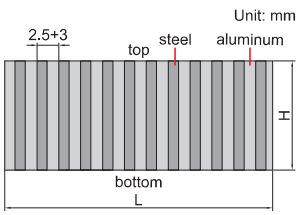
MAGNETIC INDUCTION V-BLOCK

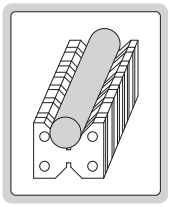
ATTENTION: NOT HARDENED, DO NOT ROTATE WORKPIECES ON V-BLOCKS

- Hold cylindrical workpieces for inspection and machining
- To be used on magnetic chucks
- Supplied in single piece
- V groove on the top for large shafts
- V groove on the bottom for small shafts
- Hardness HRB70

6892-1







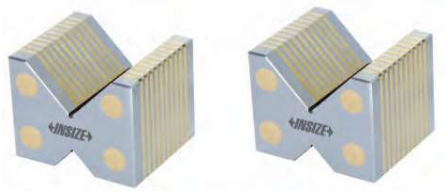
Code	Size (LxWxH)	Range of shafts (Ød)	Pole pitch	Parallelism of both V grooves to top and bottom sides
6892-1	110x60x48mm	6-50mm	2.5+3mm	10μm

MAGNETIC INDUCTION V-BLOCK SET

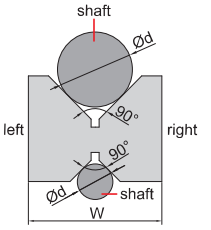
ATTENTION: NOT HARDENED, DO NOT ROTATE WORKPIECES ON V-BLOCKS

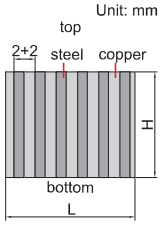
12

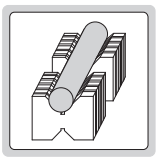
- Hold cylindrical workpieces for inspection and machining
- To be used on magnetic chucks
- Two V-blocks per set
- V groove on the top for large shafts
- V groove on the bottom for small shafts
- Hardness HRB70
- Copper magnetic strips



6878-1







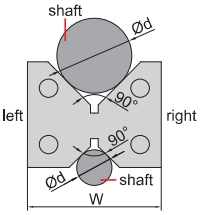
Code	Size (LxWxH)	Range of shafts (Ød)	Pole pitch	Parallelism of both V grooves to top and bottom sides	Height difference of a matched pair
6878-1	49x58x46mm	5-56mm	2+2mm	10μm	10μm

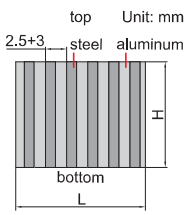
MAGNETIC INDUCTION V-BLOCK SET (ECONOMIC TYPE)

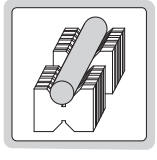
ATTENTION: NOT HARDENED, DO NOT ROTATE WORKPIECES ON V-BLOCKS

- Hold cylindrical workpieces for inspection and machining
- To be used on magnetic chucks
- Two V-blocks per set
- V groove on the top for large shafts
- V groove on the bottom for small shafts
- Hardness HRB70

6899-1





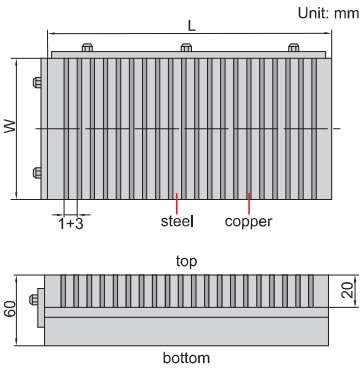


Code	Size (LxWxH)	Range of shafts (Ød)	Pole pitch	Parallelism of both V grooves to top and bottom sides	Height difference of a matched pair
6899-1	55x60x48mm	6-50mm	2.5+3mm	10μm	10μm

ATTENTION:
NOT HARDENED

PERMANENT MAGNETIC CHUCK

6537-400

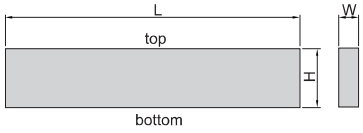


Code	Table size (L×W)	Magnetic force	Pole pitch	Parallelism of top to bottom
6537-400	400×200mm	16kgf/cm²	1+3mm	0.005mm/100mm

PARALLEL SETS

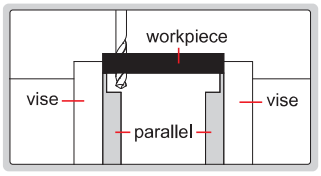
- Parallelism between top and bottom: 5μm
- Height difference of a matched pair: 5μm
- Made of alloy tool steel
- Hardened to HRC55-60

6533-144



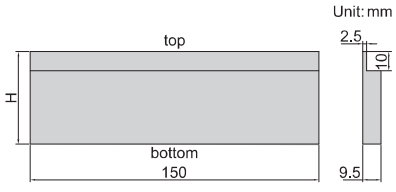
Code	Parallels per set	Length (L)	Thickness (W)	Height (H)
6533-10	10 pairs	150mm	3mm	13, 16, 19, 22, 25, 28, 31, 35, 38, 41mm
6533-144	14 pairs	150mm	10mm	14, 16, 18, 20, 22, 24, 26, 28, 30, 32, 35, 40, 45, 50mm
6533-6	6 pairs	200mm	9.5mm	35, 40, 45, 50, 55, 58mm

PARALLEL SET



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

6534-6

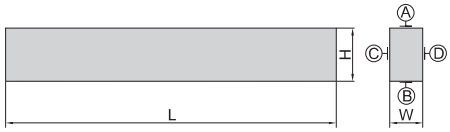


Code	Parallels per set	Height (H)
6534-6	6 pairs	25, 30, 35, 40, 45, 48mm

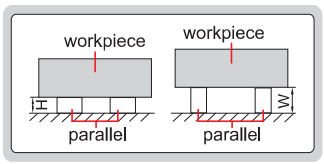
GRANITE PARALLEL SET

- Made of granite, hard and no rusty, no dimensional change over time or temperature change
- Two parallels per set

4143-250



Code	Size (LxWxH)	Parallelism between A and B	Parallelism between C and D	Height difference of a matched pair
4143-250	250x25x40mm	3μm	3μm	3μm



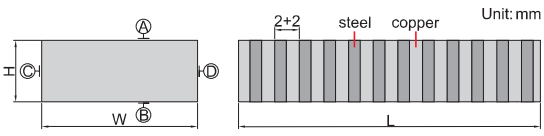
MAGNETIC INDUCTION PARALLEL SET

ATTENTION: NOT HARDENED

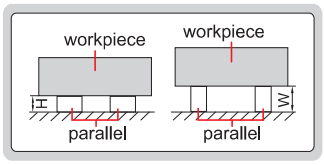
12

- To be used on magnetic chucks
- Two parallels per set
- Hardness HRB70
- Copper magnetic strips

6879-1



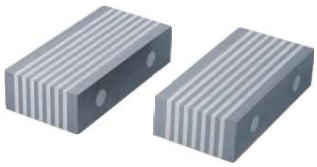
Code	Size (LxWxH)	Pole pitch	Parallelism between A and B	Parallelism between C and D	Height difference of a matched pair
6879-1	100x50x25mm	2+2mm	10μm	10μm	10μm



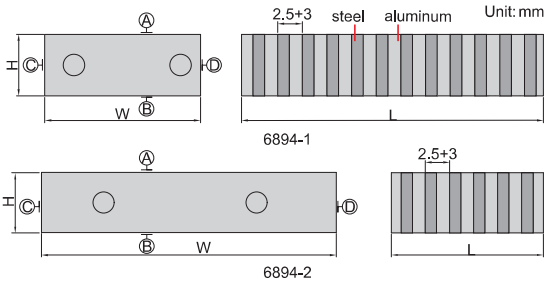
MAGNETIC INDUCTION PARALLEL SETS (ECONOMIC TYPE)

ATTENTION: NOT HARDENED

6894-1

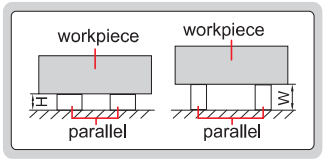


6894-2



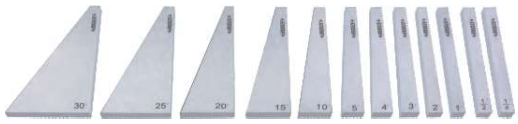
- To be used on magnetic chucks
- Two parallels per set
- Hardness HRB70

Code	Size (LxWxH)	Pole pitch	Parallelism between A and B	Parallelism between C and D	Height difference of a matched pair
6894-1	100x50x25mm	2.5+3mm	10μm	10μm	10μm
6894-2	50x100x25mm	2.5+3mm	10μm	10μm	10μm

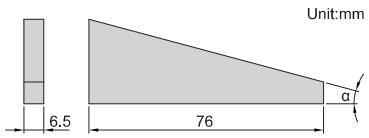


ANGLE PLATE SETS

- For angle set-up in tooling, production and inspection
- Made of tool steel
- Hardness HRC55



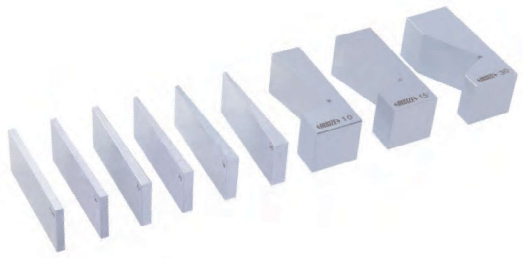
4003-12



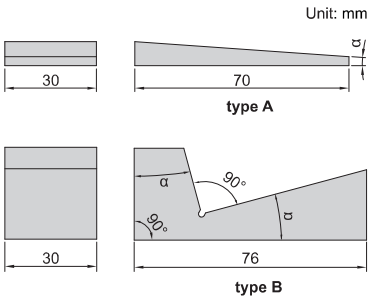
Code	Angle plates included	Angle α	Accuracy
4003-10	10 pcs	1°, 2°, 3°, 4°, 5°, 10°, 15°, 20°, 25°, 30°	±9 seconds
4003-12	12 pcs	1/4°, 1/2°, 1°, 2°, 3°, 4°, 5°, 10°, 15°, 20°, 25°, 30°	±9 seconds

ANGLE PLATE SET

- For angle set-up in tooling, production and inspection
- Made of tool steel
- Hardness HRC55



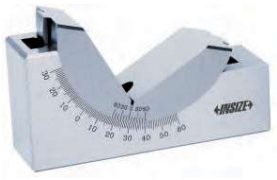
4004-9



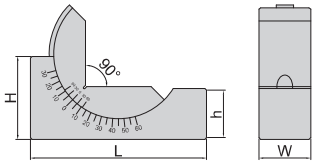
Code	Angle plates included	Angle α	Type	Accuracy
4004-9	9 pcs	1/2°, 1°, 2°, 3°, 4°, 5°	type A	±30 seconds
		10°, 15°, 30°	type B	±50 seconds

ADJUSTABLE ANGLE BLOCKS

- Made of hardened tool steel
- With locking screw
- Accuracy of angle: 10 minutes

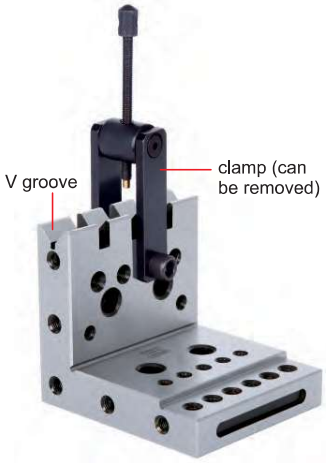


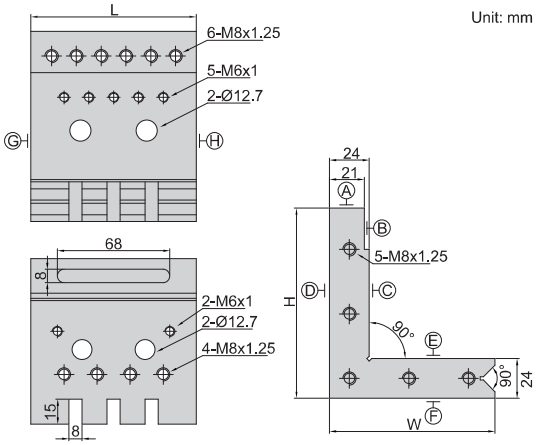
6535-30



Code	Size (LxWxH)	h	Adjustable angle	Graduation of angle
6535-25	75x25x36mm	25mm	30°~0°~60°	10 minutes
6535-30	102x30x49mm	30mm	30°~0°~60°	10 minutes

RIGHT ANGLE PLATE





6547-1

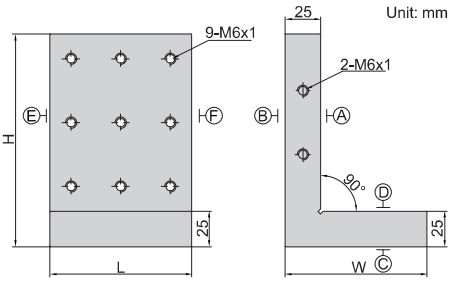
- Made of alloy steel
- Hardened to HRC60±2
- V groove for cylinders
- Parallelism and squareness between A, B, C, D, E, F, G and H: 6μm
- Parallelism and squareness of V groove to A, B, C, D, E, F, G and H: 6μm

Code	Size (LxWxH)
6547-1	100x100x115mm

12

RIGHT ANGLE PLATE

6548-1

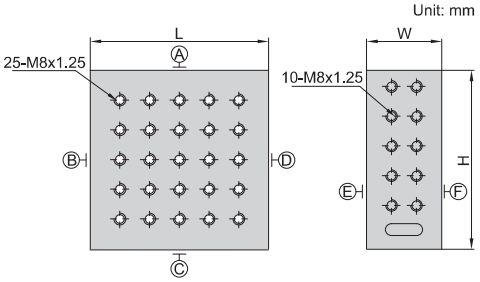


- Made of tool steel
- Hardened to HRC60±2
- Squareness or parallelism between A, B, C, D, E and F : 5μm

Code	Size (LxWxH)
6548-1	100x100x150mm

RIGHT ANGLE PLATE

6549-1



- Made of tool steel
- Hardened to HRC56-58
- Parallelism between A, B, C, D, E and F: 3μm
- Squareness between A, B, C, D, E and F: 5μm

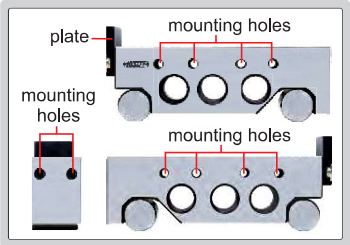
Code	Size (LxWxH)
6549-1	150x63x150mm

SINE BARS

CAN BE CUSTOMIZED

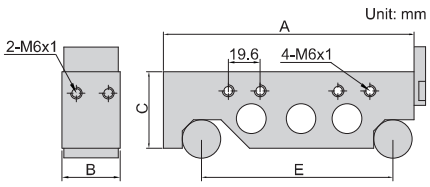
HIGH PRECISION

The front and back ends and two sides have mounting holes to install plate



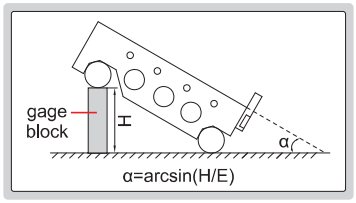
4155-100

Unit: mm



- Made of alloy tool steel

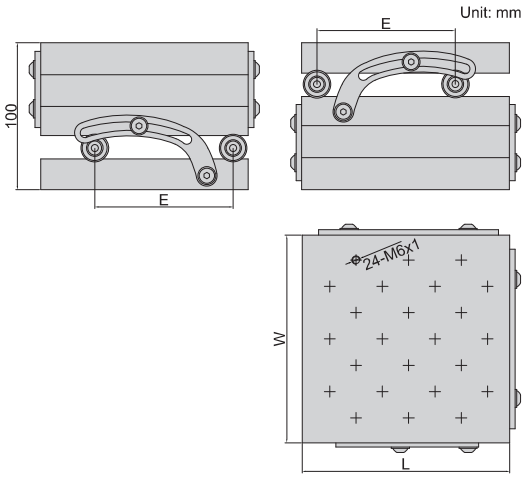
Code	Roller distance (E)	Table size (AxB)	C	Accuracy of α at 30°
4155-100	100mm	130x30mm	40mm	±5 seconds
4155-200	200mm	230x30mm	40mm	±5 seconds
4155-300	300mm	345x40mm	50mm	±8 seconds



COMPOUND SINE TABLE

6536-100

Unit: mm



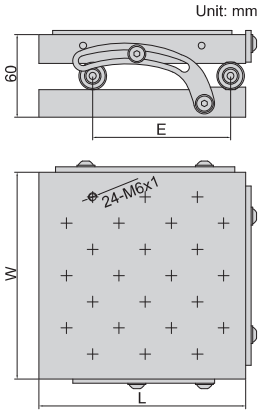
- Accuracy of angle: ±15 seconds
- Made of alloy tool steel
- Hardness HRC58-60

Code	Roller distance (E)	Table size (LxW)	Adjustable angle
6536-100	100mm	150x150mm	0-60°

SINE TABLE

6527-100

Unit: mm

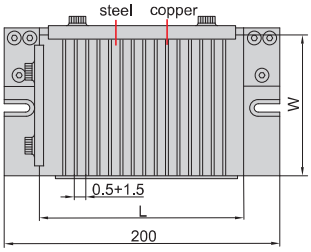


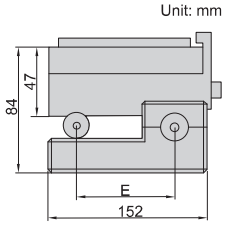
- Accuracy of angle: ±15 seconds
- Made of alloy tool steel
- Hardness HRC58-60

Code	Roller distance (E)	Table size (LxW)	Adjustable angle
6527-100	100mm	150x150mm	0-60°

MAGNETIC SINE TABLE

ATTENTION:
NOT HARDENED





6538-100

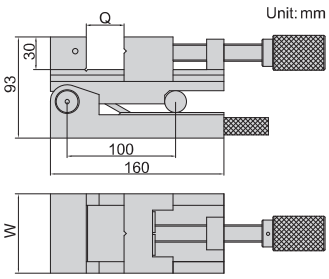
Code	Table size (L×W)	Roller distance (E)	Adjustable angle	Accuracy of angle
6538-100	150×150mm	100mm	0-60°	±15 seconds

PRECISION SINE VISE

6522-80

There is a 1mm step (accuracy +/-0.002mm). Gage blocks smaller than 0.5mm are not available. If small gage blocks are needed (for example, 0.25mm), a gage block 1.25mm can be used in order to make 1.25mm - 1mm = 0.25mm.

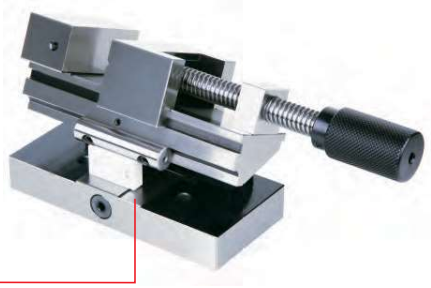
- Parallelism: 3μm/100mm
- Squareness: 5μm/100mm
- Accuracy of angle: ±15 seconds
- Made of SKS tool steel, subzero treatment
- Hardness HRC58-60



Code	Jaw opening (Q)	Jaw width (W)	Adjustable angle
6522-80	0-80mm	73mm	0-46°

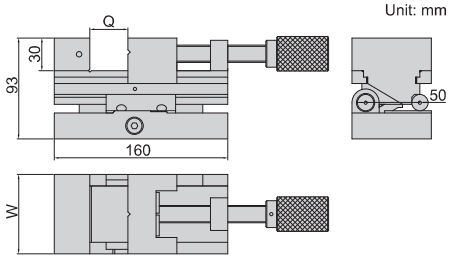
PRECISION SINE VISE

There is a 1mm step (accuracy +/-0.002mm). Gage blocks smaller than 0.5mm are not available. If small gage blocks are needed (for example, 0.25mm), a gage block 1.25mm can be used in order to make 1.25mm - 1mm = 0.25mm.



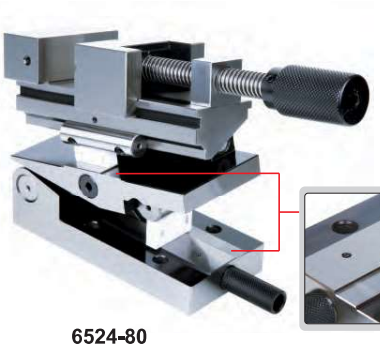
6523-80

- Parallelism: 3μm/100mm
- Squareness: 5μm/100mm
- Accuracy of angle: ±15 seconds
- Made of SKS tool steel, subzero treatment
- Hardness HRC58-60



Code	Jaw opening (Q)	Jaw width (W)	Adjustable angle
6523-80	0-80mm	73mm	0-46°

PRECISION COMPOUND SINE VISE

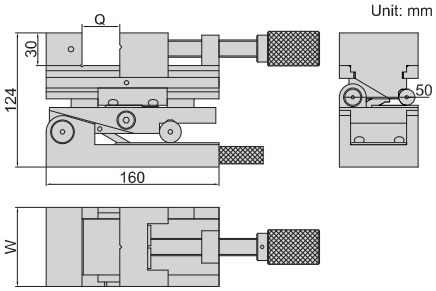


There is a 1mm step (accuracy +/-0.002mm). Gage blocks smaller than 0.5mm are not available. If small gage blocks are needed (for example, 0.25mm), a gage block 1.25mm can be used in order to make 1.25mm - 1mm = 0.25mm.

6524-80

Code	Jaw opening (Q)	Jaw width (W)	Adjustable angle
6524-80	0-80mm	73mm	0-46°

Unit: mm

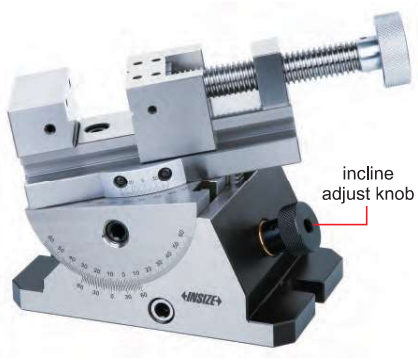


- Parallelism: 3μm/100mm
- Squareness: 5μm/100mm
- Accuracy of angle: ±15 seconds
- Made of SKS tool steel, subzero treatment
- Hardness HRC58-60

PRECISION UNIVERSAL VISE

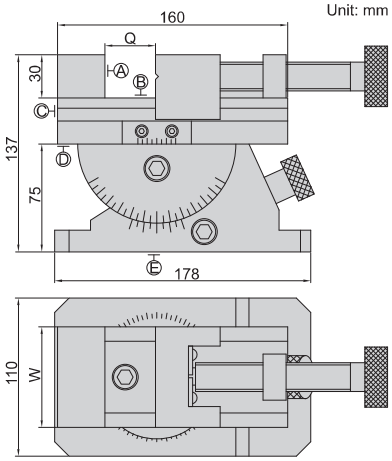
- Horizontal rotary: range 360°, graduation 0.05°
- Vertical incline: range 45°, graduation 0.05°
- With incline adjust knob
- Parallelism and squareness between A, B, C and D: 5μm/100mm, parallelism between D and E at 0°: 10μm/100mm
- Made of tool steel
- Hardness HRC56-58

Code	Jaw opening (Q)	Jaw width (W)
6521-80	0-80mm	70mm



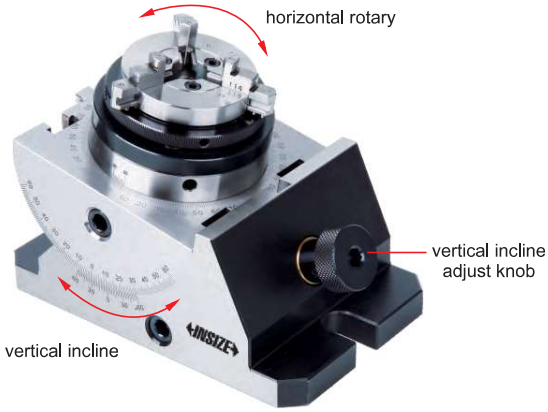
6521-80

Unit: mm



PRECISION UNIVERSAL VISE WITH CHUCK

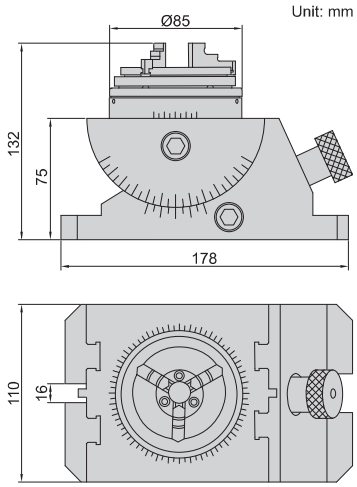
- Horizontal rotary: range 360°, graduation 0.05°
- Vertical incline: range 45°, graduation 0.05°
- With vertical incline adjust knob
- Runout of chuck is less than 0.05mm (test position is at less than 50mm from clamping jaws)
- The clamping jaws of chuck are reversible
- Made of tool steel
- Hardness HRC56-58



6528-85

Code	Range of external clamping	Range of internal clamping
6528-85	Ø0.8~Ø63mm	Ø23~Ø58mm

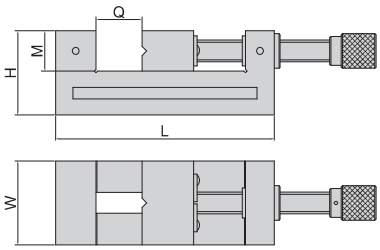
Unit: mm



PRECISION VISES

- Parallelism: 8μm/100mm
- Squareness: 10μm/100mm
- Made of alloy steel
- Hardness HRC56-58

6520-73A

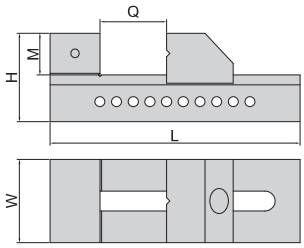


Code	Jaw opening (Q)	Jaw width (W)	L	H	M
6520-73A	0-73mm	63mm	176mm	63mm	30mm
6520-76A	0-76mm	73mm	190mm	73mm	35mm
6520-120A	0-120mm	98mm	255mm	82mm	40mm

PRECISION VISES

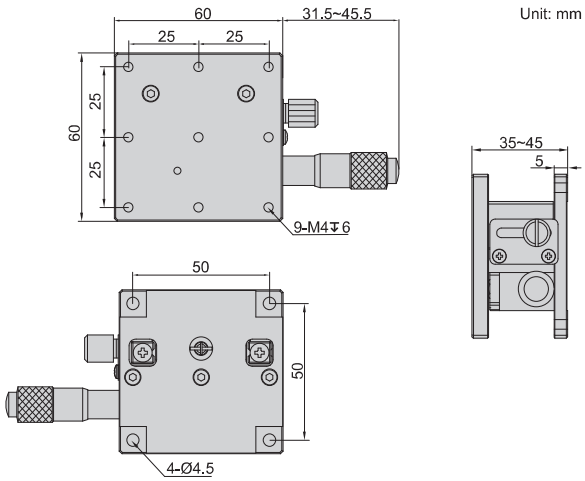
- Parallelism: 3μm/100mm
- Squareness: 5μm/100mm
- Made of alloy steel
- Hardness HRC56-58

6526-80



Code	Jaw opening (Q)	Jaw width (W)	Overall length (L)	H	M
6526-80	0-80mm	50mm	150mm	53mm	25mm
6526-100	0-100mm	73mm	190mm	70mm	35mm

Z-AXIS STAGE
CODE 6586-60



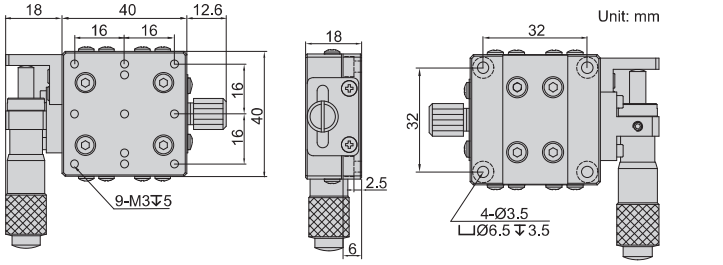
- Cross roller guides, achieve high precision and smooth movement
- Stage made of aluminum alloy

SPECIFICATION

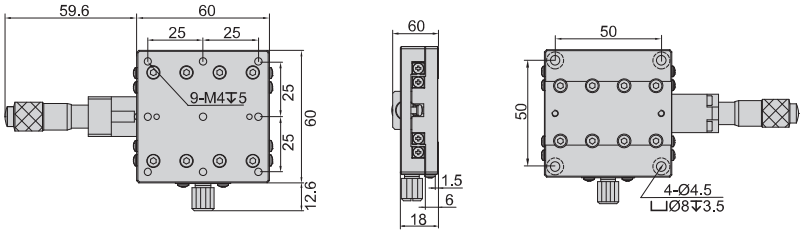
Code	Z-axis displacement	Parallelism of top to bottom surface	Micrometer graduation	Micrometer accuracy	Maximum load	Stage size	Weight
6586-60	10mm	0.05mm	0.01mm	0.02mm	20.4N (3kgf)	60x60mm	0.27kg

X-AXIS STAGES

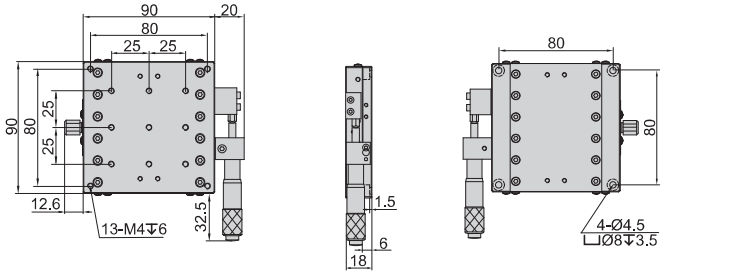
6582-401



6582-602



6582-903



- Cross roller guides, achieve high precision and smooth movement
- Stages made of aluminum alloy

SPECIFICATION (micrometer on the left)

Code	X-axis displacement	Parallelism of top to bottom surface	Micrometer graduation	Micrometer accuracy	Maximum load	Micrometer location	Stage size	Weight
6582-401	±6.5mm	0.02mm	0.01mm	0.01mm	29.4N (3kgf)	left	40x40mm	0.14kg
6582-601	±6.5mm	0.03mm	0.01mm	0.01mm	49N (5kgf)	left	60x60mm	0.24kg
6582-901	±12.5mm	0.03mm	0.01mm	0.02mm	93.1N (9.5kgf)	left	90x90mm	0.47kg
6582-1251	±12.5mm	0.04mm	0.01mm	0.02mm	180N (18.4kgf)	left	125x125mm	1.40kg

SPECIFICATION (micrometer in the middle)

Code	X-axis displacement	Parallelism of top to bottom surface	Micrometer graduation	Micrometer accuracy	Maximum load	Micrometer location	Stage size	Weight
6582-402	±6.5mm	0.02mm	0.01mm	0.01mm	29.4N (3kgf)	middle	40x40mm	0.14kg
6582-602	±6.5mm	0.03mm	0.01mm	0.01mm	49N (5kgf)	middle	60x60mm	0.24kg
6582-902	±12.5mm	0.03mm	0.01mm	0.02mm	93.1N (9.5kgf)	middle	90x90mm	0.47kg
6582-1252	±12.5mm	0.04mm	0.01mm	0.02mm	180N (18.4kgf)	middle	125x125mm	1.40kg

SPECIFICATION (micrometer on the right)

Code	X-axis displacement	Parallelism of top to bottom surface	Micrometer graduation	Micrometer accuracy	Maximum load	Micrometer location	Stage size	Weight
6582-403	±6.5mm	0.02mm	0.01mm	0.01mm	29.4N (3kgf)	right	40x40mm	0.14kg
6582-603	±6.5mm	0.03mm	0.01mm	0.01mm	49N (5kgf)	right	60x60mm	0.24kg
6582-903	±12.5mm	0.03mm	0.01mm	0.02mm	93.1N (9.5kgf)	right	90x90mm	0.47kg
6582-1253	±12.5mm	0.04mm	0.01mm	0.02mm	180N (18.4kgf)	right	125x125mm	1.40kg

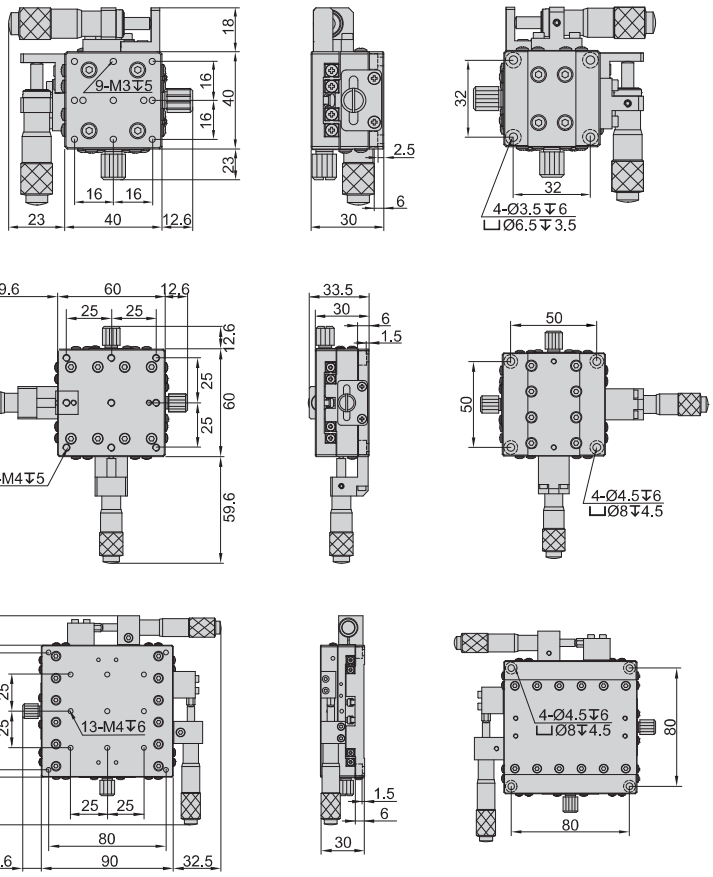
XY-AXIS STAGES

6584-401

6584-602

6584-903

Unit: mm



- Cross roller guides, achieve high precision and smooth movement
- Stages made of aluminum alloy

SPECIFICATION (micrometer on the left)

Code	XY-axis displacement	Parallelism of top to bottom surface	Micrometer graduation	Micrometer accuracy	Maximum load	Micrometer location	Stage size	Weight
6584-401	±6.5mm	0.04mm	0.01mm	0.01mm	29.4N (3kgf)	left	40x40mm	0.27kg
6584-601	±6.5mm	0.06mm	0.01mm	0.01mm	49N (5kgf)	left	60x60mm	0.48kg
6584-901	±12.5mm	0.06mm	0.01mm	0.02mm	93.1N (9.5kgf)	left	90x90mm	1kg
6584-1251	±12.5mm	0.08mm	0.01mm	0.02mm	180N (18.4kgf)	left	125x125mm	2.8kg

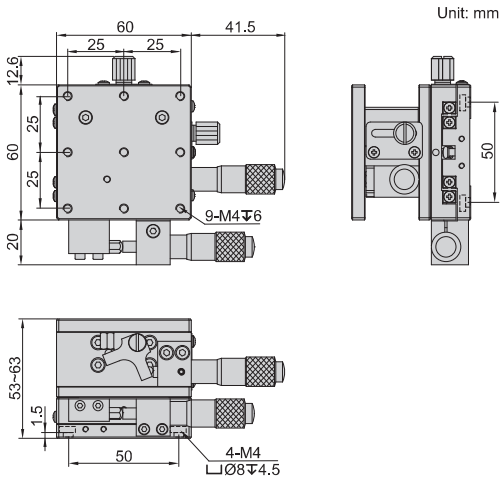
SPECIFICATION (micrometer in the middle)

Code	XY-axis displacement	Parallelism of top to bottom surface	Micrometer graduation	Micrometer accuracy	Maximum load	Micrometer location	Stage size	Weight
6584-402	±6.5mm	0.04mm	0.01mm	0.01mm	29.4N (3kgf)	middle	40x40mm	0.27kg
6584-602	±6.5mm	0.06mm	0.01mm	0.01mm	49N (5kgf)	middle	60x60mm	0.48kg
6584-902	±12.5mm	0.06mm	0.01mm	0.02mm	93.1N (9.5kgf)	middle	90x90mm	1kg
6584-1252	±12.5mm	0.08mm	0.01mm	0.02mm	180N (18.4kgf)	middle	125x125mm	2.8kg

SPECIFICATION (micrometer on the right)

Code	XY-axis displacement	Parallelism of top to bottom surface	Micrometer graduation	Micrometer accuracy	Maximum load	Micrometer location	Stage size	Weight
6584-403	±6.5mm	0.04mm	0.01mm	0.01mm	29.4N (3kgf)	right	40x40mm	0.27kg
6584-603	±6.5mm	0.06mm	0.01mm	0.01mm	49N (5kgf)	right	60x60mm	0.48kg
6584-903	±12.5mm	0.06mm	0.01mm	0.02mm	93.1N (9.5kgf)	right	90x90mm	1kg
6584-1253	±12.5mm	0.08mm	0.01mm	0.02mm	180N (18.4kgf)	right	125x125mm	2.8kg

XZ-AXIS STAGE
CODE 6587-60

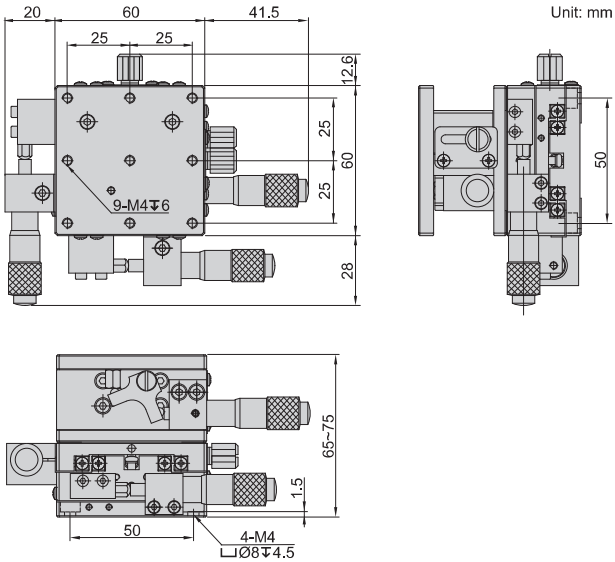


- Cross roller guides, achieve high precision and smooth movement
- Stage made of aluminum alloy

SPECIFICATION

Code	X-axis displacement	Z-axis displacement	Micrometer graduation	Maximum load	Stage size	Weight
6587-60	±6.5mm	10mm	0.01mm	29.4N (3kgf)	60x60mm	0.51kg

XYZ-AXIS STAGE
CODE 6585-60



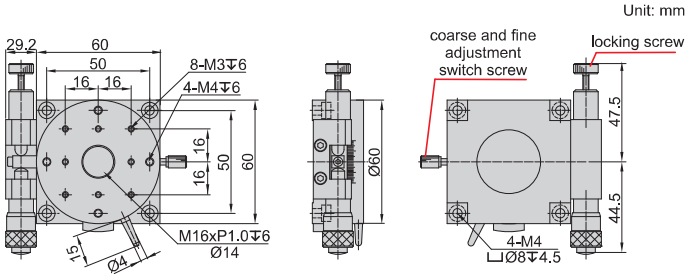
- Cross roller guides, achieve high precision and smooth movement
- Stage made of aluminum alloy

SPECIFICATION

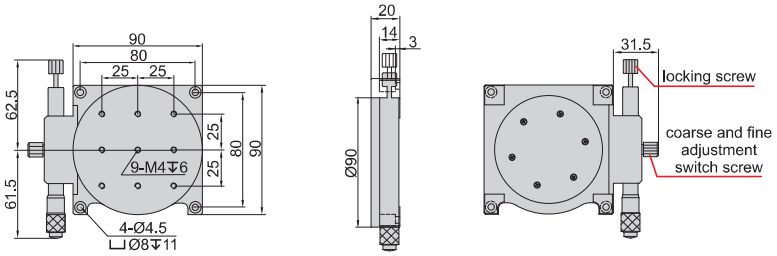
Code	XY-axis displacement	Z-axis displacement	Micrometer graduation	Maximum load	Stage size	Weight
6585-60	±6.5mm	10mm	0.01mm	29.4N (3kgf)	60x60mm	0.75kg

ROTARY STAGES

6583-60H



6583-90



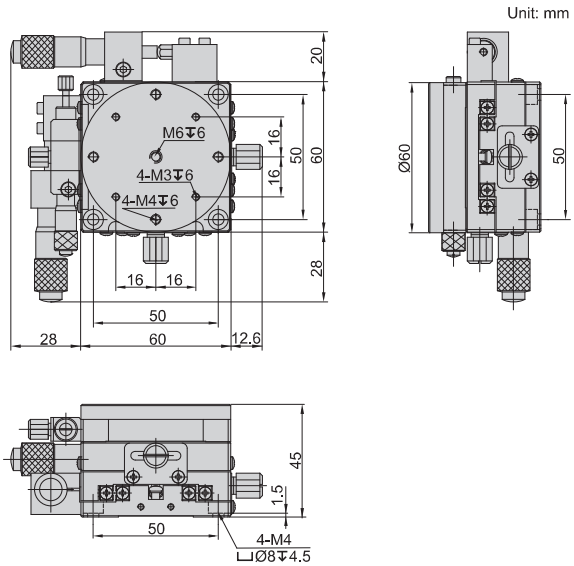
- Precise angle adjustment
- Coarse and fine adjustments
- Stages made of aluminum alloy

12

SPECIFICATION

Code	Range	Parallelism of top to bottom surface	Concentricity	Rotation accuracy	Maximum load	Stage size	Weight
6583-60H	360° coarse, ±5° fine	0.03mm	0.03mm	12′	29.4N (3kgf)	Ø60mm	0.30kg
6583-90	360° coarse, ±5° fine	0.04mm	0.03mm	5′	29.4N (3kgf)	Ø90mm	0.50kg

XY-AXIS ROTARY STAGE CODE 6588-60



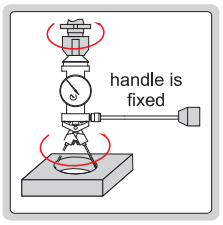
- Cross roller guides, achieve high precision and smooth movement
- Coarse and fine adjustments
- Precise angle adjustment
- Stage made of aluminum alloy

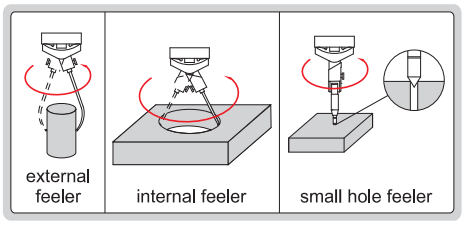
SPECIFICATION

Code	XY-axis displacement	Rotation range	Micrometer graduation	Rotation accuracy	Maximum load	Stage size	Weight
6588-60	±6.5mm	360° coarse, ±5° fine	0.01mm	10′	29.4N (3kgf)	60x60mm	0.64kg

CENTERING INDICATOR

2385-3



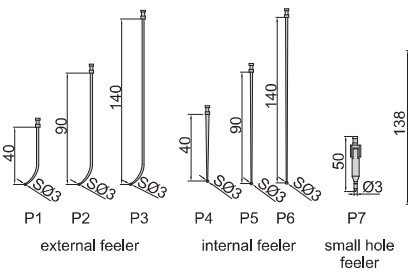


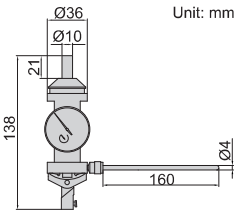
- Provides quick and accurate centering in boring and milling set-up

Code
2385-3

VIDEO

Feeler	Measuring diameter	Accuracy
P1	Ø0-60mm	0.015mm
P2	Ø0-160mm	0.02mm
P3	Ø0-250mm	0.03mm
P4	Ø3.2-80mm	0.015mm
P5	Ø3.2-180mm	0.02mm
P6	Ø3.2-280mm	0.03mm
P7	Ø0-2.8mm	0.015mm



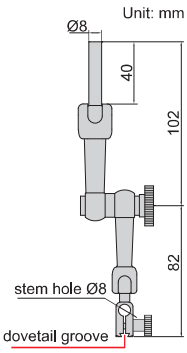


DIAL TEST INDICATOR CENTERING HOLDER

- Center cylinders or holes on machine tools
- Can be used with dial test indicators

Code
6295-1A

6295-1A

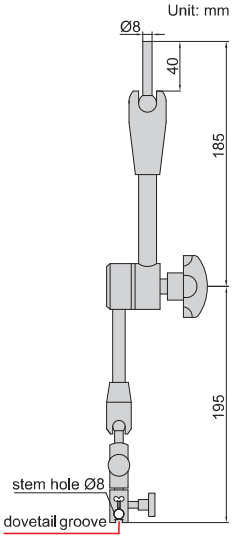


INDICATOR CENTERING HOLDER

- Center cylinders or holes on machine tools
- Can be used with dial test indicators or dial indicators

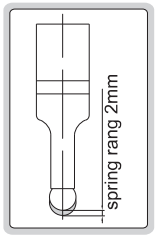
Code
6294-1A

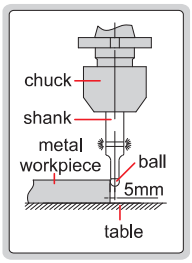
6294-1A

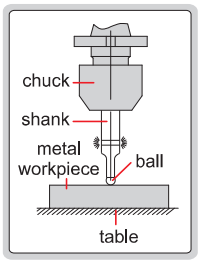


3D ELECTRONIC EDGE FINDERS

INSIZE PLUS
MADE IN EUROPE

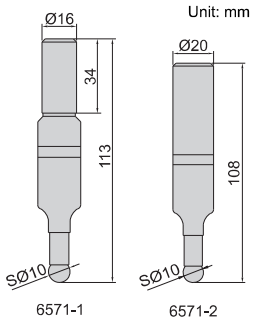






6571-1

6571-2



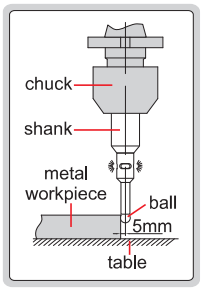
Code	Shank	Contact ball	Accuracy	Battery
6571-1	Ø16mm	SØ10mm	10μm	23A, 12Vx1 pc
6571-2	Ø20mm	SØ10mm	10μm	23A, 12Vx1 pc

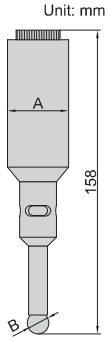
- The shank is electrically conducted to the metal workpiece through the chuck and table. The LED lights up, when the ball touches the workpiece
- Not suitable for rotary use
- Hardened contact ball

LARGE SHANK ELECTRONIC EDGE FINDERS

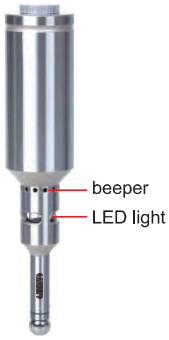
12

- The shank is electrically conducted to the metal workpiece through the chuck and table. The LED lights up and the beeper sounds (only for **6572-2**), when the ball touches the workpiece
- Not suitable for rotary use
- Hardened shank and contact ball





6572-1

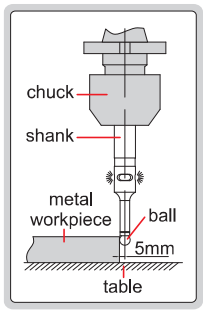


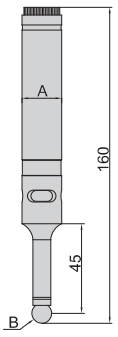
6572-2

Code	Shank (A)	Contact ball (B)	Accuracy	Beeper	Battery
6572-1	Ø32mm	SØ10mm	5μm	without	23A, 12V×1 pc
6572-2	Ø32mm	SØ10mm	5μm	with	23A, 12V×1 pc

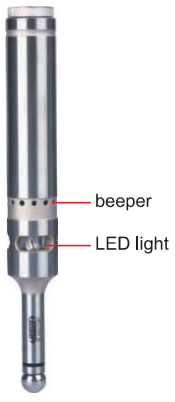
ELECTRONIC EDGE FINDERS

- 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





6566-2

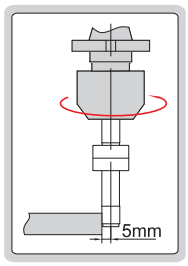


6566-3

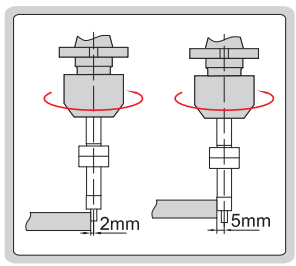
Code	Shank (A)	Contact ball (B)	Accuracy	Beeper	Battery
6566-2	Ø20mm	SØ10mm	5μm	without	23A, 12Vx1 pc
6566-3	Ø20mm	SØ10mm	5μm	with	23A, 12Vx1 pc

NON-MAGNETIC EDGE FINDERS

- TiAlN coating, non-magnetic, hardness HV2500, extremely wear resistance
- Suitable for machine speed 400~600rpm



6573-1

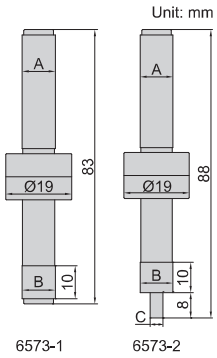


6573-2

Code	Shank (A)	Contact point (B)	Contact point (C)	Accuracy
6573-1	Ø10mm	Ø10mm	—	5μm
6573-2	Ø10mm	Ø10mm	Ø4mm	5μm

6573-1 6573-2

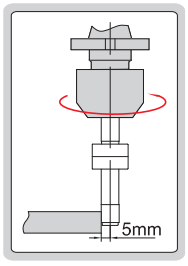
Unit: mm



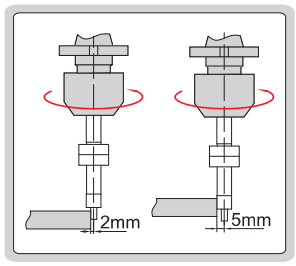
6573-1 6573-2

EDGE FINDERS

- Hardened shank and contact point
- Suitable for machine speed 400~600rpm



6562-3

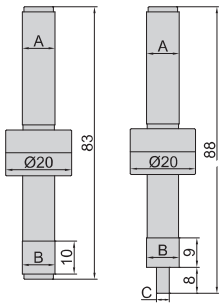


6562-4

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

6562-3 6562-4

Unit: mm



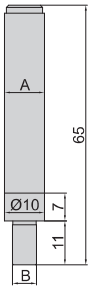
6562-3 6562-4

EDGE FINDER

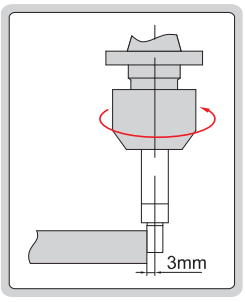
- Hardened shank and contact point
- Suitable for machine speed 400~600rpm

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

Unit: mm



6567-1

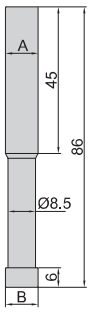


CERAMIC EDGE FINDER

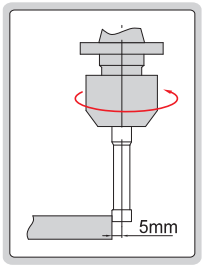
- Ceramic contact point, non magnetic
- Suitable for machine speed 400~600rpm

Code	Shank (A)	Contact point (B)	Accuracy
6568-1	Ø10mm	Ø10mm	8μm

Unit: mm



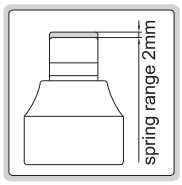
6568-1



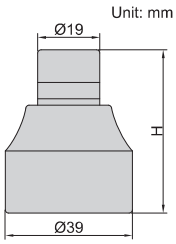
ELECTRONIC ZERO SETTER

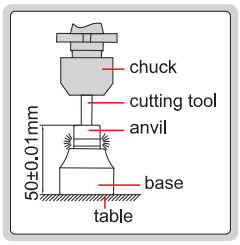
INSIZE PLUS
MADE IN EUROPE

LOW TEST FORCE



6553-50



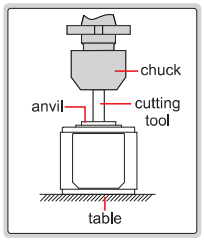


- The base is electrically conducted to the cutting tools through the table and chuck. The LED lights up when the cutting tool touches the anvil
- Magnetic base
- Two batteries LR44

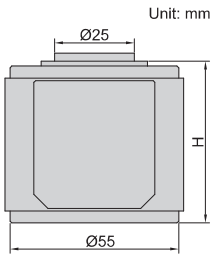
Code	Height (H)	Accuracy	Test force
6553-50	50mm	±10μm	7N (at 49mm)

DIGITAL ZERO SETTER

IP65 WATERPROOF



6557-50



- Resolution: 0.001mm/0.00005"
- IP65 dust/waterproof
- Buttons: on/off, mm/inch, zero
- CR2032 battery
- Automatic power off
- Magnetic base
- Automatic backlight at zero

automatic backlight at zero

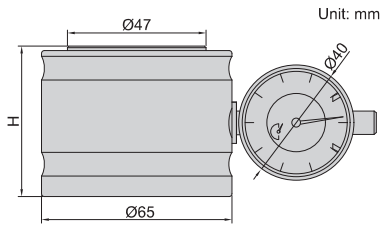
set zero

Code	Height (H)	Anvil stroke	Accuracy*	Test force	Repeatability
6557-50	50mm	2.5mm	±10μm/0.0004"	4N (at 50mm)	2μm

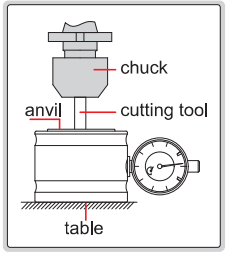
*The accuracy is ensured within Ø10mm of the center

ZERO SETTER

INSIZE PLUS
MADE IN EUROPE

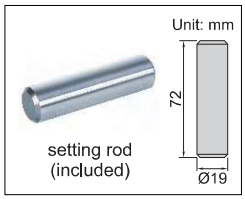


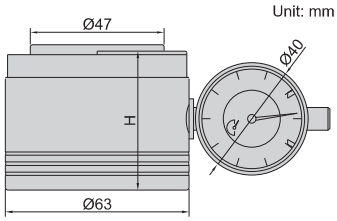
6554-50



Code	Height (H)	Accuracy	Test force
6554-50	50mm	±10μm	9N (at 50mm)

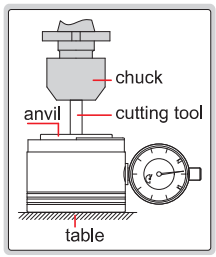
ZERO SETTER





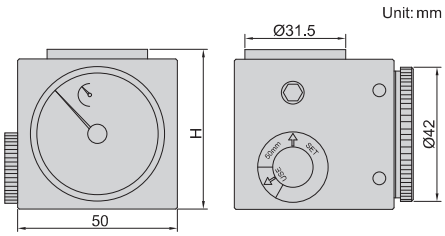
Code	Height (H)	Accuracy	Test force
6556-50	50mm	±10μm	10N (at 50mm)

6556-50



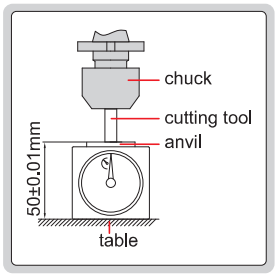
ZERO SETTER

- Magnetic base



Code	Height (H)	Accuracy	Test force
2397-502A	50mm	±10μm	9N (at 50mm)

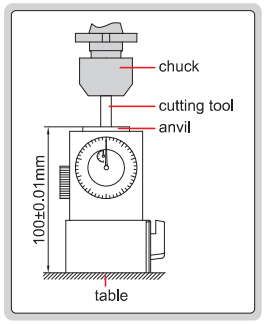
2397-502A



12

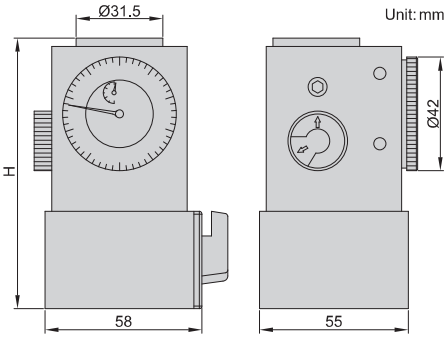
ZERO SETTER

- Magnetic base with on-off switch



Code	Height (H)	Accuracy	Test force
2394-100A	100mm	±10μm	9N (at 100mm)

2394-100A

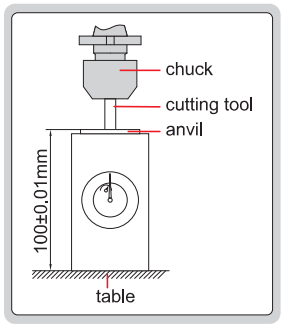


LOW TEST FORCE

LOW TEST FORCE ZERO SETTER

INSIZE PLUS
MADE IN EUROPE

- Magnetic base
- Low test force, suitable for micro tools with minimum diameter Ø0.1mm



Code	Height (H)	Accuracy	Test force
6555-100B	100mm	±10μm	1N (at 100mm)

6555-100B