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TOKYO, JAPAN

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02-214-0101

Lever Type Dial Indicators NEW PIC TEST

Without change lever PCN series

The New Pic Test is a lever type dial indicators used in all over the world.

It is a measuring instrument used for measurements of restricted areas, and the outside / inside, groove width and centering with the dial gauge installed to the lathe or the milling cutting machine for measurements with the gauges held on the height gauges.

- **Without change lever (Automatic inverse type)**

The lever type dial gauge of this type has no change lever, the contact point inverses automatically in normal or reverse direction as desired and pointer turns always CW to improve the measuring efficiency.

- **Miniature Bearing Used**

The miniature bearing used as a bearing at the pivot of the contact point to show good indication stability without any effect by rod play.

- **O-ring used**

Oil resistance is enhanced by seating the O-ring in the turning section of the outer frame.



PCN-0

Graduation : 0.01 mm
Range : 0.5 mm

- Small dial face (ø29)



PCN-1A

Graduation : 0.01 mm
Range : 0.5 mm



PCN-1B

Graduation : 0.01 mm
Range : 0.8 mm



PCN-1L

Graduation : 0.01 mm
Range : 1.0 mm

- Long contact point (L=42.8mm)



PCN-2

Graduation : 0.002 mm
Range : 0.28 mm



PCN-2B

Graduation : 0.002 mm
Range : 0.2 mm



PCN-S

Graduation : 0.001 mm
Range : 0.14 mm

- High accuracy



PCN-7A

Graduation : 0.01 mm
Range : 1.5 mm

- wide measuring range
- Short pointer is available



PCN-7C

Graduation : 0.002 mm
Range : 0.6 mm

- wide measuring range
- Short pointer is available

Vertical



PCN-5

Graduation : 0.01 mm
Range : 0.5 mm

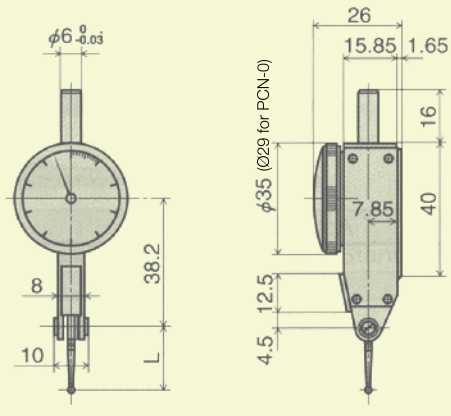
Vertical



PCN-6

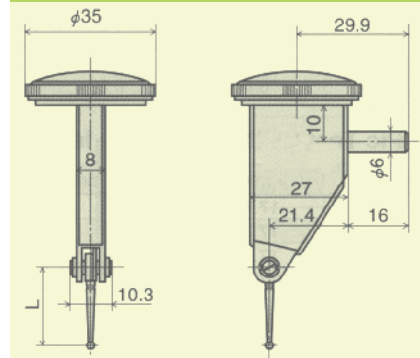
Graduation : 0.002 mm
Range : 0.28 mm

Dimensions of Lever Test Indicators



Model	L (mm)
PCN-0 · PCN-1AE · PCN-7A	21.3
PCN-1B · PCN-1BE	22.2
PCN-1L · PCN-1LE	42.8
PCN-2 · PCN-2E	17.8
PCN-2B	16.6
PCN-S	11.7
PCN-7C	16.6

Dimensions of Lever Test Indicators (Vertical Type)



Model	L (mm)
PCN-5 · PCN-5U	21.3
PCN-6 · PCN-6O	17.8

(unit : μm)

Specifications

Model	Graduation (mm)	Range (mm)	Reading	Accuracy (μm)		Contact Point Length (mm)	Measuring force less than (N)
				Wide-range forward accuracy	Backward error		
PCN-0	0.01	0.5	0 - 25 - 0	5	3	21.3	0.3
PCN-1A	0.01	0.5	0 - 25 - 0	5	3	21.3	0.3
PCN-1B	0.01	0.8	0 - 40 - 0	8	3	22.2	0.3
PCN-1L	0.01	1.0	0 - 50 - 0	10	3	42.8	0.3
PCN-2	0.002	0.28	0 - 140 - 0	3	2	17.8	0.3
PCN-2B	0.002	0.2	0 - 100 - 0	3	2	16.6	0.3
PCN-S	0.001	0.14	0 - 70 - 0	3	2	11.7	0.3
PCN-7A	0.01	1.5	0 - 25 - 0	8	3	21.3	0.3
PCN-7C	0.002	0.6	0 - 100 - 0	6	3	16.6	0.3
PCN-5	0.01	0.5	0 - 25 - 0	5	3	21.3	0.3
PCN-6	0.002	0.28	0 - 140 - 0	3	2	17.8	0.3

Special Type Test Indicators

Double Dial Type W series

- The conventional lever type dial gauge used to have some unreadable points when aligning with it, which has made it impossible to do the accurate aligning till now. The double dial type Pic Test has two dials at both sides, making it possible to cover said unreadable points by conventional Pic Tests.

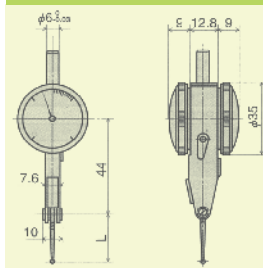


PC-1BW

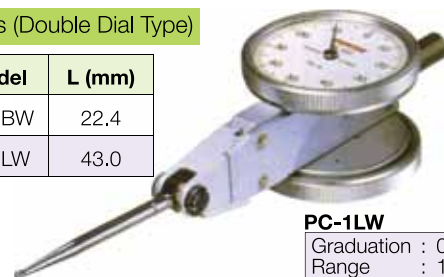
Graduation : 0.01 mm
Range : 0.8 mm

- Change lever type

Dimensions of Lever Test Indicators (Double Dial Type)



Model	L (mm)
PC-1BW	22.4
PC-1LW	43.0



PC-1LW

Graduation : 0.01 mm
Range : 1.0 mm

- Change lever type

Specifications

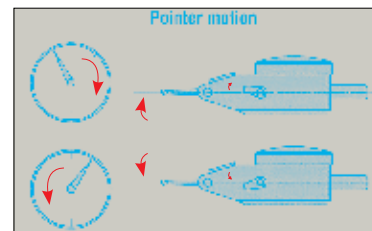
(unit : μm)

Model	Graduation (mm)	Range (mm)	Reading	Accuracy (μm)		Contact Point Length (mm)	Measuring force less than (N)
				Wide-range forward accuracy	Backward error		
PC-1BW	0.01	0.8	0 - 40 - 0	8	3	22.4	0.4
PC-1LW	0.01	1.0	0 - 50 - 0	10	3	43.0	0.4

Lever Type Dial Indicators PIC TEST

Change lever type PC series

- Miniature Bearing Used
The miniature bearing used as a bearing at the pivot of the contact point to show good indication stability without any effect by rod play.
- O-ring used
Oil resistance is enhanced by seating the O-ring in the turning section of the outer frame.



PC-1A
Graduation : 0.01 mm
Range : 0.5 mm



PC-1B
Graduation : 0.01 mm
Range : 0.8 mm



PC-1L
Graduation : 0.01 mm
Range : 1.0 mm
• Long contact point
(L=43.0 mm)



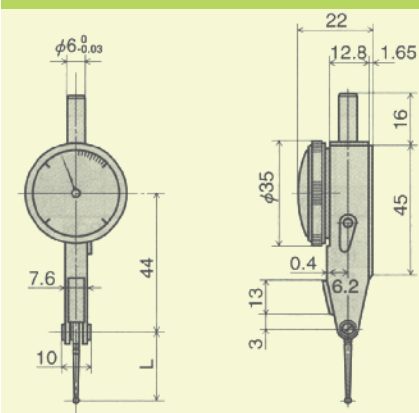
PC-2
Graduation : 0.002 mm
Range : 0.28 mm
• Measuring force 0.1N

PARALLEL



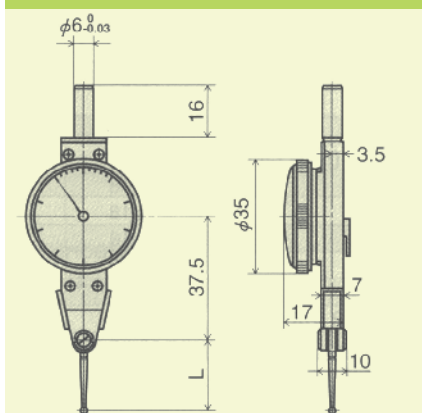
PC-3
Graduation : 0.01 mm
Range : 0.5 mm

Dimensions of Lever Test Indicators



Model	L (mm)
PC-1A	21.4
PC-1B	22.4
PC-1L	43.0
PC-2	12.0

Dimensions of Lever Test Indicators



Model	L (mm)
PC-3	21.4

Specifications

(unit : μm)

Model	Graduation (mm)	Range (mm)	Reading	Accuracy (μm)		Contact Point Length (mm)	Measuring force less than (N)
				Wide-range forward accuracy	Backward error		
PC-1A	0.01	0.5	0 - 25 - 0	5	3	21.4	0.4
PC-1B	0.01	0.8	0 - 40 - 0	8	3	22.4	0.4
PC-1L	0.01	1.0	0 - 50 - 0	10	3	43.0	0.4
PC-2	0.002	0.28	0 - 140 - 0	3	2	12	0.4
PC-3	0.01	0.5	0 - 25 - 0	5	3	21.4	0.4

Lever Type Dial Indicators NEW PIC TEST

Without change lever PCN series

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It is a measuring instrument used for measurements of restricted areas, and the outside / inside, groove width and centering with the dial gauge installed to the lathe or the milling cutting machine for measurements with the gauges held on the height gauges.

- **Without change lever (Automatic inverse type)**

The lever type dial gauge of this type has no change lever, the contact point inverses automatically in normal or reverse direction as desired and pointer turns always CW to improve the measuring efficiency.

- **Miniature Bearing Used**

The miniature bearing used as a bearing at the pivot of the contact point to show good indication stability without any effect by rod play.

- **O-ring used**

Oil resistance is enhanced by seating the O-ring in the turning section of the outer frame.



PCN-0

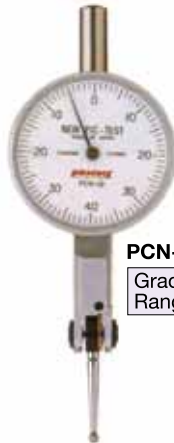
Graduation : 0.01 mm
Range : 0.5 mm

- Small dial face (ø29)



PCN-1A

Graduation : 0.01 mm
Range : 0.5 mm



PCN-1B

Graduation : 0.01 mm
Range : 0.8 mm



PCN-1L

Graduation : 0.01 mm
Range : 1.0 mm

- Long contact point (L=42.8mm)



PCN-2

Graduation : 0.002 mm
Range : 0.28 mm



PCN-2B

Graduation : 0.002 mm
Range : 0.2 mm



PCN-S

Graduation : 0.001 mm
Range : 0.14 mm

- High accuracy



PCN-7A

Graduation : 0.01 mm
Range : 1.5 mm

- wide measuring range
- Short pointer is available



PCN-7C

Graduation : 0.002 mm
Range : 0.6 mm

- wide measuring range
- Short pointer is available

Vertical



PCN-5

Graduation : 0.01 mm
Range : 0.5 mm

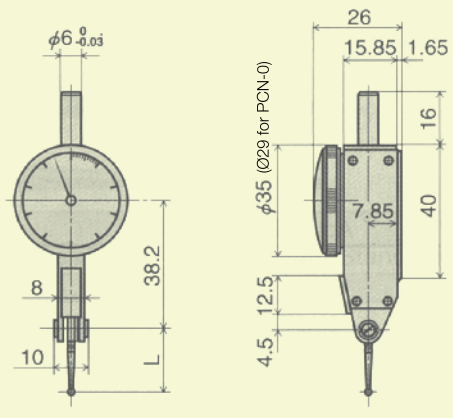
Vertical



PCN-6

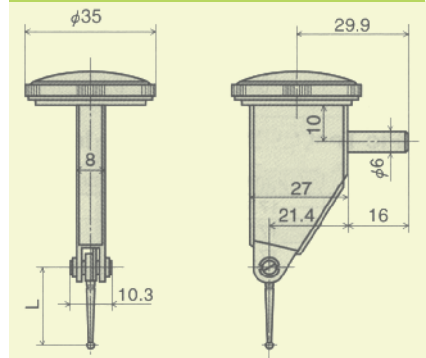
Graduation : 0.002 mm
Range : 0.28 mm

Dimensions of Lever Test Indicators



Model	L (mm)
PCN-0 · PCN-1AE · PCN-7A	21.3
PCN-1B · PCN-1BE	22.2
PCN-1L · PCN-1LE	42.8
PCN-2 · PCN-2E	17.8
PCN-2B	16.6
PCN-S	11.7
PCN-7C	16.6

Dimensions of Lever Test Indicators (Vertical Type)



Model	L (mm)
PCN-5 · PCN-5U	21.3
PCN-6 · PCN-6O	17.8

(unit : μm)

Specifications

Model	Graduation (mm)	Range (mm)	Reading	Accuracy (μm)		Contact Point Length (mm)	Measuring force less than (N)
				Wide-range forward accuracy	Backward error		
PCN-0	0.01	0.5	0 - 25 - 0	5	3	21.3	0.3
PCN-1A	0.01	0.5	0 - 25 - 0	5	3	21.3	0.3
PCN-1B	0.01	0.8	0 - 40 - 0	8	3	22.2	0.3
PCN-1L	0.01	1.0	0 - 50 - 0	10	3	42.8	0.3
PCN-2	0.002	0.28	0 - 140 - 0	3	2	17.8	0.3
PCN-2B	0.002	0.2	0 - 100 - 0	3	2	16.6	0.3
PCN-S	0.001	0.14	0 - 70 - 0	3	2	11.7	0.3
PCN-7A	0.01	1.5	0 - 25 - 0	8	3	21.3	0.3
PCN-7C	0.002	0.6	0 - 100 - 0	6	3	16.6	0.3
PCN-5	0.01	0.5	0 - 25 - 0	5	3	21.3	0.3
PCN-6	0.002	0.28	0 - 140 - 0	3	2	17.8	0.3

Special Type Test Indicators

Double Dial Type W series

- The conventional lever type dial gauge used to have some unreadable points when aligning with it, which has made it impossible to do the accurate aligning till now. The double dial type Pic Test has two dials at both sides, making it possible to cover said unreadable points by conventional Pic Tests.

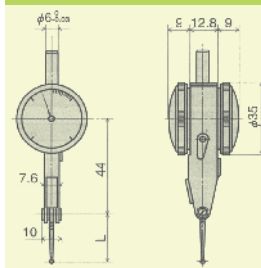


PC-1BW

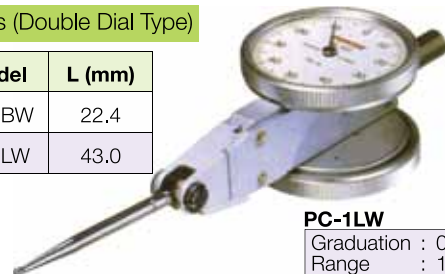
Graduation : 0.01 mm
Range : 0.8 mm

- Change lever type

Dimensions of Lever Test Indicators (Double Dial Type)



Model	L (mm)
PC-1BW	22.4
PC-1LW	43.0



PC-1LW

Graduation : 0.01 mm
Range : 1.0 mm

- Change lever type

Specifications

(unit : μm)

Model	Graduation (mm)	Range (mm)	Reading	Accuracy (μm)		Contact Point Length (mm)	Measuring force less than (N)
				Wide-range forward accuracy	Backward error		
PC-1BW	0.01	0.8	0 - 40 - 0	8	3	22.4	0.4
PC-1LW	0.01	1.0	0 - 50 - 0	10	3	43.0	0.4

Special Type Test Indicators

Super low measuring force E series

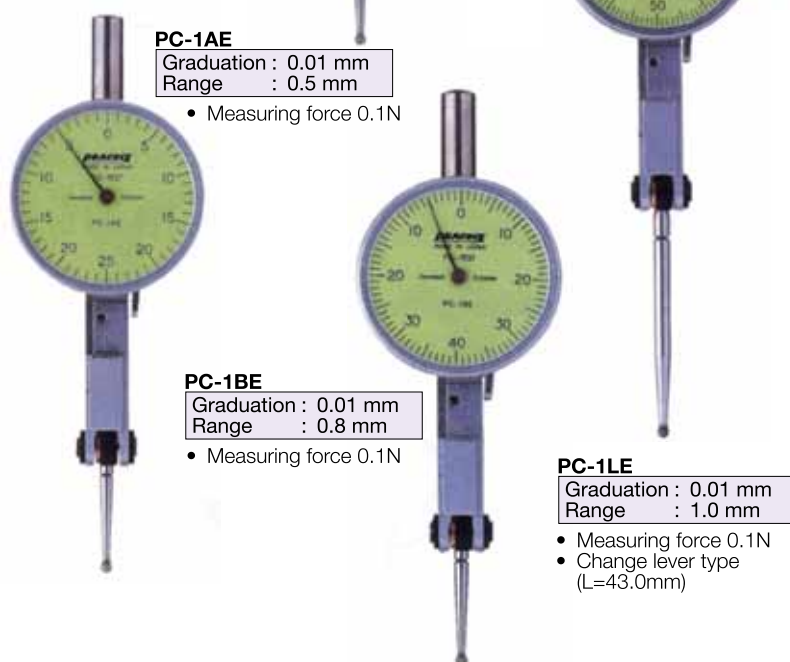
Lever dial gauge that is suitable for flaw-free measure of an object under measurement and for measurement of plastic products with a low measuring force.

A measuring force is 0.05N, 0.1N or less that is lower than a 0.4N measuring force in the conventional dial gauges. Specifications and outer dimensions are the same as those of standard PC and PCN types, except a measuring force.

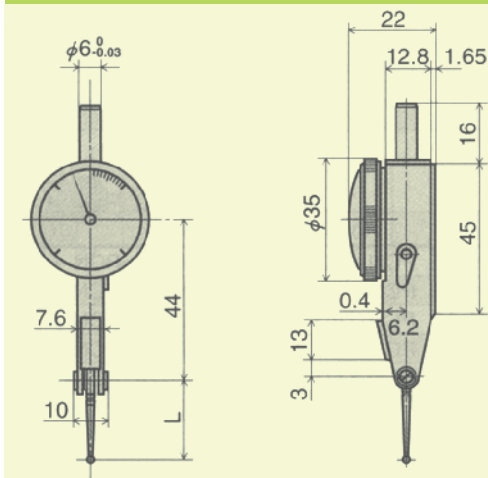
Without change lever type (CW rotation only)



Change lever type



Dimensions of Lever Test Indicators



Model	L (mm)
PC-1AE	21.4
PC-1BE	22.4
PC-1LE	43.0

Specifications

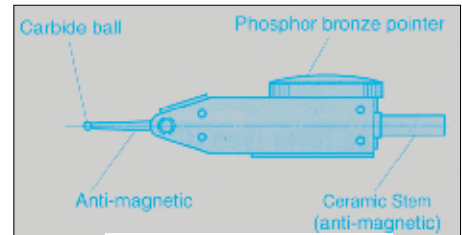
(unit : μm)

Model	Graduation (mm)	Range (mm)	Reading	Accuracy (μm)		Contact Point Length (mm)	Measuring force less than (N)
				Wide-range forward accuracy	Backward error		
PCN-1AE	0.01	0.5	0 - 25 - 0	5	3	21.3	0.05
PCN-1BE	0.01	0.8	0 - 40 - 0	8	3	22.2	0.05
PCN-1LE	0.01	1.0	0 - 50 - 0	10	3	42.8	0.05
PCN-2E	0.002	0.28	0 - 140 - 0	3	2	17.8	0.1
PC-1AE	0.01	0.5	0 - 25 - 0	5	3	21.4	0.1
PC-1BE	0.01	0.8	0 - 40 - 0	8	3	22.4	0.1
PC-1LE	0.01	1.0	0 - 50 - 0	10	3	43	0.1

Special Type Test Indicators

Non-electrifying & Complete Anti-magnetic U series

When non-electrifying type of Pic Test or New Pic Test is used, electric flow is blocked at the ceramic stem, even of a magnetic stand is electrified. Thus, you can continue your work without any problem.
The dial face is light blue color and easy to read. Specifications and outer dimensions are the same as those of standard PC and PCN types, except the portion of stems.



Without change lever type (CW rotation only)



PCN-1AU
Graduation : 0.01 mm
Range : 0.5 mm



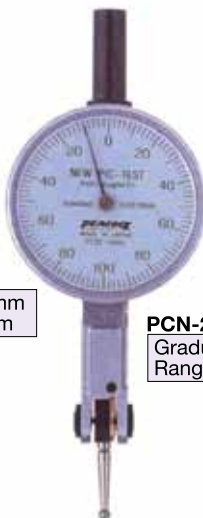
PCN-1BU
Graduation : 0.01 mm
Range : 0.8 mm



PCN-1LU
Graduation : 0.01 mm
Range : 1.0 mm
• Long contact point
(L=42.8mm)



PCN-2U
Graduation : 0.002 mm
Range : 0.28 mm

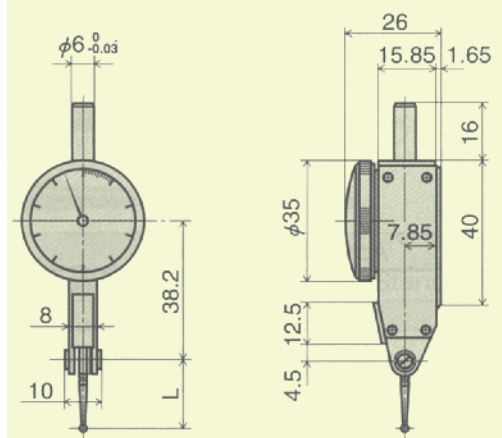


PCN-2BU
Graduation : 0.002 mm
Range : 0.2 mm



PCN-5U
Graduation : 0.01 mm
Range : 0.5 mm

Dimensions of Lever Test Indicators



Model	L (mm)
PCN-1AU	21.3
PCN-1BU	22.2
PCN-1LU	42.8
PCN-2U	17.8
PCN-2BU	16.6
PCN-5U	21.3

Specifications

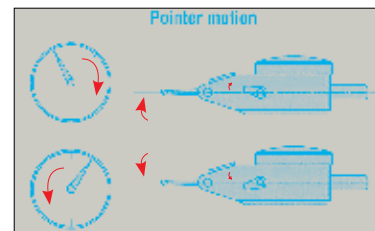
(unit : μm)

Model	Graduation (mm)	Range (mm)	Reading	Accuracy (μm)		Contact Point Length (mm)	Measuring force less than (N)
				Wide-range forward accuracy	Backward error		
PCN-1AU	0.01	0.5	0 - 25 - 0	5	3	21.3	0.3
PCN-1BU	0.01	0.8	0 - 40 - 0	8	3	22.2	0.3
PCN-1LU	0.01	1.0	0 - 50 - 0	10	3	42.8	0.3
PCN-2U	0.002	0.28	0 - 140 - 0	3	2	17.8	0.3
PCN-2BU	0.002	0.2	0 - 100 - 0	3	2	16.6	0.3
PCN-5U	0.01	0.5	0 - 25 - 0	5	3	21.3	0.3

Lever Type Dial Indicators PIC TEST

Change lever type PC series

- Miniature Bearing Used
The miniature bearing used as a bearing at the pivot of the contact point to show good indication stability without any effect by rod play.
- O-ring used
Oil resistance is enhanced by seating the O-ring in the turning section of the outer frame.



PC-1A
Graduation : 0.01 mm
Range : 0.5 mm



PC-1B
Graduation : 0.01 mm
Range : 0.8 mm



PC-1L
Graduation : 0.01 mm
Range : 1.0 mm
• Long contact point (L=43.0 mm)



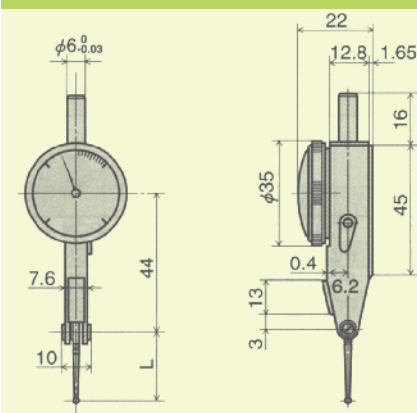
PC-2
Graduation : 0.002 mm
Range : 0.28 mm
• Measuring force 0.1N

PARALLEL



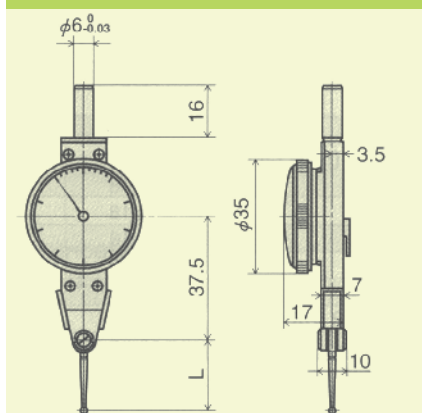
PC-3
Graduation : 0.01 mm
Range : 0.5 mm

Dimensions of Lever Test Indicators



Model	L (mm)
PC-1A	21.4
PC-1B	22.4
PC-1L	43.0
PC-2	12.0

Dimensions of Lever Test Indicators



Model	L (mm)
PC-3	21.4

Specifications

(unit : μm)

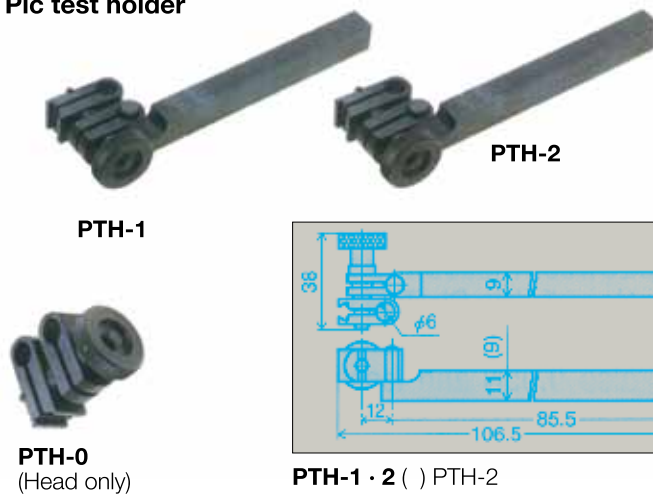
Model	Graduation (mm)	Range (mm)	Reading	Accuracy (μm)		Contact Point Length (mm)	Measuring force less than (N)
				Wide-range forward accuracy	Backward error		
PC-1A	0.01	0.5	0 - 25 - 0	5	3	21.4	0.4
PC-1B	0.01	0.8	0 - 40 - 0	8	3	22.4	0.4
PC-1L	0.01	1.0	0 - 50 - 0	10	3	43.0	0.4
PC-2	0.002	0.28	0 - 140 - 0	3	2	12	0.4
PC-3	0.01	0.5	0 - 25 - 0	5	3	21.4	0.4

Accessories (Option)

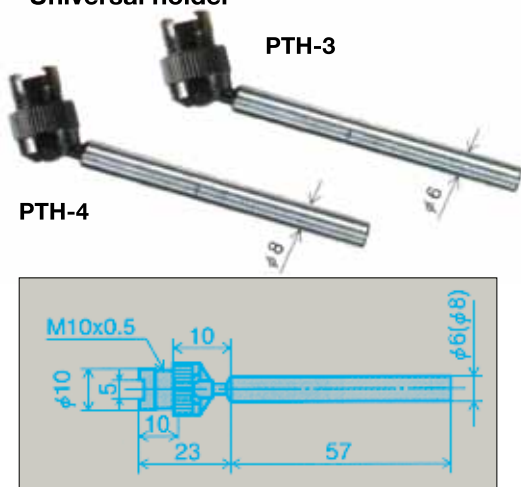
• Replaceable contact point (carbide ball)



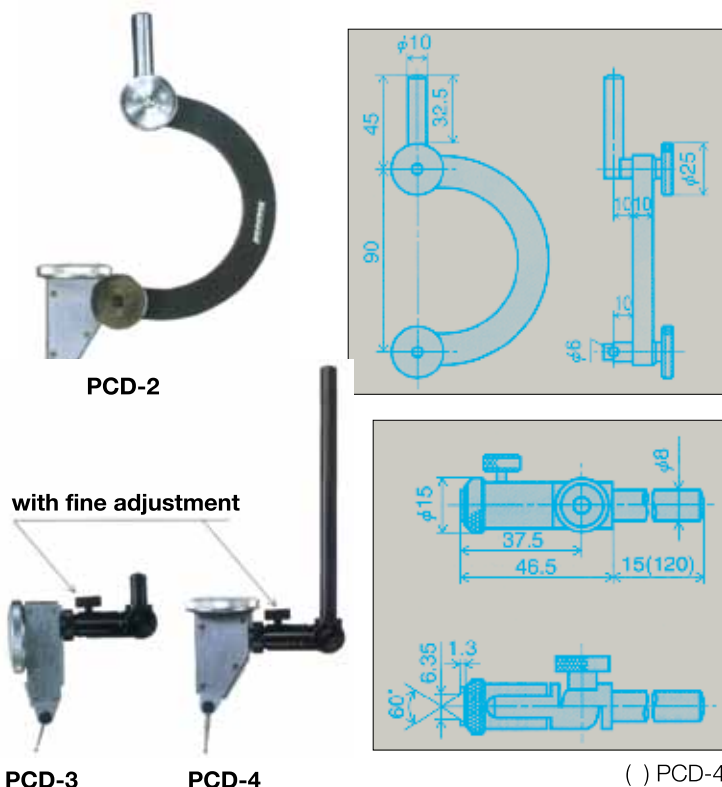
• Pic test holder



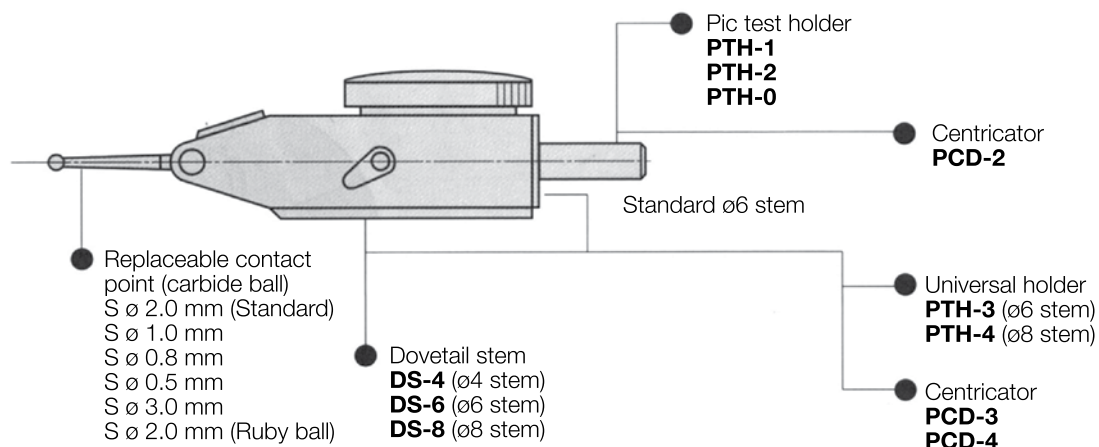
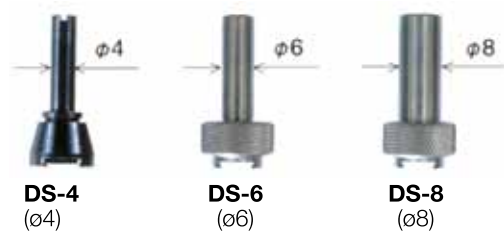
• Universal holder



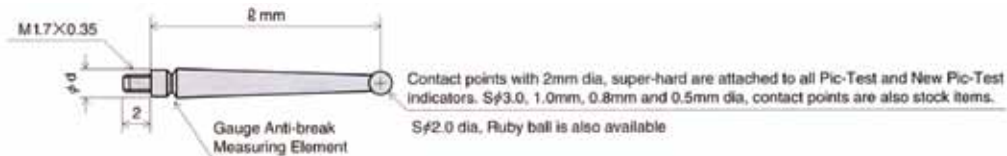
• Centricator (Pic Test Indicators supplied on request)



• Dovetail stem



Dimensions of Lever Type Dial Indicators



I For Pic Test (Change lever type)

Part No.	ℓ (mm)	ø ball (mm)	ø d (mm)	Applicable Indicator
XP1A-3	18.2	3	2.5	PC-1A PC-1AE PC-3
XP1A-2	18.2	2	2.5	PC-1A PC-1AE PC-3
XP1A-2R (ruby ball)	18.2	2	2.5	PC-1A PC-1AE PC-3
XP1A-1	18.2	1	2.5	PC-1A PC-1AE PC-3
XP1A-08	18.2	0.8	2.5	PC-1A PC-1AE PC-3
XP1A-05	18.2	0.5	2.5	PC-1A PC-1AE PC-3
XP1B-3	19.24	3	2.5	PC-1B PC-1BE PC-1BW
XP1B-2	19.24	2	2.5	PC-1B PC-1BE PC-1BW
XP1B-2R (ruby ball)	19.24	2	2.5	PC-1B PC-1BE PC-1BW
XP1B-1	19.24	1	2.5	PC-1B PC-1BE PC-1BW
XP1B-08	19.24	0.8	2.5	PC-1B PC-1BE PC-1BW
XP1B-05	19.24	0.5	2.5	PC-1B PC-1BE PC-1BW
XP1L-3	39.72	3	3.0	PC-1L PC-1LE
XP1L-2	39.72	2	3.0	PC-1L PC-1LE
XP1L-2R (ruby ball)	39.72	2	3.0	PC-1L PC-1LE
XP1L-1	39.72	1	3.0	PC-1L PC-1LE
XP1L-08	39.72	0.8	3.0	PC-1L PC-1LE
XP1L-05	39.72	0.5	3.0	PC-1L PC-1LE
XP2-3	8.80	3	2.2	PC-2 PC-4
XP2-2	8.80	2	2.2	PC-2 PC-4
XP2-2R (ruby ball)	8.80	2	2.2	PC-2 PC-4
XP2-1	8.80	1	2.2	PC-2 PC-4
XP2-08	8.80	0.8	2.2	PC-2 PC-4
XP2-05	8.80	0.5	2.2	PC-2 PC-4

I For New Pic Test (without Change lever type)

Part No.	ℓ (mm)	ø ball (mm)	ø d (mm)	Applicable Indicator
XN1A-3	17.74	3	2.5	PCN-1A PCN-0 PCN-AE PCN-1AD PCN-5 PCN-7A PCN-1AU PCN-5U
XN1A-2	17.74	2	2.5	PCN-1A PCN-0 PCN-AE PCN-1AD PCN-5 PCN-7A PCN-1AU PCN-5U
XN1A-2R (ruby ball)	17.74	2	2.5	PCN-1A PCN-0 PCN-AE PCN-1AD PCN-5 PCN-7A PCN-1AU PCN-5U
XN1A-1	17.74	1	2.5	PCN-1A PCN-0 PCN-AE PCN-1AD PCN-5 PCN-7A PCN-1AU PCN-5U
XN1A-08	17.74	0.8	2.5	PCN-1A PCN-0 PCN-AE PCN-1AD PCN-5 PCN-7A PCN-1AU PCN-5U
XN1A-05	17.74	0.5	2.5	PCN-1A PCN-0 PCN-AE PCN-1AD PCN-5 PCN-7A PCN-1AU PCN-5U
XN1B-3	18.63	3	2.5	PCN-1B PCN-1BE PCN-1BU PCN-1BZ (A) · (B)
XN1B-2	18.63	2	2.5	PCN-1B PCN-1BE PCN-1BU PCN-1BZ (A) · (B)
XN1B-2R (ruby ball)	18.63	2	2.5	PCN-1B PCN-1BE PCN-1BU PCN-1BZ (A) · (B)
XN1B-1	18.63	1	2.5	PCN-1B PCN-1BE PCN-1BU PCN-1BZ (A) · (B)
XN1B-08	18.63	0.8	2.5	PCN-1B PCN-1BE PCN-1BU PCN-1BZ (A) · (B)
XN1B-05	18.63	0.5	2.5	PCN-1B PCN-1BE PCN-1BU PCN-1BZ (A) · (B)
XN1L-3	39.00	3	2.5	PCN-1L PCN-1LE PCN-1LD PCN-1LU PCN-1LZ (A) · (B)
XN1L-2	39.00	2	2.5	PCN-1L PCN-1LE PCN-1LD PCN-1LU PCN-1LZ (A) · (B)
XN1L-2R (ruby ball)	39.00	2	2.5	PCN-1L PCN-1LE PCN-1LD PCN-1LU PCN-1LZ (A) · (B)
XN1L-1	39.00	1	2.5	PCN-1L PCN-1LE PCN-1LD PCN-1LU PCN-1LZ (A) · (B)
XN1L-08	39.00	0.8	2.5	PCN-1L PCN-1LE PCN-1LD PCN-1LU PCN-1LZ (A) · (B)
XN1L-05	39.00	0.5	2.5	PCN-1L PCN-1LE PCN-1LD PCN-1LU PCN-1LZ (A) · (B)
XN2-3	14.18	3	2.2	PCN-2 PCN-2E PCN-6 PCN-2U PCN-6U PCN-2Z (A) · (B)
XN2-2	14.18	2	2.2	PCN-2 PCN-2E PCN-6 PCN-2U PCN-6U PCN-2Z (A) · (B)
XN2-2R (ruby ball)	14.18	2	2.2	PCN-2 PCN-2E PCN-6 PCN-2U PCN-6U PCN-2Z (A) · (B)
XN2-1	14.18	1	2.2	PCN-2 PCN-2E PCN-6 PCN-2U PCN-6U PCN-2Z (A) · (B)
XN2-08	14.18	0.8	2.2	PCN-2 PCN-2E PCN-6 PCN-2U PCN-6U PCN-2Z (A) · (B)
XN2-05	14.18	0.5	2.2	PCN-2 PCN-2E PCN-6 PCN-2U PCN-6U
XN2B-3	13.00	3	2.2	PCN-2B PCN-2BD PCN-7C PCN-SD PCN-2BU
XN2B-2	13.00	2	2.2	PCN-2B PCN-2BD PCN-7C PCN-SD PCN-2BU
XN2B-2R (ruby ball)	13.00	2	2.2	PCN-2B PCN-2BD PCN-7C PCN-SD PCN-2BU
XN2B-1	13.00	1	2.2	PCN-2B PCN-2BD PCN-7C PCN-SD PCN-2BU
XN2B-08	13.00	0.8	2.2	PCN-2B PCN-2BD PCN-7C PCN-SD PCN-2BU
XN2B-05	13.00	0.5	2.2	PCN-2B PCN-2BD PCN-7C PCN-SD PCN-2BU
XNS-3	8.13	3	2.2	PCN-S PCN-SU
XNS-2	8.13	2	2.2	PCN-S PCN-SU
XNS-2R (ruby ball)	8.13	2	2.2	PCN-S PCN-SU
XNS-1	8.13	1	2.2	PCN-S PCN-SU
XNS-08	8.13	0.8	2.2	PCN-S PCN-SU
XNS-05	8.13	0.5	2.2	PCN-S PCN-SU