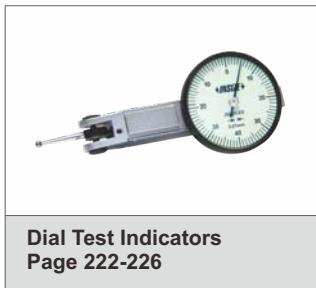


INDICATORS, LINEAR GAGES, DIAL INDICATOR STANDS

11



Dial Test Indicators
Page 222-226



Styli For Dial Test Indicators
Page 226



Digital Indicators
Page 227-239



Zeroing Foot Switches
Page 236



High Precision Digital
Indicators
Page 240



Dial Comparators
Page 240



Dial Indicators
Page 241-250



Points
Page 250-252



Spindle Lift Knobs
Page 253



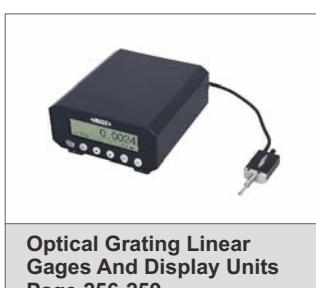
Shaft Sleeves
Page 253



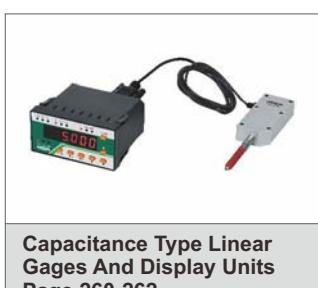
Backs
Page 253-254



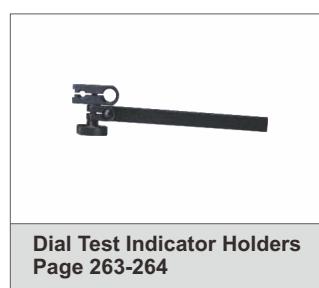
Dial Indicator Testers
Page 255



Optical Grating Linear
Gages And Display Units
Page 256-259



Capacitance Type Linear
Gages And Display Units
Page 260-262



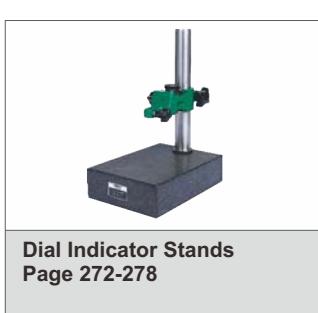
Dial Test Indicator Holders
Page 263-264



Magnetic Stands
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Dial Indicator Stands
(non-magnetic)
Page 270-271



Dial Indicator Stands
Page 272-278

PRECISION DIAL TEST INDICATOR

INSIZE PLUS
MADE IN EUROPE

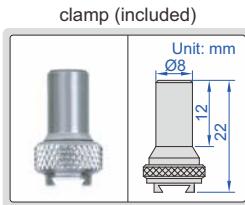
**INSPECTION
CERTIFICATE**

ANTI MAGNETIC
CARBIDE CONTACT POINT

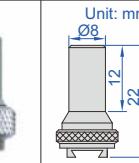
- Meet DIN2270
- Ceramic bearing
- Anti magnetic carbide contact point
- Two measuring directions
- Supplied with one clamp: diameter Ø8mm
- Optional accessory: stylus (page 226)



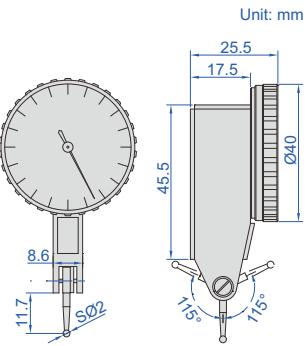
2897-02



clamp (included)



Unit: mm
Ø8
12
22



Unit: mm
25.5
17.5
45.5
8.6
Ø2
11.7
15°
115°

* Supplied with manufacturer inspection certificate

PRECISION DIAL TEST INDICATORS

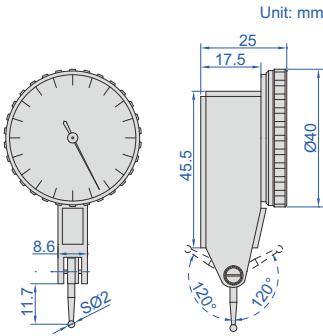
INSIZE PLUS
MADE IN EUROPE

**INSPECTION
CERTIFICATE**

- Meet DIN2270
- Ceramic bearing
- Two measuring directions
- Supplied with one clamp: diameter Ø8mm
- Optional accessory: stylus (page 226)



2880-02



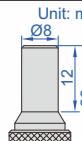
Unit: mm
25
17.5
45.5
8.6
Ø2
11.7
15°
120°
120°



ruby contact
point of 2880-02R



clamp (included)



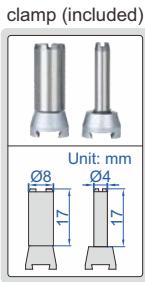
Unit: mm
Ø8
12
22

Code	Range	Graduation	Accuracy	Hysteresis	Dial reading	Remark
2880-02 *	0.2mm	0.002mm	4µm	2µm	0-100-0	anti magnetic carbide contact point
2880-02R *	0.2mm	0.002mm	4µm	2µm	0-100-0	ruby contact point

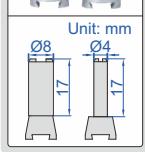
* Supplied with manufacturer inspection certificate

DIAL TEST INDICATORS

- Meet DIN2270 (except 2380-02, 2381-02, 2381-021)
- Jeweled bearing
- Carbide contact point
- Two measuring directions
- Anti magnetic body
- Supplied with two clamps: diameter Ø4mm and Ø8mm
- Optional accessory: stylus (page 226)



clamp (included)



Unit: mm
Ø8
04
17
17

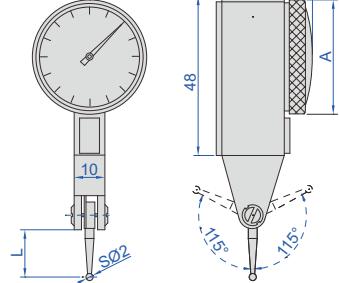


2380-08

JEWELLED
BEARING

**INSPECTION
CERTIFICATE**

POPULAR
MODEL



Unit: mm
26
18.5
48
A
L
10
SØ2
115°
115°

Code	Range	Graduation	Accuracy	Hysteresis	Dial reading	A	L	(mm)
2380-08 *	0.8mm	0.01mm	13µm	3µm	0-40-0	Ø30	13.5	
2381-08 *	0.8mm	0.01mm	13µm	3µm	0-40-0	Ø37	13.5	
2380-02 *	0.2mm	0.002mm	6µm	2µm	0-100-0	Ø30	12.5	
2381-02 *	0.2mm	0.002mm	6µm	2µm	0-100-0	Ø37	12.5	
2381-021 *	0.2mm	0.001mm	6µm	2µm	0-100-0	Ø37	12.5	

* Supplied with manufacturer inspection certificate

JEWELLED BEARING
INSPECTION CERTIFICATE

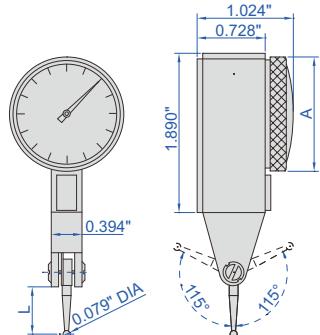
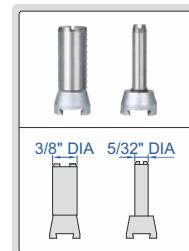
INCH DIAL TEST INDICATORS

- Jeweled bearing
- Carbide contact point
- Two measuring directions
- Anti magnetic body
- Supplied with two clamps:
5/32" DIA and 3/8" DIA


2380-31

Code	Range	Graduation	Accuracy	Dial reading	A	L
2380-31*	0.03"	0.001"	±0.001"	0-15-0	1.181" DIA	0.50"
2380-35*	0.03"	0.0005"	±0.0005"	0-15-0	1.181" DIA	0.50"
2380-301*	0.008"	0.0001"	±0.0001"	0-40-0	1.181" DIA	0.563"
2381-31*	0.03"	0.001"	±0.001"	0-15-0	1.457" DIA	0.50"
2381-35*	0.03"	0.0005"	±0.0005"	0-15-0	1.457" DIA	0.50"
2381-301*	0.008"	0.0001"	±0.0001"	0-40-0	1.457" DIA	0.563"

* Supplied with manufacturer inspection certificate

clamp (included)

ANTI MAGNETIC CARBIDE CONTACT POINT
INSPECTION CERTIFICATE

DIAL TEST INDICATOR

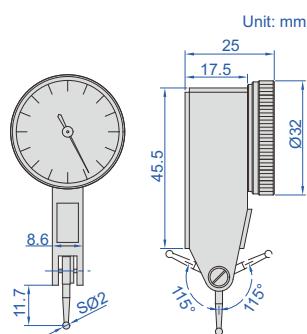
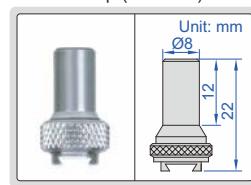
INSIZE PLUS
MADE IN EUROPE

2895-08

- Meet DIN2270
- Ceramic bearing
- Anti magnetic carbide contact point
- Two measuring directions
- Supplied with one clamp: diameter Ø8mm
- Optional accessory: stylus (page 226)

Code	Range	Graduation	Accuracy	Hysteresis	Dial reading
2895-08*	0.8mm	0.01mm	13µm	3µm	0-40-0

* Supplied with manufacturer inspection certificate

clamp (included)

ANTI MAGNETIC CARBIDE CONTACT POINT
INSPECTION CERTIFICATE

LONG STYLUS DIAL TEST INDICATOR

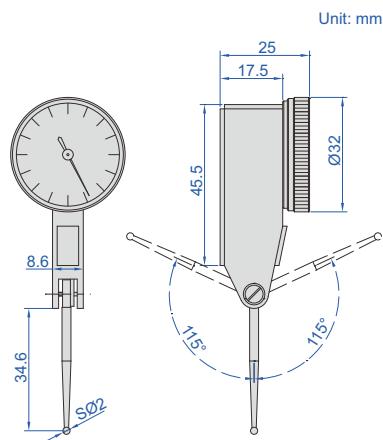
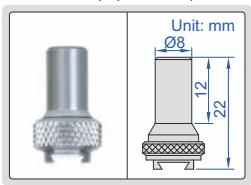
INSIZE PLUS
MADE IN EUROPE

2896-05

- Meet DIN2270
- Ceramic bearing
- Anti magnetic carbide contact point
- Two measuring directions
- Supplied with one clamp: diameter Ø8mm
- Optional accessory: stylus (page 226)

Code	Range	Graduation	Accuracy	Hysteresis	Dial reading
2896-05*	0.5mm	0.01mm	13µm	3µm	0-25-0

* Supplied with manufacturer inspection certificate

clamp (included)


LONG STYLUS DIAL TEST INDICATOR

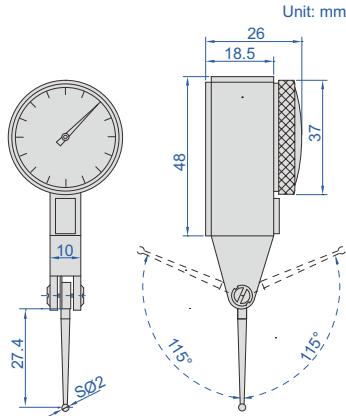
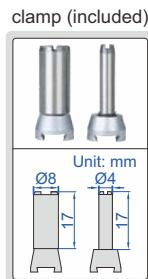
- Meet DIN2270
- Jeweled bearing
- Carbide contact point
- Two measuring directions
- Anti magnetic body
- Supplied with two clamps: diameter Ø4mm and Ø8mm
- Optional accessory: styli (page 226)



2383-08A

JEWELLED BEARING

INSPECTION
CERTIFICATE



Code	Range	Graduation	Accuracy	Hysteresis	Dial reading
2383-08A*	0.8mm	0.01mm	13µm	3µm	0-40-0

* Supplied with manufacturer inspection certificate

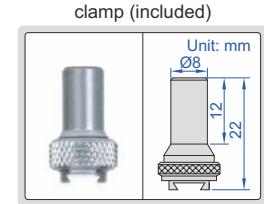
VERTICAL TYPE LONG STYLUS DIAL TEST INDICATOR

INSIZE PLUS
MADE IN EUROPE

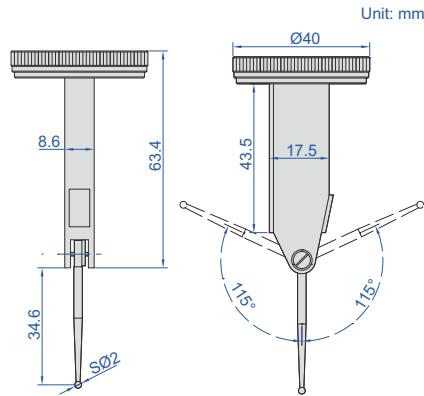
ANTI MAGNETIC
CARBIDE CONTACT POINT

INSPECTION
CERTIFICATE

- Meet DIN2270
- Ceramic bearing
- Anti magnetic carbide contact point
- Two measuring directions
- Supplied with one clamp: diameter Ø8mm
- Optional accessory: styli (page 226)



2899-05



Code	Range	Graduation	Accuracy	Hysteresis	Dial reading
2899-05*	0.5mm	0.01mm	13µm	3µm	0-25-0

* Supplied with manufacturer inspection certificate

VERTICAL TYPE DIAL TEST INDICATOR

- Meet DIN2270
- Jeweled bearing
- Carbide contact point
- Two measuring directions
- Anti magnetic body
- Supplied with two clamps: diameter Ø4mm and Ø8mm
- Optional accessory: styli (page 226)



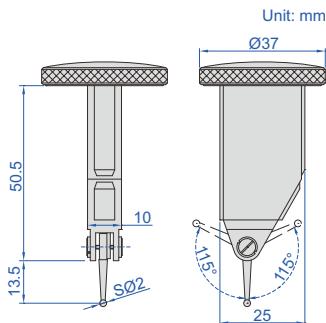
2398-08

JEWELLED BEARING

INSPECTION
CERTIFICATE

Code	Range	Graduation	Accuracy	Hysteresis	Dial reading
2398-08*	0.8mm	0.01mm	13µm	3µm	0-40-0

* Supplied with manufacturer inspection certificate



ANTI MAGNETIC
CARBIDE CONTACT POINT

**INSPECTION
CERTIFICATE**

- Meet DIN2270
- Ceramic bearing
- Anti magnetic carbide contact point
- Two measuring directions
- Supplied with one clamp: diameter Ø8mm
- Optional accessory: stylus (page 226)



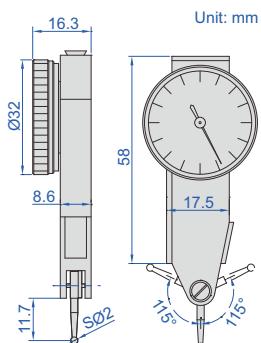
2898-08

Code	Range	Graduation	Accuracy	Hysteresis	Dial reading
2898-08*	0.8mm	0.01mm	13µm	3µm	0-40-0

* Supplied with manufacturer inspection certificate

SIDE TYPE DIAL TEST INDICATOR

INSIZE PLUS
MADE IN EUROPE



- Meet DIN2270
- Jeweled bearing
- Carbide contact point
- Two measuring directions
- Anti magnetic body
- Supplied with two clamps: diameter Ø4mm and Ø8mm
- Optional accessory: stylus (page 226)

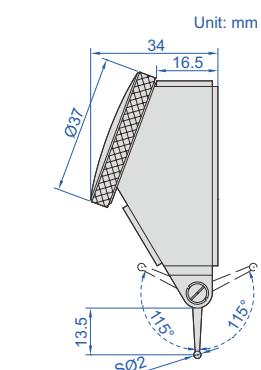


2399-08

Code	Range	Graduation	Accuracy	Hysteresis	Dial reading
2399-08*	0.8mm	0.01mm	13µm	3µm	0-40-0

* Supplied with manufacturer inspection certificate

TILTED FACE TYPE DIAL TEST INDICATOR



- Dial reading: 0-40-0
- Jeweled bearing
- Carbide contact point
- Two measuring directions
- Anti magnetic body
- Supplied with two clamps: diameter Ø4mm and Ø8mm
- Optional accessory: stylus (page 226)

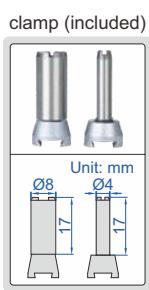
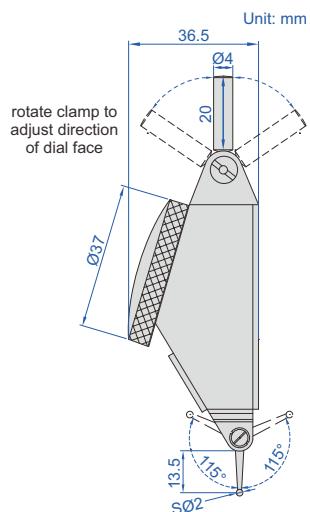


2386-16A

Code	Range	Graduation	Accuracy	Hysteresis
2386-16A*	1.6mm	0.01mm	25µm	8µm

* Supplied with manufacturer inspection certificate

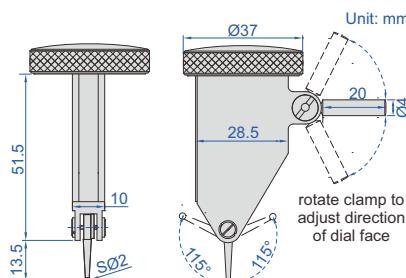
LARGE RANGE DIAL TEST INDICATOR



LARGE RANGE VERTICAL TYPE DIAL TEST INDICATOR

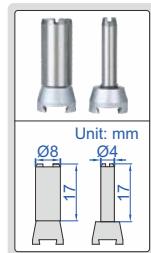
JEWELLED
BEARINGINSPECTION
CERTIFICATE

- Dial Reading: 0-40-0
- Jeweled bearing
- Carbide contact point
- Two measuring directions
- Anti magnetic body
- Supplied with two clamps: diameter Ø4mm and Ø8mm
- Optional accessory: styls (page 226)



2480-16

clamp (included)



* Supplied with manufacturer inspection certificate

CLAMPS FOR DIAL TEST INDICATORS

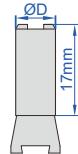
Code	ØD
6298-1	Ø4mm
6298-2	Ø8mm



6298-1



6298-2

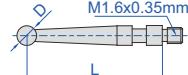


STYLI FOR DIAL TEST INDICATORS

Code	For dial test indicator	Material of contact point	L	D
6284-1	2380-08 2398-08 2381-08 2399-08	steel	13.5mm	SØ1mm
6284-31		ruby	13.5mm	SØ1mm
6284-3		carbide	13.5mm	SØ2mm
6284-4		ruby	13.5mm	SØ2mm
6284-8		carbide	13.5mm	SØ3mm
6284-21	2380-02 2381-02 2381-021	steel	12.5mm	SØ1mm
6284-22		carbide	12.5mm	SØ2mm
6284-24		ruby	12.5mm	SØ2mm
6284-23		carbide	12.5mm	SØ3mm
6284-61	2386-16A 2480-16	steel	13.5mm	SØ1mm
6284-62		carbide	13.5mm	SØ2mm
6284-63		ruby	13.5mm	SØ2mm
6284-64		carbide	13.5mm	SØ3mm
6284-81	2383-08A	steel	27.4mm	SØ1mm
6284-82		carbide	27.4mm	SØ2mm
6284-83		ruby	27.4mm	SØ2mm
6284-84		carbide	27.4mm	SØ3mm



6284-3



**DATA
OUTPUT**

**INSPECTION
CERTIFICATE**

**POPULAR
MODEL**

DIGITAL INDICATORS (STANDARD TYPE)



2112-10



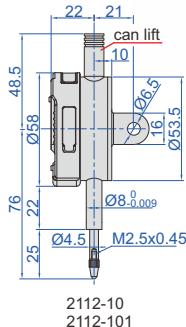
2112-251



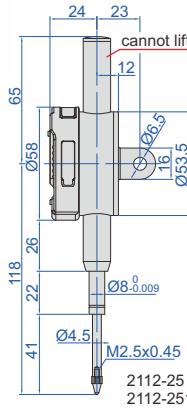
2112-25P



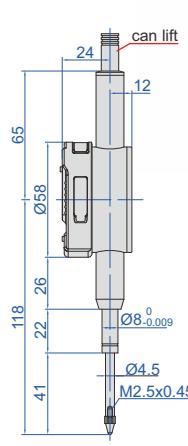
2112-501



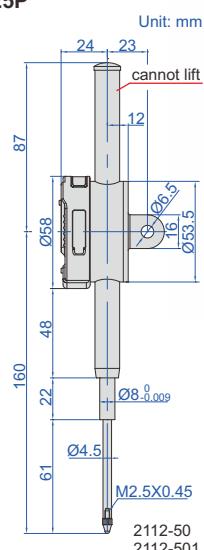
2112-10
2112-101



2112-25
2112-251



2112-25P
2112-251P



2112-50
2112-501

- Button function: on/off, inch/mm, zero, data preset, change measuring direction, absolute/incremental measurement
- Switchable high/low frequency measurement mode, high frequency mode is suitable for high speed moving of spindle and has large power consumption, low power consumption in low frequency mode
- Keep preset data in memory after restart
- CR2032 battery, automatic power off (time is adjustable)
- Data output
- Optional accessory: data output cable (code **7315-50M need receiver** page 5, **7302-40M** page 13, **7305-40M** page 9), backs (page 253~254), contact points (page 250~252)

Resolution 0.001mm/0.00005"

Code	Range	Accuracy	Hysteresis	Maximum measuring force	Remark
2112-101F*	12.7mm/0.5"	5µm	2µm	1.5N	flat back
2112-251F*	25.4mm/1"	5µm	3µm	2.2N	flat back
2112-501F*	50.8mm/2"	6µm	3µm	2.5N	flat back
2112-101*	12.7mm/0.5"	5µm	2µm	1.5N	lug back
2112-251*	25.4mm/1"	5µm	3µm	2.2N	lug back
2112-501*	50.8mm/2"	6µm	3µm	2.5N	lug back
2112-251P*	25.4mm/1"	5µm	3µm	2.2N	flat back, with lift cap
2112-501P*	50.8mm/2"	6µm	3µm	2.5N	flat back, with lift cap

2112-251P/501P/25P/50P



Resolution 0.01mm/0.0005"

Code	Range	Accuracy	Hysteresis	Maximum measuring force	Remark
2112-10F*	12.7mm/0.5"	20µm	10µm	1.5N	flat back
2112-25F*	25.4mm/1"	20µm	10µm	2.2N	flat back
2112-50F*	50.8mm/2"	30µm	10µm	2.5N	flat back
2112-10*	12.7mm/0.5"	20µm	10µm	1.5N	lug back
2112-25*	25.4mm/1"	20µm	10µm	2.2N	lug back
2112-50*	50.8mm/2"	30µm	10µm	2.5N	lug back
2112-25P*	25.4mm/1"	20µm	10µm	2.2N	flat back, with lift cap
2112-50P*	50.8mm/2"	30µm	10µm	2.5N	flat back, with lift cap

spindle lift knob is included

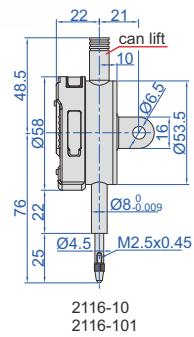


* Supplied with manufacturer inspection certificate

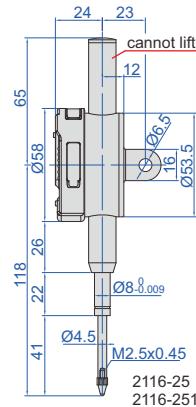
METRIC DIGITAL INDICATORS

DATA
OUTPUTINSPECTION
CERTIFICATE

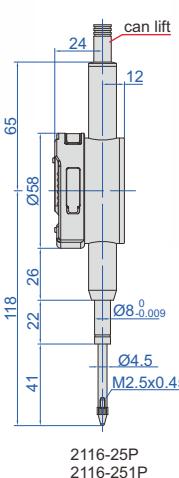
2116-10

2116-10
2116-101

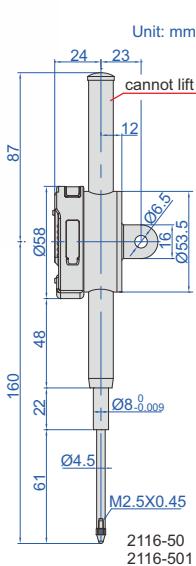
2116-251

2116-25
2116-251

2116-251P

2116-25P
2116-251P

2116-501

2116-50
2116-501

- Button function: on/off, zero, data preset, change measuring direction, absolute/incremental measurement
- Switchable high/low frequency measurement mode, high frequency mode is suitable for high speed moving of spindle and has large power consumption, low power consumption in low frequency mode
- Keep preset data in memory after restart
- CR2032 battery, automatic power off (time is adjustable)
- Data output
- Optional accessory: data output cable (code 7315-50M need receiver page 5, 7302-40M page 13, 7305-40M page 9), backs (page 253~254), contact points (page 250~252)

11

Resolution 0.001mm

Code	Range	Accuracy	Hysteresis	Maximum measuring force	Remark
2116-101F*	12.7mm	5µm	2µm	1.5N	flat back
2116-251F*	25.4mm	5µm	3µm	2.2N	flat back
2116-501F*	50.8mm	6µm	3µm	2.5N	flat back
2116-101*	12.7mm	5µm	2µm	1.5N	lug back
2116-251*	25.4mm	5µm	3µm	2.2N	lug back
2116-501*	50.8mm	6µm	3µm	2.5N	lug back
2116-251P*	25.4mm	5µm	3µm	2.2N	flat back, with lift cap
2116-501P*	50.8mm	6µm	3µm	2.5N	flat back, with lift cap

2116-251P/501P/25P/50P



Resolution 0.01mm

Code	Range	Accuracy	Hysteresis	Maximum measuring force	Remark
2116-10F *	12.7mm	20µm	10µm	1.5N	flat back
2116-25F *	25.4mm	20µm	10µm	2.2N	flat back
2116-50F *	50.8mm	30µm	10µm	2.5N	flat back
2116-10 *	12.7mm	20µm	10µm	1.5N	lug back
2116-25 *	25.4mm	20µm	10µm	2.2N	lug back
2116-50 *	50.8mm	30µm	10µm	2.5N	lug back
2116-25P *	25.4mm	20µm	10µm	2.2N	flat back, with lift cap
2116-50P *	50.8mm	30µm	10µm	2.5N	flat back, with lift cap

spindle lift knob is included



* Supplied with manufacturer inspection certificate

**INSPECTION
CERTIFICATE**
**DATA
OUTPUT**
DIGITAL INDICATORS (ADVANCED TYPE)


2103-10



2104-25



2104-25P

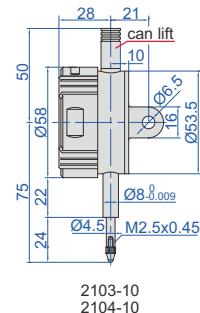
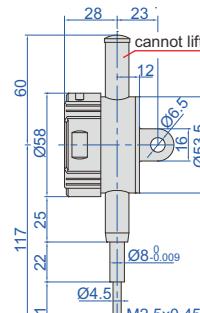
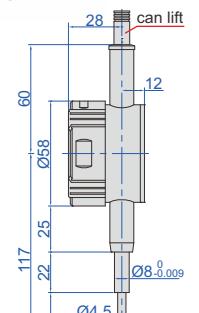
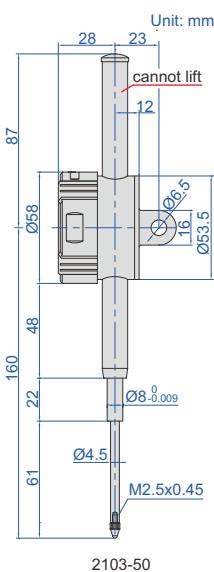


2103-50

analog pointer

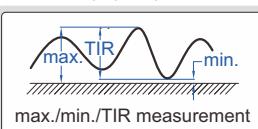


spindle lift knob is included

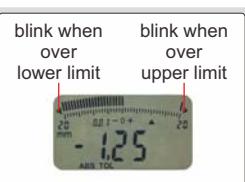
2103-10
2104-102103-25
2104-252103-25P
2104-25P2103-50
2104-50

- Reading in digital and analog
- Display can be rotated by 320°
- Button function: tolerance Go and No-Go display, data preset, measuring direction change, max./min./TIR measurement, inch/metric conversion, absolute/incremental measurement
- Keep preset data and tolerance data in memory after restart
- CR2032 battery, automatic power off (time is adjustable), data output
- Optional accessory: data output cable (code 7315-50M
need receiver page 5, 7302-40M page 13, 7305-40M page 9), backs (page 253~254), contact points (page 250~252)

max./min./TIR



alarm when over tolerance

2103-25P/50P
2104-25P/50P
Resolution 0.001mm/0.00005"

Code	Range	Accuracy	Hysteresis	Maximum measuring force	Remark
2103-10F*	12.7mm/0.5"	5µm	2µm	1.5N	flat back
2103-25F*	25.4mm/1"	5µm	3µm	2.2N	flat back
2103-50F*	50.8mm/2"	6µm	3µm	2.5N	flat back
2103-10 *	12.7mm/0.5"	5µm	2µm	1.5N	lug back
2103-25 *	25.4mm/1"	5µm	3µm	2.2N	lug back
2103-50 *	50.8mm/2"	6µm	3µm	2.5N	lug back
2103-25P*	25.4mm/1"	5µm	3µm	2.2N	flat back, with lift cap
2103-50P*	50.8mm/2"	6µm	3µm	2.5N	flat back, with lift cap

Resolution 0.01mm/0.0005"

Code	Range	Accuracy	Hysteresis	Maximum measuring force	Remark
2104-10F*	12.7mm/0.5"	20µm	10µm	1.5N	flat back
2104-25F*	25.4mm/1"	20µm	10µm	2.2N	flat back
2104-50F*	50.8mm/2"	30µm	10µm	2.5N	flat back
2104-10 *	12.7mm/0.5"	20µm	10µm	1.5N	lug back
2104-25 *	25.4mm/1"	20µm	10µm	2.2N	lug back
2104-50 *	50.8mm/2"	30µm	10µm	2.5N	lug back
2104-25P*	25.4mm/1"	20µm	10µm	2.2N	flat back, with lift cap
2104-50P*	50.8mm/2"	30µm	10µm	2.5N	flat back, with lift cap

* Supplied with manufacturer inspection certificate

DIGITAL INDICATORS (WITH TRANSMISSION BUTTON AND SIGNAL LIGHT)



DATA
OUTPUT



press the button
to transmit data
data transmission
signal light

2138-10



press the button
to transmit data
data transmission
signal light

2139-25



press the button
to transmit data
data transmission
signal light

2139-25P

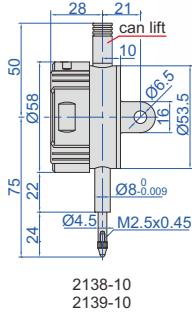


press the button
to transmit data
data transmission
signal light

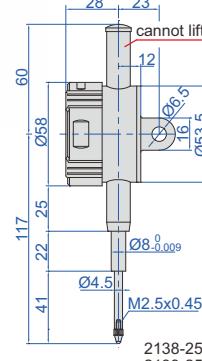
2138-50



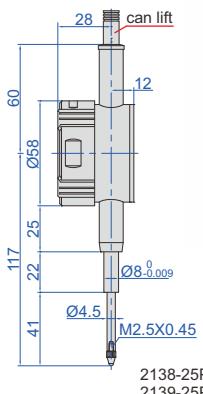
spindle lift knob
is included



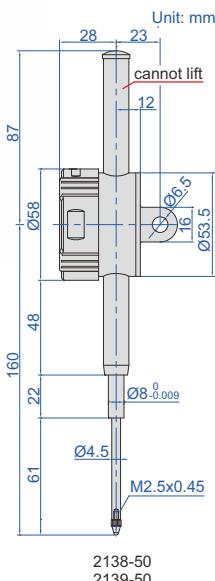
2138-10
2139-10



2138-25
2139-25

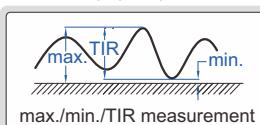


2138-25P
2139-25P



2138-50
2139-50

max./min./TIR



- Reading in digital and analog
- Display can be rotated by 320°
- Button function: on/off, zero, tolerance Go and No-Go display, data preset, measuring direction change, max./min./TIR measurement, inch/metric conversion, absolute/incremental measurement, data output
- Keep preset data and tolerance data in memory after restart
- CR2032 battery, automatic power off (time is adjustable)
- Data output
- Optional accessory: data output cable (flat back: code **7315-51 need receiver** page 5, **7302-40M** page 13, **7305-40M** page 9; lug back: code **7315-50M need receiver** page 5, **7302-40M** page 13, **7305-40M** page 9), backs (page 253~254), contact points (page 250~252)

11

Resolution 0.001mm/0.00005"

Code	Range	Accuracy	Hysteresis	Maximum measuring force	Remark
2138-10F*	12.7mm/0.5"	5µm	2µm	1.5N	flat back
2138-25F*	25.4mm/1"	5µm	3µm	2.2N	flat back
2138-50F*	50.8mm/2"	6µm	3µm	2.5N	flat back
2138-10*	12.7mm/0.5"	5µm	2µm	1.5N	lug back
2138-25*	25.4mm/1"	5µm	3µm	2.2N	lug back
2138-50*	50.8mm/2"	6µm	3µm	2.5N	lug back
2138-25P*	25.4mm/1"	5µm	3µm	2.2N	flat back, with lift cap
2138-50P*	50.8mm/2"	6µm	3µm	2.5N	flat back, with lift cap

Resolution 0.01mm/0.0005"

Code	Range	Accuracy	Hysteresis	Maximum measuring force	Remark
2139-10F*	12.7mm/0.5"	20µm	10µm	1.5N	flat back
2139-25F*	25.4mm/1"	20µm	10µm	2.2N	flat back
2139-50F*	50.8mm/2"	30µm	10µm	2.5N	flat back
2139-10*	12.7mm/0.5"	20µm	10µm	1.5N	lug back
2139-25*	25.4mm/1"	20µm	10µm	2.2N	lug back
2139-50*	50.8mm/2"	30µm	10µm	2.5N	lug back
2139-25P*	25.4mm/1"	20µm	10µm	2.2N	flat back, with lift cap
2139-50P*	50.8mm/2"	30µm	10µm	2.5N	flat back, with lift cap

* Supplied with manufacturer inspection certificate

analog pointer



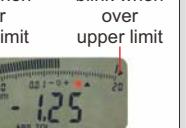
analog pointer



alarm when over tolerance



blink when over lower limit



VIDEO

2138-25P/50P
2139-25P/50P



display can be
rotated by 320°



pull lift cap to lift point

WATERPROOF

DATA
OUTPUT

WATERPROOF DIGITAL INDICATORS



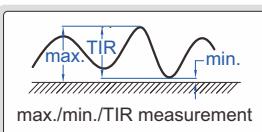
alarm when over tolerance



spindle lift knob is included (except 2115-101/101F, 2115-10/10F)



max./min./TIR



2115-10

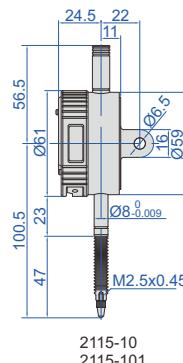
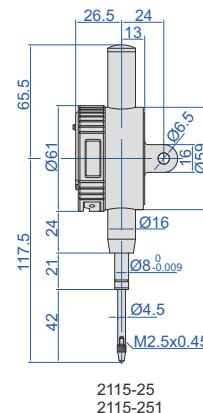
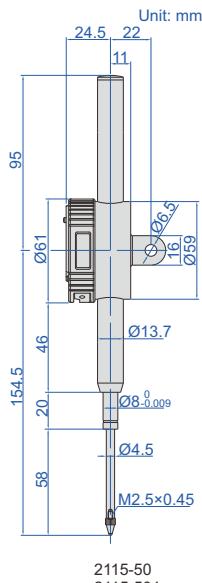


2115-25



2115-50

- Dust/waterproof
- Button function: on/off, zero, mm/inch, data preset, tolerance, change measuring direction, max./min./TIR measurement, absolute/incremental measurement
- Keep preset data and tolerance data in memory after restart
- CR2032 battery, automatic power off
- Data output
- Optional accessory: data output cable (code 7315-50M need receiver page 5, 7302-40M page 13, 7305-40M page 9), backs (page 253~254), contact points (page 250~252)

2115-10
2115-1012115-25
2115-2512115-50
2115-501

Resolution 0.001mm/0.00005"

Code	Range	Dust/waterproof	Accuracy	Hysteresis	Remark
2115-101*	12.7mm/0.5"	IP65	5µm	2µm	lug back
2115-251*	25.4mm/1"	IP54	5µm	3µm	lug back
2115-501*	50.8mm/2"	IP54	6µm	3µm	lug back
2115-101F*	12.7mm/0.5"	IP65	5µm	2µm	flat back
2115-251F*	25.4mm/1"	IP54	5µm	3µm	flat back
2115-501F*	50.8mm/2"	IP54	6µm	3µm	flat back

Resolution 0.01mm/0.0005"

Code	Range	Dust/waterproof	Accuracy	Hysteresis	Remark
2115-10*	12.7mm/0.5"	IP65	20µm	10µm	lug back
2115-25*	25.4mm/1"	IP54	20µm	10µm	lug back
2115-50*	50.8mm/2"	IP54	30µm	10µm	lug back
2115-10F*	12.7mm/0.5"	IP65	20µm	10µm	flat back
2115-25F*	25.4mm/1"	IP54	20µm	10µm	flat back
2115-50F*	50.8mm/2"	IP54	30µm	10µm	flat back

* Supplied with manufacturer inspection certificate

ADJUSTABLE COEFFICIENT DIGITAL INDICATORS

DATA
OUTPUTINSPECTION
CERTIFICATE

2501-10



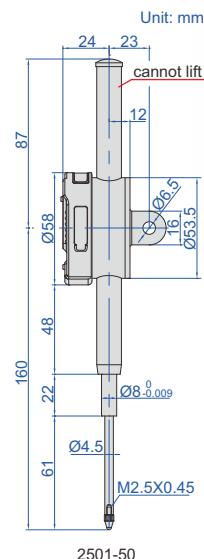
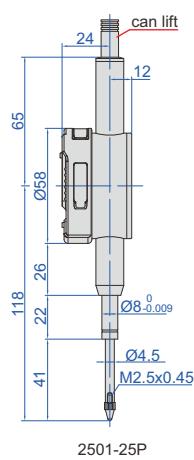
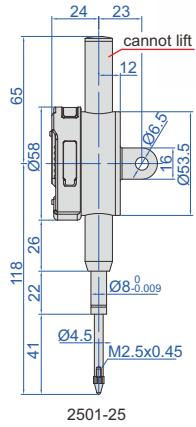
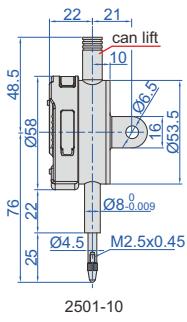
2501-25



2501-25P



2501-50



11

- DISPLAY READING = COEFFICIENT X SPINDLE MOVEMENT.
The coefficient can be adjusted from 0 to 9.9999.
For example, coefficient is 4.5562, spindle moves 3.60mm,
display reading is $4.5562 \times 3.60 = 16.40\text{mm}$
- Button function: on/off, zero, data preset, inch/mm,
coefficient set, measuring direction change
- Switchable high/low frequency measurement mode, high frequency
mode is suitable for high speed moving of spindle and has large power
consumption, low power consumption in low frequency mode
- Keep preset data in memory after restart
- CR2032 battery, automatic power off (time is adjustable)
- Data output
- Optional accessory: data output cable (code **7315-50M** need receiver
page 5, **7302-40M** page 13, **7305-40M** page 9),
backs (page 253~254), contact points (page 250~252)

spindle lift knob is included



2501-25P/50P



Resolution 0.01mm/0.0005"

Code	Range	Accuracy	Hysteresis	Maximum measuring force	Remark
2501-10*	12.7mm/0.5"	20µm	10µm	1.5N	lug back
2501-25*	25.4mm/1"	20µm	10µm	2.2N	lug back
2501-50*	50.8mm/2"	30µm	10µm	2.5N	lug back
2501-10F*	12.7mm/0.5"	20µm	10µm	1.5N	flat back
2501-25F*	25.4mm/1"	20µm	10µm	2.2N	flat back
2501-50F*	50.8mm/2"	30µm	10µm	2.5N	flat back
2501-25P*	25.4mm/1"	20µm	10µm	2.2N	flat back, with lift cap
2501-50P*	50.8mm/2"	30µm	10µm	2.5N	flat back, with lift cap

* Supplied with manufacturer inspection certificate

**INSPECTION
CERTIFICATE**

 THE ORIGINAL DATA
REMAINS AFTER POWER OFF

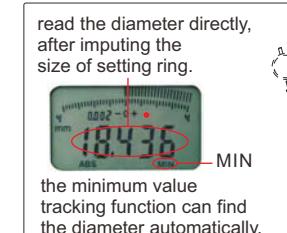
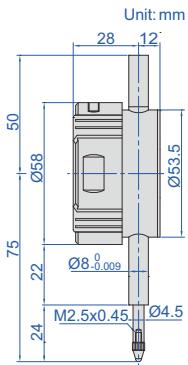
 DATA
OUTPUT

DIGITAL INDICATORS FOR BORE GAGES (WITH TRANSMISSION BUTTON AND SIGNAL LIGHT)

- Specially designed for bore gages
- The minimum value tracking function can find the diameter automatically
- Read the diameter directly, after imputing the size of setting ring
- Reading in digital and analog
- Display can be rotated by 320°
- Button function: on/off, minimum value tracking, calibration, data preset, inch/metric conversion
- Data remains after power off, no need to recalibrate after power on
- CR2032 battery, automatic power off (time is adjustable)
- Data output
- Optional accessory: data output cable (code 7315-51 need receiver page 5, 7302-40M page 13, 7305-40M page 9), backs (page 253~254), contact points (page 250~252), spindle lift knob (code 7332)



2108-10F



Code	Range	Resolution	Accuracy	Hysteresis	Remark
2108-10F*	12.7mm/0.5"	0.002mm/0.0001" (can switch to: 0.01mm/0.0005")	20µm	10µm	flat back
2108-101F*	12.7mm/0.5"	0.001mm/0.00005"	5µm	2µm	flat back

* Supplied with manufacturer inspection certificate

11

**IP54
WATERPROOF**

 DATA
OUTPUT

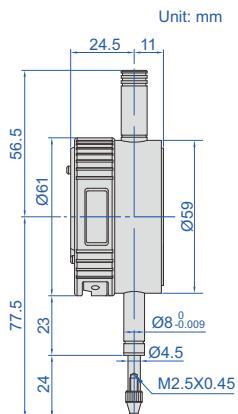
**INSPECTION
CERTIFICATE**

WATERPROOF DIGITAL INDICATORS FOR BORE GAGES

- Specially designed for bore gages
- The minimum value tracking function can find the diameter automatically
- Read the diameter directly, after imputing the size of setting ring
- Button function: on/off, minimum value tracking, calibration, data preset, inch/metric conversion
- Data remains after power off, no need to recalibrate after power on
- CR2032 battery, automatic power off (time is adjustable)
- Data output
- Optional accessory: data output cable (code 7315-50M need receiver page 5, 7302-40M page 13, 7305-40M page 9), backs (page 253~254), contact points (page 250~252), spindle lift knob (code 7332)



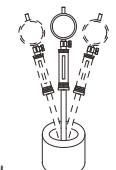
2137-10F



Code	Range	Resolution	Accuracy	Hysteresis	Remark
2137-10F*	12.7mm/0.5"	0.002mm/0.0001" (can switch to: 0.01mm/0.0005")	20µm	10µm	flat back
2137-101F*	12.7mm/0.5"	0.001mm/0.00005"	5µm	2µm	flat back

* Supplied with manufacturer inspection certificate

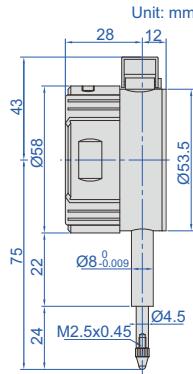
 read the diameter directly,
after imputing the size of
setting ring.

 the minimum value
tracking function can find
the diameter automatically.


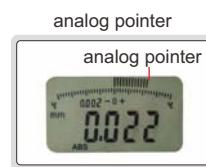
DIGITAL INDICATORS WITH LIFTING LEVER

DATA
OUTPUTINSPECTION
CERTIFICATE

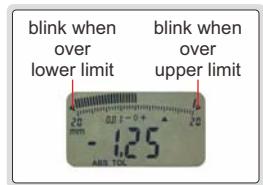
2109-10



- Reading in digital and analog
- Display can be rotated by 320°
- Button function: tolerance Go and No-Go display, data preset, measuring direction change, max./min./TIR measurement, inch/metric conversion, absolute/incremental measurement
- Keep preset data and tolerance data in memory after restart
- CR2032 battery, automatic power off (time is adjustable)
- Data output
- Optional accessory: data output cable (code 7315-50M need receiver page 5, 7302-40M page 13, 7305-40M page 9), backs (page 253~254), contact points (page 250~252)



alarm when over tolerance



Code	Range	Resolution	Accuracy	Hysteresis	Remark
2109-10*	10mm/0.4"	0.01mm/0.0005"	20µm	10µm	flat back
2109-101*	10mm/0.4"	0.001mm/0.00005"	5µm	2µm	flat back

* Supplied with manufacturer inspection certificate

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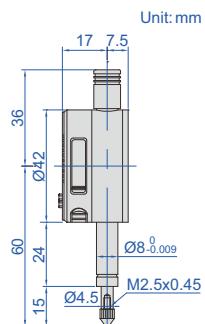
COMPACT DIGITAL INDICATORS

DATA
OUTPUTINSPECTION
CERTIFICATE

- Button function:
 - in/mm: short press for inch/metric conversion
 - long press to change measuring direction
 - ABS: short press for absolute/incremental measurement
 - long press to preset data
- 0/ON: short press to turn on when power is off
- short press to set zero when power is on
- long press to turn off
- Keep preset data in memory after restart
- CR1632 battery, automatic power off
- Data output
- Optional accessory: data output cable (code 7315-50M need receiver page 5, 7302-40M page 13, 7305-40M page 9), contacts (page 250~252)



2114-51F



Code	Range	Resolution	Accuracy	Hysteresis	Remark
2114-5F*	5mm/0.2"	0.01mm/0.0005"	20µm	10µm	flat back
2114-51F*	5mm/0.2"	0.001mm/0.00005"	5µm	2µm	flat back

* Supplied with manufacturer inspection certificate

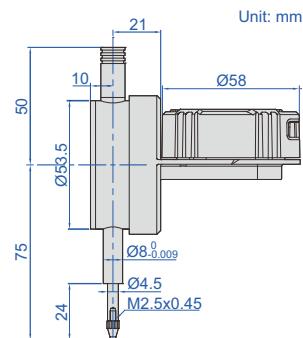
**INSPECTION
CERTIFICATE**

**DATA
OUTPUT**

BACK PLUNGER TYPE DIGITAL INDICATORS



2118-10

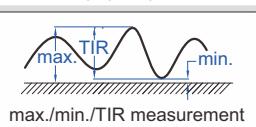


- Display can rotate 320°, and display direction is changeable
- Reading in digital and analog
- Button function: tolerance Go and No-Go display, data preset, measuring direction change, max./min./TIR measurement, inch/metric conversion, absolute/incremental measurement
- Keep preset data and tolerance data in memory after restart
- CR2032 battery, automatic power off (time is adjustable)
- Data output
- Optional accessory: data output cable (code 7315-50M need receiver page 5, 7302-40M page 13, 7305-40M page 9), backs (page 253~254), contact points (page 250~252)

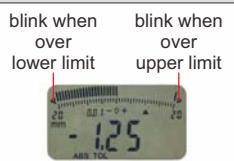
spindle lift knob
is included



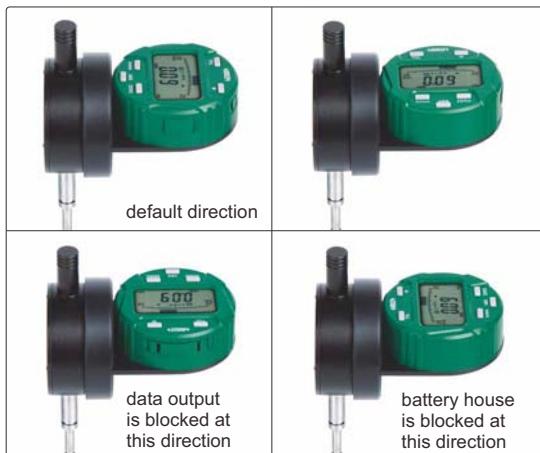
max./min./TIR



alarm when over tolerance



display direction is changeable



remark: to change above direction, 4 fixing screws on the back of display need to be removed first.

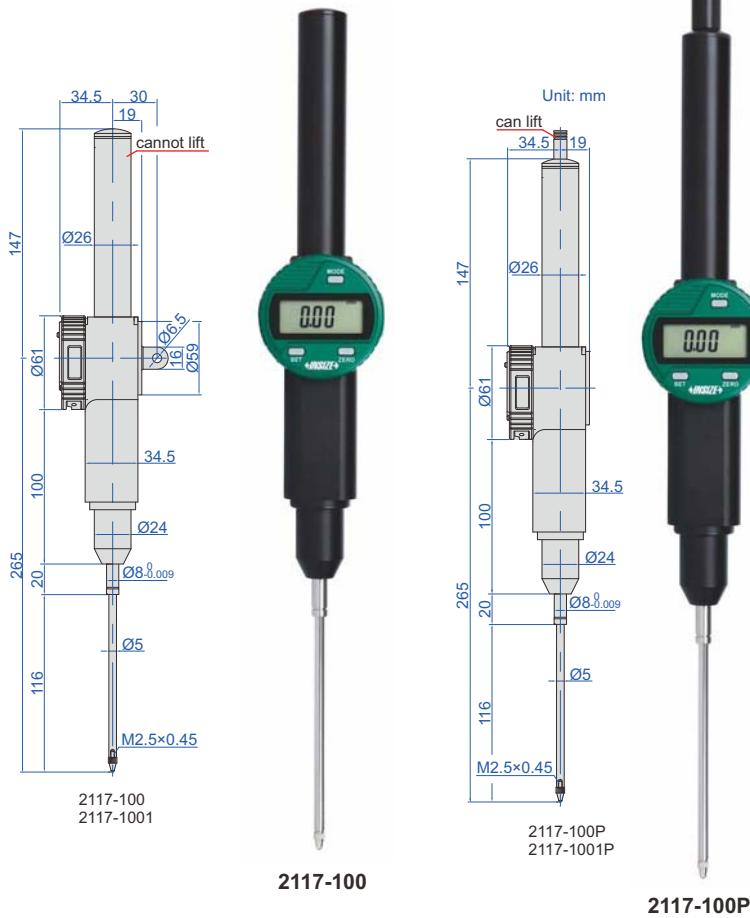
display can rotate 320°



Code	Range	Resolution	Accuracy	Hysteresis	Remark
2118-10 *	12.7mm/0.5"	0.01mm/0.0005"	20µm	10µm	flat back
2118-101 *	12.7mm/0.5"	0.001mm/0.00005"	5µm	2µm	flat back

* Supplied with manufacturer inspection certificate

LARGE STROKE DIGITAL INDICATORS



Resolution 0.01mm/0.0005"

Code	Range	Accuracy	Hysteresis	Remark
2117-100	100mm/4"	30µm	10µm	lug back
2117-100P	100mm/4"	30µm	10µm	flat back, with lift cap

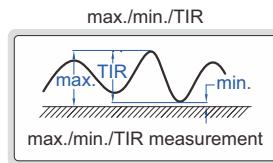
Resolution 0.001mm/0.00005"

Code	Range	Accuracy	Hysteresis	Remark
2117-1001	100mm/4"	9µm	3µm	lug back
2117-1001P	100mm/4"	9µm	3µm	flat back, with lift cap

- Button function: on/off, zero, mm/inch, data preset, tolerance, change measuring direction, max./min./TIR measurement
- Keep preset data and tolerance data in memory after restart
- CR2032 battery, automatic power off
- Maximum measuring force: 3.2N
- Data output
- Optional accessory: data output cable (code 7315-50M need receiver page 5, 7302-40M page 13, 7305-40M page 9), backs (page 253~254), contact points (page 250~252)

DATA
OUTPUT

spindle lift knob is included



alarm when over tolerance



2117-100P/1001P

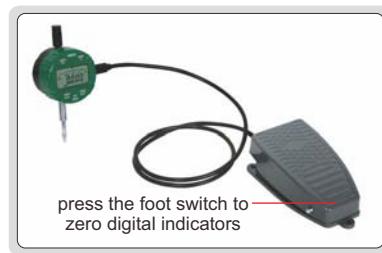


ZEROING FOOT SWITCH

- For zeroing of digital indicators



application



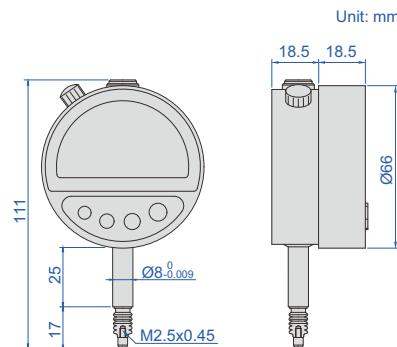
Code	Description	Interface of digital indicators	Applicable products
7360-1M	zeroing foot switch with cable (length 2.5m)		for digital indicators

INDUCTIVE DIGITAL COMPARATOR (HIGH ACCURACY)

ATTENTION: RECHARGEABLE BATTERY,
FOR 12 HOURS CONTINUOUS WORKING

IP54
WATERPROOF

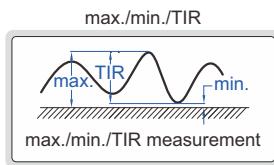
DATA
OUTPUT



2149-2



touch sensor
to transmit data
signal light



wireless receiver (optional)



printer (optional)



11

- Built-in wireless transmission
- IP54 dust/waterproof
- Reading in digital and analog
- Display can be rotated by 320°
- Can store 10 set parameters, and the parameter can be searched and recalled
- 999 groups value can be stored
- Touch sensor: use the sensor to transmit data, avoiding press the button to cause deformation of the dial indicator stand and affect the zero position
- Button function: on/off, zero, data hold, measuring direction change, inch/metric conversion, data preset, absolute/incremental measurement, max./min./TIR measurement, tolerance Go and No-Go display, data output, analog pointer resolution and range change, print data
- Power: rechargeable battery, for 12 hours continuous working
- Ruby probe
- Data output
- Optional accessory:
wireless receiver (code 2149-RE, transmission distance is 2 meters),
printer (code ISF-DF-PRINTER)

Code	Range	Resolution	Accuracy	Hysteresis	Repeatability	Measuring force
2149-2	2mm/0.08"	0.1µm/0.000005"	0.5µm	0.2µm	0.3µm	0.8-1N

WIRELESS HIGH PRECISION DIGITAL INDICATORS



ABSOLUTE ENCODER, THE ORIGINAL DATA REMAINS AFTER POWER OFF

ATTENTION: RECHARGEABLE BATTERY, FOR 24 HOURS CONTINUOUS WORKING

CONTINUOUS DATA COLLECTION CAN BE CUSTOMIZED (PRESS "DATA" BUTTON TO START CONTINUOUS COLLECTION, PRESS AGAIN TO STOP; COLLECTION FREQUENCY CAN BE CUSTOMIZED, THE FASTEST DATA COLLECTION IS 10PCS PER SECOND)

LINEAR BALL BEARINGS FOR TEN MILLION TIMES USE

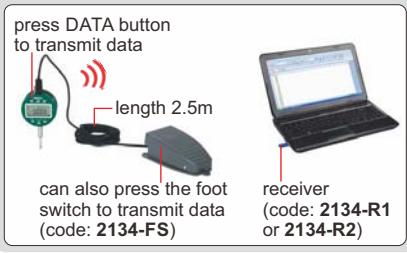
alarm when over tolerance



analog pointer



transmit data



- Built-in wireless transmission, Zigbee signal
- Linear ball bearings for ten million times use
- Absolute encoder, the original data remains after power off
- Reading in digital and analog
- Button function: data output, tolerance, data preset, data hold, measuring direction change, max./min./TIR, power off time, on/off, mm/inch, adjust resolution
- Power: rechargeable battery, for 24 hours continuous working
- Optional accessory: contact points (page 250~252), foot switch, code: 2134-FS
wireless receiver, code: 2134-R1 (keyboard format)
2134-R2 (serial port format)

11

Standard precision

Carbide probe

Adjustable resolution: 0.0005mm/0.00002"
0.001mm/0.00005"
0.01mm/0.0005"

Code	Range	Accuracy	Hysteresis	A	B	C	$\varnothing D$	Remark
2134-10*	12.7mm/0.5"	3μm	1.5μm	75.4mm	20.6mm	24.8mm	5mm	flat back
2134-10L*	12.7mm/0.5"	3μm	1.5μm	75.4mm	20.6mm	24.8mm	5mm	lug back
2134-25	25.4mm/1"	3μm	1.5μm	109.5mm	38.5mm	41mm	5mm	flat back
2134-50	50.8mm/2"	3μm	1.5μm	201mm	32mm	72mm	4.5mm	flat back

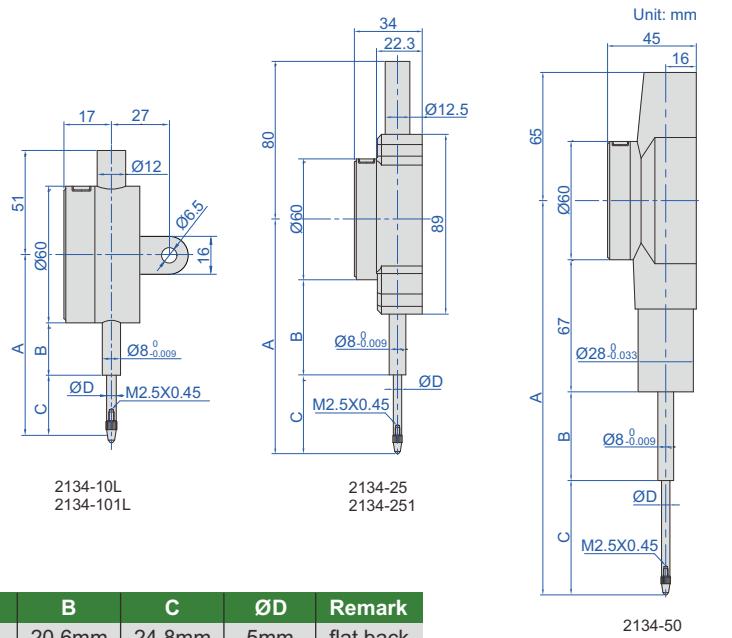
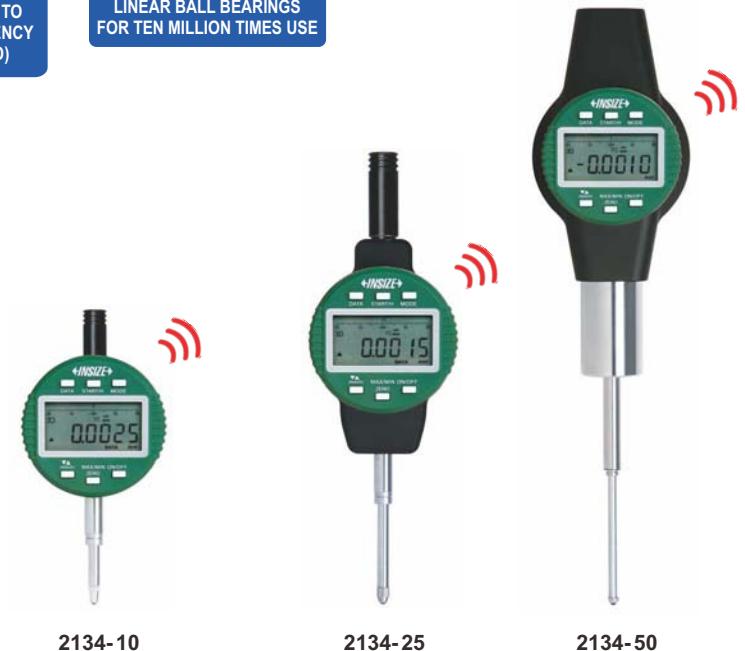
High precision

Ruby probe

Adjustable resolution: 0.0002mm/0.00001"
0.001mm/0.00005"
0.01mm/0.0005"

Code	Range	Accuracy	Hysteresis	A	B	C	$\varnothing D$	(mm) Remark
2134-101*	12.7mm/0.5"	1.5μm	1μm	77.4	26	21.4	4	flat back
2134-101L*	12.7mm/0.5"	1.5μm	1μm	77.4	26	21.4	4	lug back
2134-251*	25.4mm/1"	1.8μm	1μm	116.1	42.5	44	4	flat back

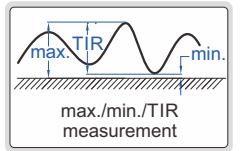
* Supplied with manufacturer inspection certificate



spindle lift knob is included



max./min./TIR



LINEAR BALL BEARINGS
FOR TEN MILLION TIMES USE

ABSOLUTE ENCODER, THE ORIGINAL
DATA REMAINS AFTER POWER OFF

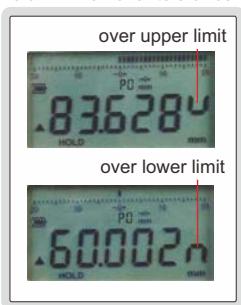
DATA
OUTPUT

ATTENTION: RECHARGEABLE BATTERY,
FOR 24 HOURS CONTINUOUS WORKING

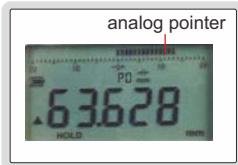
**INSPECTION
CERTIFICATE**

HIGH PRECISION DIGITAL INDICATORS

alarm when over tolerance



analog pointer



2133-10



2133-25



2133-50

- Linear ball bearings for ten million times use
- Absolute encoder, the original data remains after power off
- Reading in digital and analog
- Data output
- Button function: data output, tolerance, data preset, data hold, measuring direction change, max./min./TIR, power off time, on/off, mm/inch, adjust resolution
- Power: rechargeable battery, for 24 hours continuous working
- Optional accessory: contact points (page 250~252), wireless transmitter, code **7315-60 need receiver** page 5 data output cable (keyboard format), code **7302-60** page 13 data output cable (serial port format), code **7305-G60** page 11 (cable length 3m, optional cable length maximum 15m; RS232 protocol, optional RS485 protocol)

Standard precision

Carbide probe

Adjustable resolution: 0.0005mm/0.00002"
0.001mm/0.00005"
0.01mm/0.0005"

Code	Range	Accuracy	Hysteresis	A	B	C	ØD	Remark
2133-10*	12.7mm/0.5"	3µm	1.5µm	75.4mm	20.6mm	24.8mm	5mm	flat back
2133-10L*	12.7mm/0.5"	3µm	1.5µm	75.4mm	20.6mm	24.8mm	5mm	lug back
2133-25*	25.4mm/1"	3µm	1.5µm	109.5mm	38.5mm	41mm	5mm	flat back
2133-50*	50.8mm/2"	3µm	1.5µm	201mm	32mm	72mm	4.5mm	flat back

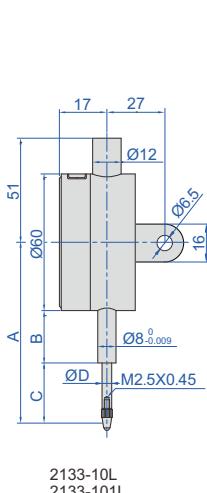
High precision

Ruby probe

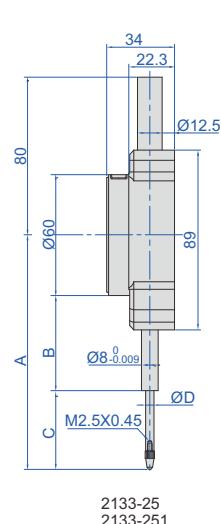
Adjustable resolution: 0.0002mm/0.00001"
0.001mm/0.00005"
0.01mm/0.0005"

Code	Range	Accuracy	Hysteresis	A	B	C	ØD	Remark
2133-101*	12.7mm/0.5"	1.5µm	1µm	77.4mm	26mm	21.4mm	4mm	flat back
2133-101L*	12.7mm/0.5"	1.5µm	1µm	77.4mm	26mm	21.4mm	4mm	lug back
2133-251*	25.4mm/1"	1.8µm	1µm	116.1mm	42.5mm	44mm	4mm	flat back

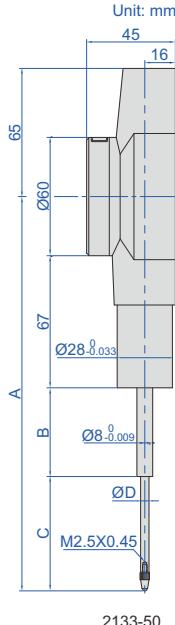
* Supplied with manufacturer inspection certificate



2133-10L
2133-101L



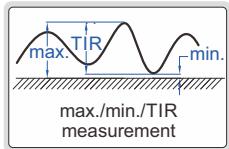
2133-25
2133-251



2133-50



max./min./TIR



max./min./TIR
measurement

HIGH PRECISION DIGITAL INDICATORS

DATA
OUTPUT

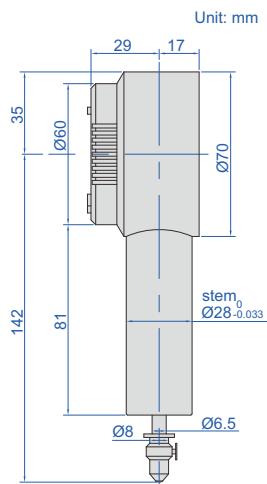
Ø28MM STEM SUITABLE FOR
REINFORCED CLAMPING

ABSOLUTE ENCODER, THE ORIGINAL
DATA REMAINS AFTER POWER OFF

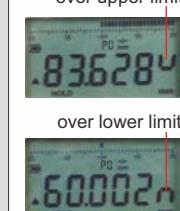
LINEAR BALL BEARINGS
FOR TEN MILLION TIMES USE

ATTENTION: RECHARGEABLE BATTERY,
FOR 24 HOURS CONTINUOUS WORKING

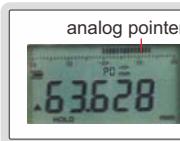
- Linear ball bearings for ten million times use
- Ø28mm stem suitable for reinforced clamping
- Absolute encoder, the original data remains after power off
- Adjustable resolution: 0.0002mm/0.00001"
- 0.001mm/0.00005"
- 0.01mm/0.0005"
- Reading in digital and analog
- Button function: data output, tolerance, data preset, data hold, measuring direction change, max./min./TIR, power off time, on/off, mm/inch, adjust resolution
- Power: rechargeable battery, for 24 hours continuous working
- Ruby probe



alarm when
over tolerance



analog pointer



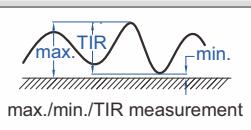
With data interface

Optional accessory:

wireless transmitter, code **7315-60** need receiver page 5
data output cable (keyboard format), code **7302-60** page 13
data output cable (serial port format), code **7305-G60** page 11
(cable length 3m, optional cable length maximum 15m; RS232 protocol, optional RS485 protocol)

2140-6

max./min./TIR



wireless receiver
2134-R1, 2134-R2 (optional)



Built-in wireless

Optional accessory:

wireless receiver (keyboard format, connect up to 15 digital indicators), code **2134-R1**
wireless receiver (serial port format, connect up to 15 digital indicators), code **2134-R2**

Code	Range	Accuracy	Hysteresis	Remark
2140-6	0-6mm/0-0.24"	1.6µm	0.8µm	flat back

* Continuous data collection can be customized (press "DATA" button to start continuous collection, press again to stop; collection frequency can be customized, the fastest data collection is 10 pcs per second)

DIAL COMPARATOR

INSIZE PLUS
MADE IN EUROPE

- Meet DIN879-1
- Shockproof
- Jeweled bearing
- Overtravel: 3mm
- Shadow free dial face cover
- Supplied with limit pointers
- Initial measuring force 1.2N
- Optional accessory:
lifting lever (code **6289-150**)

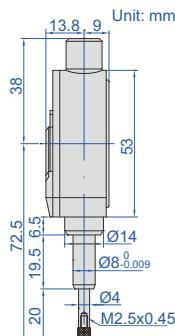


2881-01

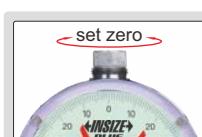
JEWELLED
BEARING

SHOCK
PROOF

**INSPECTION
CERTIFICATE**



set zero



lifting lever (optional)



Code	Range	Graduation	Accuracy	Hysteresis	Dial reading	Remark
2881-01*	0.1mm	0.001mm	1.2µm	0.5µm	50-0-50	flat back

* Supplied with manufacturer inspection certificate

**INSPECTION
CERTIFICATE**

**SHOCK
PROOF**

**JEWELLED
BEARING**

PRECISION DIAL INDICATORS

INSIZE PLUS
MADE IN EUROPE

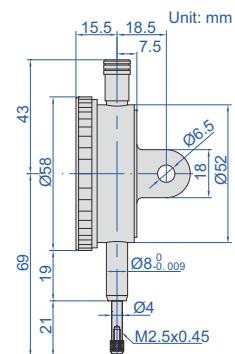


2830-1

- Shockproof
- Jeweled bearing
- With limit pointers
- Optional accessory:
backs (page 253~254),
contact points (page 250~252)

Code	Range	Graduation	Accuracy	Hysteresis	Range/rev	Dial reading	Remark
2830-1*	1mm	0.001mm	5µm	2µm	0.2mm	0-100-0	lug back
2830-1F*	1mm	0.001mm	5µm	2µm	0.2mm	0-100-0	flat back

* Supplied with manufacturer inspection certificate



**INSPECTION
CERTIFICATE**

**SHOCK
PROOF**

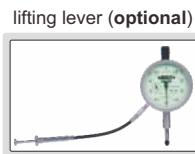
HIGH PRECISION DIAL INDICATORS

INSIZE PLUS
MADE IN EUROPE



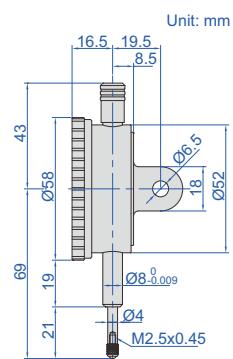
2891-1

- Shockproof
- Jeweled bearing
- With limit pointers
- Optional accessory:
backs (page 253~254),
contact points (page 250~252),
lifting lever (code 6289-150)



Code	Range	Graduation	Accuracy	Hysteresis	Range/rev	Dial reading	Remark
2891-1*	1mm	0.001mm	3µm	1.5µm	0.1mm	0-100	lug back
2891-1F*	1mm	0.001mm	3µm	1.5µm	0.1mm	0-100	flat back

* Supplied with manufacturer inspection certificate



**INSPECTION
CERTIFICATE**

**SHOCK
PROOF**

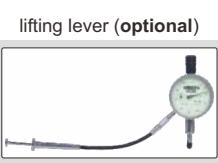
HIGH PRECISION COMPACT DIAL INDICATORS

INSIZE PLUS
MADE IN EUROPE



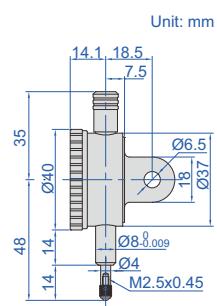
2890-1

- Shockproof
- Jeweled bearing
- With limit pointers
- Optional accessory:
backs (page 253~254),
contact points (page 250~252),
lifting lever (code 6289-150)



Code	Range	Graduation	Accuracy	Hysteresis	Range/rev	Dial reading	Remark
2890-1*	1mm	0.001mm	3µm	1.5µm	0.1mm	0-100	lug back
2890-1F*	1mm	0.001mm	3µm	1.5µm	0.1mm	0-100	flat back

* Supplied with manufacturer inspection certificate



PRECISION DIAL INDICATORS

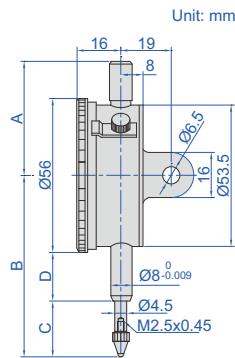
JEWELLED
BEARING

INSPECTION
CERTIFICATE



- Graduation: 0.001mm
- Jeweled bearing
- Supplied with limit pointers and bezel clamp
- Optional accessory: backs (page 253~254), contact points (page 250~252)

2313-1A



* Supplied with manufacturer inspection certificate

COMPACT DIAL INDICATOR

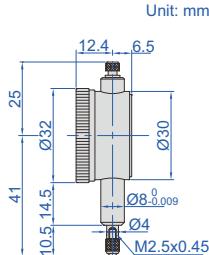
MADE IN EUROPE

INSPECTION
CERTIFICATE



- Meet DIN878
- With limit pointers
- Optional accessory: backs (page 253~254), contact points (page 250~252)

2886-3F



* Supplied with manufacturer inspection certificate

COMPACT DIAL INDICATORS

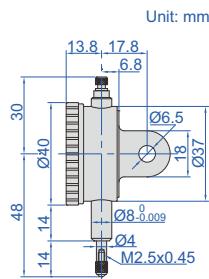
MADE IN EUROPE

INSPECTION
CERTIFICATE



- Meet DIN878
- With limit pointers
- Optional accessory: backs (page 253~254), contact points (page 250~252)

2887-5



* Supplied with manufacturer inspection certificate

COMPACT DIAL INDICATORS

JEWELLED BEARING

INSPECTION CERTIFICATE

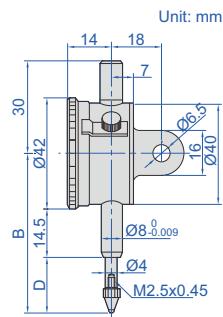
- Meet DIN878
- Jeweled bearing
- Supplied with limit pointers and bezel clamp
- Optional accessory: backs (page 253~254), contact points (page 250~252)



2311-5

(mm)

Code	Range	Graduation	Accuracy	Hysteresis	Range/rev	Dial reading	Remark	B	D
2311-3F *	3mm	0.01mm	12µm	3µm	0.5mm	0-50	flat back	46	10.5
2311-5F *	5mm	0.01mm	14µm	3µm	0.5mm	0-50	flat back	48	12.5
2311-3 *	3mm	0.01mm	12µm	3µm	0.5mm	0-50	lug back	46	10.5
2311-5 *	5mm	0.01mm	14µm	3µm	0.5mm	0-50	lug back	48	12.5



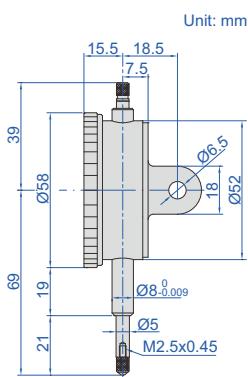
* Supplied with manufacturer inspection certificate

INSPECTION CERTIFICATE

DIAL INDICATORS

INSIZE PLUS
MADE IN EUROPE

2892-10



- Meet DIN878
- With limit pointers
- Optional accessory: backs (page 253~254), contact points (page 250~252)

* Supplied with manufacturer inspection certificate

JEWELLED BEARING

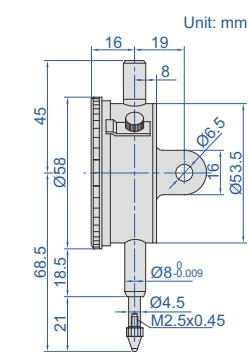
INSPECTION CERTIFICATE

DIAL INDICATORS (STANDARD TYPE)

- Meet DIN878
- Jeweled bearing
- Supplied with limit pointers and bezel clamp
- Optional accessory: backs (page 253~254), contact points (page 250~252)



2308-10A



Code	Range	Graduation	Accuracy	Hysteresis	Range/rev	Dial reading	Remark
2308-3FA *	3mm	0.01mm	12µm	3µm	1mm	0-100	flat back
2308-5FA *	5mm	0.01mm	14µm	3µm	1mm	0-100	flat back
2308-10FA *	10mm	0.01mm	17µm	3µm	1mm	0-100	flat back
2308-3A *	3mm	0.01mm	12µm	3µm	1mm	0-100	lug back
2308-5A *	5mm	0.01mm	14µm	3µm	1mm	0-100	lug back
2308-10A *	10mm	0.01mm	17µm	3µm	1mm	0-100	lug back

* Supplied with manufacturer inspection certificate

DIAL INDICATORS (BASIC TYPE)



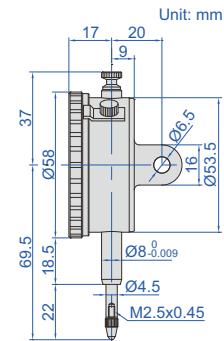
JEWELLED BEARING

POPULAR MODEL

- Meet DIN878
- Jeweled bearing
- Supplied with limit hands and bezel clamp
- Packed in carton box
- Optional accessory: backs (page 253~254), contact points (page 250~252)



2301-10



Code	Range	Graduation	Accuracy	Hysteresis	Range/rev	Dial reading	Remark
2301-10F *	10mm	0.01mm	17µm	3µm	1mm	0-100	flat back
2301-10 *	10mm	0.01mm	17µm	3µm	1mm	0-100	lug back with spare flat back

* Supplied with manufacturer inspection certificate

REVERSE READING DIAL INDICATORS

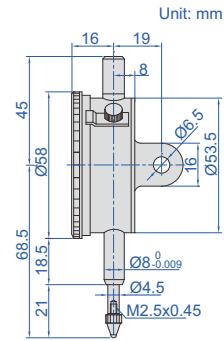


JEWELLED BEARING

- Meet DIN878
- Suitable for depth and step measurements
- Jeweled bearing
- Supplied with limit pointers and bezel clamp
- Optional accessory: backs (page 253~254), contact points (page 250~252)



2801-10



Code	Range	Graduation	Accuracy	Hysteresis	Range/rev	Dial reading	Remark
2801-10F *	10mm	0.01mm	17µm	3µm	1mm	100-0	flat back
2801-10 *	10mm	0.01mm	17µm	3µm	1mm	100-0	lug back

* Supplied with manufacturer inspection certificate

LARGE DIAL FACE DIAL INDICATOR

INSIZE PLUS
MADE IN EUROPE



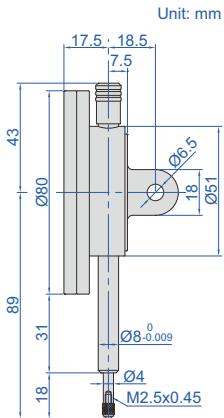
MADE IN EUROPE

INSPECTION
CERTIFICATE

- Large, easy-to-read dial face
- With limit pointers
- Optional accessory: backs (page 253~254), contact points (page 250~252)



2888-10



Code	Range	Graduation	Accuracy	Hysteresis	Range/rev	Dial reading	Remark
2888-10 *	10mm	0.01mm	17µm	5µm	1mm	0-100	flat back, with spare lug back

* Supplied with manufacturer inspection certificate

**INSPECTION
CERTIFICATE**
SHOCK
PROOFJEWELLED
BEARING

SHOCKPROOF DIAL INDICATORS

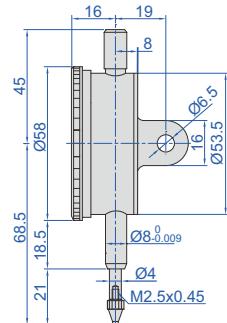


- Meet DIN878
- Shockproof
- Jeweled bearing
- Supplied with limit pointers and bezel clamp
- Optional accessory: backs (page 253~254), contact points (page 250~252)

2314-10A

Code	Range	Graduation	Accuracy	Hysteresis	Range/rev	Dial reading	Remark
2314-3FA *	3mm	0.01mm	12µm	3µm	1mm	0-100	flat back
2314-5FA *	5mm	0.01mm	14µm	3µm	1mm	0-100	flat back
2314-10FA *	10mm	0.01mm	17µm	3µm	1mm	0-100	flat back
2314-3A *	3mm	0.01mm	12µm	3µm	1mm	0-100	lug back
2314-5A *	5mm	0.01mm	14µm	3µm	1mm	0-100	lug back
2314-10A *	10mm	0.01mm	17µm	3µm	1mm	0-100	lug back

Unit: mm



* Supplied with manufacturer inspection certificate

**INSPECTION
CERTIFICATE**

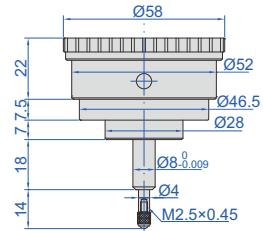
BACK PLUNGER DIAL INDICATOR

INSIZE PLUS
MADE IN EUROPE


2893-3

- With limit pointers
- Optional accessory: contact points (page 250~252)

Unit: mm



* Supplied with manufacturer inspection certificate

**INSPECTION
CERTIFICATE**
SHOCK
PROOFIP67
WATERPROOF

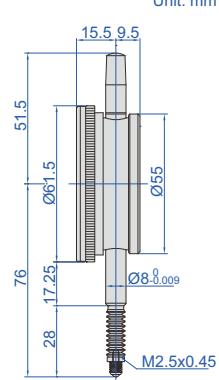
WATERPROOF DIAL INDICATOR

INSIZE PLUS
MADE IN EUROPE


2894-10F

- Meet DIN878
- Shockproof
- IP67 dust/waterproof
- With limit pointers
- Optional accessory: contact points (page 250~252)

Unit: mm



Code	Range	Graduation	Accuracy	Hysteresis	Range/rev	Dial reading	Remark
2894-10F *	10mm	0.01mm	17µm	3µm	1mm	0-100	flat back

* Supplied with manufacturer inspection certificate

WATERPROOF DIAL INDICATORS

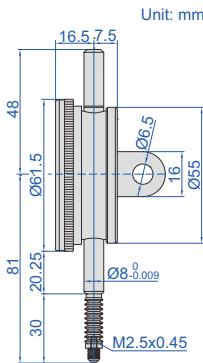
IP54
WATERPROOF

**INSPECTION
CERTIFICATE**

- Meet DIN878
- IP54 dust/waterproof
- With limit pointers
- Optional accessory: backs (page 253~254), contact points (page 250~252)



2324-10A



Code	Range	Graduation	Accuracy	Hysteresis	Range/rev	Dial reading	Remark
2324-10FA *	10mm	0.01mm	17µm	3µm	1mm	0-100	flat back
2324-10A *	10mm	0.01mm	17µm	3µm	1mm	0-100	lug back

* Supplied with manufacturer inspection certificate

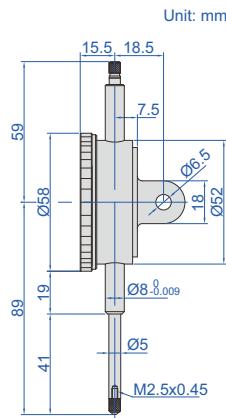
DIAL INDICATORS (LONG STROKE)

INSIZE PLUS
MADE IN EUROPE

**INSPECTION
CERTIFICATE**



2889-30



- With limit pointers
- Optional accessory: backs (page 253~254), contact points (page 250~252)

11

Code	Range	Graduation	Accuracy	Hysteresis	Range/rev	Dial reading	Remark
2889-30 *	30mm	0.01mm	35µm	7µm	1mm	0-100	lug back
2889-30F *	30mm	0.01mm	35µm	7µm	1mm	0-100	flat back

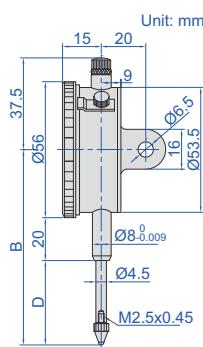
* Supplied with manufacturer inspection certificate

DIAL INDICATORS (LONG STROKE)

**INSPECTION
CERTIFICATE**



2310-30A



- Supplied with limit pointers and bezel clamp
- Optional accessory: backs (page 253~254), contact points (page 250~252)

* Supplied with manufacturer inspection certificate

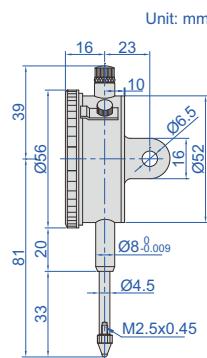
DIAL INDICATORS (LONG STROKE, BASIC TYPE)

INSPECTION
CERTIFICATEPOPULAR
MODEL

- Supplied with limit pointers and bezel clamp
- Packed in carton box
- Optional accessory: backs (page 253~254), contact points (page 250~252)



2302-25



* Supplied with manufacturer inspection certificate

JEWELLED
BEARINGINSPECTION
CERTIFICATE

- Meet DIN878
- Read from both sides
- Jeweled bearing
- Supplied with limit pointers
- Optional accessory: contact points (page 250~252)

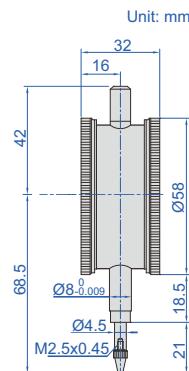


front



2328-10

DOUBLE FACE DIAL INDICATOR



* Supplied with manufacturer inspection certificate

11

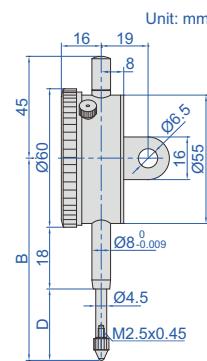
DIAL INDICATORS (GRADUATION 0.1mm)



2318-30

- Supplied with limit pointers and bezel clamp
- Optional accessory: backs (page 253~254), contact points (page 250~252)

Code	Range	Graduation	Accuracy	Hysteresis	Range/rev	Dial reading	Remark	B	D	(mm)
2318-10F	10mm	0.1mm	40µm	20µm	10mm	0-10	flat back	70	20	
2318-20F	20mm	0.1mm	50µm	20µm	10mm	0-10	flat back	85	35	
2318-25F	25mm	0.1mm	60µm	20µm	10mm	0-10	flat back	85	35	
2318-30F	30mm	0.1mm	60µm	20µm	10mm	0-10	flat back	90	40	
2318-10	10mm	0.1mm	40µm	20µm	10mm	0-10	lug back	70	20	
2318-20	20mm	0.1mm	50µm	20µm	10mm	0-10	lug back	85	35	
2318-25	25mm	0.1mm	60µm	20µm	10mm	0-10	lug back	85	35	
2318-30	30mm	0.1mm	60µm	20µm	10mm	0-10	lug back	90	40	



DIAL INDICATORS (LONG STROKE)



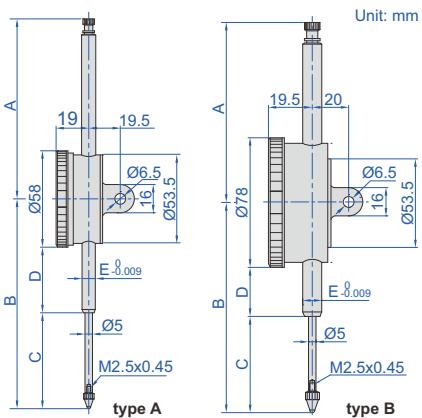
JEWELLED BEARING

SHOCK PROOF

- Shockproof
- Jeweled bearing
- Supplied with limit pointers
- Optional accessory: backs (page 253~254), contact points (page 250~252)



2309-50



stem clamp Ø10mm for 2309-100D



back of type B



Code	Type	A	B	C	D	E	(mm)
2309-30F *	A	37.5	89.5	40.9	19.5	Ø8	
2309-30 *	A	37.5	89.5	40.9	19.5	Ø8	
2309-50 *	A	108.3	126.2	57.7	39.5	Ø8	
2309-50D	B	108.3	126.2	57.7	29.5	Ø8	
2309-80	A	138.4	168.4	88	51.3	Ø8	
2309-80D	B	138.4	168.4	88	41.3	Ø8	
2309-100D	B	167.6	207.8	108	60.8	Ø10	

Code	Range	Graduation	Type	Accuracy	Hysteresis	Range/rev	Dial reading	Remark
2309-30F *	30mm	0.01mm	A	35µm	7µm	1mm	0-100	flat back
2309-30 *	30mm	0.01mm	A	35µm	7µm	1mm	0-100	lug back
2309-50 *	50mm	0.01mm	A	40µm	8µm	1mm	0-100	flat back with spare lug back
2309-50D *	50mm	0.01mm	B	40µm	8µm	1mm	0-100	flat back with spare lug back
2309-80	80mm	0.01mm	A	50µm	9µm	1mm	0-100	flat back with spare lug back
2309-80D	80mm	0.01mm	B	50µm	9µm	1mm	0-100	flat back with spare lug back
2309-100D	100mm	0.01mm	B	50µm	9µm	1mm	0-100	flat back with spare lug back

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Note: 1) 2309-80, 2309-80D and 2309-100D can only be used vertically

2) 2309-100D is supplied with stem clamp Ø10mm for magnetic stands (code 6200-60, 6201-60, 6202-80, 6202-100)

3) 2309-30 and 2309-30F can not accept optional backs (page 253~254)

* Supplied with manufacturer inspection certificate

ONE REVOLUTION PRECISION DIAL INDICATORS

INSIZE PLUS
MADE IN EUROPE

SHOCK
PROOF

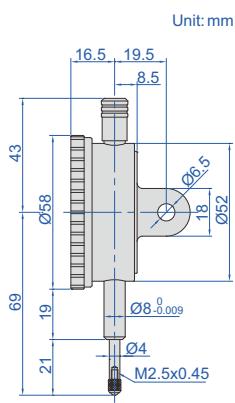
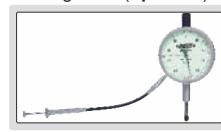
INSPECTION
CERTIFICATE

- Eliminate the possibility of reading errors due to miscounting
- Shockproof
- Jeweled bearing
- Free stroke: 4.5mm
- With limit pointers
- Optional accessory: backs (page 253~254), contact points (page 250~252), lifting lever (code 6289-150)



2885-008

lifting lever (optional)



Code	Range	Graduation	Accuracy	Hysteresis	Dial reading	Remark
2885-008 *	0.08mm	0.001mm	3µm	1.5µm	40-0-40	lug back
2885-008F *	0.08mm	0.001mm	3µm	1.5µm	40-0-40	flat back

* Supplied with manufacturer inspection certificate

SHOCK
PROOFINSPECTION
CERTIFICATE

ONE REVOLUTION DIAL INDICATORS

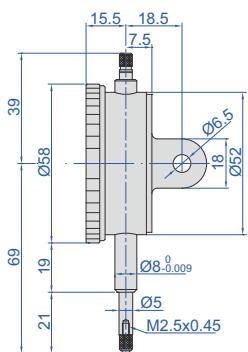
INSIZE PLUS
MADE IN EUROPE

- Meet DIN878
- Eliminate the possibility of reading errors due to miscounting
- Shockproof
- Free stroke: 7mm
- With limit pointers
- Optional accessory: backs (page 253~254), contact points (page 250~252)



2882-08

Unit: mm



* Supplied with manufacturer inspection certificate

SHOCK
PROOFINSPECTION
CERTIFICATE

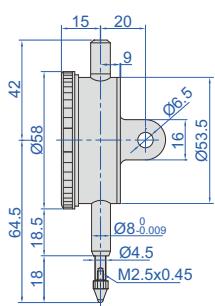
ONE REVOLUTION DIAL INDICATORS

- Meet DIN878
- Eliminate the possibility of reading errors due to miscounting
- Shockproof
- Supplied with limit pointers
- Optional accessory: backs (page 253~254), contact points (page 250~252)



2316-05

Unit: mm



* Supplied with manufacturer inspection certificate

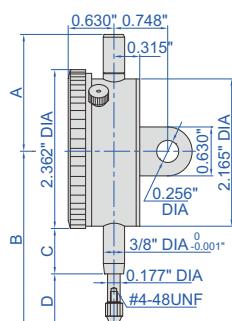
INSPECTION
CERTIFICATE

INCH DIAL INDICATORS

- Meet ASME B89.1.10M-2001
- With lug back
- Supplied with limit pointers and bezel clamp
- Optional accessory: backs (page 253~254), contact points (page 250~252)



2307-1



Code	Range	Graduation	Accuracy		Range/rev	Dial reading
			First 2.5 rev	Overall		
2307-025 *	0.25"	0.001"	±0.001"	±0.001"	0.1"	0-100
2307-05 *	0.5"	0.001"	±0.001"	±0.002"	0.1"	0-100
2307-1 *	1"	0.001"	±0.001"	±0.002"	0.1"	0-100
2307-2 *	2"	0.001"	±0.001"	±0.004"	0.1"	0-100
2307-0255 *	0.25"	0.0005"	±0.0005"	±0.0015"	0.05"	0-50
2307-055 *	0.5"	0.0005"	±0.0005"	±0.0015"	0.05"	0-50
2307-105 *	1"	0.0005"	±0.0005"	±0.002"	0.05"	0-50
2307-205 *	2"	0.0005"	±0.0005"	±0.002"	0.05"	0-50

* Supplied with manufacturer inspection certificate

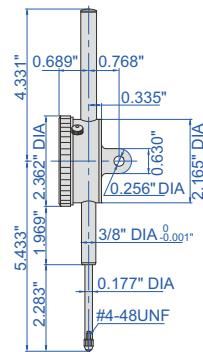
Range	A	B	C	D
0.25"	1.811"	2.953"	0.787"	0.984"
0.5"	1.811"	2.953"	0.787"	0.984"
1"	1.811"	3.346"	0.787"	1.378"
2"	4.370"	5.472"	1.969"	2.323"

INCH LONG STROKE DIAL INDICATOR



- Graduation 0.001"
- With lug back
- Supplied with limit pointers and bezel clamp
- Optional accessory: backs (page 253~254), contact points (page 250~252)

2326-2

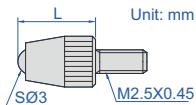


* Supplied with manufacturer inspection certificate

BALL POINTS



6282-0101

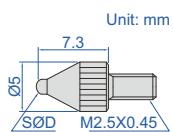


Code	Accuracy		Range/rev	Dial reading	
	first 2.5 rev	overall			
2326-2*	2"	±0.001"	±0.004"	0.1"	0-100

Code	Material of measuring face	L (mm)
6282-0111	carbide	19.3
6282-0112	carbide	20
6282-0113	ceramic	20
6282-0114	carbide	22
6282-0115	carbide	25
6282-0116	ceramic	25
6282-0117	carbide	30
6282-0118	ceramic	30



6282-0301



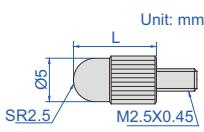
Code	Material of measuring face	L (mm)
6282-0301	steel	1

Code	Material of measuring face	SØD (mm)
6282-0301	steel	1
6282-0302	carbide	1.5
6282-0303	carbide	1.8
6282-0304	carbide	2.5
6282-0305	carbide	4

SHELL TYPE POINTS



6282-0202



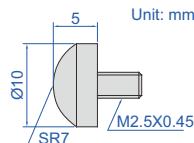
Code	Material of measuring face	L (mm)
6282-0202	steel	5
6282-0203	steel	10
6282-0205	steel	15

Code	Material of measuring face	L (mm)
6282-0207	steel	20
6282-0208	steel	25
6282-0210	steel	30

SPHERICAL POINT

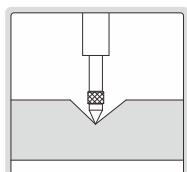


6282-0401



Code	Material of measuring face
6282-0401	steel

CONICAL POINTS



6282-0601



6282-0701

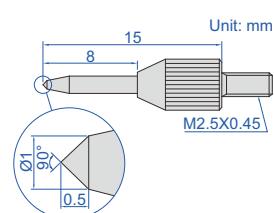
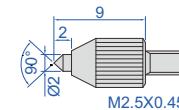
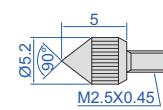
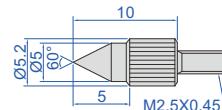


6282-0801

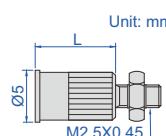


6282-0901

Code	Material of measuring face
6282-0601	steel
6282-0701	steel
6282-0801	steel
6282-0901	steel



FLAT POINTS



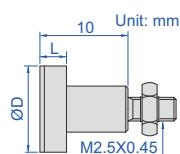
6282-1101

Code	Material of measuring face	L (mm)
6282-1101	steel	8
6282-1102	steel	10



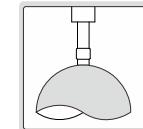
6282-1301

Code	Material of measuring face
6282-1301	carbide

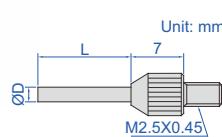


6282-1201

Code	Material of measuring face	ØD	L
6282-1201	steel	10mm	3mm
6282-1202	steel	15mm	4mm
6282-1203	steel	20mm	3mm
6282-1204	steel	25mm	4mm
6282-1205	steel	30mm	4mm



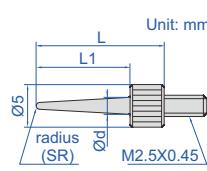
NEEDLE POINTS



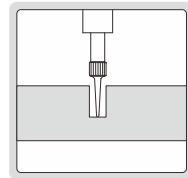
6282-1711

Code	Material of measuring face	ØD	L	(mm)
6282-1701	steel	0.45	3	
6282-1702	steel	0.45	5	
6282-1703	carbide	1	3	
6282-1704	carbide	1	5	
6282-1705	carbide	1	8	
6282-1706	carbide	1	10	
6282-1707	carbide	1	20	
6282-1708	carbide	1	40	
6282-1709	carbide	1.5	5	

Code	Material of measuring face	ØD	L	(mm)
6282-1710	carbide	1.5	10	
6282-1711	carbide	1.5	13	
6282-1712	carbide	1.5	20	
6282-1713	carbide	1.5	40	
6282-1714	carbide	2	8	
6282-1715	carbide	2	18	
6282-1716	carbide	2	28	
6282-1717	carbide	2	40	



6282-1601



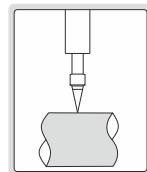
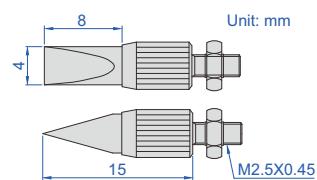
Code	Material of measuring face	L1	L	SR	Ød	(mm)
6282-1601	steel	11	15	0.4	2	
6282-1602	steel	13	17	0.2	2	
6282-1603	steel	21	25	0.4	3	
6282-1604	steel	31	35	0.4	3	

KNIFE EDGE POINT

Code	Material of measuring face
6282-1001	steel



6282-1001

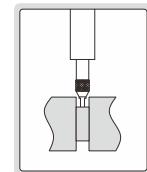
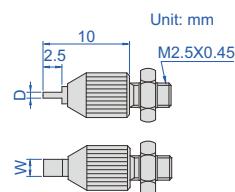


BLADE POINTS

Code	Material of measuring face	D	W
6282-1801	steel	0.4mm	2mm
6282-1802	steel	0.6mm	2mm
6282-1803	steel	1mm	4mm

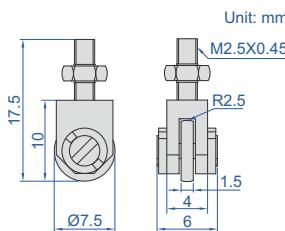


6282-1801



ROLLER POINT

Code	Material of measuring face
6282-1901	steel



6282-1901

EXTENSION RODS

11

Code	Material	L (mm)
6282-2001	steel	10
6282-2002	steel	15
6282-2003	steel	20
6282-2004	steel	25
6282-2005	steel	30
6282-2006	steel	35
6282-2007	steel	40
6282-2008	steel	45
6282-2009	steel	50

Code	Material	L (mm)
6282-2010	steel	55
6282-2011	steel	60
6282-2012	steel	65
6282-2013	steel	70
6282-2014	steel	75
6282-2015	steel	80
6282-2016	steel	90
6282-2017	steel	100



6282-2010

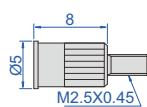


POINT SET

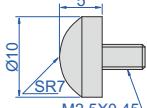


6282-S6

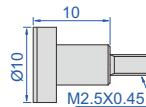
Code	Material of measuring face
6282-S6	steel



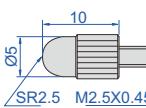
flat point



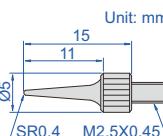
spherical point



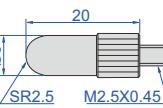
needle point



shell type point



needle point



shell type point

SPINDLE LIFT KNOB

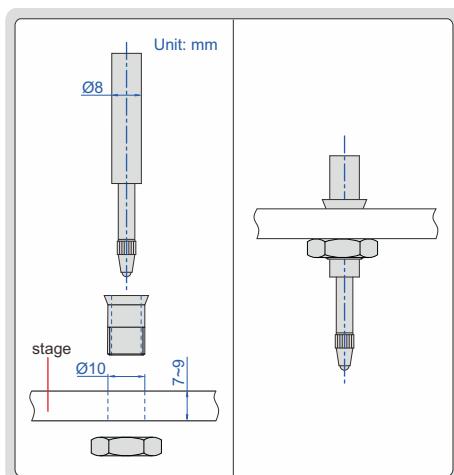
- For dial/digital indicators with spindle diameter Ø4.5mm or Ø5mm

Code
7332



7332

SHAFT SLEEVE

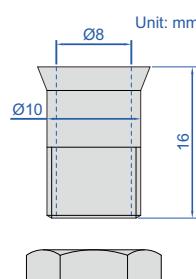


- For dial indicators and probes with shaft diameter Ø8mm

Code
7333



7333



MAGNETIC BACKS

11

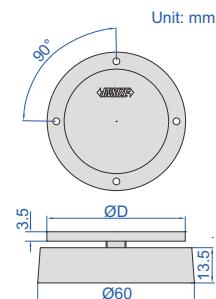
Code	ØD	For digital/dial indicators
7331-M1	51.5mm	2103
		2104
		2108
		2109
		2112
		2115
		2116
		2117
		2118
		2138
		2139
		2501
		2301
		2302
		2308
		2309 (except 2309-30, 2309-30F)
		2313
		2314
		2316
		2324
		2801
7331-M2	54mm	2318



front

back

7331-M2



FLAT BACKS

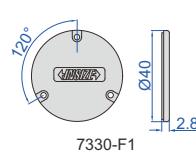
Code	For digital/ dial indicators
7330-F1	2311
7330-F2	2301
	2302
	2308
	2309 (except 2309-30, 2309-30F)
	2313
	2314
	2316
	2324
	2801
	2103
7330-F5	2104
	2108
	2109
	2112
	2115
	2116
	2117
	2118
	2138
	2139
	2501
	2137



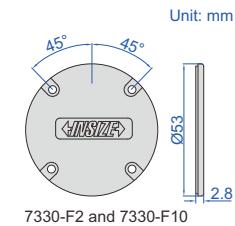
7330-F2



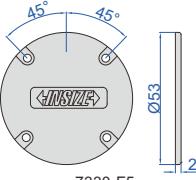
7330-F8



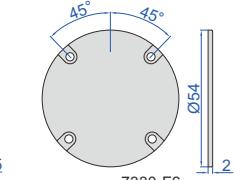
7330-F1



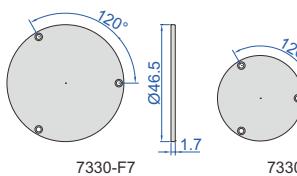
7330-F2 and 7330-F10



7330-F5



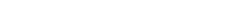
7330-F6



7330-F7



7330-F8



7330-F9



7330-F10

LUG BACKS

11

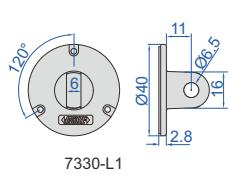
Code	For digital/ dial indicators
7330-L1	2311
7330-L2	2301
	2302
	2308
	2309 (except 2309-30, 2309-30F)
	2313
	2314
	2316
	2324
	2801
	2103
7330-L5	2104
	2108
	2109
	2112
	2115
	2116
	2117
	2118
	2138
	2139
	2501
	2137



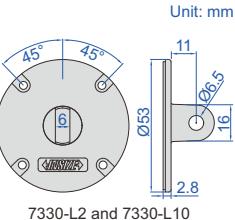
7330-L2



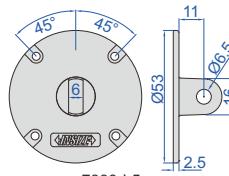
7330-L8



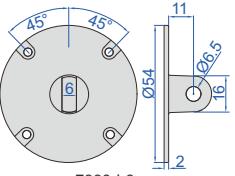
7330-L1



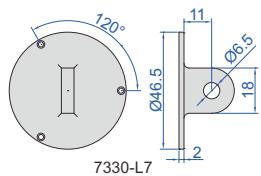
7330-L2 and 7330-L10



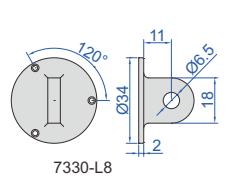
7330-L5



7330-L6



7330-L7



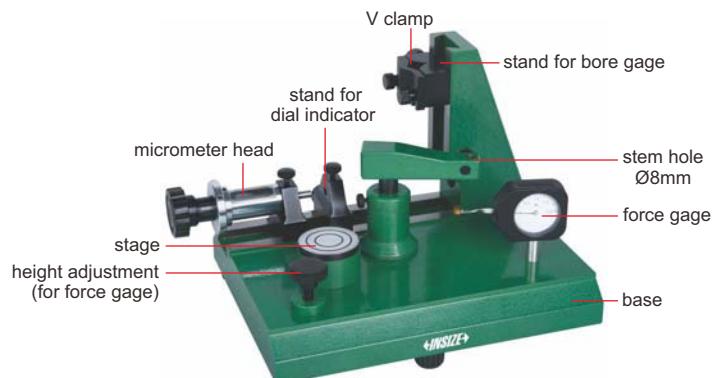
7330-L8

DIAL INDICATOR TESTER CODE 2396-25A

ATTENTION: NOT SUITABLE FOR DIAL INDICATORS WITH GRADUATION 0.001MM



- To calibrate dial indicators, test indicators and dial bore gages
- Dimension: 270x210x205mm
- Weight: 11kg



2396-25A

Micrometer head

Range	Sampling interval	Accuracy	Hysteresis
0-25mm	0.1mm	4µm (0-25mm), 3µm (0-10mm), 2µm (0-1mm)	1µm

Force gage

Range	Graduation	Accuracy
0-1.6N	0.05N	±5% (of load capacity)

Stage

Diameter	Flatness	Roughness
50mm	1µm	0.05µm



inspect accuracy of dial indicators (range 0-25mm)



inspect accuracy of dial bore gages (range 6-450mm)



inspect accuracy of test indicators



check force of dial indicators



check repeatability of dial indicators



check the effect of lateral force on accuracy of dial indicators
(half round gage block is required)



check the effect of lateral force on accuracy of test indicators
(half round gage block is required)

Half round gage block (optional)

Code	Parallelism
2396-block	1µm

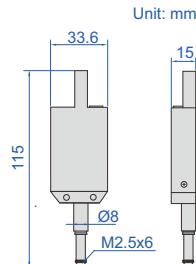


half round gage block
code 2396-block (optional)

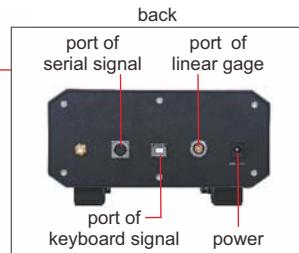
LINEAR GAGES AND DISPLAY UNIT



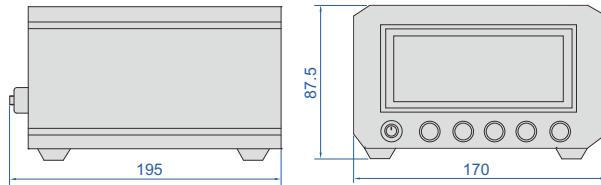
**linear gage
7131-01**



**display unit
7131-1A**



Unit: mm



application



LINEAR GAGE SPECIFICATION

Code	7131-01	7131-02
Range	12.5mm	12.5mm
Resolution	0.1µm	1µm
Accuracy (19~20°C)	1µm	3µm
Repeatability	0.2µm	2µm
Linear gage type	optical grating	
Working life	ten million times	
Dust/waterproof	IP50	
Measuring force	0.7±0.3N	
Cable length	900mm	
Operation environment	0~40°C, 20~80%RH	
Power supply	5~24V	
Dimension (L×W×H)	33.6×15×115mm	
Weight	133g	

DISPLAY UNIT SPECIFICATION

Code	7131-1A
Display	4" LCD screen
Unit	µm, mm, inch
Quantity of linear gage to be connected	1 pc
Dimension (L×W×H)	170×195×87.5mm
Weight	1.45kg

DIGITAL LINEAR GAGES



ABSOLUTE ENCODER, THE ORIGINAL DATA REMAINS AFTER POWER OFF

DUSTPROOF
WATERPROOF

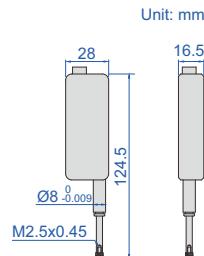


7130-10



7130-10L

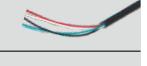
- Scale type: optical grating
- Absolute encoder, the original data remains after power off
- Digital signal output, amplifier is not required
- Measuring force: ≤1.5N
- Dust/waterproof: IP43/IP66
- Baud rate: 9600 (can be customized)
- Cable length: 3m (can be customized)



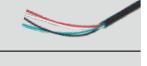
To be continued

Continued from previous page

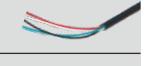
Dust/waterproof IP43, resolution 0.1µm

Code	Range	Repeatability	Accuracy	Outgoing cable direction	Output signal	Output interface
7130-10	0-12.5mm	0.5µm	1µm	horizontal	RS232, TTL level	
7130-10L	0-12.5mm	0.5µm	1µm	vertical	RS232, TTL level	
7130-11	0-12.5mm	0.5µm	1µm	horizontal	RS232, 232 level	
7130-11L	0-12.5mm	0.5µm	1µm	vertical	RS232, 232 level	
7130-12	0-12.5mm	0.5µm	1µm	horizontal	RS485 (VCC+5~12V)	
7130-12L	0-12.5mm	0.5µm	1µm	vertical	RS485 (VCC+5~12V)	
7130-13	0-12.5mm	0.5µm	1µm	horizontal	RS232, TTL level	
7130-13L	0-12.5mm	0.5µm	1µm	vertical	RS232, TTL level	
7130-14	0-12.5mm	0.5µm	1µm	horizontal	RS232, 232 level	
7130-14L	0-12.5mm	0.5µm	1µm	vertical	RS232, 232 level	

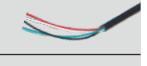
Dust/waterproof IP43, resolution 0.5µm

Code	Range	Repeatability	Accuracy	Outgoing cable direction	Output signal	Output interface
7130-20	0-12.5mm	1.5µm	3µm	horizontal	RS232, TTL level	
7130-20L	0-12.5mm	1.5µm	3µm	vertical	RS232, TTL level	
7130-21	0-12.5mm	1.5µm	3µm	horizontal	RS232, 232 level	
7130-21L	0-12.5mm	1.5µm	3µm	vertical	RS232, 232 level	
7130-22	0-12.5mm	1.5µm	3µm	horizontal	RS485 (VCC+5~12V)	
7130-22L	0-12.5mm	1.5µm	3µm	vertical	RS485 (VCC+5~12V)	
7130-23	0-12.5mm	1.5µm	3µm	horizontal	RS232, TTL level	
7130-23L	0-12.5mm	1.5µm	3µm	vertical	RS232, TTL level	
7130-24	0-12.5mm	1.5µm	3µm	horizontal	RS232, 232 level	
7130-24L	0-12.5mm	1.5µm	3µm	vertical	RS232, 232 level	

Dust/waterproof IP66, resolution 0.1µm

Code	Range	Repeatability	Accuracy	Outgoing cable direction	Output signal	Output interface
7130-30	0-12.5mm	0.5µm	1µm	horizontal	RS232, TTL level	
7130-30L	0-12.5mm	0.5µm	1µm	vertical	RS232, TTL level	
7130-31	0-12.5mm	0.5µm	1µm	horizontal	RS232, 232 level	
7130-31L	0-12.5mm	0.5µm	1µm	vertical	RS232, 232 level	
7130-32	0-12.5mm	0.5µm	1µm	horizontal	RS485 (VCC+5~12V)	
7130-32L	0-12.5mm	0.5µm	1µm	vertical	RS485 (VCC+5~12V)	
7130-33	0-12.5mm	0.5µm	1µm	horizontal	RS232, TTL level	
7130-33L	0-12.5mm	0.5µm	1µm	vertical	RS232, TTL level	
7130-34	0-12.5mm	0.5µm	1µm	horizontal	RS232, 232 level	
7130-34L	0-12.5mm	0.5µm	1µm	vertical	RS232, 232 level	

Dust/waterproof IP66, resolution 0.5µm

Code	Range	Repeatability	Accuracy	Outgoing cable direction	Output signal	Output interface
7130-40	0-12.5mm	1.5µm	3µm	horizontal	RS232, TTL level	
7130-40L	0-12.5mm	1.5µm	3µm	vertical	RS232, TTL level	
7130-41	0-12.5mm	1.5µm	3µm	horizontal	RS232, 232 level	
7130-41L	0-12.5mm	1.5µm	3µm	vertical	RS232, 232 level	
7130-42	0-12.5mm	1.5µm	3µm	horizontal	RS485 (VCC+5~12V)	
7130-42L	0-12.5mm	1.5µm	3µm	vertical	RS485 (VCC+5~12V)	
7130-43	0-12.5mm	1.5µm	3µm	horizontal	RS232, TTL level	
7130-43L	0-12.5mm	1.5µm	3µm	vertical	RS232, TTL level	
7130-44	0-12.5mm	1.5µm	3µm	horizontal	RS232, 232 level	
7130-44L	0-12.5mm	1.5µm	3µm	vertical	RS232, 232 level	

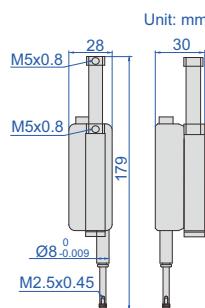
PNEUMATIC DIGITAL LINEAR GAGES



DUSTPROOF
WATERPROOF

ABSOLUTE ENCODER, THE ORIGINAL
DATA REMAINS AFTER POWER OFF

- Scale type: optical grating
- Absolute encoder, the original data remains after power off
- Digital signal output, amplifier is not required
- Air pressure: 0.2-0.5MPa
- Measuring force: ≤1.5N
- Dust/waterproof: IP43/IP66
- Baud rate: 9600 (can be customized)
- Cable length: 3m (can be customized)



7134-10L

Dust/waterproof IP43, resolution 0.1μm

Code	Range	Repeatability	Accuracy	Outgoing cable direction	Output signal	Output interface
7134-10	0-12.5mm	0.5μm	1μm	horizontal	RS232, TTL level	
7134-10L	0-12.5mm	0.5μm	1μm	vertical	RS232, TTL level	
7134-11	0-12.5mm	0.5μm	1μm	horizontal	RS232, 232 level	
7134-11L	0-12.5mm	0.5μm	1μm	vertical	RS232, 232 level	
7134-12	0-12.5mm	0.5μm	1μm	horizontal	RS485 (VCC+5~12V)	
7134-12L	0-12.5mm	0.5μm	1μm	vertical	RS485 (VCC+5~12V)	
7134-13	0-12.5mm	0.5μm	1μm	horizontal	RS232, TTL level	
7134-13L	0-12.5mm	0.5μm	1μm	vertical	RS232, TTL level	
7134-14	0-12.5mm	0.5μm	1μm	horizontal	RS232, 232 level	
7134-14L	0-12.5mm	0.5μm	1μm	vertical	RS232, 232 level	

Dust/waterproof IP43, resolution 0.5μm

Code	Range	Repeatability	Accuracy	Outgoing cable direction	Output signal	Output interface
7134-20	0-12.5mm	1.5μm	3μm	horizontal	RS232, TTL level	
7134-20L	0-12.5mm	1.5μm	3μm	vertical	RS232, TTL level	
7134-21	0-12.5mm	1.5μm	3μm	horizontal	RS232, 232 level	
7134-21L	0-12.5mm	1.5μm	3μm	vertical	RS232, 232 level	
7134-22	0-12.5mm	1.5μm	3μm	horizontal	RS485 (VCC+5~12V)	
7134-22L	0-12.5mm	1.5μm	3μm	vertical	RS485 (VCC+5~12V)	
7134-23	0-12.5mm	1.5μm	3μm	horizontal	RS232, TTL level	
7134-23L	0-12.5mm	1.5μm	3μm	vertical	RS232, TTL level	
7134-24	0-12.5mm	1.5μm	3μm	horizontal	RS232, 232 level	
7134-24L	0-12.5mm	1.5μm	3μm	vertical	RS232, 232 level	

Dust/waterproof IP66, resolution 0.1μm

Code	Range	Repeatability	Accuracy	Outgoing cable direction	Output signal	Output interface
7134-30	0-12.5mm	0.5μm	1μm	horizontal	RS232, TTL level	
7134-30L	0-12.5mm	0.5μm	1μm	vertical	RS232, TTL level	
7134-31	0-12.5mm	0.5μm	1μm	horizontal	RS232, 232 level	
7134-31L	0-12.5mm	0.5μm	1μm	vertical	RS232, 232 level	
7134-32	0-12.5mm	0.5μm	1μm	horizontal	RS485 (VCC+5~12V)	
7134-32L	0-12.5mm	0.5μm	1μm	vertical	RS485 (VCC+5~12V)	
7134-33	0-12.5mm	0.5μm	1μm	horizontal	RS232, TTL level	
7134-33L	0-12.5mm	0.5μm	1μm	vertical	RS232, TTL level	
7134-34	0-12.5mm	0.5μm	1μm	horizontal	RS232, 232 level	
7134-34L	0-12.5mm	0.5μm	1μm	vertical	RS232, 232 level	

To be continued

Continued from previous page

Dust/waterproof IP66, resolution 0.5μm

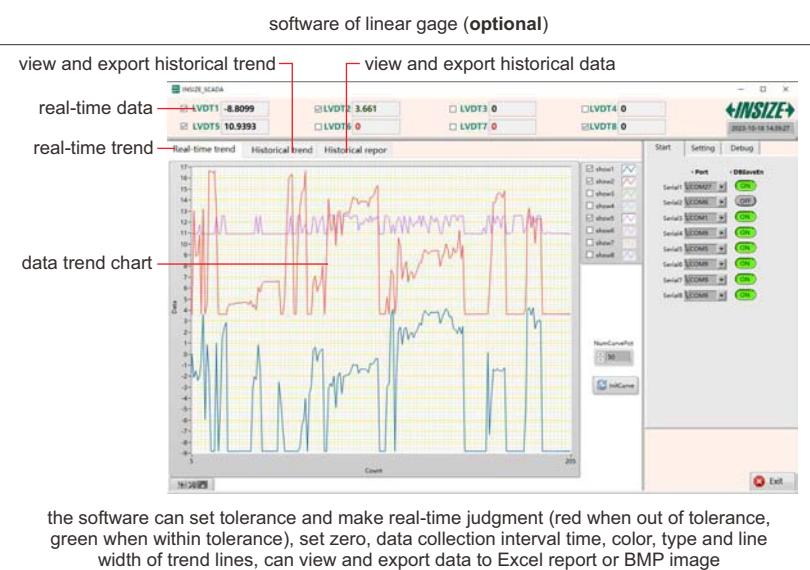
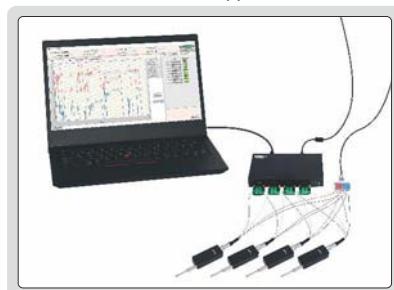
Code	Range	Repeatability	Accuracy	Outgoing cable direction	Output signal	Output interface
7134-40	0-12.5mm	1.5μm	3μm	horizontal	RS232, TTL level	
7134-40L	0-12.5mm	1.5μm	3μm	vertical	RS232, TTL level	
7134-41	0-12.5mm	1.5μm	3μm	horizontal	RS232, 232 level	
7134-41L	0-12.5mm	1.5μm	3μm	vertical	RS232, 232 level	
7134-42	0-12.5mm	1.5μm	3μm	horizontal	RS485 (VCC+5~12V)	
7134-42L	0-12.5mm	1.5μm	3μm	vertical	RS485 (VCC+5~12V)	
7134-43	0-12.5mm	1.5μm	3μm	horizontal	RS232, TTL level	
7134-43L	0-12.5mm	1.5μm	3μm	vertical	RS232, TTL level	
7134-44	0-12.5mm	1.5μm	3μm	horizontal	RS232, 232 level	
7134-44L	0-12.5mm	1.5μm	3μm	vertical	RS232, 232 level	

MULTICHANNEL INTERFACE BOXES OF LINEAR GAGES



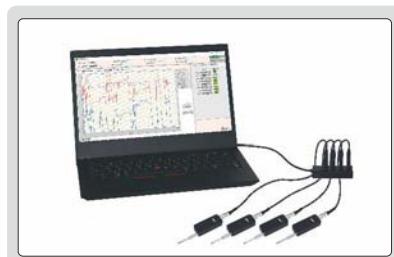
- Can be connected with 7130 or 7134 series linear gages
- Optional accessory: software of linear gage (code: 7130-SOFTWARE, 8 linear gages can be connected simultaneously)

7212-4A application



11

7324-HUB4 application



SPECIFICATION

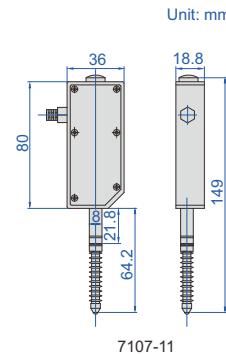
Code	7212-4A	7212-8A	7324-HUB4	7324-HUB7
Quantity of linear gages	4	8	4	7
Applicable linear gages	7130-12, 7130-12L, 7130-22, 7130-22L, 7130-32, 7130-32L, 7130-42, 7130-42L, 7134-12, 7134-12L, 7134-22, 7134-22L, 7134-32, 7134-32L, 7134-42, 7134-42L		7130-10, 7130-10L, 7130-20, 7130-20L, 7130-30, 7130-30L, 7130-40, 7130-40L, 7134-10, 7134-10L, 7134-20, 7134-20L, 7134-30, 7134-30L, 7134-40, 7134-40L	
Type of linear gage	RS485 protocol		RS232 protocol	
Type of output	USB		USB	

LINEAR GAGES

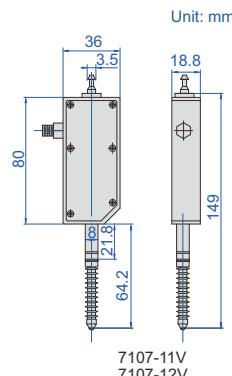
LINEAR GAGE
IP65
WATERPROOF



7107-12

7107-11
7107-12

7107-12V

7107-11V
7107-12V

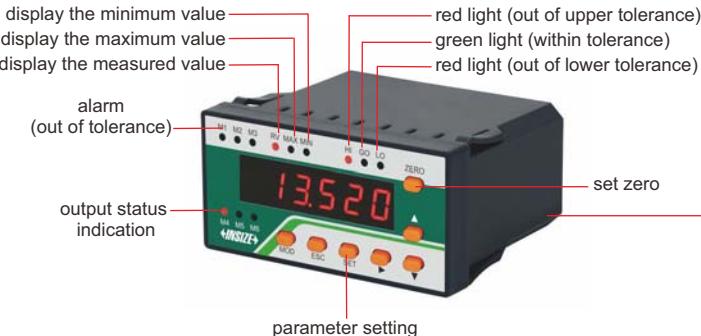
- Capacitance type linear encoder
- Shock-proof, water proof, dust proof, suitable for high speed movement, long working life
- Optional: display unit 7106-1A, multichannel interface box 7107-1 or 7107-2

SPECIFICATION

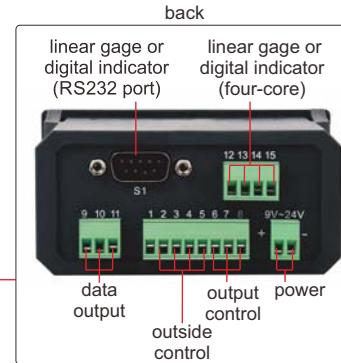
Code	7107-11	7107-12	7107-11V	7107-12V
Measuring range	12mm/0.47"	12mm/0.47"	12mm/0.47"	12mm/0.47"
Resolution	0.01mm/0.0004"	0.001mm/0.00004"	0.01mm/0.0004"	0.001mm/0.00004"
Accuracy	20µm	5µm	20µm	5µm
Hysteresis	10µm	2µm	10µm	2µm
Driving type	spring		pneumatic	
Measuring force	1.5N		adjusted by air pressure	
Measuring principle	capacitance type linear encoder			
Voltage	5V			
Sampling frequency	100 times/sec			
Working life	ten million times			
Dust/waterproof	IP65			
Cable length	2m			
Data output	RS232			



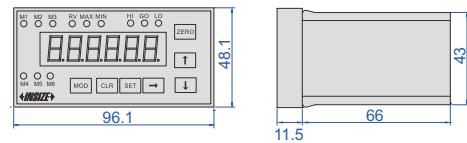
DISPLAY UNIT FOR CAPACITANCE LINEAR GAGES CODE 7106-1A



7106-1A



Unit: mm

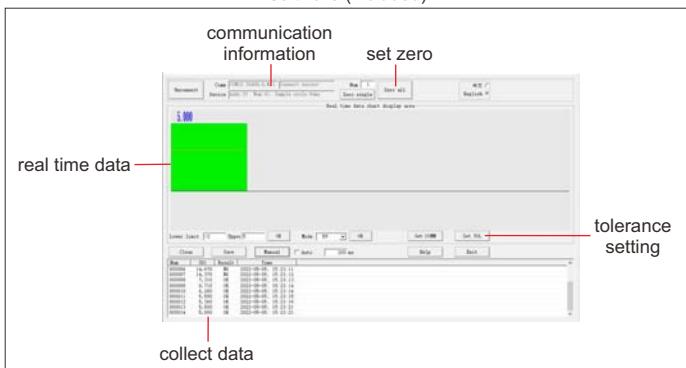


connected with 7107-11, 7107-12,
7107-11V or 7107-12V linear gage



11

software (included)



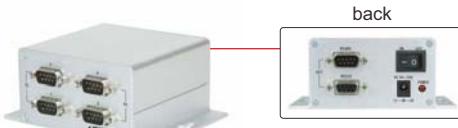
connected with digital indicator
(data cable 7309-C01M is needed)



SPECIFICATION

Display	6 digits
Quantity of linear gage or digital indicator to be connected	1 pc
Tolerance	set tolerance and make judgment with alarm and lights (out of upper tolerance, within tolerance, out of lower tolerance)
Output control	output the tolerance judgment (out of upper tolerance, within tolerance, out of lower tolerance) to control outside devices
Outside control	control the display units from outside (set zero, hold reading and collect data)
Data output	connect to computer software and serial communication
Power supply	DC 9~24V

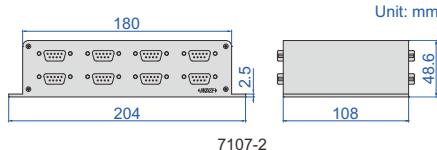
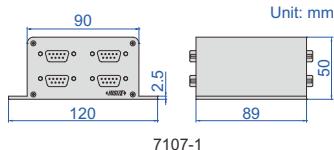
MULTICHANNEL INTERFACE BOXES FOR CAPACITANCE LINEAR GAGES



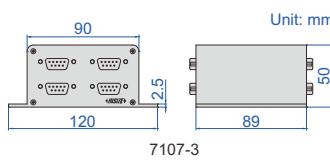
7107-1



7107-2

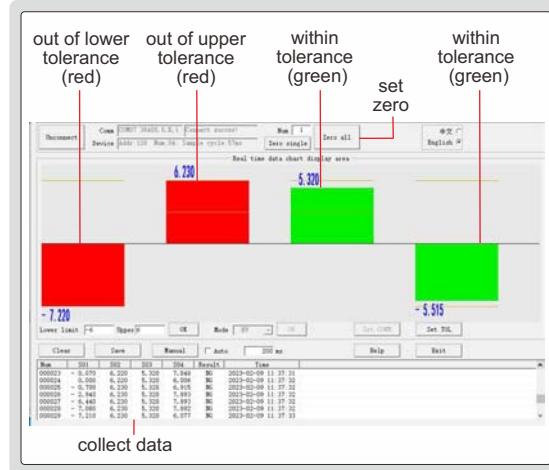


7107-3

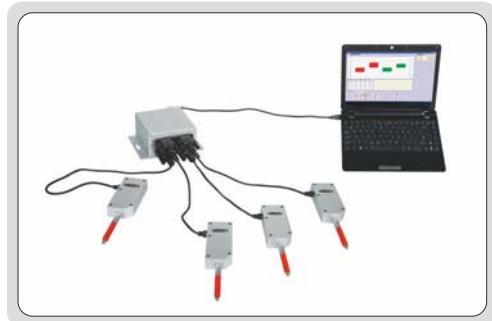


- Can be connected with **7107-11**, **7107-12**, **7107-11V** or **7107-12V** linear gages, can also be connected with digital indicators (data cable **7309-C01M** is needed)
- Connection box (code: **7107-3**) is needed to connect interface boxes, when two or more interface boxes are used. Maximum 4 interface boxes can be connected.
- Software of interface boxes (included): in the software, it is possible to set tolerance of each channel and show judgment (red when out of tolerance, green when within tolerance), set zero, collect data manually or automatically (time is adjustable), output data to Excel, print report.

software (included)



connected with **7107-11**, **7107-12**, **7107-11V** or **7107-12V** linear gages



INTERFACE BOX SPECIFICATION

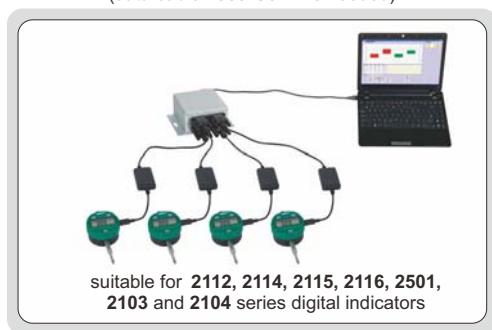
Code	7107-1	7107-2
Quantity of linear gages or digital indicators to be connected	4 pcs	8 pcs
Data output	RS232 and RS485	
Power supply	DC 9~24V	

connected with digital indicators
(data cable **7309-C01M** is needed)

CONNECTION BOX (OPTIONAL) SPECIFICATION

Code	7107-3
Quantity of interface boxes to be connected	4 pcs (maximum 4 interface boxes can be connected)
Data output	RS232 and RS485
Power supply	DC 9~24V

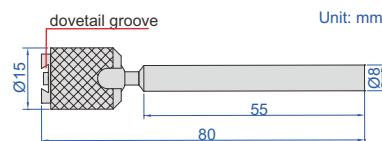
suitable for **2112**, **2114**, **2115**, **2116**, **2501**, **2103** and **2104** series digital indicators



DIAL TEST INDICATOR UNIVERSAL HOLDER



6297-1



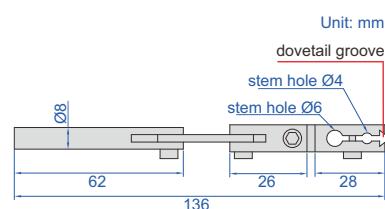
Code
6297-1

- Set the indicators at the desired attitude to the workpiece

DIAL TEST INDICATOR HOLDER



6296-1



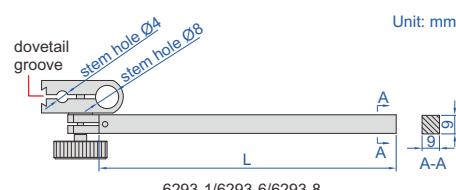
Code
6296-1

- Supplied with hex key

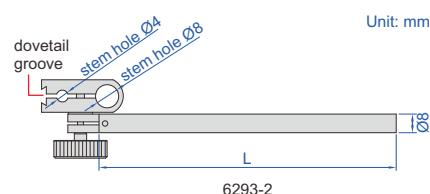
DIAL TEST INDICATOR HOLDERS



6293-1



6293-2



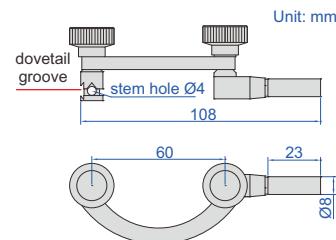
Code	Stem section	Stem length (L)
6293-1	9x9mm	100mm
6293-6	9x9mm	50mm
6293-8 *	9x9mm	200mm
6293-2	Ø8mm	115mm

* Only apply for 0.01mm dial test indicator



DIAL TEST INDICATOR HOLDER

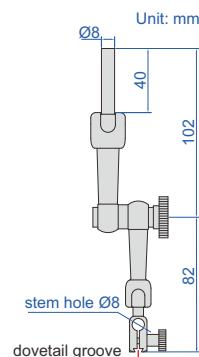
- Can be used with dial test indicators



Code
6291-1

DIAL TEST INDICATOR HOLDER

- Can be used with dial test indicators

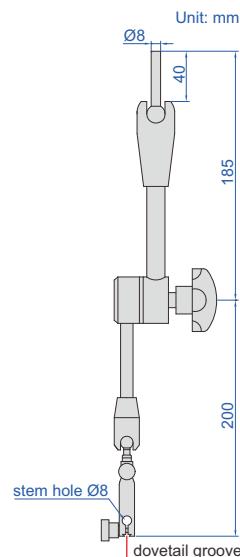


Code
6295-1A

11

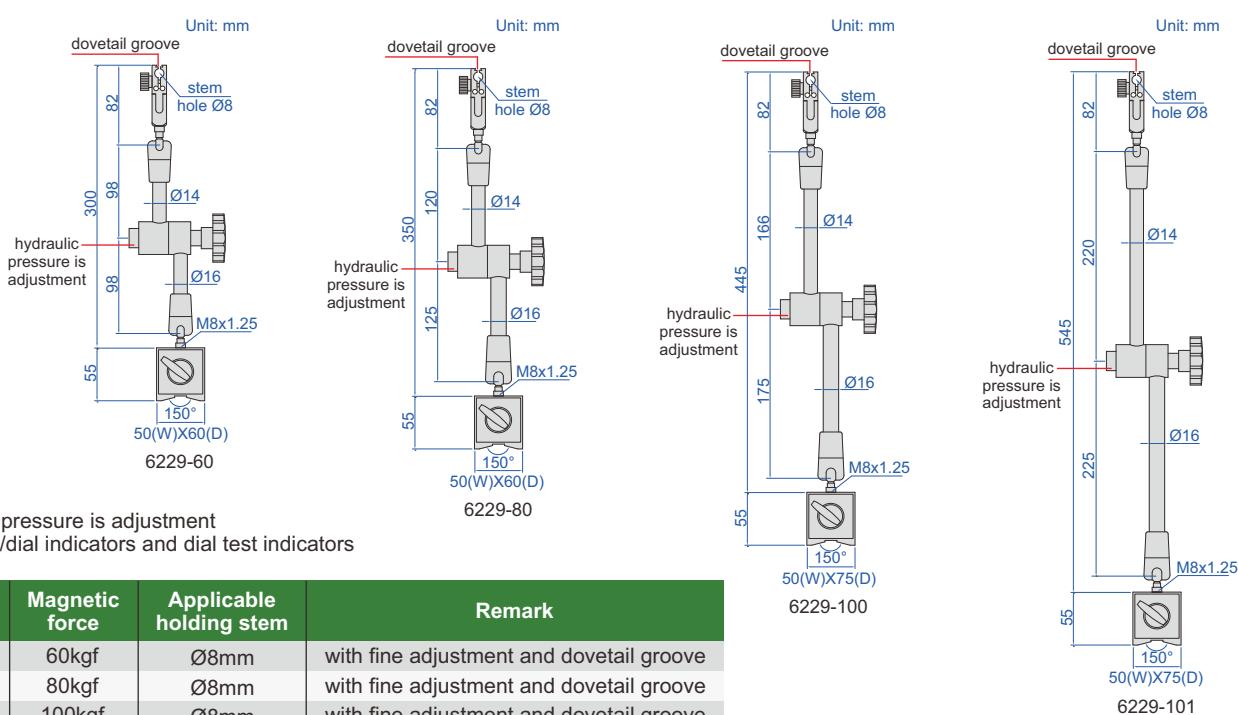
DIAL INDICATOR HOLDER

- Can be used with dial test indicators or dial indicators



Code
6294-1A

HYDRAULIC UNIVERSAL MAGNETIC STANDS

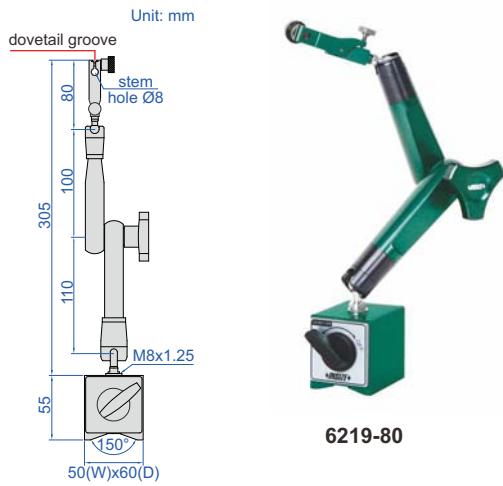


- Hydraulic pressure is adjustment
- For digital/dial indicators and dial test indicators

Code	Magnetic force	Applicable holding stem	Remark
6229-60	60kgf	Ø8mm	with fine adjustment and dovetail groove
6229-80	80kgf	Ø8mm	with fine adjustment and dovetail groove
6229-100	100kgf	Ø8mm	with fine adjustment and dovetail groove
6229-101	100kgf	Ø8mm	with fine adjustment and dovetail groove

11

LARGE LOCKING FORCE MAGNETIC STAND

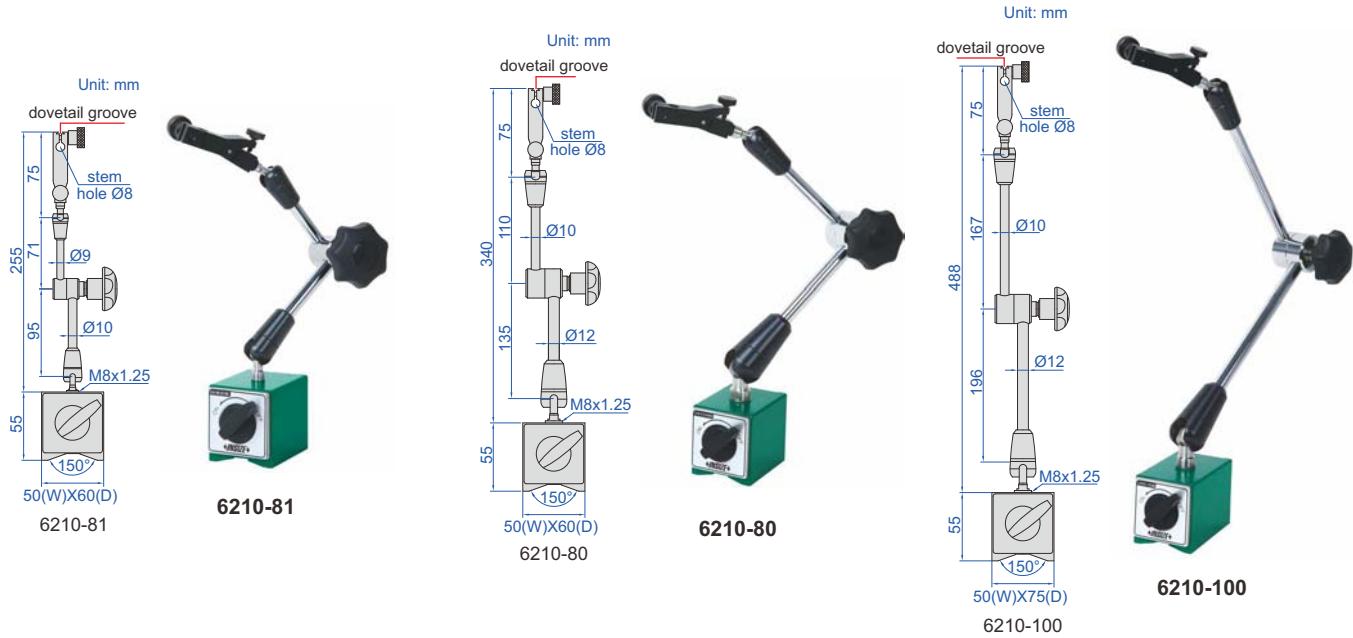


- For digital/dial indicators and dial test indicators

Code	Magnetic force	Applicable holding stem	Remark
6219-80	80kgf	Ø8mm	with fine adjustment and dovetail groove

UNIVERSAL MAGNETIC STANDS

POPULAR MODEL



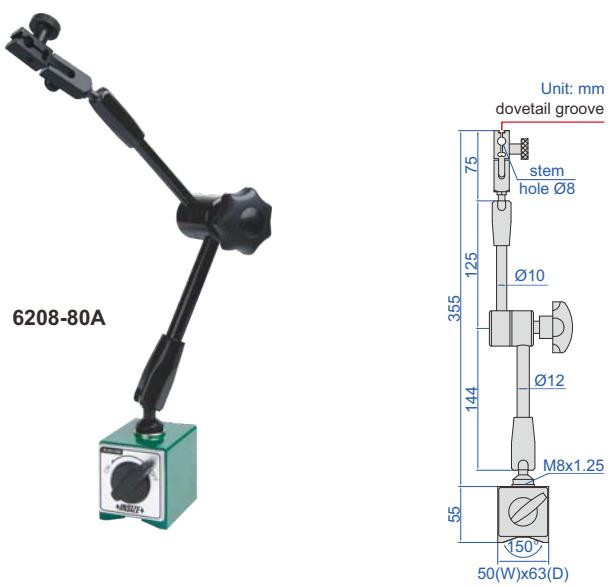
- For digital/dial indicators and dial test indicators

11

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

UNIVERSAL MAGNETIC STAND
(ECONOMIC TYPE)ATTENTION: LOW
LOCKING FORCE

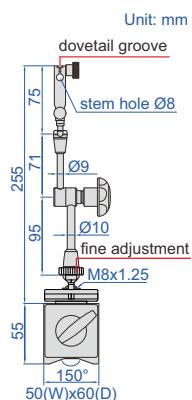
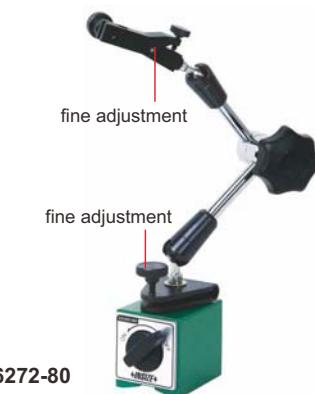
- For digital/dial indicators and dial test indicators



Code	Magnetic force	Applicable holding stem	Remark
6208-80A	80kgf	Ø8mm	with fine adjustment and dovetail groove

MAGNETIC STAND WITH TWO FINE ADJUSTMENTS

- With two fine adjustments on the head and on the base
- For digital/dial indicators and dial test indicators

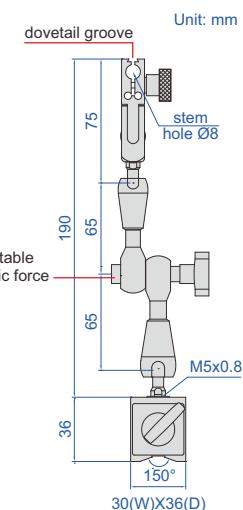


Code	Magnetic force	Applicable holding stem	Remark
6272-80	80kgf	Ø8mm	with two fine adjustments and dovetail groove

6272-80

HYDRAULIC MINI MAGNETIC STAND

- For dial test indicators
- With fine adjustment and dovetail groove
- Adjustable hydraulic force



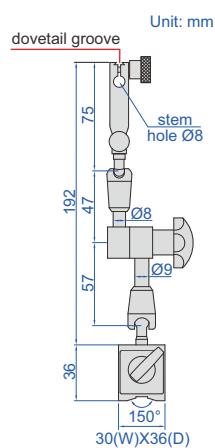
Code	Magnetic force	Applicable holding stem
6228-40	40kgf	Ø8mm

6228-40

11

MINI MAGNETIC STAND

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



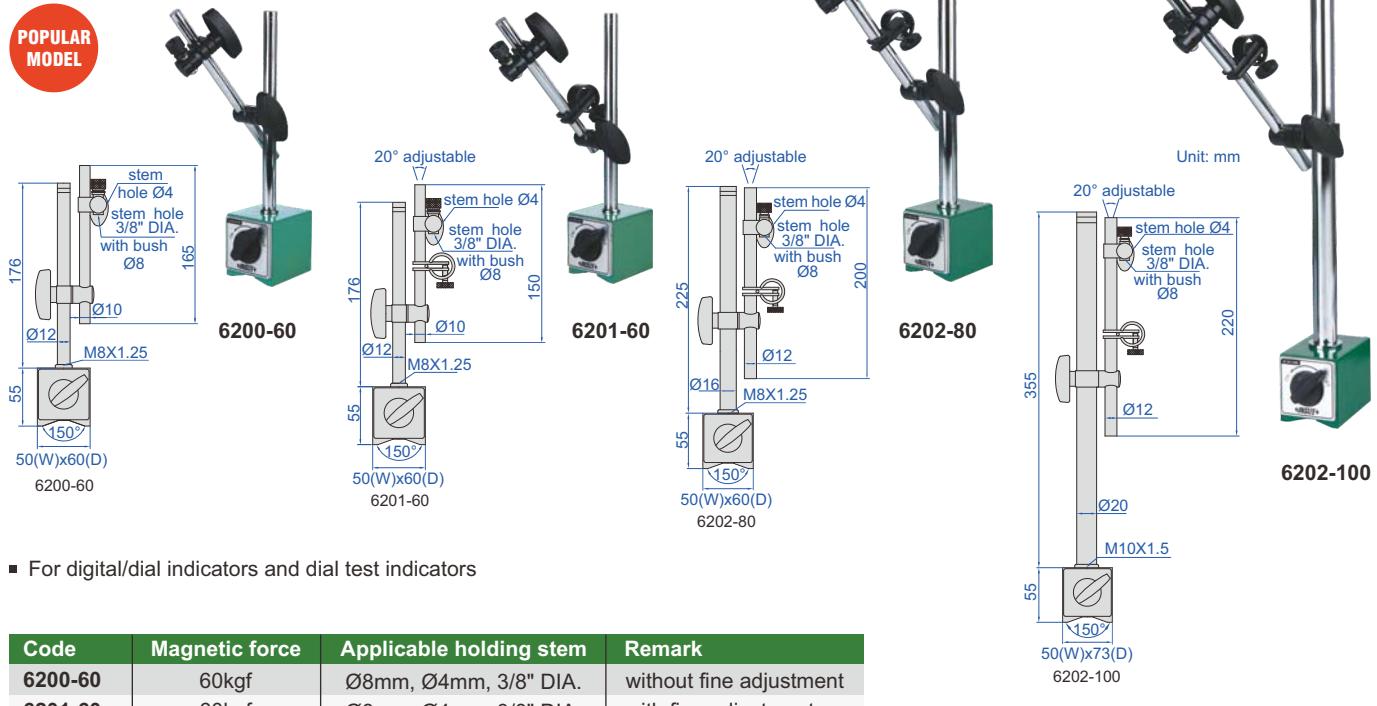
Code	Magnetic force	Applicable holding stem
6224-40	40kgf	Ø8mm

6224-40

267

MAGNETIC STANDS

POPULAR MODEL



- For digital/dial indicators and dial test indicators

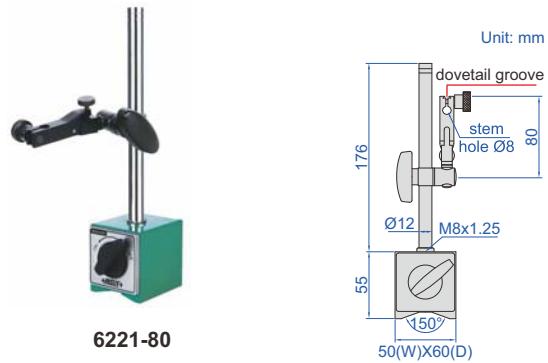
Code	Magnetic force	Applicable holding stem	Remark
6200-60	60kgf	Ø8mm, Ø4mm, 3/8" DIA.	without fine adjustment
6201-60	60kgf	Ø8mm, Ø4mm, 3/8" DIA.	with fine adjustment
6202-80	80kgf	Ø8mm, Ø4mm, 3/8" DIA.	with fine adjustment
6202-100	100kgf	Ø8mm, Ø4mm, 3/8" DIA.	with fine adjustment

MAGNETIC STAND (FOR 0.001MM DIAL AND TEST INDICATORS)

11

- For 0.001mm and 0.01mm dial and test indicators

Code	Magnetic force	Applicable holding stem	Remark
6221-80	80kgf	Ø8mm	with fine adjustment and dovetail groove



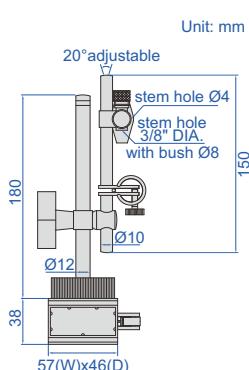
MAGNETIC STAND

- For digital/dial indicators and dial test indicators

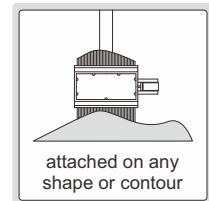
Code	Magnetic force	Applicable holding stem	Remark
6216-80	80kgf	Ø8mm	with fine adjustment and dovetail groove



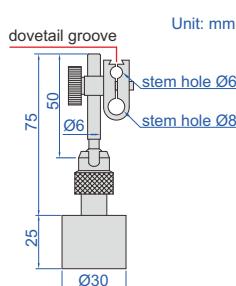
MAGNETIC STAND FOR UNEVEN SURFACES



- For digital/dial indicators and dial test indicators
- With fine adjustment



Code	Magnetic force	Applicable holding stem
6215-60	60kgf	Ø8mm, Ø4mm, 3/8" DIA.

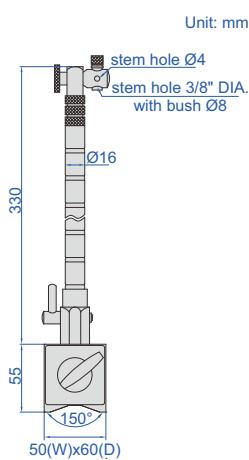


ATTENTION: FOR DIAL TEST INDICATORS ONLY

- For dial test indicators
- With dovetail groove

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

FLEX ARM MAGNETIC STAND



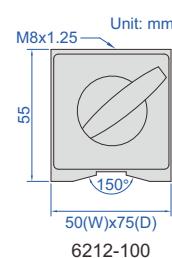
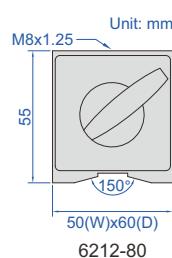
ATTENTION: FOR DIAL TEST INDICATORS ONLY

- For dial test indicators

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

11

MAGNETIC BASES

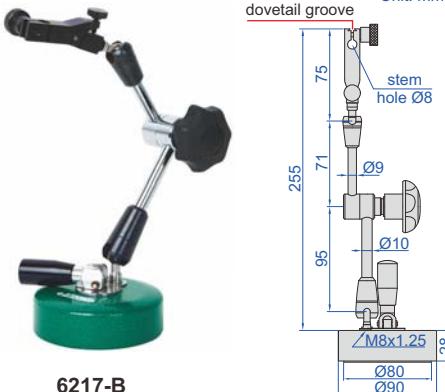


Code	Magnetic force
6212-80	80kgf
6212-100	100kgf

VACUUM STAND

- Suitable for granite surface plates or cast iron surface plates
- For digital/dial indicators and dial test indicators

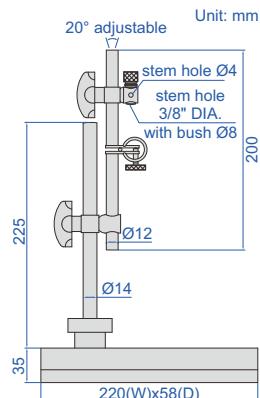
Code	Diameter of vacuum disc	Vacuum force	Applicable holding stem	Remark
6217-B	Ø80mm	80kgf	Ø8mm	with fine adjustment and dovetail groove



UNIVERSAL STAND

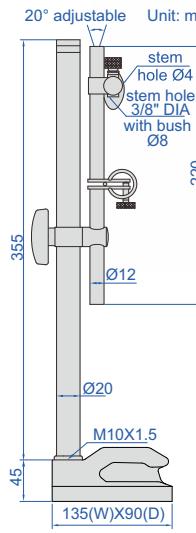
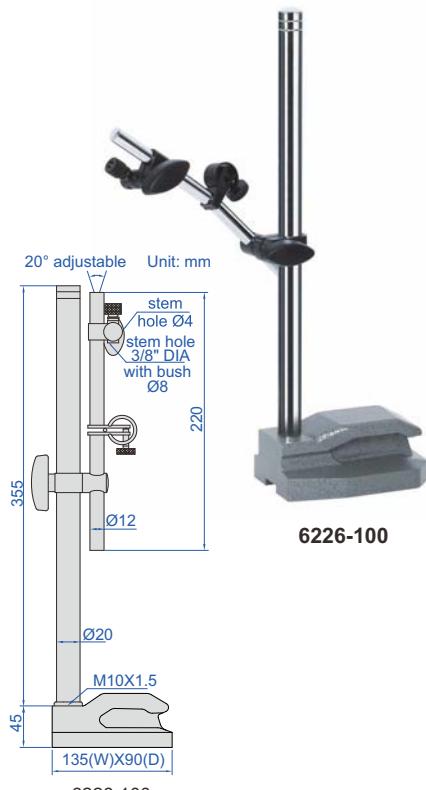
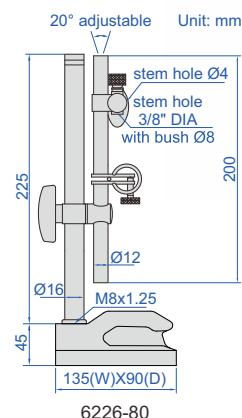
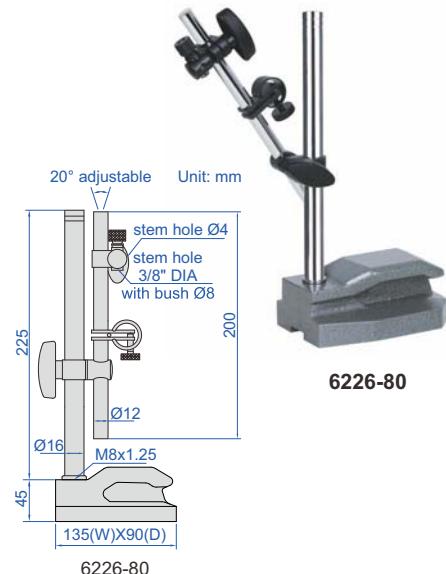
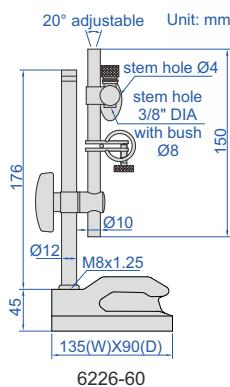
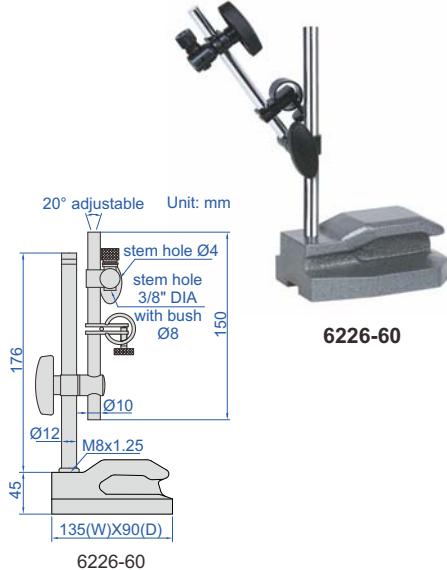
- For digital/dial indicators and dial test indicators
- With fine adjustment

Code	Applicable holding stem
6214-A	Ø8mm, Ø4mm, 3/8" DIA.



DIAL INDICATOR STANDS (NON-MAGNETIC)

11

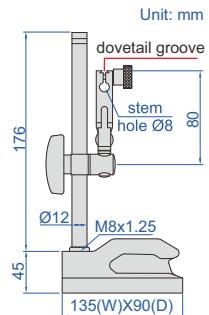


Code	Applicable holding stem	Remark
6226-60	Ø8mm, Ø4mm, 3/8" DIA	with fine adjustment
6226-80	Ø8mm, Ø4mm, 3/8" DIA	with fine adjustment
6226-100	Ø8mm, Ø4mm, 3/8" DIA	with fine adjustment

- Hardened base
- Suitable for granite surface plates and cast iron surface plates
- For digital/dial indicators and dial test indicators

DIAL INDICATOR STAND (FOR 0.001MM DIAL AND TEST INDICATORS)

- Non-magnetic and hardened base
- Suitable for granite surface plates or cast iron surface plates
- For 0.001mm and 0.01mm dial and test indicators



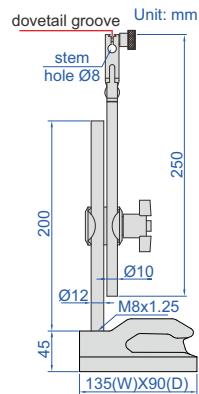
Code	Applicable holding stem	Remark
6230-60	Ø8mm	with fine adjustment and dovetail groove

6230-60

DIAL INDICATOR STAND (NON-MAGNETIC)

- Hardened base
- Suitable for granite surface plates and cast iron surface plates
- For digital/dial indicators and dial test indicators

Code	Applicable holding stem	Remark
6227-80	Ø8mm	with fine adjustment and dovetail groove



6227-80

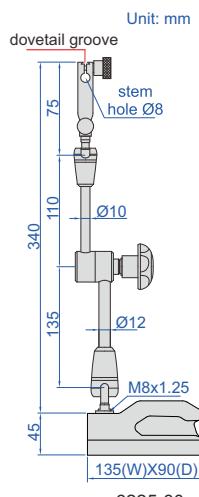
11

UNIVERSAL DIAL INDICATOR STANDS (NON-MAGNETIC)

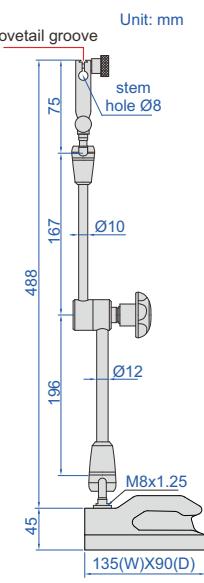
- Hardened base
- Suitable for granite surface plates and cast iron surface plates
- For digital/dial indicators and dial test indicators



6225-80

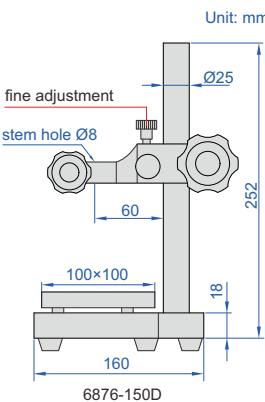
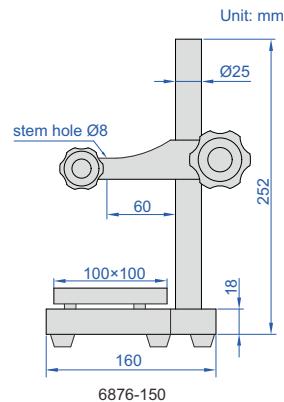


6225-100



Code	Applicable holding stem	Remark
6225-80	Ø8mm	with fine adjustment and dovetail groove
6225-100	Ø8mm	with fine adjustment and dovetail groove

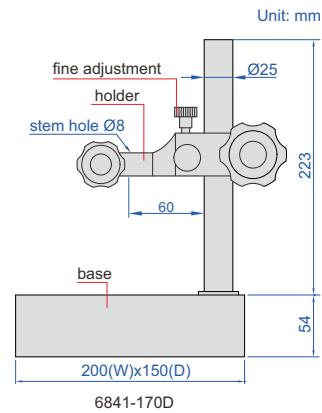
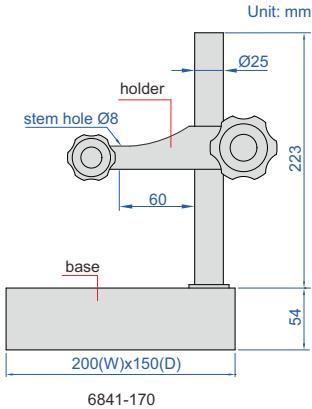
DIAL INDICATOR STANDS



Code	Applicable holding stem	Anvil	Remark
6876-150	Ø8mm	ceramic, plain, flatness 1.5µm	without fine adjustment
6876-150D	Ø8mm	ceramic, plain, flatness 1.5µm	with fine adjustment, fine adjustment range 3mm

- Vertical travel of holder: 150mm
- Ceramic anvil
- Supplied with dust cover

GRANITE DIAL INDICATOR STANDS (BASIC TYPE)



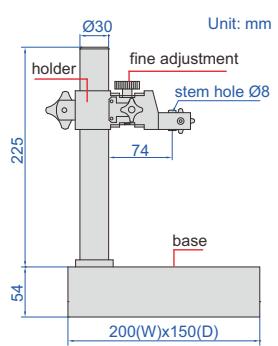
Code	Applicable holding stem	Base	Remark
6841-170	Ø8mm	flatness 2.5µm	without fine adjustment
6841-170D	Ø8mm	flatness 2.5µm	with fine adjustment, fine adjustment range 3mm

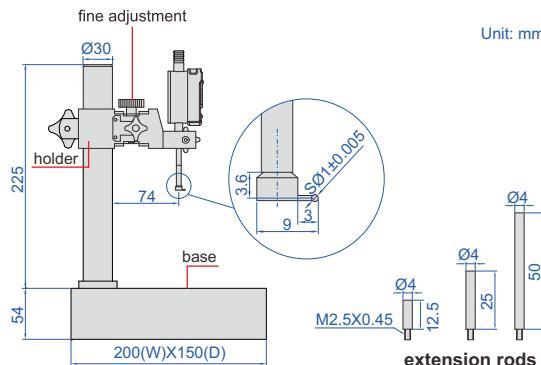
- Vertical travel of holder: 170mm
- Supplied with dust cover

GRANITE DIAL INDICATOR STAND

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

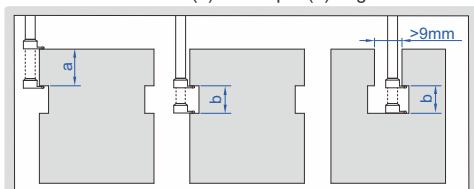
Code	Applicable holding stem	Base
6866-150	Ø8mm	flatness 2.5µm



**DATA
OUTPUT**
DIGITAL GROOVE MEASUREMENT STANDS


- Button function: on/off, zero, mm/inch, measuring direction change, data preset, absolute/incremental measurement
- Vertical travel of holder: 150mm
- Fine adjustment range: 2mm
- CR2032 battery, automatic power off (time is adjustable)
- Data output
- Supplied with extension rods: 12.5mm (1 pc), 25mm (1 pc), 50mm (1 pc)
- Supplied with groove point and dust cover
- Optional accessory: data output cable (code 7315-50M need receiver page 5, 7302-40M page 13)

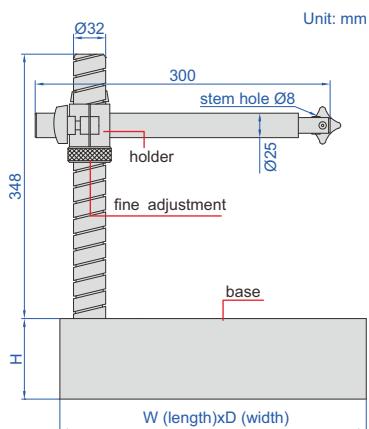
measure width (b) and depth (a) of groove



Code	Digital indicator stroke	Digital indicator resolution	Accuracy	Applicable holding stem	Base
6870-150	12.7mm/0.5"	0.01mm/0.0005"	±20µm	Ø8mm	flatness 2.5µm
6870-1501	12.7mm/0.5"	0.001mm/0.00005"	±5µm	Ø8mm	flatness 2.5µm

GRANITE DIAL INDICATOR STANDS

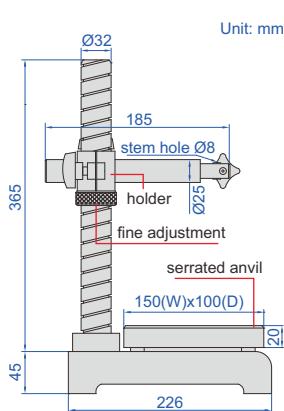
11



- Vertical travel of holder: 250mm
- Fine adjustment range: entire stroke
- Supplied with dust cover

Code	Applicable holding stem	W	D	H	Base
6867-250	Ø8mm	300mm	300mm	75mm	flatness 2.8µm
6867-400	Ø8mm	400mm	300mm	100mm	flatness 3µm

DIAL INDICATOR STANDS

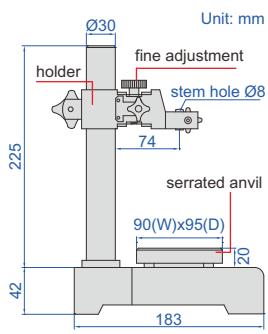


- Vertical travel of holder: 250mm
- Fine adjustment range: entire stroke
- Supplied with dust cover

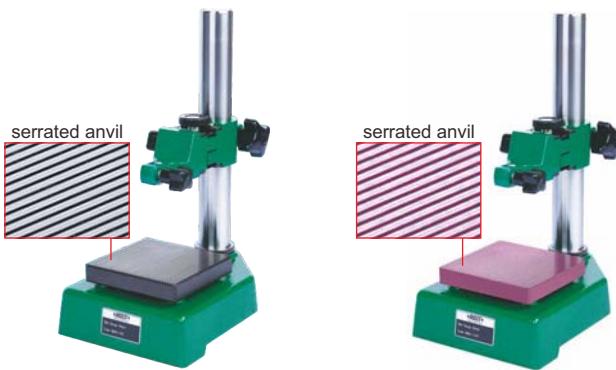


Code	Applicable holding stem	Anvil
6864-250	Ø8mm	steel (hardness HRC60±2), serrated, flatness 1.5µm
6864-250T	Ø8mm	ceramic, serrated, flatness 1.5µm

11 DIAL INDICATOR STANDS



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



Code	Applicable holding stem	Anvil
6863-150	Ø8mm	steel (hardness HRC60±2), serrated, flatness 1.5µm
6863-150T	Ø8mm	ceramic, serrated, flatness 1.5µm

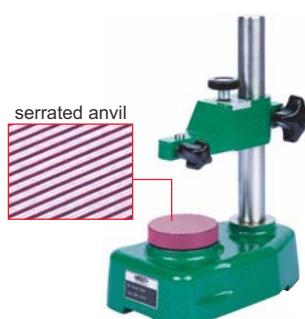
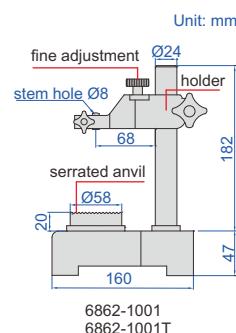
DIAL INDICATOR STANDS



6862-1001



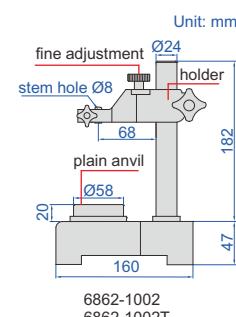
6862-1002



6862-1001T



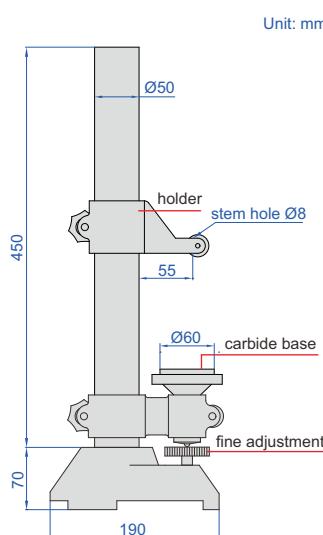
6862-1002T



Code	Applicable holding stem	Anvil
6862-1001	$\varnothing 8\text{mm}$	steel (hardness HRC60±2), serrated, flatness 1.5 μm
6862-1002	$\varnothing 8\text{mm}$	steel (hardness HRC60±2), plain, flatness 1.5 μm
6862-1001T	$\varnothing 8\text{mm}$	ceramic, serrated, flatness 1.5 μm
6862-1002T	$\varnothing 8\text{mm}$	ceramic, plain, flatness 1.5 μm

- Vertical travel of holder: 100mm
- Fine adjustment range: 2mm
- Supplied with dust cover

HEAVY DUTY DIAL INDICATOR STAND

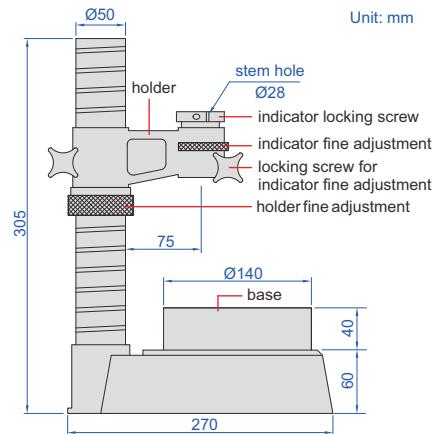


6869-300

- Vertical travel of holder: 300mm
- Fine adjustment range: 5mm
- Carbide base
- Supplied with dust cover
- Optional accessory:
holder with stem hole Ø28 (code 6869-D28)

Code	Applicable holding stem	Base
6869-300	$\varnothing 8\text{mm}$	plain, flatness 1 μm , carbide

DIAL INDICATOR STAND

GAGE BLOCKS ARE NEEDED
FOR ZERO SETTING

6842-150



locating fork for workpiece (included)



rotary lever probe (included)



base with step (included)

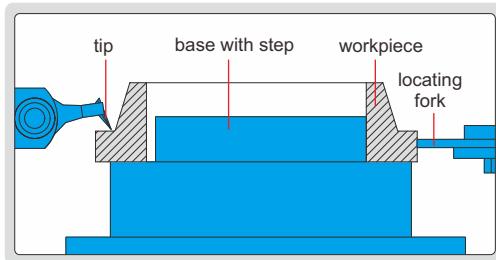


11

- Vertical travel of holder: 180mm
- Holder fine adjustment range: entire stroke
- Indicator fine adjustment range: 10mm
- Optional accessory: Ø28mm/Ø8mm bush (code 6843-B8), 0.001mm digital/dial indicators, high precision digital indicators (code 2140-6, 2140-6WL), gage blocks (4101 series, for zero setting)

Code	Applicable holding stem	Base
6842-150	Ø28mm	flatness 2µm

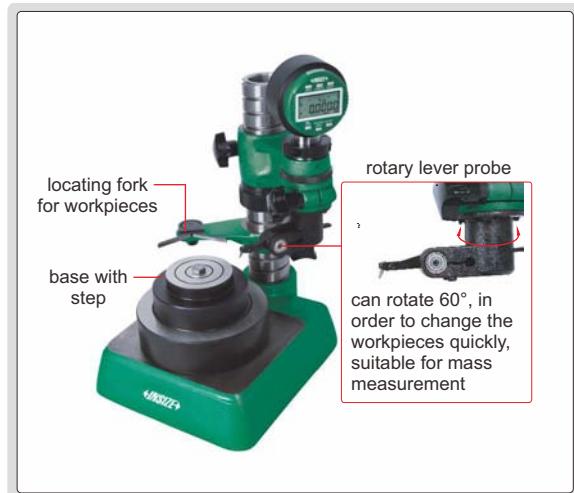
the tip of rotary lever probe can reach narrow areas



Ø28mm/Ø8mm bush (optional)



Code
6843-B8



DIAL INDICATOR STAND

GAGE BLOCKS ARE NEEDED
FOR ZERO SETTING

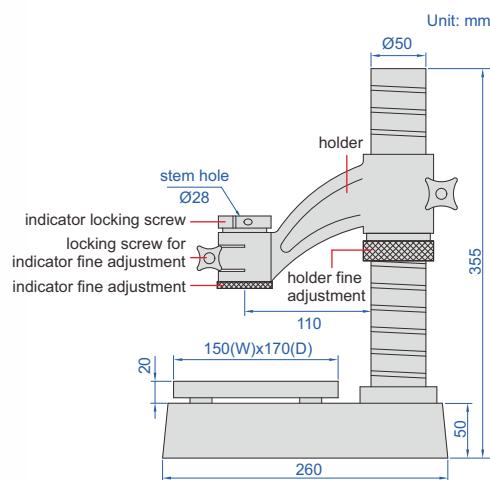
locating fork for workpieces (included)



digital/dial
indicator is
optional



6846-140



Ø28mm/Ø8mm bush (optional)



application



- Vertical travel of holder: 140mm
- Holder fine adjustment range: entire stroke
- Indicator fine adjustment range: 3mm
- Optional accessory: Ø28mm/Ø8mm bush (code 6843-B8), 0.001mm digital/dial indicators, high precision digital indicators (code 2140-6, 2140-6WL), gage blocks (4101 series, for zero setting)

Code	Applicable holding stem	Anvil
6846-140	Ø28mm	grid, flatness 1µm

Code
6843-B8

GAGE BLOCKS ARE NEEDED
FOR ZERO SETTING

locating fork for workpieces (included)



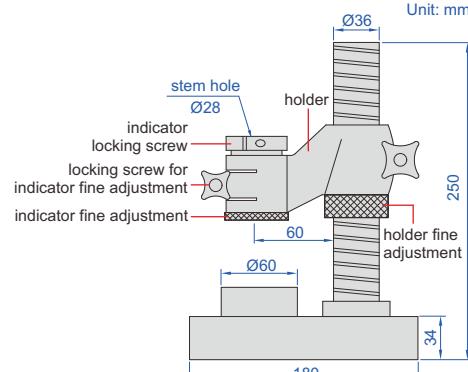
digital/dial
indicator is
optional



6845-100

DIAL INDICATOR STAND

11



Ø28mm/Ø8mm bush (optional)



application



- Vertical travel of holder: 100mm
- Holder fine adjustment range: entire stroke
- Indicator fine adjustment range: 3mm
- Optional accessory: Ø28mm/Ø8mm bush (code 6843-B8), 0.001mm digital/dial indicators, high precision digital indicators (code 2140-6, 2140-6WL), gage blocks (4101 series, for zero setting)

Code	Applicable holding stem	Anvil
6845-100	Ø28mm	serrated, flatness 1µm

Code
6843-B8

TRANSFER STANDS

application



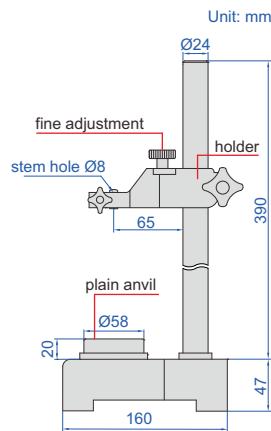
rigid construction, designed to make comparison height measurement (set zero with gage block then measure height of workpiece) with dial indicators or digital indicators (variation of measuring force is high)



6865-300



6865-300T



- Vertical travel of holder: 335mm
- Fine adjustment range: 2mm
- Supplied with dust cover

11

Code	Applicable holding stem	Anvil
6865-300	Ø8mm	steel (hardness HRC60±2), plain, flatness 1.5µm
6865-300T	Ø8mm	ceramic, plain, flatness 1.5µm

DIGITAL HEIGHT GAGES

REFER TO PAGE 85-87
FOR DETAILS



1155-505



1157-501



1158-100