



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
Page 265-270



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



Dial Indicator Stands
Page 272-278

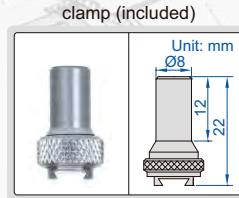
PRECISION DIAL TEST INDICATOR

INSIZE PLUS
MADE IN EUROPE

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

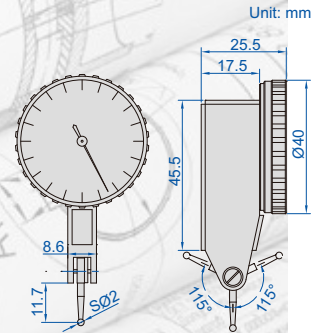


2897-02



INSPECTION CERTIFICATE

ANTI MAGNETIC
CARBIDE CONTACT POINT



Code	Range	Graduation	Accuracy	Hysteresis	Dial reading
2897-02 *	0.2mm	0.001mm	4µm	2µm	0-100-0

*Supplied with manufacturer inspection certificate

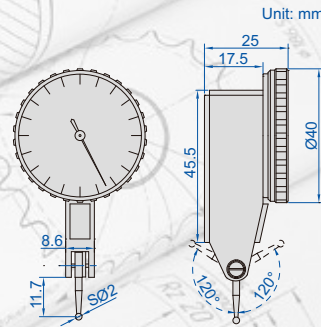
PRECISION DIAL TEST INDICATORS

INSIZE PLUS
MADE IN EUROPE

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



2880-02

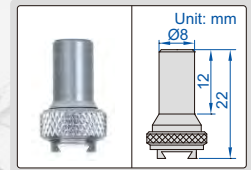


INSPECTION CERTIFICATE

ruby contact
point of 2880-02R



clamp (included)



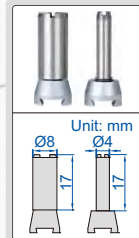
Code	Range	Graduation	Accuracy	Hysteresis	Dial reading	Remark
2880-02 *	0.2mm	0.002mm	4µm	2µm	0-100-0	anti magnetic carbide contact point
2880-02R *	0.2mm	0.002mm	4µm	2µm	0-100-0	ruby contact point

*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: styli (page 226)

clamp (included)



2380-08

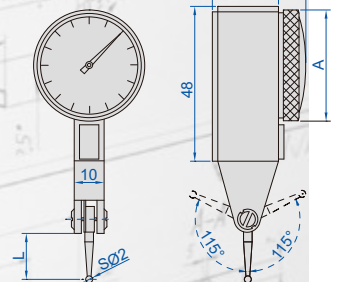
JEWELLED BEARING

INSPECTION CERTIFICATE

POPULAR MODEL

Code	Range	Graduation	Accuracy	Hysteresis	Dial reading	A (mm)	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

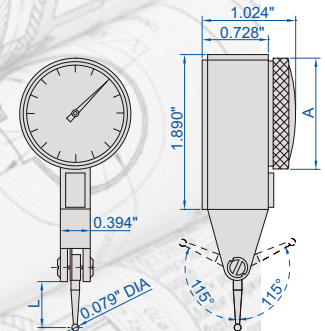
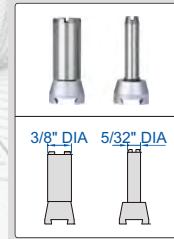


2380-31

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

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

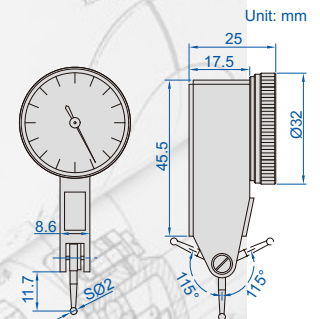
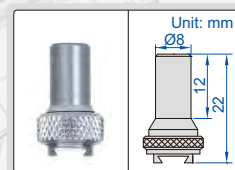


2895-08

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

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

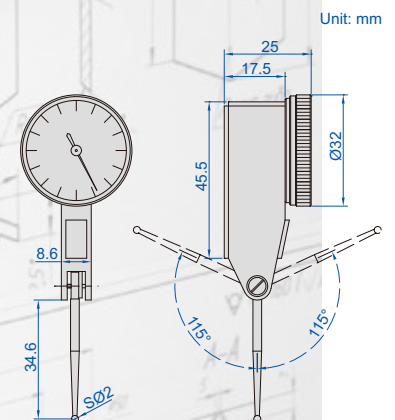
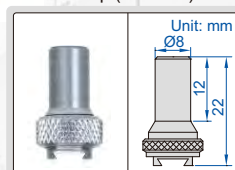


2896-05

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 $\varnothing 4\text{mm}$ and $\varnothing 8\text{mm}$
- Optional accessory: styli (page 226)



2383-08A

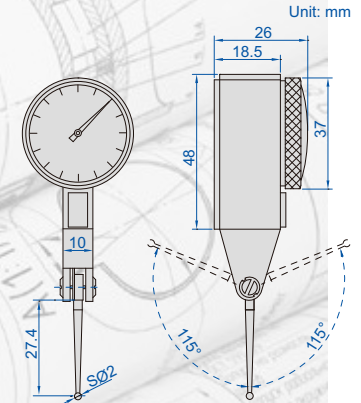
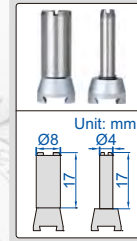
JEWELLED BEARING

INSPECTION CERTIFICATE

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

*Supplied with manufacturer inspection certificate

clamp (included)



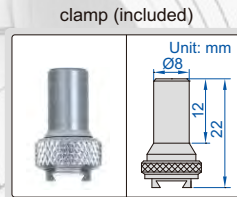
VERTICAL TYPE LONG STYLUS DIAL TEST INDICATOR

INSIZE PLUS
MADE IN EUROPE

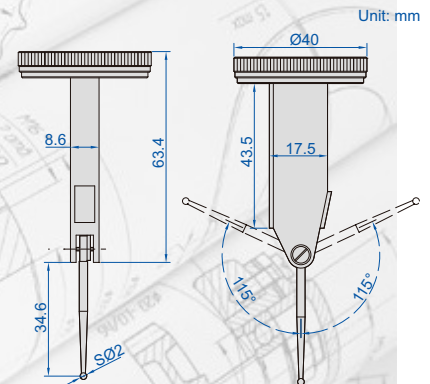
ANTI MAGNETIC CARBIDE CONTACT POINT

INSPECTION CERTIFICATE

- Meet DIN2270
- Ceramic bearing
- Anti magnetic carbide contact point
- Two measuring directions
- Supplied with one clamp: diameter $\varnothing 8\text{mm}$
- Optional accessory: styli (page 226)



2899-05



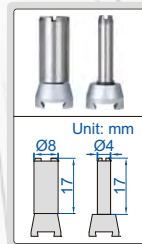
Code	Range	Graduation	Accuracy	Hysteresis	Dial reading
2899-05*	0.5mm	0.01mm	13 μm	3 μm	0-25-0

*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 $\varnothing 4\text{mm}$ and $\varnothing 8\text{mm}$
- Optional accessory: styli (page 226)

clamp (included)



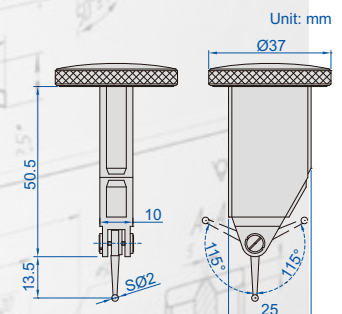
2398-08

JEWELLED BEARING

INSPECTION CERTIFICATE

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

*Supplied with manufacturer inspection certificate



ANTI MAGNETIC
CARBIDE CONTACT POINT

INSPECTION
CERTIFICATE

SIDE TYPE DIAL TEST INDICATOR

INSIZE PLUS
MADE IN EUROPE

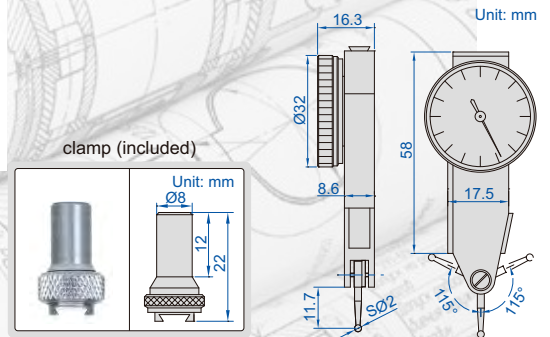
- Meet DIN2270
- Ceramic bearing
- Anti magnetic carbide contact point
- Two measuring directions
- Supplied with one clamp:
diameter Ø8mm
- Optional accessory: styli (page 226)



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



INSPECTION
CERTIFICATE

JEWELLED
BEARING

TILTED FACE TYPE DIAL TEST INDICATOR

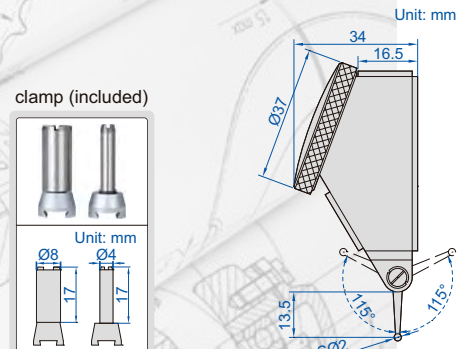
- Meet DIN2270
- Jeweled bearing
- Carbide contact point
- Two measuring directions
- Anti magnetic body
- Supplied with two clamps:
diameter Ø4mm and Ø8mm
- Optional accessory: styli (page 226)



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



11

INSPECTION
CERTIFICATE

JEWELLED
BEARING

LARGE RANGE DIAL TEST INDICATOR

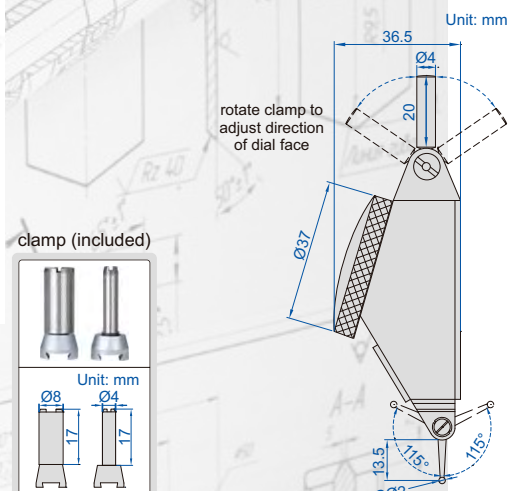
- Dial reading: 0-40-0
- Jeweled bearing
- Carbide contact point
- Two measuring directions
- Anti magnetic body
- Supplied with two clamps:
diameter Ø4mm and Ø8mm
- Optional accessory: styli (page 226)



2386-16A

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

*Supplied with manufacturer inspection certificate

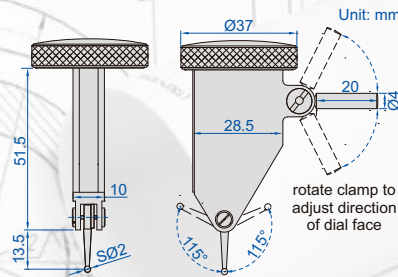


LARGE RANGE VERTICAL TYPE DIAL TEST INDICATOR

JEWELLED BEARING

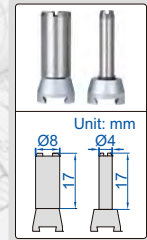
INSPECTION CERTIFICATE

- 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: styli (page 226)



2480-16

clamp (included)



Code	Range	Graduation	Accuracy	Hysteresis
2480-16*	1.6mm	0.01mm	18µm	3µm

* Supplied with manufacturer inspection certificate

CLAMPS FOR DIAL TEST INDICATORS



6298-1



6298-2



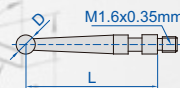
Code	ØD
6298-1	Ø4mm
6298-2	Ø8mm

STYLI FOR DIAL TEST INDICATORS

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

DIGITAL INDICATORS (STANDARD TYPE)

POPULAR
MODEL



2112-10



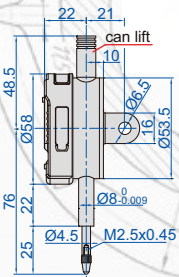
2112-251



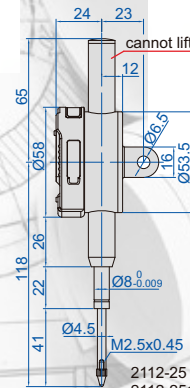
2112-25P



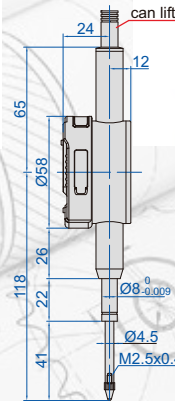
2112-501



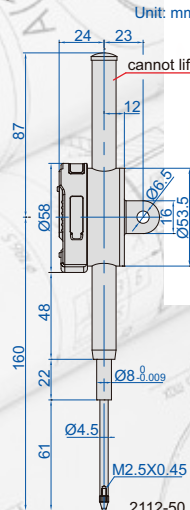
2112-10
2112-101



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

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

*Supplied with manufacturer inspection certificate

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



spindle lift knob is included



DIGITAL INDICATORS (ADVANCED TYPE)

INSPECTION CERTIFICATE

DATA OUTPUT



2103-10



2104-25



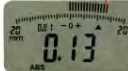
2104-25P



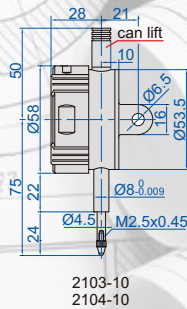
2103-50

analog pointer

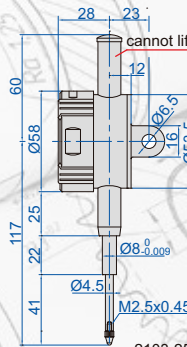
analog pointer



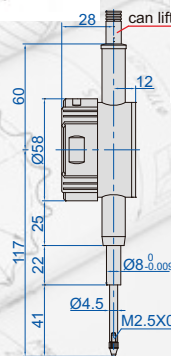
spindle lift knob is included



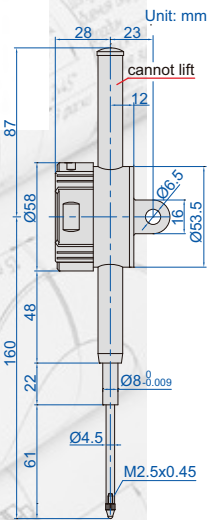
2103-10
2104-10



2103-25
2104-25



2103-25P
2104-25P

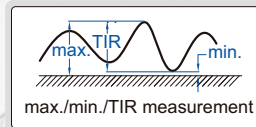


2103-50
2104-50

Unit: mm

- 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)

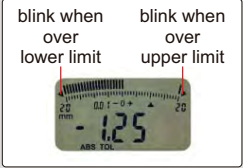
max./min./TIR



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

alarm when over tolerance



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

2103-25P/50P
2104-25P/50P



display can be rotated by 320°



pull lift cap to lift point

*Supplied with manufacturer inspection certificate

DIGITAL INDICATORS (WITH TRANSMISSION BUTTON AND SIGNAL LIGHT)

INSPECTION
CERTIFICATE

DATA
OUTPUT



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

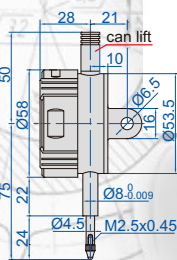


2138-50

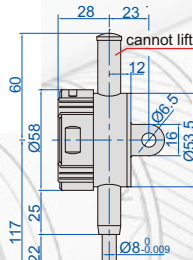
press the button
to transmit data
data transmission
signal light



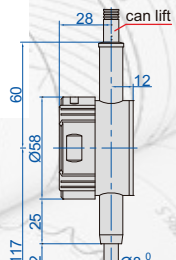
spindle lift knob
is included



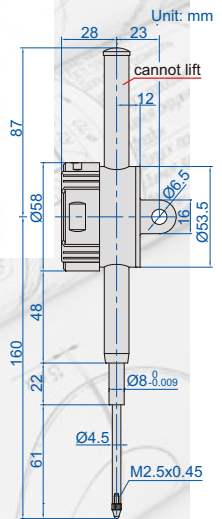
2138-10
2139-10



2138-25
2139-25



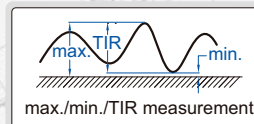
2138-25P
2139-25P



2138-50
2139-50

- 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)

max./min./TIR



max./min./TIR measurement

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 blink when over upper limit



VIDEO

2138-25P/50P
2129-25P/50P

pull lift cap
to lift point



display can be
rotated by 320°



THE ORIGINAL DATA
REMAINS AFTER POWER OFF

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

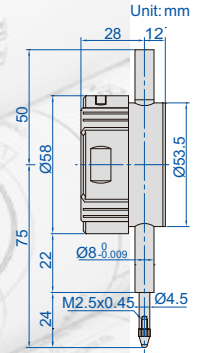


DATA
OUTPUT

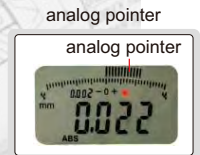
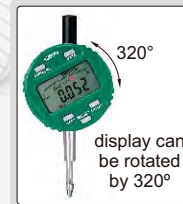


press the button
to transmit data
data transmission
signal light

2108-10F



- Specially designed for bore gages
- The minimum value tracking function can find the diameter automatically
- Read the diameter directly, after inputting 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)



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



the minimum value
tracking function can find
the diameter automatically.



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

IP54
WATERPROOF

DATA
OUTPUT

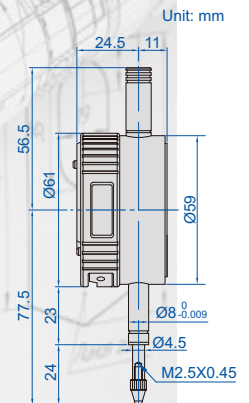


WATERPROOF DIGITAL INDICATORS FOR BORE GAGES

THE ORIGINAL DATA
REMAINS AFTER POWER OFF



2137-10F



- Specially designed for bore gages
- The minimum value tracking function can find the diameter automatically
- Read the diameter directly, after inputting 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)

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



the minimum value
tracking function can find
the diameter automatically.



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

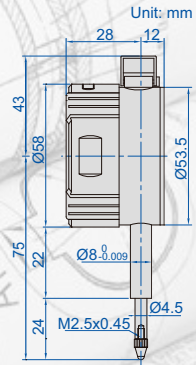
DIGITAL INDICATORS WITH LIFTING LEVER

DATA OUTPUT

INSPECTION 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

analog pointer



blink when over lower limit blink when over upper limit



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

11

COMPACT DIGITAL INDICATORS

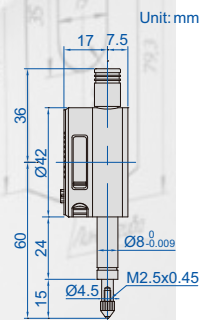
DATA OUTPUT

INSPECTION 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), contact points (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

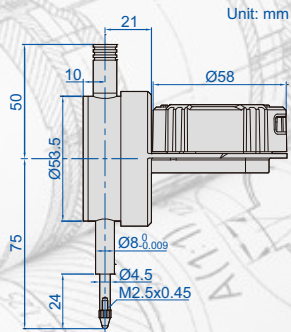
**INSPECTION
CERTIFICATE**

**DATA
OUTPUT**

BACK PLUNGER TYPE DIGITAL INDICATORS



2118-10

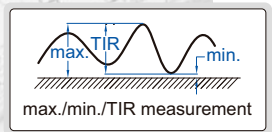


- Display can rotate 320°, and display direction is changeable
- Reading in digital and analog
- Button function: tolerance Go and No-Go display, data preset, measuring direction change, max./min./TIR measurement, inch/metric conversion, absolute/incremental measurement
- Keep preset data and tolerance 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

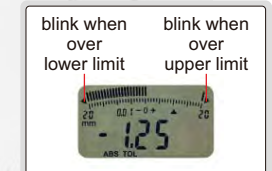
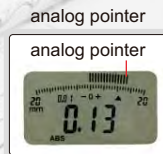


max./min./TIR

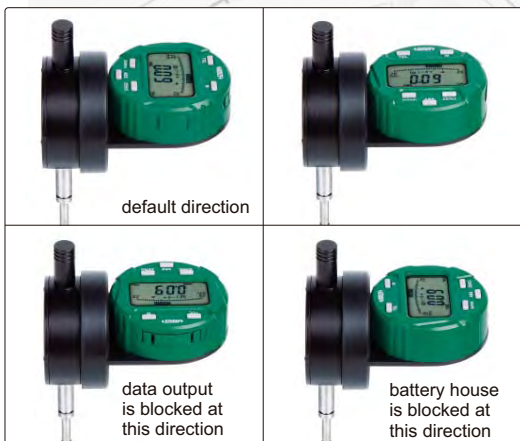


alarm when over tolerance

blink when over lower limit blink when over upper limit



display direction is changeable



display can rotate 320°

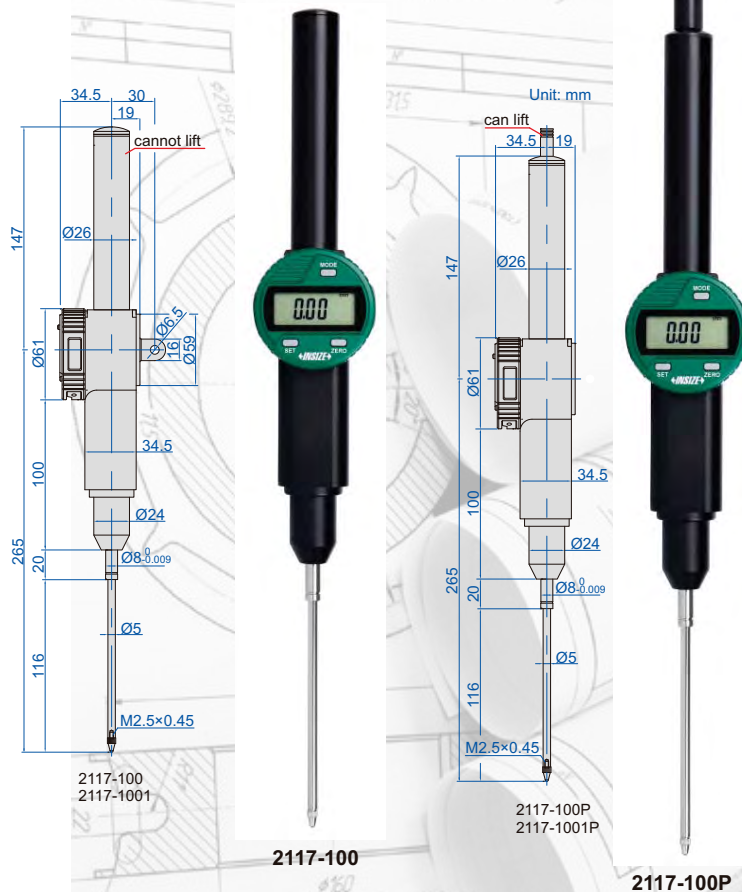


remark: to change above direction, 4 fixing screws on the back of display need to be removed first.

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

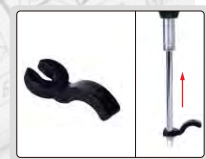
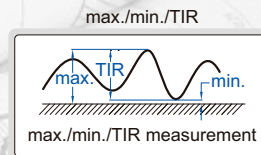
LARGE STROKE DIGITAL INDICATORS



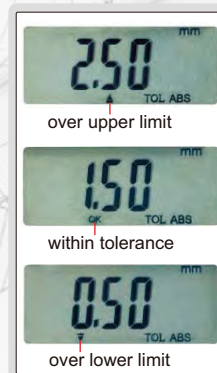
DATA OUTPUT

- 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
- 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)

spindle lift knob is included



alarm when over tolerance



2117-100P/1001P



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

11

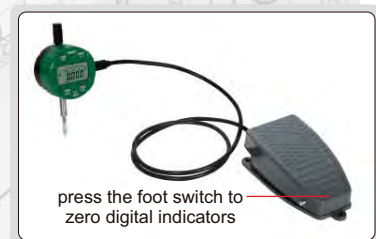
ZEROING FOOT SWITCH

- For zeroing of digital indicators



7360-1M

application



press the foot switch to zero digital indicators

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)

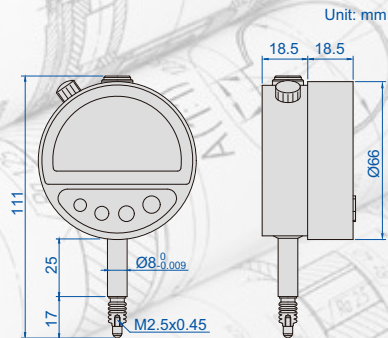
ATTENTION: RECHARGEABLE BATTERY,
FOR 12 HOURS CONTINUOUS WORKING

IP54
WATERPROOF

DATA
OUTPUT



2149-2

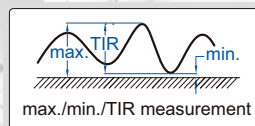


data interface
(with protective cover)



touch sensor
to transmit data
signal light

max./min./TIR



wireless receiver (optional)



printer (optional)



- 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



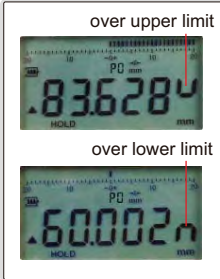
ABSOLUTE ENCODER, THE ORIGINAL DATA REMAINS AFTER POWER OFF

ATTENTION: RECHARGEABLE BATTERY, FOR 24 HOURS CONTINUOUS WORKING

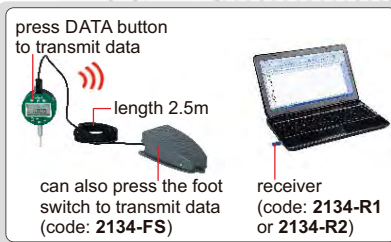
CONTINUOUS DATA COLLECTION CAN BE CUSTOMIZED (PRESS "DATA" BUTTON TO START CONTINUOUS COLLECTION, PRESS AGAIN TO STOP; COLLECTION FREQUENCY CAN BE CUSTOMIZED, THE FASTEST DATA COLLECTION IS 10PCS PER SECOND)

LINEAR BALL BEARINGS FOR TEN MILLION TIMES USE

alarm when over tolerance



transmit data



2134-10



2134-25



2134-50

- Built-in wireless transmission, Zigbee single
- 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)

Standard precision

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

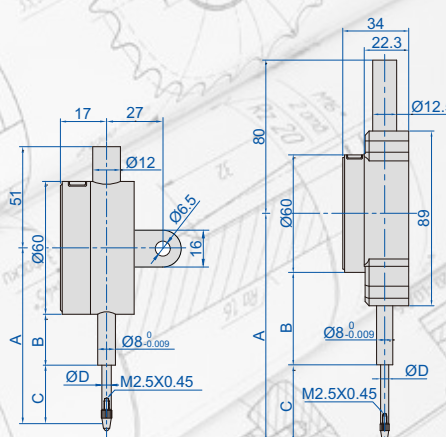
Code	Range	Accuracy	Hysteresis	A	B	C	ØD	Remark
2134-10*	12.7mm/0.5"	3µm	1.5µm	75.4mm	20.6mm	24.8mm	5mm	flat back
2134-10L*	12.7mm/0.5"	3µm	1.5µm	75.4mm	20.6mm	24.8mm	5mm	lug back
2134-25*	25.4mm/1"	3µm	1.5µm	109.5mm	38.5mm	41mm	5mm	flat back
2134-50*	50.8mm/2"	3µm	1.5µm	201mm	32mm	72mm	4.5mm	flat back

High precision

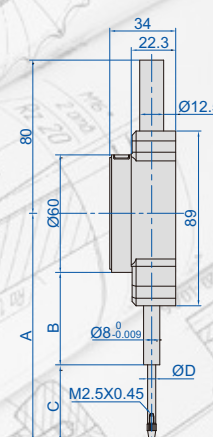
Ruby probe
Adjustable resolution: 0.0002mm/0.00001"
0.001mm/0.00005"
0.01mm/0.0005"

Code	Range	Accuracy	Hysteresis	A	B	C	ØD	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

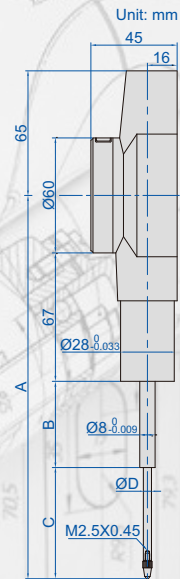
*Supplied with manufacturer inspection certificate



2134-10L
2134-101L



2134-25
2134-251

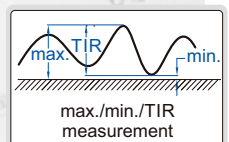


2134-50

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

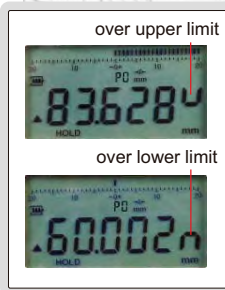
DATA
OUTPUT

ATTENTION: RECHARGEABLE BATTERY,
FOR 24 HOURS CONTINUOUS WORKING

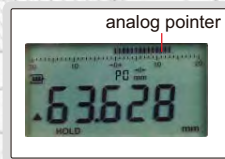
INSPECTION
CERTIFICATE

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

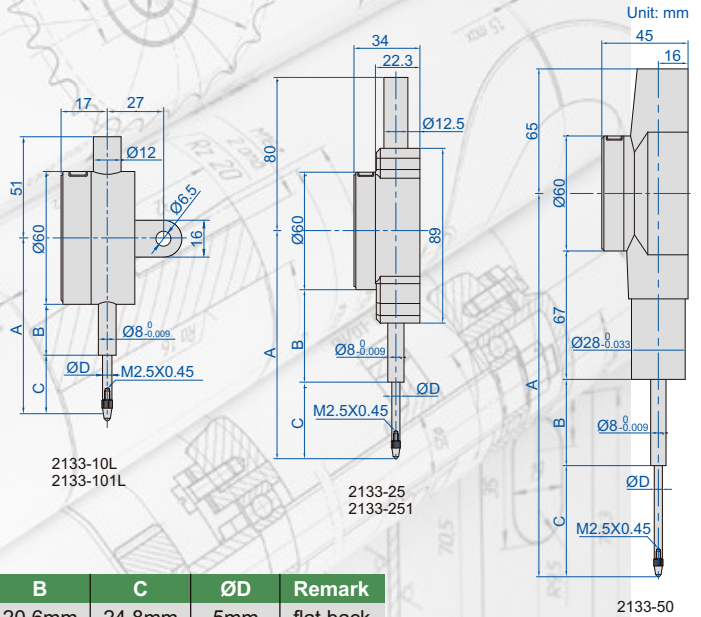
High precision

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

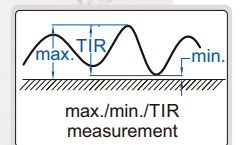
*Supplied with manufacturer inspection certificate



spindle lift knob is included



max./min./TIR



HIGH PRECISION DIGITAL INDICATORS

DATA OUTPUT

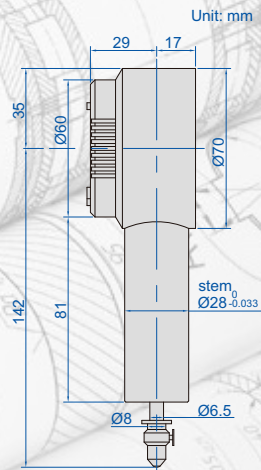
Ø28MM STEM SUITABLE FOR REINFORCED CLAMPING

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



2140-6

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)

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

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
2140-6WL*	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)

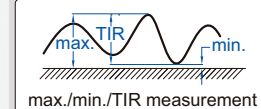
alarm when over tolerance



analog pointer



max./min./TIR



wireless receiver

2134-R1, 2134-R2 (optional)



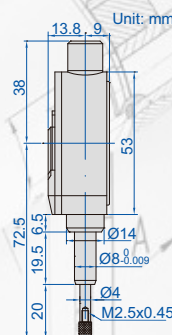
DIAL COMPARATOR

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**)



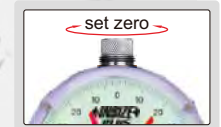
2881-01



JEWELLED BEARING

SHOCK PROOF

INSPECTION CERTIFICATE



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**

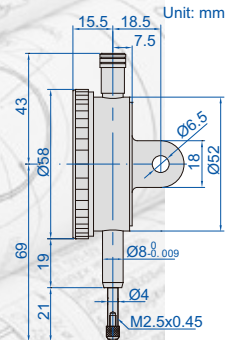
PRECISION DIAL INDICATORS

**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

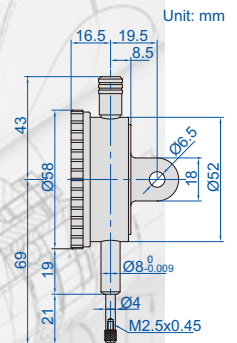
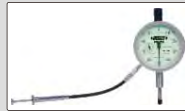
**INSIZE PLUS
MADE IN EUROPE**



2891-1

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

lifting lever (optional)



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

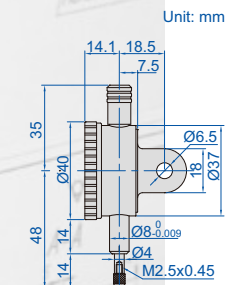
**INSIZE PLUS
MADE IN EUROPE**



2890-1

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

lifting lever (optional)



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

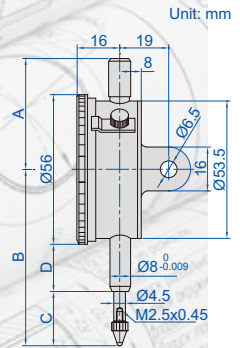
JEWELLED BEARING

INSPECTION CERTIFICATE



2313-1A

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



Code	Range	Accuracy	Hysteresis	Range/rev	Dial reading	Remark	A	B	C	D
2313-1FA *	1mm	5µm	2µm	0.2mm	0-100-0	flat back	45	62.5	19.5	15
2313-2FA *	2mm	6µm	2.5µm	0.2mm	0-100-0	flat back	45	62.5	19.5	15
2313-1A *	1mm	5µm	2µm	0.2mm	0-100-0	lug back	45	62.5	19.5	15
2313-2A *	2mm	6µm	2.5µm	0.2mm	0-100-0	lug back	45	62.5	19.5	15

*Supplied with manufacturer inspection certificate

COMPACT DIAL INDICATOR

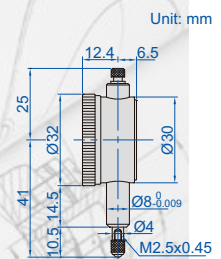
INSIZE PLUS
MADE IN EUROPE

INSPECTION CERTIFICATE



2886-3F

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



Code	Range	Graduation	Accuracy	Hysteresis	Range/rev	Dial reading	Remark
2886-3F *	3mm	0.01mm	12µm	3µm	0.5mm	0-50	flat back

*Supplied with manufacturer inspection certificate

COMPACT DIAL INDICATORS

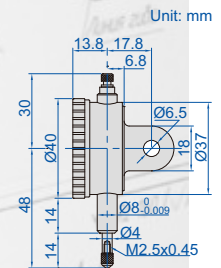
INSIZE PLUS
MADE IN EUROPE

INSPECTION CERTIFICATE



2887-5

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



Code	Range	Graduation	Accuracy	Hysteresis	Range/rev	Dial reading	Remark
2887-5 *	5mm	0.01mm	14µm	3µm	0.5mm	0-50	lug back
2887-5F *	5mm	0.01mm	14µm	3µm	0.5mm	0-50	flat back

*Supplied with manufacturer inspection certificate

JEWELLED BEARING

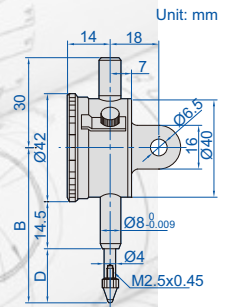
INSPECTION CERTIFICATE

COMPACT DIAL INDICATORS

- 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

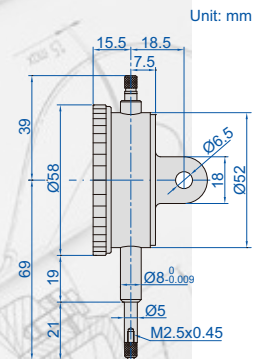
DIAL INDICATORS

INSIZE PLUS
MADE IN EUROPE

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



2892-10



Code	Range	Graduation	Accuracy	Hysteresis	Range/rev	Dial reading	Remark
2892-10 *	10mm	0.01mm	17µm	3µm	1mm	0-100	lug back
2892-10F *	10mm	0.01mm	17µm	3µm	1mm	0-100	flat back

*Supplied with manufacturer inspection certificate

JEWELLED BEARING

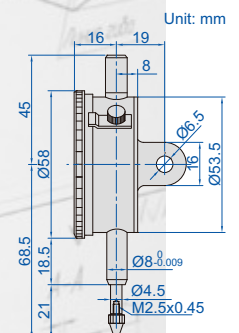
INSPECTION CERTIFICATE

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)

INSPECTION
CERTIFICATE

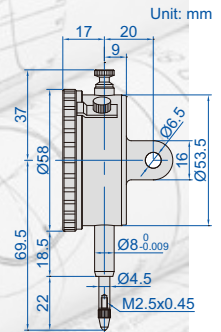
JEWELLED
BEARING

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

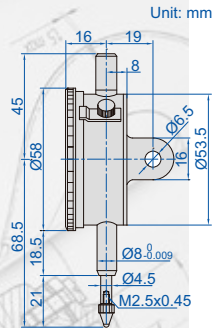
INSPECTION
CERTIFICATE

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

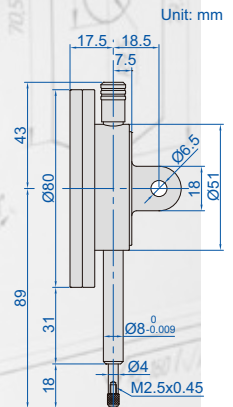
INSIZE PLUS
MADE IN EUROPE

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
PROOF**

**JEWELLED
BEARING**

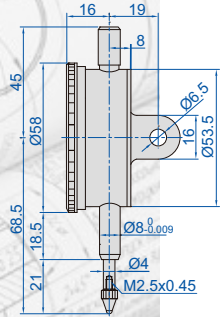
SHOCKPROOF DIAL INDICATORS

- 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

Unit: mm



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

*Supplied with manufacturer inspection certificate

**INSPECTION
CERTIFICATE**

BACK PLUNGER DIAL INDICATOR

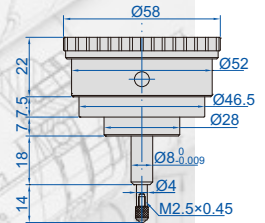
**INSIZE PLUS
MADE IN EUROPE**

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



2893-3

Unit: mm



Code	Range	Graduation	Accuracy	Hysteresis	Range/rev	Dial reading
2893-3 *	3mm	0.01mm	15µm	5µm	1mm	0-100

*Supplied with manufacturer inspection certificate

**INSPECTION
CERTIFICATE**

**SHOCK
PROOF**

**IP67
WATERPROOF**

WATERPROOF DIAL INDICATOR

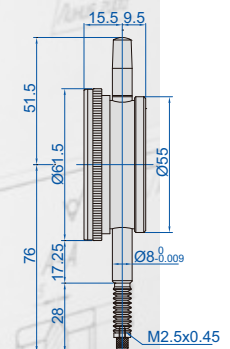
**INSIZE PLUS
MADE IN EUROPE**

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



2894-10F

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

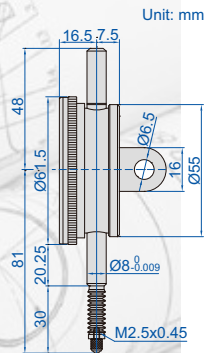
IP54
WATERPROOF

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)

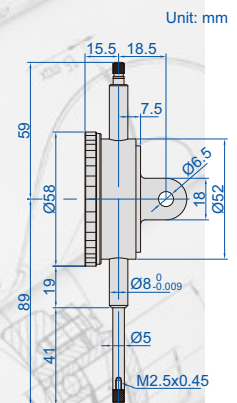
INSIZE PLUS
MADE IN EUROPE

INSPECTION
CERTIFICATE

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



2889-30



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

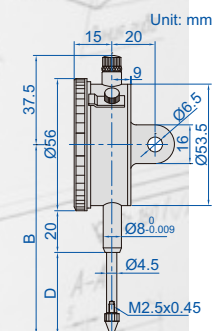
DIAL INDICATORS (LONG STROKE)

INSPECTION
CERTIFICATE

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



2310-30A



Code	Range	Graduation	Accuracy	Hysteresis	Range/rev	Dial reading	Remark	B	D
2310-20FA *	20mm	0.01mm	25µm	5µm	1mm	0-100	flat back	83	35
2310-30FA *	30mm	0.01mm	35µm	7µm	1mm	0-100	flat back	88	40
2310-20A *	20mm	0.01mm	25µm	5µm	1mm	0-100	lug back	83	35
2310-30A *	30mm	0.01mm	35µm	7µm	1mm	0-100	lug back	88	40

*Supplied with manufacturer inspection certificate

**INSPECTION
CERTIFICATE**

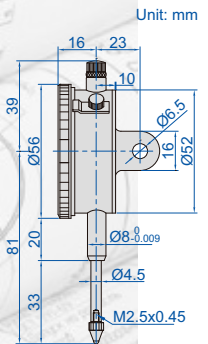
**POPULAR
MODEL**

DIAL INDICATORS (LONG STROKE, BASIC TYPE)

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



2302-25



Code	Range	Graduation	Accuracy	Hysteresis	Range/rev	Dial reading	Remark
2302-25F *	25mm	0.01mm	35µm	7µm	1mm	0-100	flat back
2302-25 *	25mm	0.01mm	35µm	7µm	1mm	0-100	lug back with spare flat back

* Supplied with manufacturer inspection certificate

**JEWELLED
BEARING**

**INSPECTION
CERTIFICATE**

DOUBLE FACE DIAL INDICATOR

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

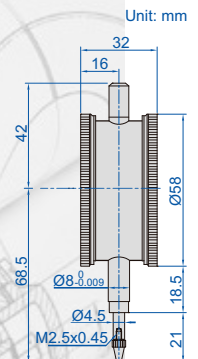


front



back

2328-10



Code	Range	Graduation	Accuracy	Hysteresis	Range/rev	Dial reading
2328-10*	10mm	0.01mm	17µm	3µm	1mm	0-100

* Supplied with manufacturer inspection certificate

DIAL INDICATORS (GRADUATION 0.1mm)

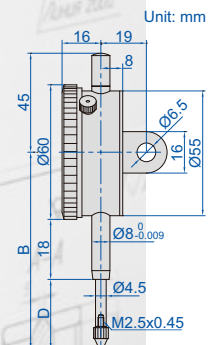
- Supplied with limit pointers and bezel clamp
- Optional accessory: backs (page 253~254), contact points (page 250~252)



2318-30

Code	Range	Graduation	Accuracy	Hysteresis	Range/rev	Dial reading	Remark	B	D
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

(mm)



DIAL INDICATORS (LONG STROKE)

INSPECTION
CERTIFICATE

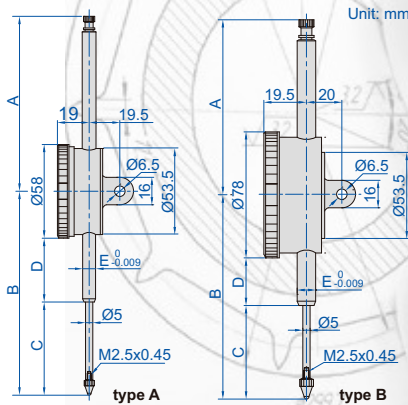
JEWELLED
BEARING

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

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

11

ONE REVOLUTION PRECISION DIAL INDICATORS

INSIZE PLUS
MADE IN EUROPE

SHOCK
PROOF

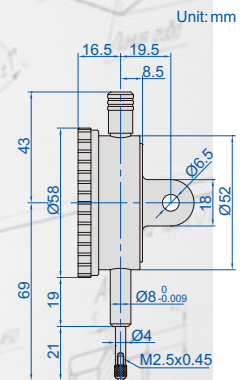
INSPECTION
CERTIFICATE

- 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 PROOF

INSPECTION CERTIFICATE

ONE REVOLUTION DIAL INDICATORS

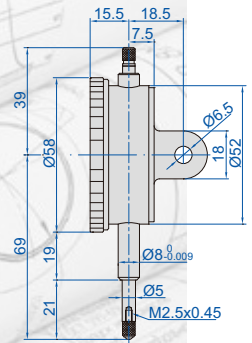
INSIZE PLUS
MADE IN EUROPE

- 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



Code	Range	Graduation	Accuracy	Hysteresis	Dial reading	Remark
2882-08 *	0.8mm	0.01mm	9µm	3µm	40-0-40	lug back
2882-08F *	0.8mm	0.01mm	9µm	3µm	40-0-40	flat back

* Supplied with manufacturer inspection certificate

SHOCK PROOF

INSPECTION CERTIFICATE

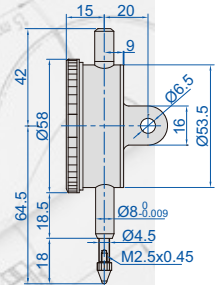
ONE REVOLUTION DIAL INDICATORS

- 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



Code	Range	Dial indicator stroke	Graduation	Accuracy	Hysteresis	Dial reading	Remark
2316-05F *	0.5mm	5mm	0.01mm	9µm	3µm	25-0-25	flat back
2316-1F *	1mm	5mm	0.01mm	9µm	3µm	50-0-50	flat back
2316-05 *	0.5mm	5mm	0.01mm	9µm	3µm	25-0-25	lug back
2316-1 *	1mm	5mm	0.01mm	9µm	3µm	50-0-50	lug back

* Supplied with manufacturer inspection certificate

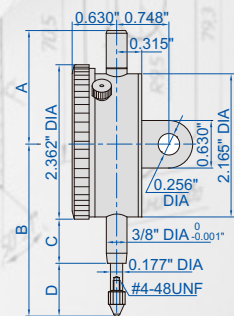
INSPECTION CERTIFICATE

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

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"

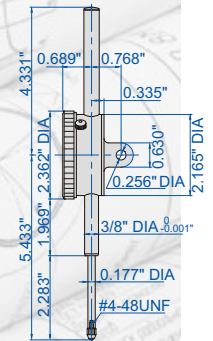
* Supplied with manufacturer inspection certificate

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



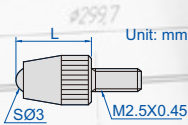
Code	Range	Accuracy		Range/rev	Dial reading
		first 2.5 rev	overall		
2326-2*	2"	±0.001"	±0.004"	0.1"	0-100

*Supplied with manufacturer inspection certificate

BALL POINTS



6282-0101

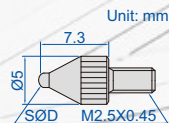


Code	Material of measuring face	L (mm)
6282-0101	carbide	7.3
6282-0103	ceramic	7.3
6282-0104	carbide	8.3
6282-0106	carbide	12.1
6282-0107	carbide	14
6282-0108	carbide	15
6282-0109	ceramic	15
6282-0110	carbide	17

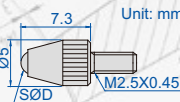
Code	Material of measuring face	L (mm)
6282-0111	carbide	19.3
6282-0112	carbide	20
6282-0113	ceramic	20
6282-0114	carbide	22
6282-0115	carbide	25
6282-0116	ceramic	25
6282-0117	carbide	30
6282-0118	ceramic	30



6282-0301



6282-0304

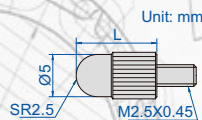


Code	Material of measuring face	SØD (mm)
6282-0301	steel	1
6282-0302	carbide	1.5
6282-0303	carbide	1.8
6282-0304	carbide	2.5
6282-0305	carbide	4

SHELL TYPE POINTS



6282-0202



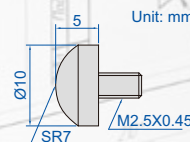
Code	Material of measuring face	L (mm)
6282-0202	steel	5
6282-0203	steel	10
6282-0205	steel	15

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

SPHERICAL POINT

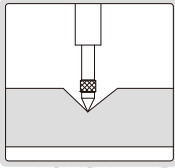


6282-0401

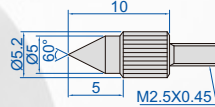


Code	Material of measuring face
6282-0401	steel

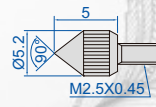
CONICAL POINTS



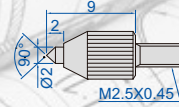
6282-0601



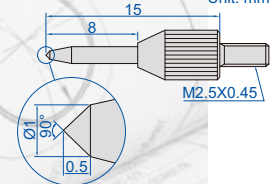
6282-0701



6282-0801

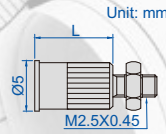


6282-0901



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

FLAT POINTS



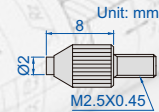
6282-1101

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

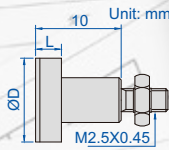


6282-1301

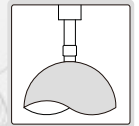
Code	Material of measuring face
6282-1301	carbide



6282-1201



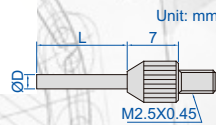
Code	Material of measuring face	ØD	L
6282-1201	steel	10mm	3mm
6282-1202	steel	15mm	4mm
6282-1203	steel	20mm	3mm
6282-1204	steel	25mm	4mm
6282-1205	steel	30mm	4mm



NEEDLE POINTS



6282-1711

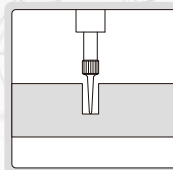
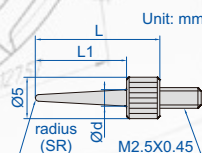


Code	Material of measuring face	ØD	L (mm)
6282-1701	steel	0.45	3
6282-1702	steel	0.45	5
6282-1703	carbide	1	3
6282-1704	carbide	1	5
6282-1705	carbide	1	8
6282-1706	carbide	1	10
6282-1707	carbide	1	20
6282-1708	carbide	1	40
6282-1709	carbide	1.5	5

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



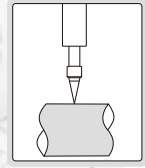
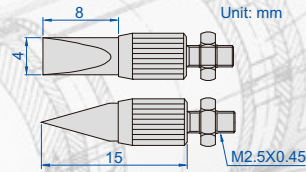
Code	Material of measuring face	L1	L	SR	Ød (mm)
6282-1601	steel	11	15	0.4	2
6282-1602	steel	13	17	0.2	2
6282-1603	steel	21	25	0.4	3
6282-1604	steel	31	35	0.4	3

KNIFE EDGE POINT

Code	Material of measuring face
6282-1001	steel



6282-1001

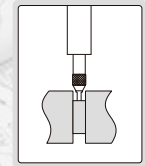
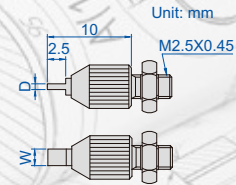


BLADE POINTS

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

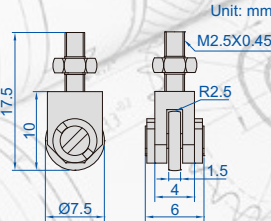


6282-1801



ROLLER POINT

Code	Material of measuring face
6282-1901	steel



6282-1901

EXTENSION RODS

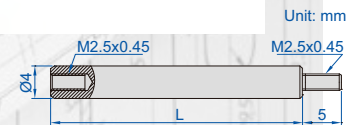
11

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

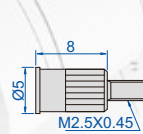


POINT SET

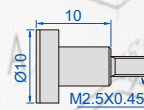


6282-S6

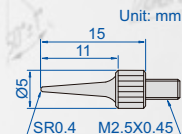
Code	Material of measuring face
6282-S6	steel



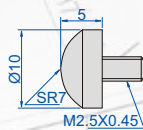
flat point



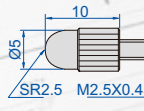
flat point



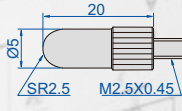
needle point



spherical point



shell type point



shell type point

SPINDLE LIFT KNOB

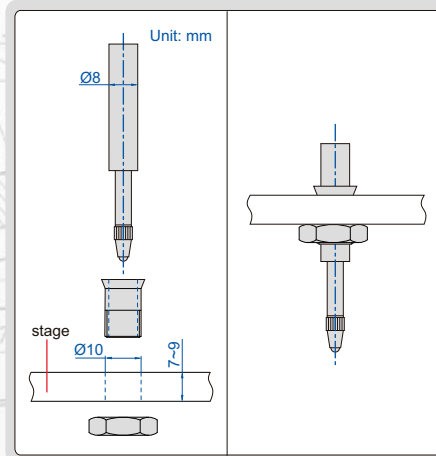
- For dial/digital indicators with spindle diameter $\varnothing 4.5\text{mm}$ or $\varnothing 5\text{mm}$



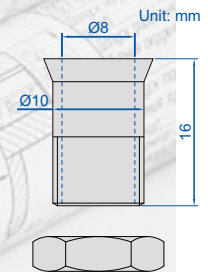
7332

Code
7332

SHAFT SLEEVE



7333



- For dial indicators and probes with shaft diameter $\varnothing 8\text{mm}$

Code
7333

MAGNETIC BACKS

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

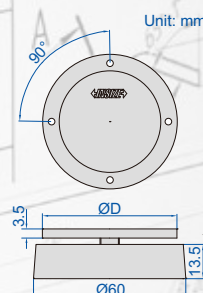


front



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
	7330-F5
2104	
2108	
2109	
2112	
2115	
2116	
2117	
2118	
2138	
2139	
2501	
2137	

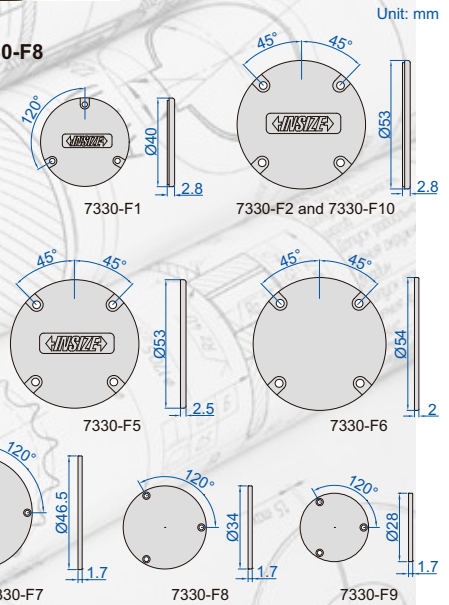


7330-F2



7330-F8

Code	For digital/ dial indicators
7330-F6	2318
	2307
	2326
7330-F7	2830
	2882
	2885
	2888
	2889
7330-F8	2891
	2892
	2890
7330-F9	2887
7330-F10	2886
	2310



Unit: mm

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
	7330-L5
2104	
2108	
2109	
2112	
2115	
2116	
2117	
2118	
2138	
2139	
2501	
2137	

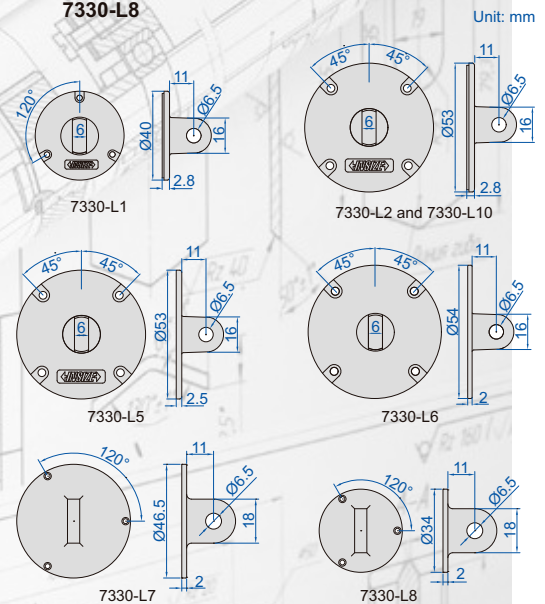


7330-L2



7330-L8

Code	For digital/ dial indicators
7330-L6	2318
	2307
	2326
7330-L7	2830
	2882
	2885
	2888
	2889
7330-L8	2891
	2892
	2890
7330-L10	2887
	2310



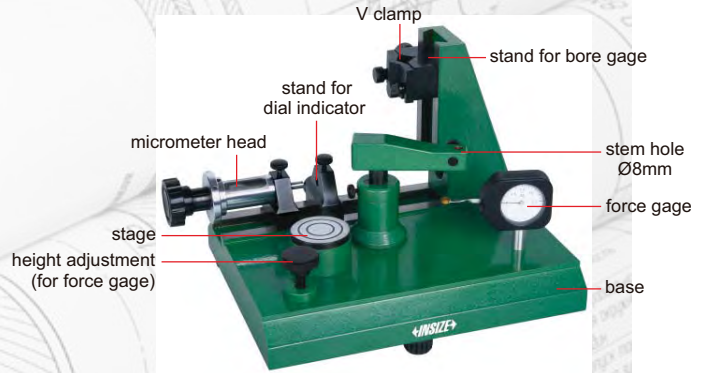
Unit: mm

ATTENTION: NOT SUITABLE FOR DIAL INDICATORS WITH GRADUATION 0.001MM



DIAL INDICATOR TESTER CODE 2396-25A

- 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)

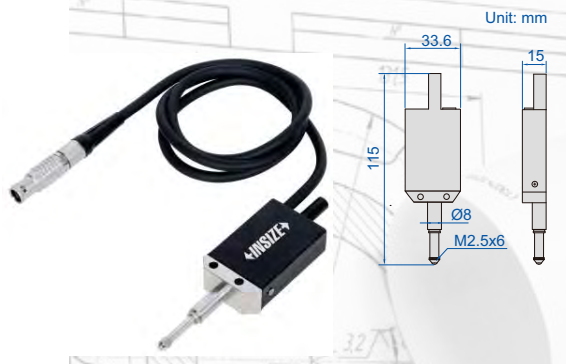
Half round gage block (optional)

Code	Parallelism
2396-block	1µm



half round gage block code 2396-block (optional)

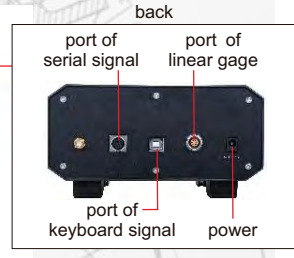
LINEAR GAGES AND DISPLAY UNIT



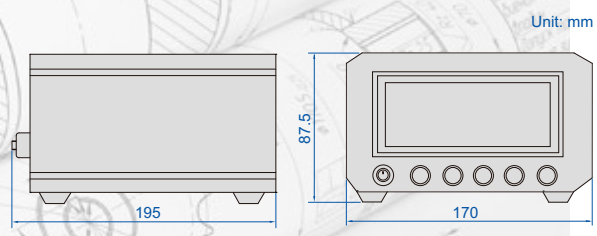
linear gage
7131-01



display unit
7131-1A



- Linear gage type: optical grating
- Display unit: display displacement data in real time, data preset, set tolerance and make judgment (out of upper tolerance, within tolerance, out of lower tolerance), set zero, change measuring direction, resolution (0.1µm/1µm), unit switch (µm/mm/inch)
- Two data transmission methods: can output keyboard signal and data can be transmitted to excel, word, txt etc, can also output serial signal and transmit data to serial communication software



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	

spindle lift knob is included



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

11

DIGITAL LINEAR GAGES

ABSOLUTE ENCODER, THE ORIGINAL DATA REMAINS AFTER POWER OFF

DUSTPROOF WATERPROOF

- 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)

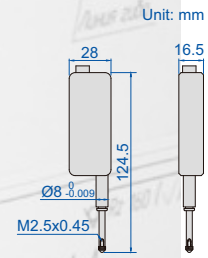


7130-10



7130-10L




INSPECTION CERTIFICATE






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	

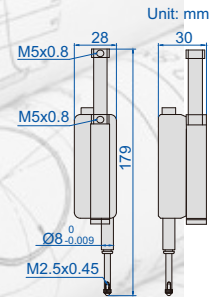
PNEUMATIC DIGITAL LINEAR GAGES



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: $\leq 1.5N$
- 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

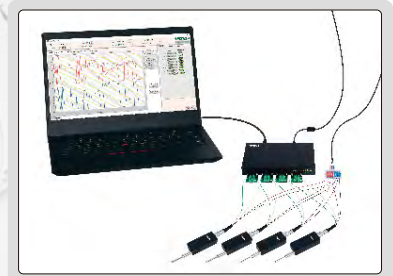
Code	Range	Repeatability	Accuracy	Outgoing cable direction	Output signal	Output interface
7134-40	0-12.5mm	1.5µm	3µm	horizontal	RS232, TTL level	
7134-40L	0-12.5mm	1.5µm	3µm	vertical	RS232, TTL level	
7134-41	0-12.5mm	1.5µm	3µm	horizontal	RS232, 232 level	
7134-41L	0-12.5mm	1.5µm	3µm	vertical	RS232, 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



7324-HUB4 application



software of linear gage (optional)

view and export historical trend

view and export historical data

real-time data

real-time trend

data trend chart

the software can set tolerance and make real-time judgment (red when out of tolerance, green when within tolerance). set zero, data collection interval time, color, type and line width of trend lines, can view and export data to Excel report or BMP image

SPECIFICATION

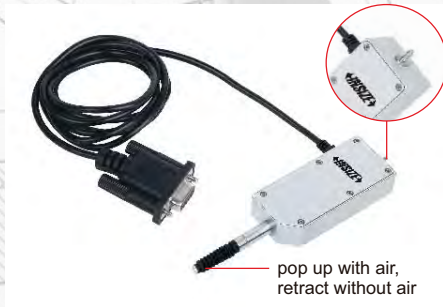
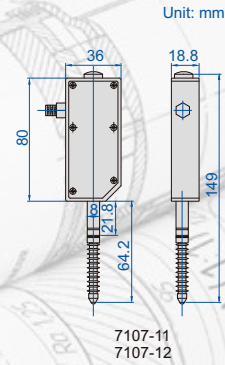
Code	7212-4A	7212-8A	7324-HUB4	7324-HUB7
Quantity of linear gages	4	8	4	7
Applicable linear gages	7130-12, 7130-12L, 7130-22, 7130-22L, 7130-32, 7130-32L, 7130-42, 7130-42L, 7134-12, 7134-12L, 7134-22, 7134-22L, 7134-32, 7134-32L, 7134-42, 7134-42L		7130-10, 7130-10L, 7130-20, 7130-20L, 7130-30, 7130-30L, 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

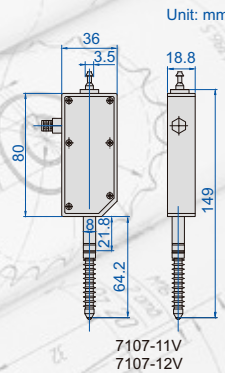
LINEAR GAGE
IP65
WATERPROOF



7107-12



7107-12V

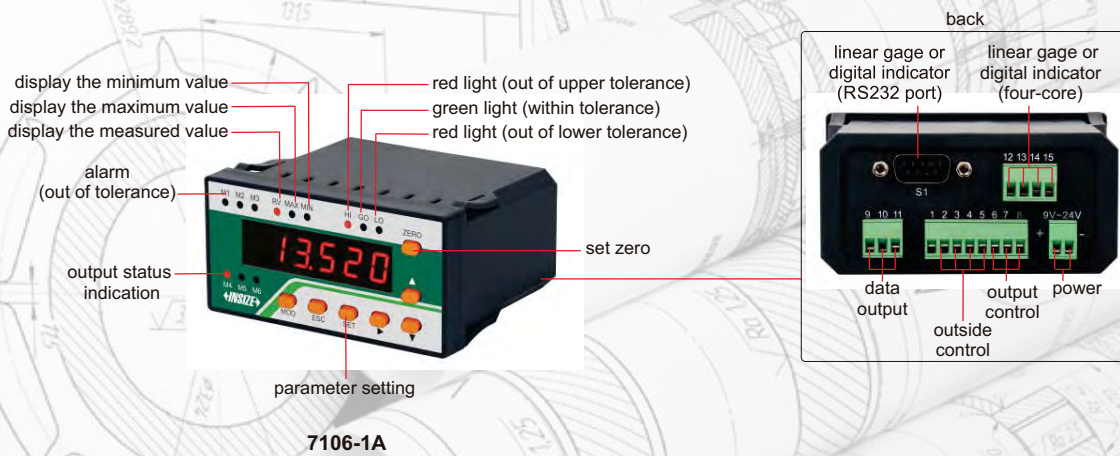


- Capacitance type linear encoder
- Shock-proof, water proof, dust proof, suitable for high speed movement, long working life
- Optional: display unit **7106-1A**, multichannel interface box **7107-1** or **7107-2**

SPECIFICATION

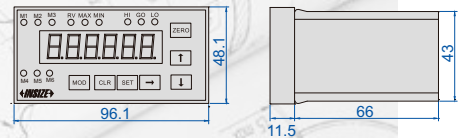
Code	7107-11	7107-12	7107-11V	7107-12V
Measuring range	12mm/0.47"	12mm/0.47"	12mm/0.47"	12mm/0.47"
Resolution	0.01mm/0.0004"	0.001mm/0.00004"	0.01mm/0.0004"	0.001mm/0.00004"
Accuracy	20µm	5µm	20µm	5µm
Hysteresis	10µm	2µm	10µm	2µm
Driving type	spring		pneumatic	
Measuring force	1.5N		adjusted by air pressure	
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



- Can be connected with **7107-11**, **7107-12**, **7107-11V** or **7107-12V** linear gage, can also be connected with digital indicator (data cable **7309-C01M** is needed)
- Set tolerance and make judgment (out of upper tolerance, within tolerance, out of lower tolerance), output the judgment to control outside devices, control from outside (set zero, hold reading and collect data)
- Software of display unit (included): in the software, it is possible to set tolerance 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

Unit: mm



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



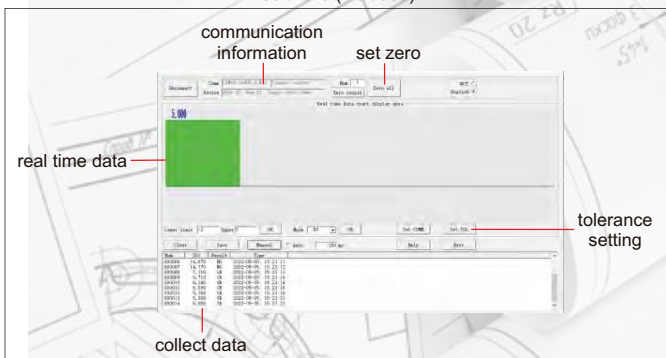
11

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



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

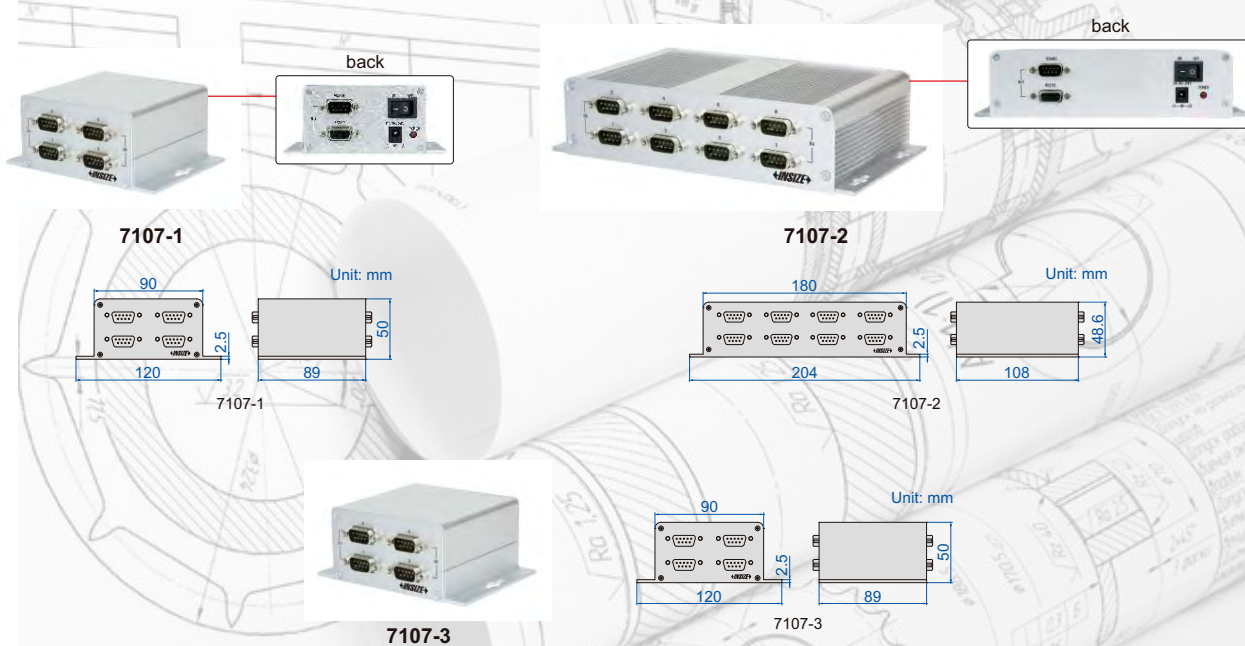
software (included)



SPECIFICATION

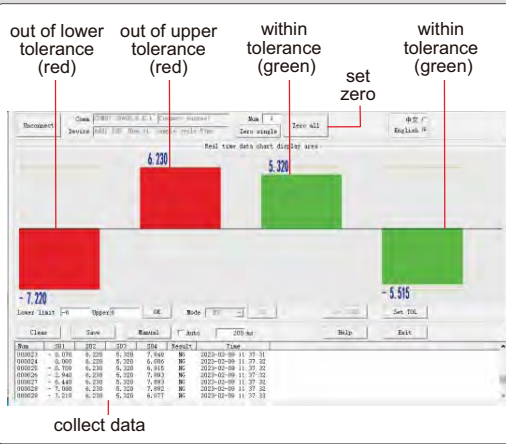
Display	6 digits
Quantity of linear gage or digital indicator to be connected	1 pc
Tolerance	set tolerance and make judgment with alarm and lights (out of upper tolerance, within tolerance, out of lower tolerance)
Output control	output the tolerance judgment (out of upper tolerance, within tolerance, 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

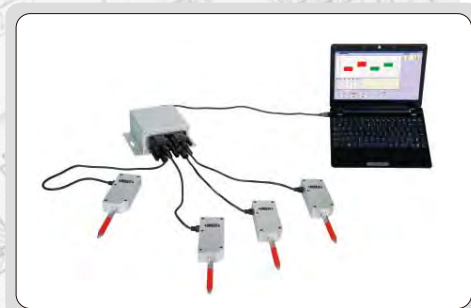


- Can be connected with **7107-11**, **7107-12**, **7107-11V** or **7107-12V** linear gages, can also be connected with digital indicators (data cable **7309-C01M** is needed)
- Connection box (code: **7107-3**) is needed to connect interface boxes, when two or more interface boxes are used. Maximum 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



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



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	

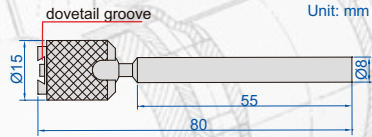
CONNECTION BOX (OPTIONAL) SPECIFICATION

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

DIAL TEST INDICATOR UNIVERSAL HOLDER



6297-1



Code

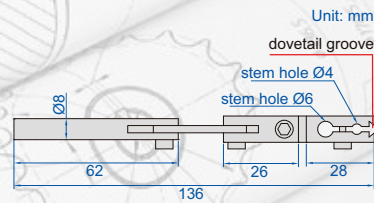
6297-1

- Set the indicators at the desired attitude to the workpiece

DIAL TEST INDICATOR HOLDER



6296-1



Code

6296-1

- Supplied with hex key

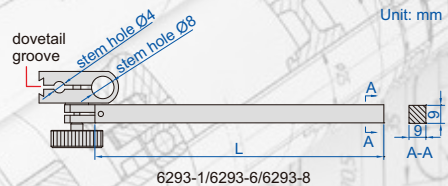
DIAL TEST INDICATOR HOLDERS



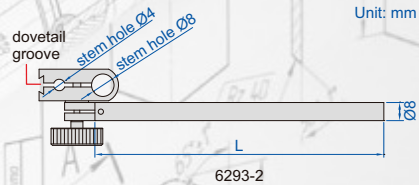
6293-1



6293-2



6293-1/6293-6/6293-8



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

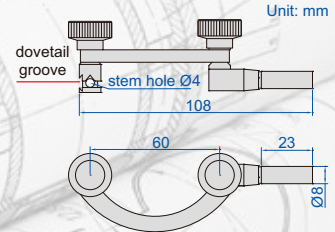


DIAL TEST INDICATOR HOLDER

- Can be used with dial test indicators



6291-1



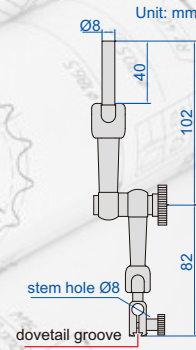
Code
6291-1

DIAL TEST INDICATOR HOLDER

- Can be used with dial test indicators



6295-1A



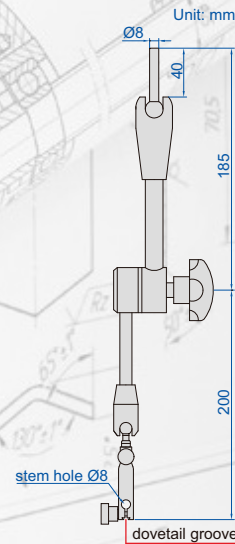
Code
6295-1A

DIAL INDICATOR HOLDER

- Can be used with dial test indicators or dial indicators



6294-1A



Code
6294-1A

HYDRAULIC UNIVERSAL MAGNETIC STANDS



6229-60



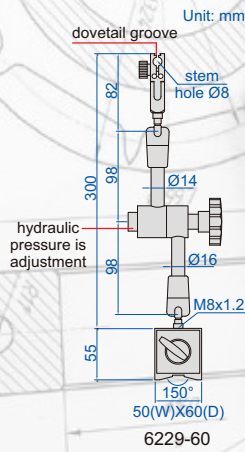
6229-80



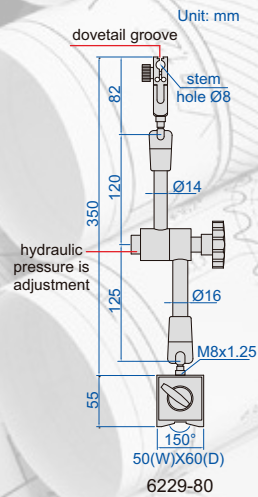
6229-100



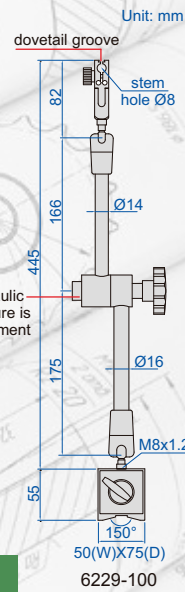
6229-101



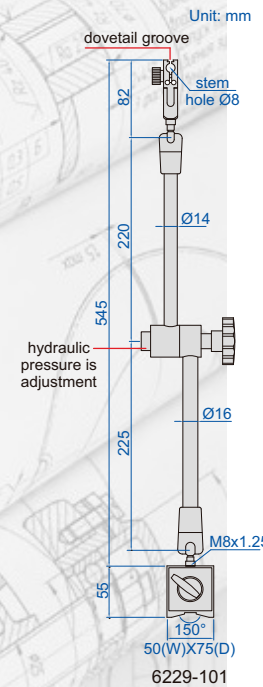
6229-60



6229-80



6229-100

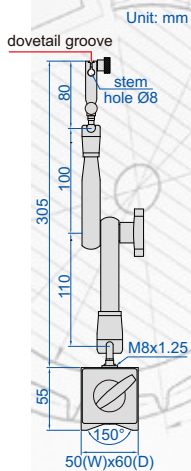


6229-101

- 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

LARGE LOCKING FORCE MAGNETIC STAND



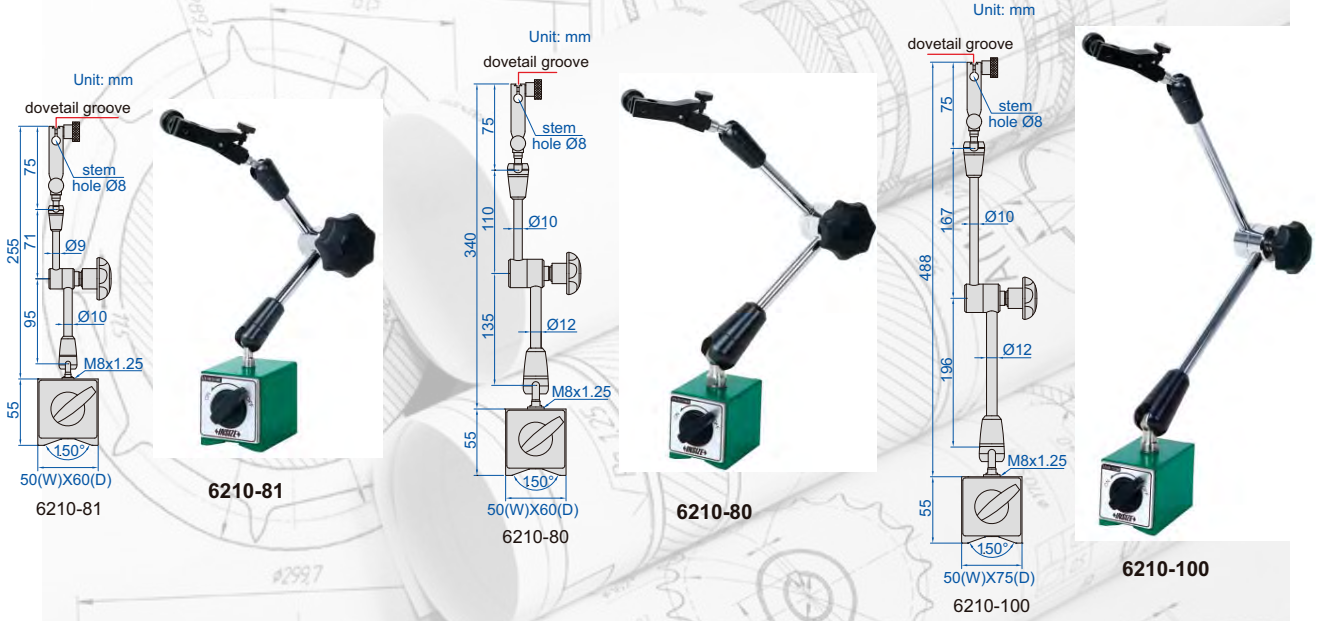
6219-80

- 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

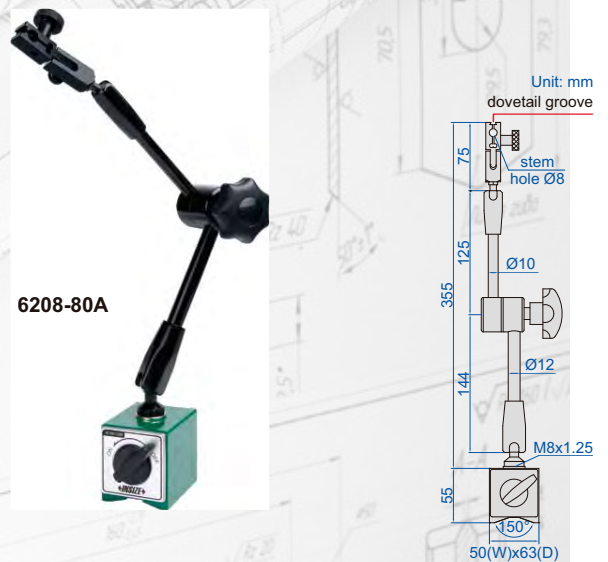
Code	Magnetic force	Applicable holding stem	Remark
6210-81	80kgf	Ø8mm	with fine adjustment and dovetail groove
6210-80	80kgf	Ø8mm	with fine adjustment and dovetail groove
6210-100	100kgf	Ø8mm	with fine adjustment and dovetail groove

11

UNIVERSAL MAGNETIC STAND (ECONOMIC TYPE)

ATTENTION: LOW LOCKING FORCE

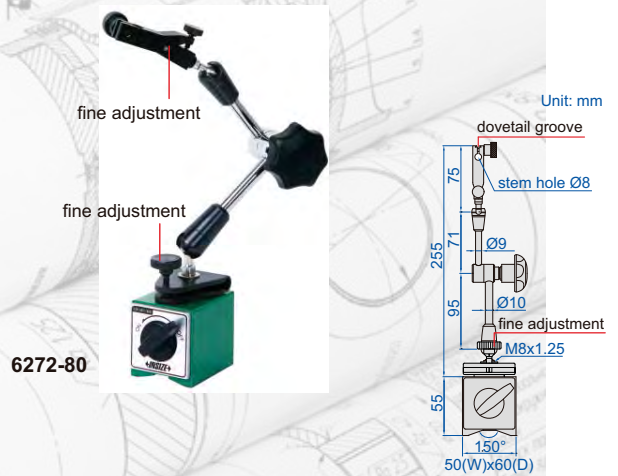
■ For digital/dial indicators and dial test indicators



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

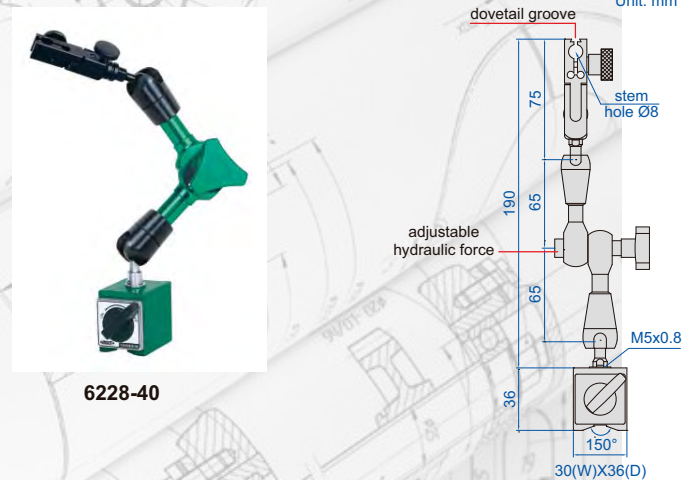


Code	Magnetic force	Applicable holding stem	Remark
6272-80	80kgf	Ø8mm	with two fine adjustments and dovetail groove

ATTENTION: FOR DIAL TEST INDICATORS ONLY

HYDRAULIC MINI MAGNETIC STAND

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



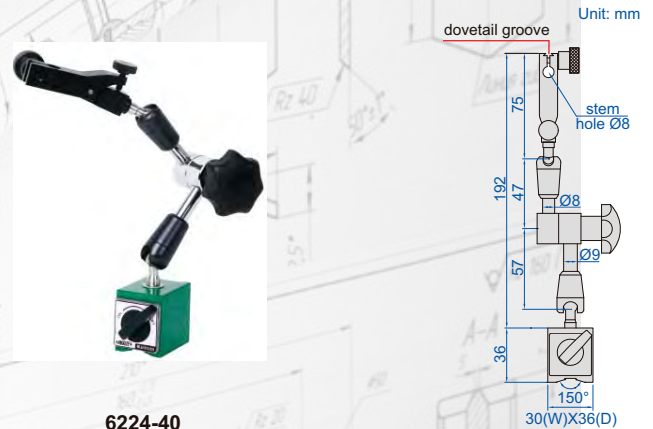
Code	Magnetic force	Applicable holding stem
6228-40	40kgf	Ø8mm

11

ATTENTION: FOR DIAL TEST INDICATORS ONLY

MINI MAGNETIC STAND

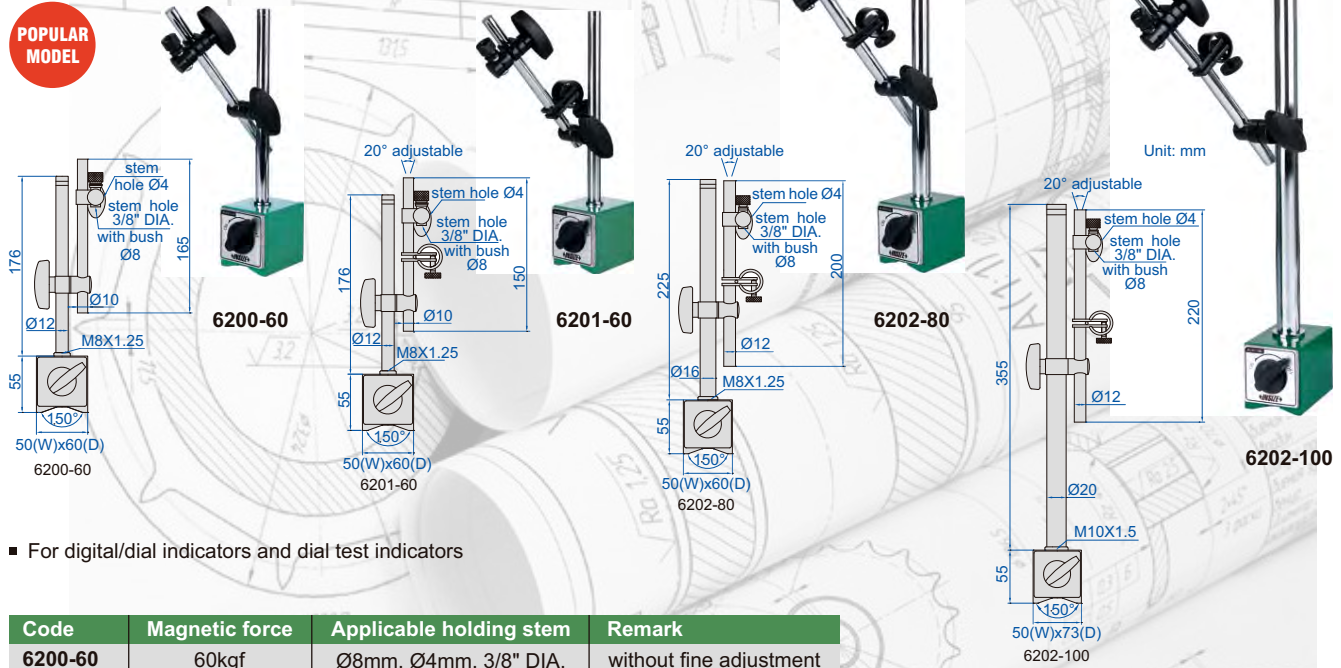
- For dial test indicators
- With fine adjustment and dovetail groove



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

MAGNETIC STANDS

POPULAR MODEL



■ For digital/dial indicators and dial test indicators

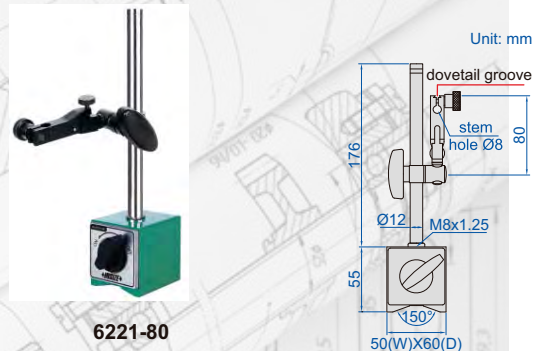
Code	Magnetic force	Applicable holding stem	Remark
6200-60	60kgf	Ø8mm, Ø4mm, 3/8" DIA.	without fine adjustment
6201-60	60kgf	Ø8mm, Ø4mm, 3/8" DIA.	with fine adjustment
6202-80	80kgf	Ø8mm, Ø4mm, 3/8" DIA.	with fine adjustment
6202-100	100kgf	Ø8mm, Ø4mm, 3/8" DIA.	with fine adjustment

MAGNETIC STAND (FOR 0.001MM DIAL AND TEST INDICATORS)

11

■ For 0.001mm and 0.01mm dial and test indicators

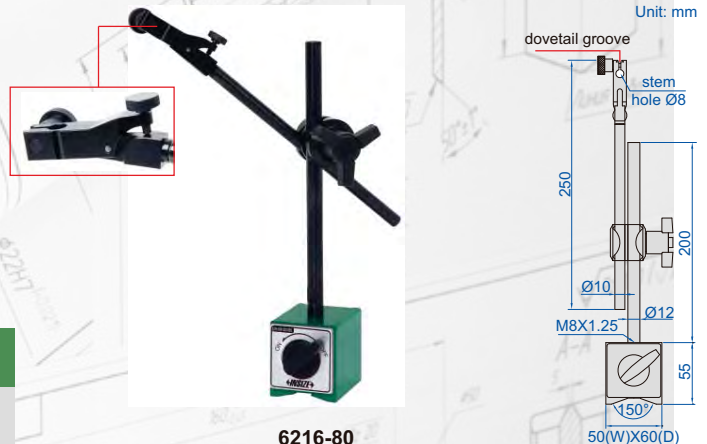
Code	Magnetic force	Applicable holding stem	Remark
6221-80	80kgf	Ø8mm	with fine adjustment and dovetail groove



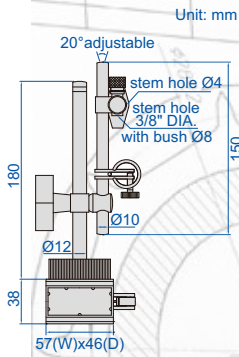
MAGNETIC STAND

■ 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

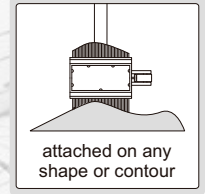


MAGNETIC STAND FOR UNEVEN SURFACES



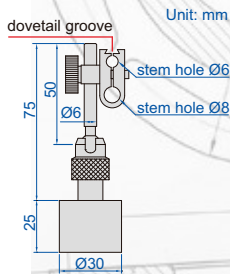
6215-60

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



Code	Magnetic force	Applicable holding stem
6215-60	60kgf	$\varnothing 8$ mm, $\varnothing 4$ mm, 3/8" DIA.

MINI MAGNETIC STAND



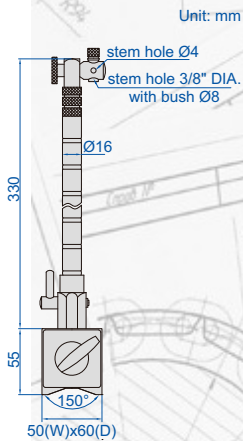
6211-10

- For dial test indicators
- With dovetail groove

ATTENTION: FOR DIAL TEST INDICATORS ONLY

Code	Magnetic force	Applicable holding stem
6211-10	10kgf	$\varnothing 6$ mm, $\varnothing 8$ mm

FLEX ARM MAGNETIC STAND



6207-80A

- For dial test indicators

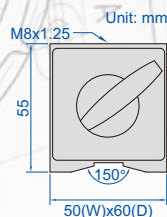
ATTENTION: FOR DIAL TEST INDICATORS ONLY

Code	Magnetic force	Applicable holding stem
6207-80A	80kgf	$\varnothing 8$ mm, $\varnothing 4$ mm, 3/8" DIA.

MAGNETIC BASES



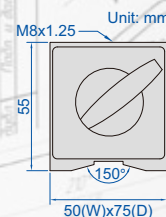
6212-80



6212-80



6212-100



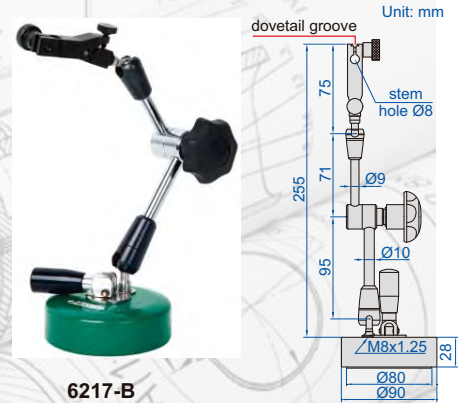
6212-100

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

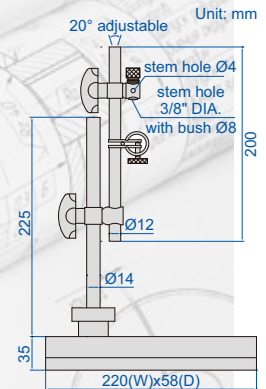
Code	Diameter of vacuum disc	Vacuum force	Applicable holding stem	Remark
6217-B	Ø80mm	80kgf	Ø8mm	with fine adjustment and dovetail groove



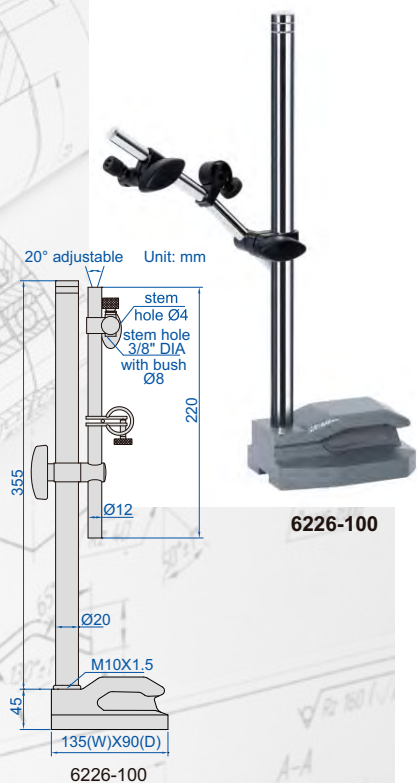
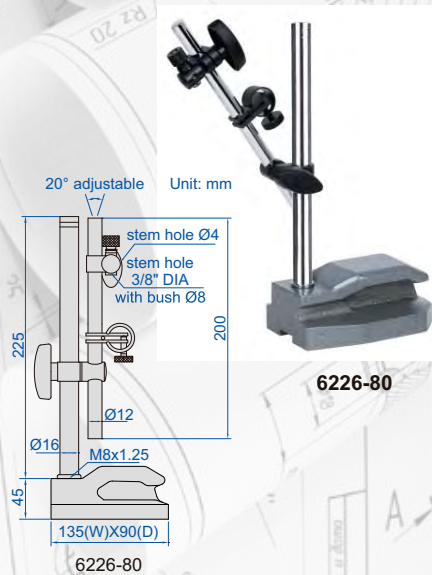
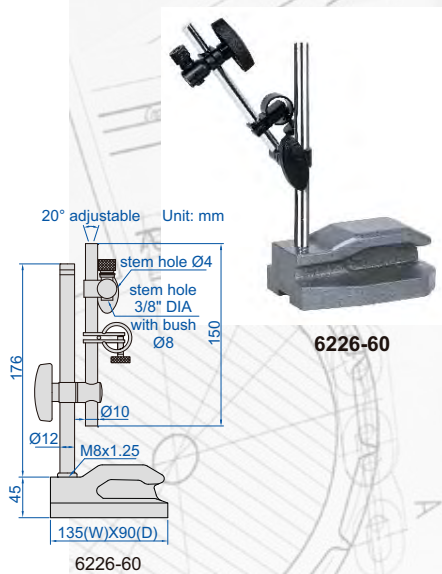
UNIVERSAL STAND

- 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)

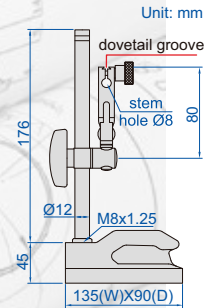


Code	Applicable holding stem	Remark
6226-60	Ø8mm, Ø4mm, 3/8" DIA	with fine adjustment
6226-80	Ø8mm, Ø4mm, 3/8" DIA	with fine adjustment
6226-100	Ø8mm, Ø4mm, 3/8" DIA	with fine adjustment

- 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

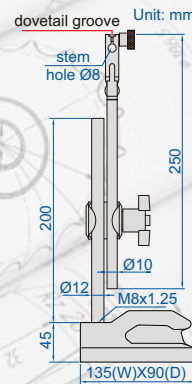


6230-60

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

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

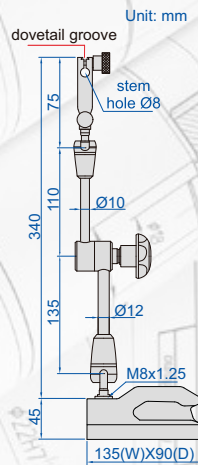


6227-80

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

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

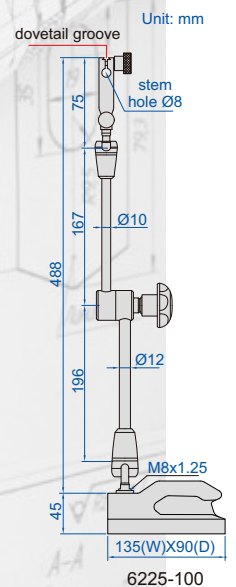


6225-80

6225-80



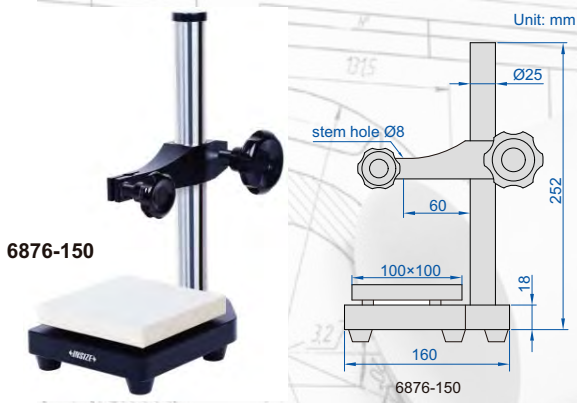
6225-100



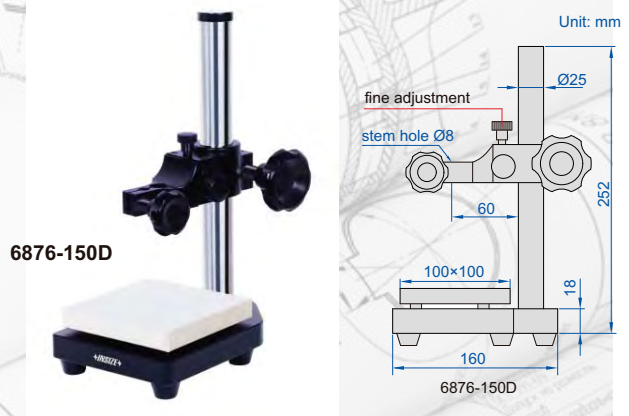
6225-100

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



6876-150

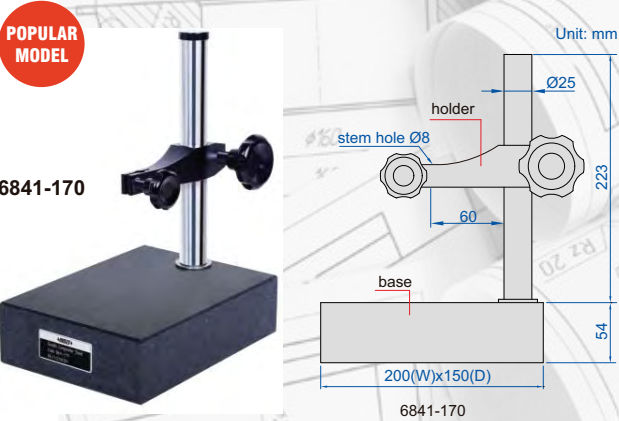


6876-150D

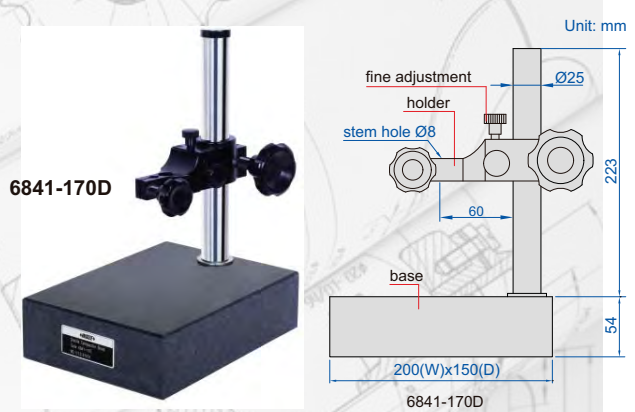
Code	Applicable holding stem	Anvil	Remark
6876-150	Ø8mm	ceramic, plain, flatness 1.5µm	without fine adjustment
6876-150D	Ø8mm	ceramic, plain, flatness 1.5µm	with fine adjustment, fine adjustment range 3mm

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

GRANITE DIAL INDICATOR STANDS (BASIC TYPE)



6841-170



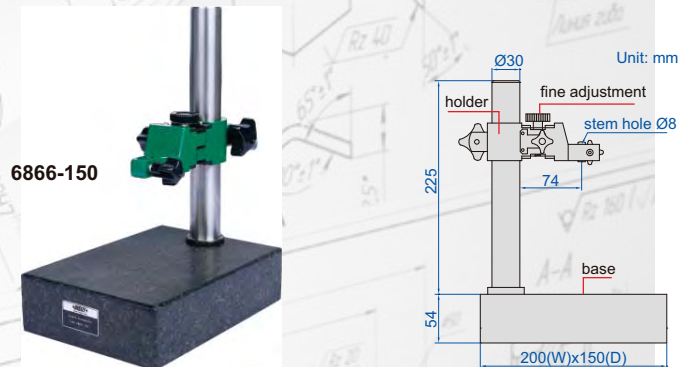
6841-170D

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

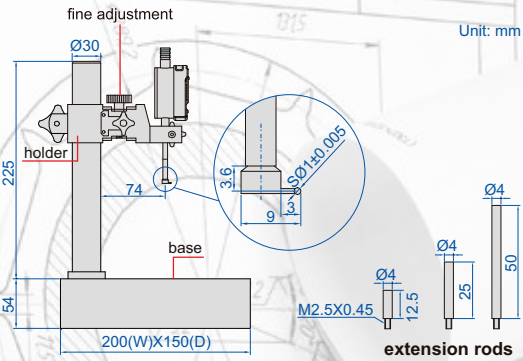


6866-150

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

DATA OUTPUT

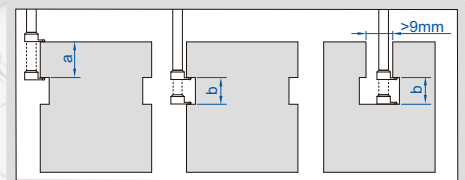
DIGITAL GROOVE MEASUREMENT STANDS



6870-150

- 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)

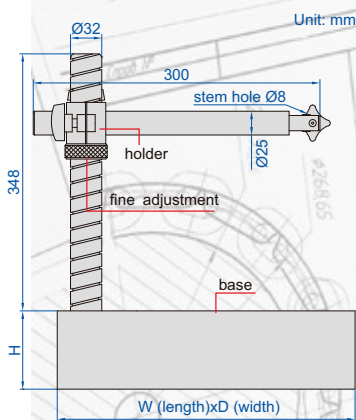
measure width (b) and depth (a) of groove



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



6867-250

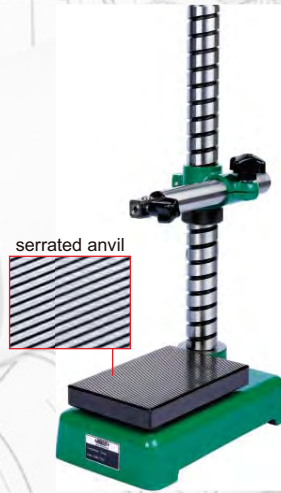
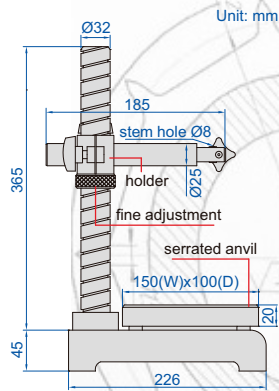


6867-400

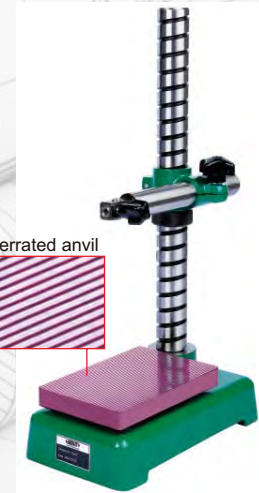
- Vertical travel of holder: 250mm
- Fine adjustment range: entire stroke
- Supplied with dust cover

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



6864-250

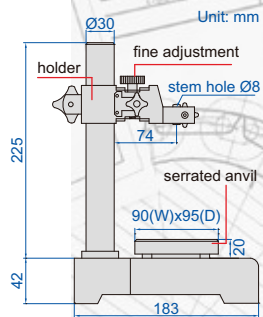


6864-250T

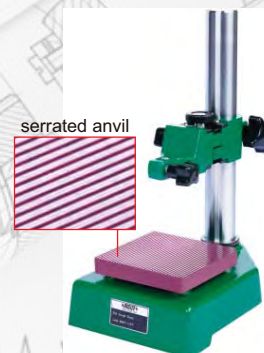
- Vertical travel of holder: 250mm
- Fine adjustment range: entire stroke
- Supplied with dust cover

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



6863-150

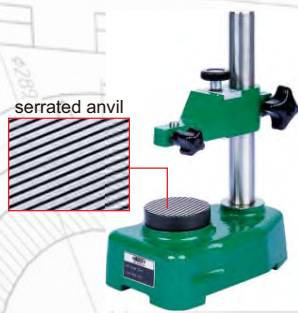


6863-150T

- 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



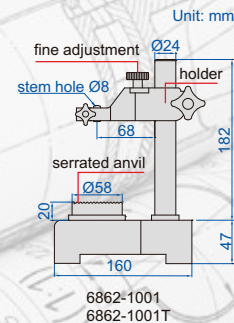
6862-1002



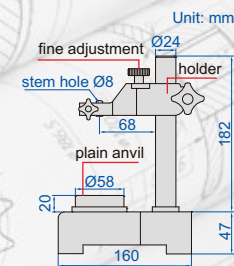
6862-1001T



6862-1002T



6862-1001
6862-1001T



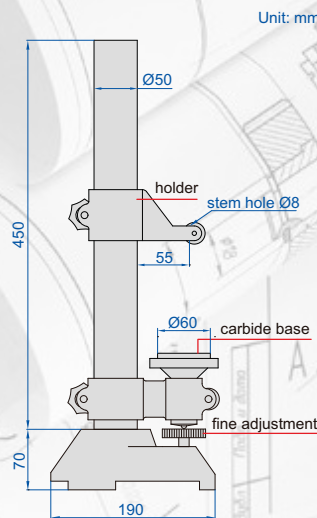
6862-1002
6862-1002T

Code	Applicable holding stem	Anvil
6862-1001	Ø8mm	steel (hardness HRC60±2), serrated, flatness 1.5µm
6862-1002	Ø8mm	steel (hardness HRC60±2), plain, flatness 1.5µm
6862-1001T	Ø8mm	ceramic, serrated, flatness 1.5µm
6862-1002T	Ø8mm	ceramic, plain, flatness 1.5µm

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

HEAVY DUTY DIAL INDICATOR STAND

- 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)



6869-300

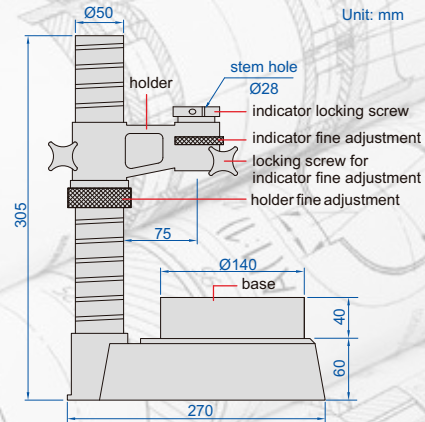
Code	Applicable holding stem	Base
6869-300	Ø8mm	plain, flatness 1µm, carbide

DIAL INDICATOR STAND

GAGE BLOCKS ARE NEEDED FOR ZERO SETTING



digital/dial indicator is optional



6842-150



locating fork for workpiece (included)



rotary lever probe (included)



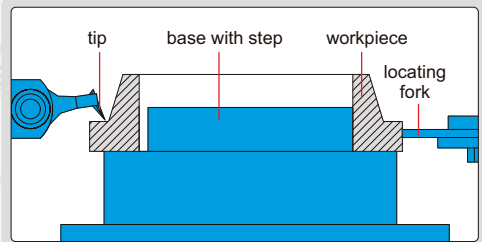
base with step (included)



11

- Vertical travel of holder: 180mm
- Holder fine adjustment range: entire stroke
- Indicator fine adjustment range: 10mm
- Optional accessory: $\varnothing 28\text{mm}/\varnothing 8\text{mm}$ 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)

the tip of rotary lever probe can reach narrow areas



Code	Applicable holding stem	Base
6842-150	$\varnothing 28\text{mm}$	flatness $2\mu\text{m}$

$\varnothing 28\text{mm}/\varnothing 8\text{mm}$ bush (optional)



Code
6843-B8

application



locating fork for workpieces

base with step



rotary lever probe



can rotate 60° , in order to change the workpieces quickly, suitable for mass measurement

GAGE BLOCKS ARE NEEDED FOR ZERO SETTING

locating fork for workpieces (included)

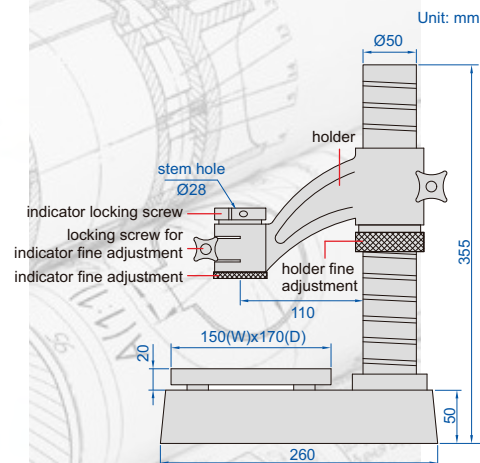


digital/dial indicator is optional



6846-140

DIAL INDICATOR STAND



Ø28mm/Ø8mm bush (optional)



Code
6843-B8

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

GAGE BLOCKS ARE NEEDED FOR ZERO SETTING

locating fork for workpieces (included)

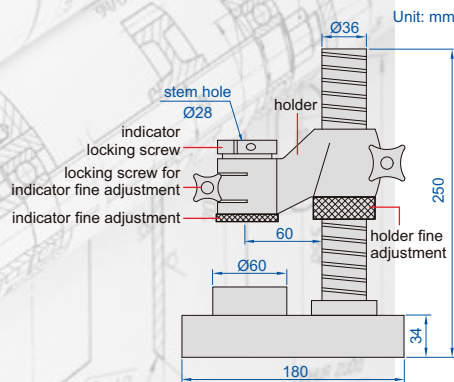


digital/dial indicator is optional



6845-100

DIAL INDICATOR STAND



Ø28mm/Ø8mm bush (optional)



Code
6843-B8

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

TRANSFER STANDS

application



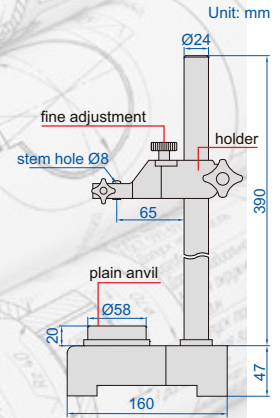
rigid construction, designed to make comparison height measurement (set zero with gage block then measure height of workpiece) with dial indicators or digital indicators (variation of measuring force is high)



6865-300



6865-300T



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

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

11

DIGITAL HEIGHT GAGES

REFER TO PAGE 85-87 FOR DETAILS



1155-505



1157-501



1158-100