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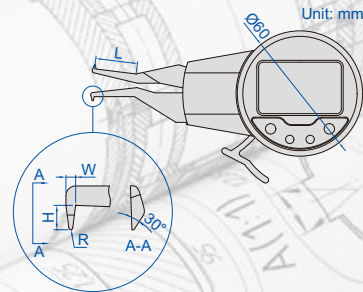
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## DIGITAL INTERNAL CALIPER GAGES

DATA OUTPUT



2121-15

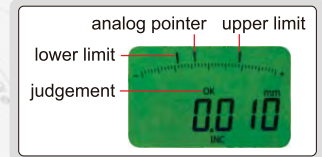


- Resolution: 0.005mm/0.0002"
- Reading in digit and analog
- Display can be rotated by 170°
- Button function: tolerance Go and No-Go display, data preset, max./min. measurement, data holding, inch/metric conversion, absolute/incremental measurement
- CR2032 battery, automatic power off
- Data output
- Optional accessory: data output cable (code 7315-30 need receiver page 4, 7302-30 page 12)

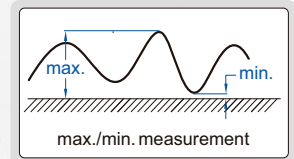
analog pointer



tolerance display



max./min.



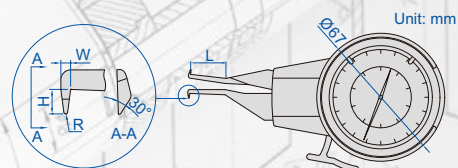
Code	Range	Accuracy	Repeatability	L	H	W	R
2121-15	5-15mm/0.2-0.6"	±0.03mm	0.01mm	20	2	1.5	R0.3
2121-25	5-25mm/0.2-1.0"	±0.03mm	0.01mm	35	1.5	1.0	R0.3
2121-31	10-30mm/0.4-1.2"	±0.03mm	0.01mm	55	5.5	2.5	R0.5
2121-41	20-40mm/0.8-1.6"	±0.03mm	0.01mm	80	6.0	3.0	R0.5
2121-51	30-50mm/1.2-2.0"	±0.03mm	0.01mm	80	8.0	3.0	R0.5
2121-61	40-60mm/1.6-2.4"	±0.03mm	0.01mm	80	8.0	3.0	R0.5

12

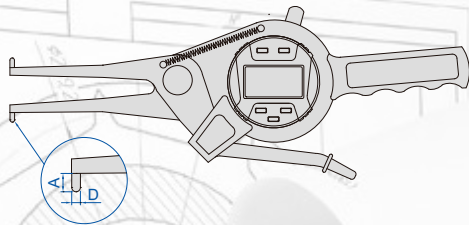
## INTERNAL DIAL CALIPER GAGES



2222-15



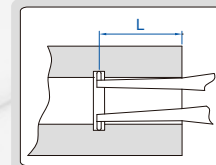
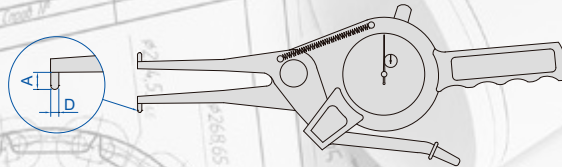
Code	Range	Graduation	Accuracy	L	H	W	R
2222-15	5-15mm	0.01mm	±0.03mm	20	2	1.5	R0.3
2222-25	5-25mm	0.01mm	±0.03mm	35	1.5	1.0	R0.3
2222-301	10-30mm	0.01mm	±0.03mm	55	5.5	2.5	R0.5
2222-401	20-40mm	0.01mm	±0.03mm	80	6.0	3.0	R0.5
2222-501	30-50mm	0.01mm	±0.03mm	80	8.0	3.0	R0.5
2222-60	40-60mm	0.01mm	±0.03mm	80	8.0	3.0	R0.5

**DATA OUTPUT**
**DIGITAL INTERNAL CALIPER GAGES**

**2151-35**

- Carbide measuring tips
- Reading in digit and analog
- With transmission button and signal light
- 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, data output, absolute/incremental measurement
- CR2032 battery, automatic power off (time is adjustable)
- Data output
- Optional accessory: data output cable (code **7315-50M** need receiver page 5, **7302-50M** page 13)

Code	Range	Resolution	Accuracy	L	A	D
<b>2151-35</b>	15-35mm/0.6-1.4"	0.01mm/0.0005"	±0.04mm	<50	3	Ø3
<b>2151-AL35</b>	15-35mm/0.6-1.4"	0.01mm/0.0005"	±0.04mm	<200	3	Ø3
<b>2151-55</b>	35-55mm/1.4-2.2"	0.01mm/0.0005"	±0.04mm	<80	6	Ø3
<b>2151-AL55</b>	35-55mm/1.4-2.2"	0.01mm/0.0005"	±0.04mm	<250	8	Ø3
<b>2151-75</b>	55-75mm/2.2-3"	0.01mm/0.0005"	±0.04mm	<90	8	Ø3
<b>2151-AL75</b>	55-75mm/2.2-3"	0.01mm/0.0005"	±0.04mm	<250	8	Ø3
<b>2151-95</b>	75-95mm/3-3.8"	0.01mm/0.0005"	±0.04mm	<100	8	Ø3
<b>2151-115</b>	95-115mm/3.8-4.6"	0.01mm/0.0005"	±0.04mm	<120	10	Ø3.2
<b>2151-135</b>	115-135mm/4.6-5.4"	0.01mm/0.0005"	±0.04mm	<120	10	Ø3.2

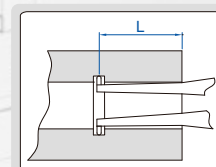
(mm)


**INTERNAL DIAL CALIPER GAGES**

**2321-35**

- Carbide measuring tips

Code	Range	Graduation	Accuracy	L	A	D
<b>2321-35</b>	15-35mm	0.01mm	±0.04mm	<50	3	Ø3
<b>2321-AL35</b>	15-35mm	0.01mm	±0.04mm	<200	3	Ø3
<b>2321-55</b>	35-55mm	0.01mm	±0.04mm	<80	6	Ø3
<b>2321-AL55</b>	35-55mm	0.01mm	±0.04mm	<250	8	Ø3
<b>2321-75</b>	55-75mm	0.01mm	±0.04mm	<90	8	Ø3
<b>2321-AL75</b>	55-75mm	0.01mm	±0.04mm	<250	8	Ø3
<b>2321-95</b>	75-95mm	0.01mm	±0.04mm	<100	8	Ø3
<b>2321-115</b>	95-115mm	0.01mm	±0.04mm	<120	10	Ø3.2
<b>2321-135</b>	115-135mm	0.01mm	±0.04mm	<120	10	Ø3.2

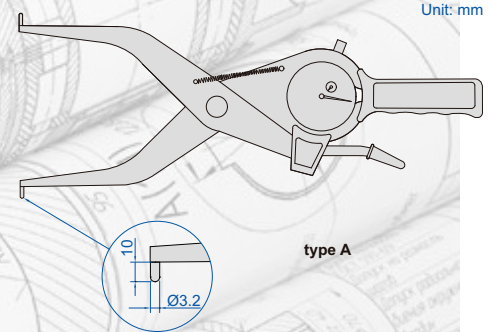
(mm)



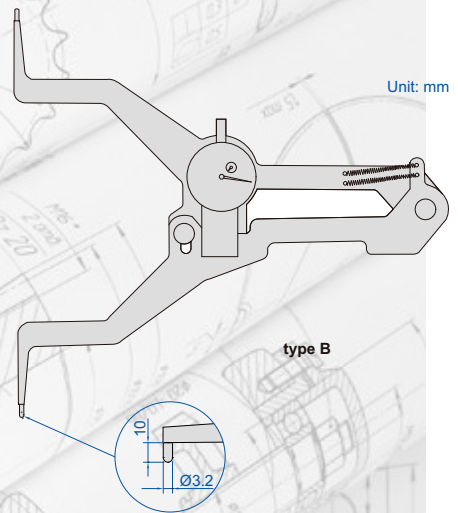
**LARGE RANGE INTERNAL DIAL CALIPER GAGES**



2334-155

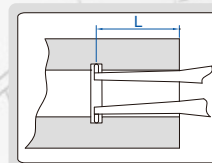


2334-335

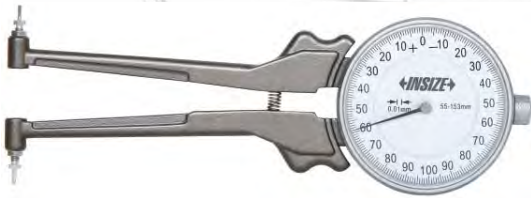


■ Carbide measuring tips

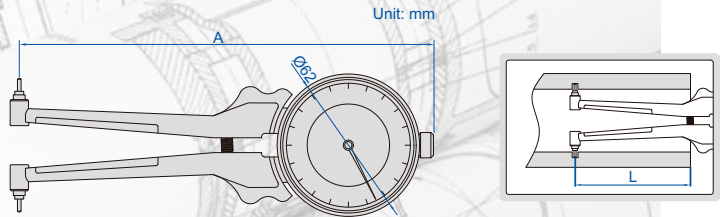
Code	Range	Graduation	Accuracy	Type	L (mm)
2334-155	135-155mm	0.01mm	±0.04mm	A	<200
2334-175	155-175mm	0.01mm	±0.04mm	A	<200
2334-195	175-195mm	0.01mm	±0.04mm	A	<200
2334-215	195-215mm	0.01mm	±0.04mm	A	<200
2334-235	215-235mm	0.01mm	±0.04mm	A	<200
2334-255	235-255mm	0.01mm	±0.04mm	A	<200
2334-275	255-275mm	0.01mm	±0.04mm	A	<200
2334-295	275-295mm	0.01mm	±0.04mm	A	<200
2334-315	295-315mm	0.01mm	±0.04mm	A	<200
2334-335	315-335mm	0.01mm	±0.04mm	B	<200
2334-355	335-355mm	0.01mm	±0.04mm	B	<200
2334-375	355-375mm	0.01mm	±0.04mm	B	<200



## INTERNAL DIAL CALIPER GAGES WITH INTERCHANGEABLE POINTS

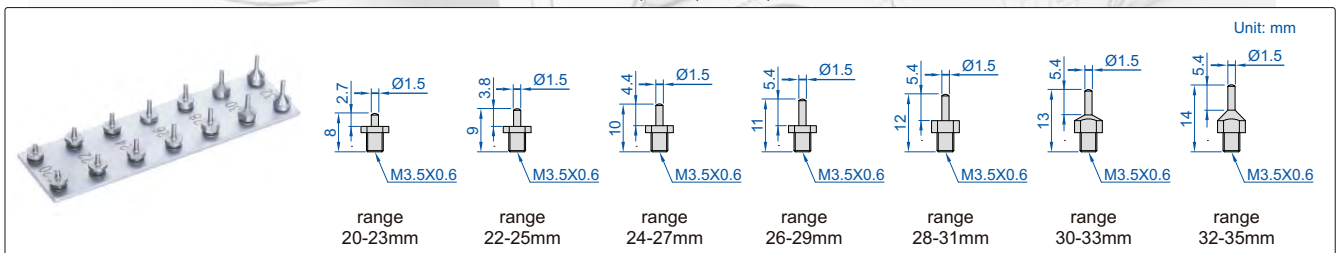


2223-153

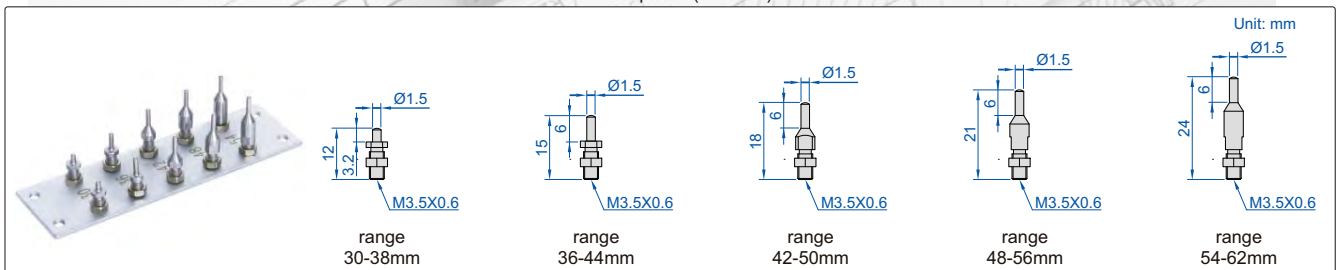


Code	Range	Dial indicator range	Graduation	Accuracy	A	L	Remark
2223-35	20-35mm	2mm	0.01mm	±0.02mm	164mm	<70mm	supplied with 7 pairs of points
2223-62	30-62mm	2mm	0.01mm	±0.02mm	170mm	<75mm	supplied with 5 pairs of points
2223-153	55-153mm	2mm	0.01mm	±0.02mm	179mm	<90mm	supplied with 6 pairs of points

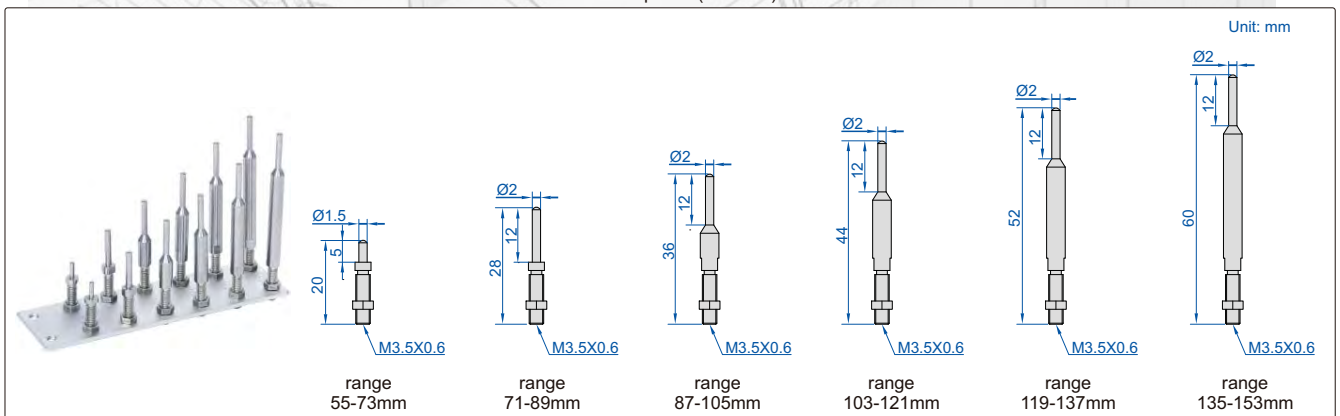
2223-35 points (included)



2223-62 points (included)



2223-153 points (included)

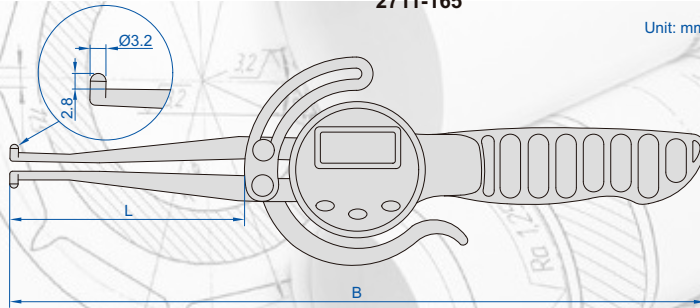


**DIGITAL INTERNAL CALIPER GAGES (ECONOMIC TYPE)**

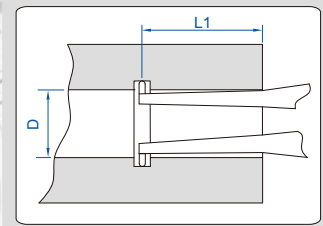


2711-165

Unit: mm



sizes to be measured



		(mm)		(mm)	
		Code 2711-165		Code 2711-216	
	D	L1	D	L1	
	Ø13	<42	Ø13	<50	
	Ø15	<45	Ø15	<55	
	Ø17	<50	Ø17	<60	
	Ø20	<60	Ø20	<65	
	Ø25	<75	Ø25	<75	
	Ø27	<80	Ø30	<95	
	Ø29~165	<85	Ø35~216	<160	

- Button function: on/off, zero, mm/inch, data hold
- Battery CR2032, automatic power off

Code	Range	Resolution	Accuracy	Repeatability	L	B
2711-165	12.7-165mm/0.5-6.5"	0.1mm/0.01"	±0.3mm	0.2mm	85	252
2711-216	12.7-216mm/0.5-8.5"	0.1mm/0.01"	±0.3mm	0.2mm	160	327

**DIGITAL EXTERNAL CALIPER GAGES**

DATA OUTPUT

12

- Resolution: 0.005mm/0.0002"
- Reading in digit and analog
- Display can be rotated by 170°
- Button function: tolerance Go and No-Go display, data preset, max./min. measurement, data holding, inch/metric conversion, absolute/incremental measurement
- CR2032 battery, automatic power off
- Data output
- Optional accessory: data output cable (code 7315-30 need receiver page 4, 7302-30 page 12)



2131-21

Unit: mm

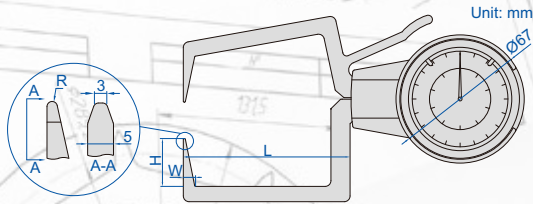
analog pointer

tolerance display

max./min.

Code	Range	Accuracy	Repeatability	L	H	W	R
2131-21	0-20mm/0-0.8"	±0.03mm	0.01mm	80mm	25mm	6.5mm	R0.5mm
2131-31	10-30mm/0.4-1.2"	±0.03mm	0.01mm	80mm	25mm	6.5mm	R0.5mm
2131-41	20-40mm/0.8-1.6"	±0.03mm	0.01mm	80mm	25mm	6.5mm	R0.5mm
2131-51	30-50mm/1.2-2.0"	±0.03mm	0.01mm	80mm	25mm	6.5mm	R0.5mm
2131-61	40-60mm/1.6-2.4"	±0.03mm	0.01mm	80mm	25mm	6.5mm	R0.5mm

## EXTERNAL DIAL CALIPER GAGES



Unit: mm

(mm)

Code	Range	Graduation	Accuracy	L	H	W	R
2333-201	0-20mm	0.01mm	±0.03mm	80	25	6.5	R0.5
2333-301	10-30mm	0.01mm	±0.03mm	80	25	6.5	R0.5
2333-401	20-40mm	0.01mm	±0.03mm	80	25	6.5	R0.5
2333-501	30-50mm	0.01mm	±0.03mm	80	25	6.5	R0.5
2333-601	40-60mm	0.01mm	±0.03mm	80	25	6.5	R0.5

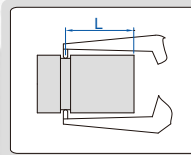


2333-201

## DIGITAL EXTERNAL CALIPER GAGES

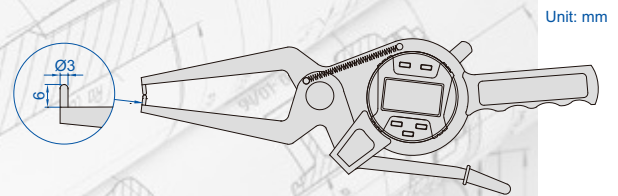
DATA OUTPUT

- Carbide measuring tips
- Reading in digit and analog
- With transmission button and signal light
- 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
- CR2032 battery
- Automatic power off (time is adjustable)
- Data output
- Optional accessory: data output cable (code 7315-50M need receiver page 5, 7302-50M page 13)



2132-20

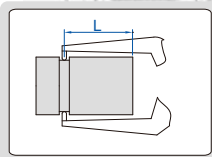
Code	Range	Resolution	Accuracy	L
2132-20	0-20mm/0-0.8"	0.01mm/0.0005"	±0.04mm	<60mm
2132-40	20-40mm/0.8-1.6"	0.01mm/0.0005"	±0.04mm	<60mm
2132-60	40-60mm/1.6-2.4"	0.01mm/0.0005"	±0.04mm	<55mm
2132-80	60-80mm/2.4-3.2"	0.01mm/0.0005"	±0.04mm	<55mm
2132-100	80-100mm/3.2-4"	0.01mm/0.0005"	±0.04mm	<55mm



Unit: mm

12

## EXTERNAL DIAL CALIPER GAGES



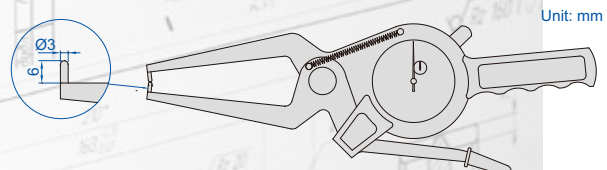
- Carbide measuring tips

(mm)

Code	Range	Graduation	Accuracy	L
2332-20	0-20mm	0.01mm	±0.04mm	<60
2332-40	20-40mm	0.01mm	±0.04mm	<60
2332-60	40-60mm	0.01mm	±0.04mm	<55
2332-80	60-80mm	0.01mm	±0.04mm	<55
2332-100	80-100mm	0.01mm	±0.04mm	<55



2332-20



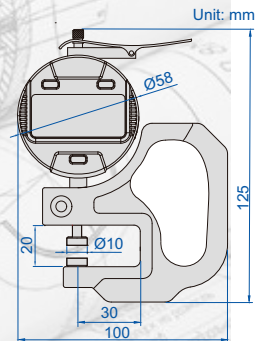
Unit: mm

## DIGITAL THICKNESS GAGES

POPULAR MODEL

DATA OUTPUT

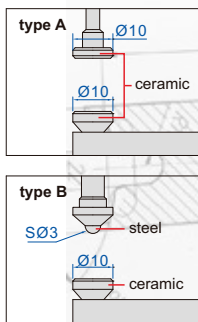
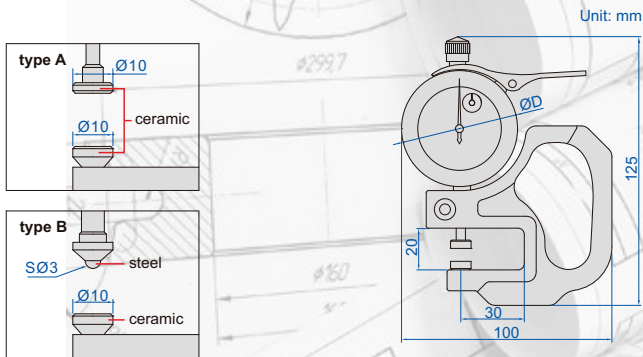
- Ceramic spindle tip and anvil
- Button function: on/off, inch/mm, zero, data preset, change measuring direction, absolute/incremental measurement
- Keep preset data in memory after restart
- CR2032 battery, automatic power off (time is adjustable)
- Data output
- Optional accessory: data output cable (code **7315-50M** need receiver page 5, **7302-50M** page 13)



2871-101

Code	Range	Resolution	Accuracy
2871-10	0-10mm/0-0.4"	0.01mm/0.0005"	±0.02mm
2871-101	0-10mm/0-0.4"	0.001mm/0.00005"	±0.005mm

## THICKNESS GAGES



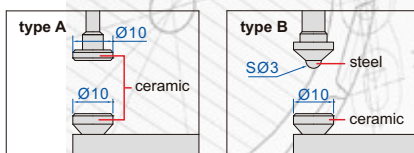
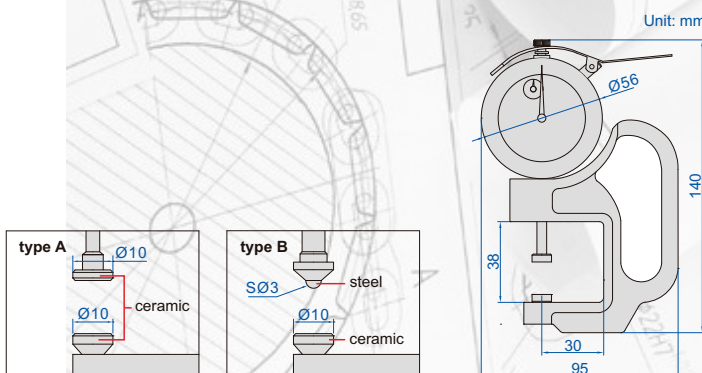
2364-10

2364-1

Code	Range	Graduation	Accuracy	Type	ØD
2364-10	0-10mm	0.01mm	±0.02mm	A	58mm
2364-10B	0-10mm	0.01mm	±0.02mm	B	58mm
2364-1	0-1mm	0.001mm	±0.005mm	A	56mm

12

## THICKNESS GAGES



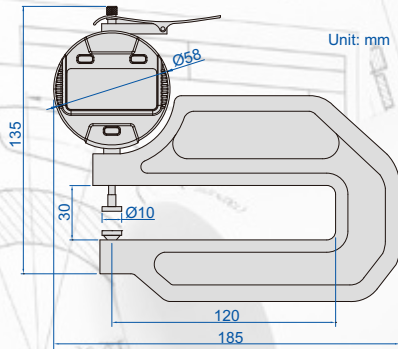
2366-30

Code	Range	Graduation	Accuracy	Type
2366-30	0-30mm	0.01mm	±0.035mm	A
2366-30B	0-30mm	0.01mm	±0.035mm	B



**DATA OUTPUT**

measuring tips and anvils can be custom-made



**DIGITAL THICKNESS GAGES**

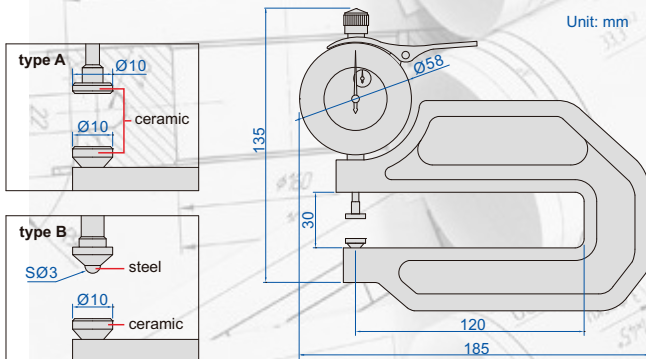


2872-10

Code	Range	Resolution	Accuracy
2872-10	0-10mm/0-0.4"	0.01mm/0.0005"	±0.02mm
2872-101	0-10mm/0-0.4"	0.001mm/0.00005"	±0.01mm

- Ceramic spindle tip and anvil
- Buttons: on/off, inch/mm, zero, data preset, change measuring direction, absolute/incremental measurement
- Keep preset data in memory after restart
- Battery CR2032, automatic power off (time is adjustable)
- Data output
- Optional accessory: data output cable (code 7315-50M need receiver page 5, 7302-50M page 13)

**THICKNESS GAGES**



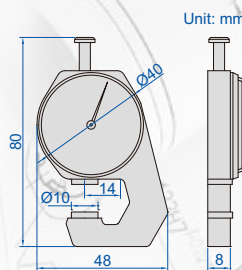
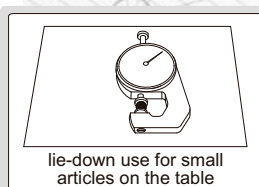
2365-10

measuring tips and anvils can be custom-made



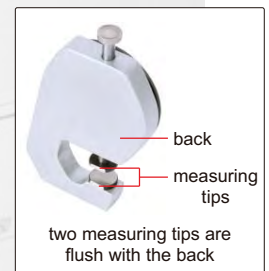
Code	Range	Graduation	Accuracy	Type
2365-10	0-10mm	0.01mm	±0.02mm	A
2365-20	0-20mm	0.01mm	±0.03mm	A
2365-10B	0-10mm	0.01mm	±0.02mm	B
2365-20B	0-20mm	0.01mm	±0.03mm	B

**SUITABLE FOR JEWELLERY**



2361-10

**THICKNESS GAGE**



Code	Range	Graduation	Accuracy
2361-10	0-10mm	0.1mm	±0.05mm

## THICKNESS GAGE

- Stainless steel spindle tip and anvil

Code	Range	Graduation	Accuracy
2363-10	0-10mm	0.01mm	±0.03mm



2363-10

## DIGITAL ROLLER THICKNESS GAGES

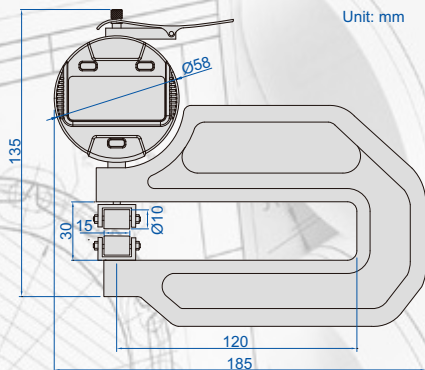
DATA OUTPUT



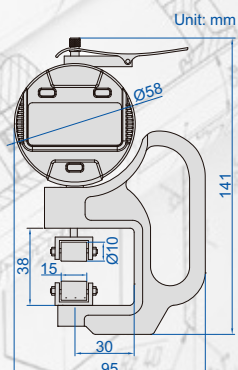
2877-4



2877-10



2877-4/2877-41



2877-10/2877-101

- Buttons: on/off, inch/mm, zero, data preset, change measuring direction, absolute/incremental measurement
- Keep preset data in memory after restart
- Battery CR2032, automatic power off (time is adjustable)
- Data output
- Optional accessory: data output cable (code 7315-50M need receiver page 5, 7302-50M page 13)

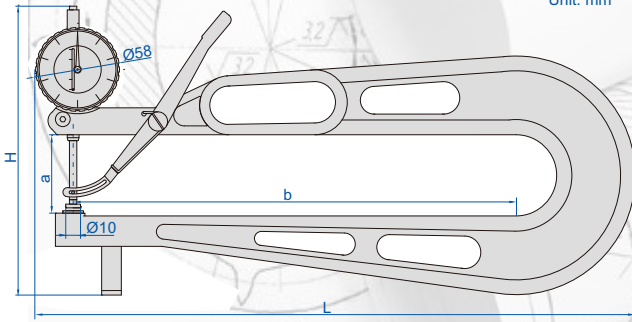
Code	Range	Resolution	Accuracy
2877-4	0-4.5mm/0-0.18"	0.01mm/0.0005"	±0.02mm
2877-41	0-4.5mm/0-0.18"	0.001mm/0.00005"	±0.01mm
2877-10	0-10mm/0-0.4"	0.01mm/0.0005"	±0.02mm
2877-101	0-10mm/0-0.4"	0.001mm/0.00005"	±0.01mm

**THICKNESS GAGES**

**INSIZE PLUS**  
MADE IN EUROPE



Unit: mm



2875-30

Code	Range	Graduation	Accuracy	L	H	a	b
2875-30	0-30mm	0.1mm	±0.05mm	400mm	195mm	55mm	300mm
2875-50	0-50mm	0.1mm	±0.05mm	700mm	295mm	75mm	600mm

**INSPECTION CERTIFICATE**

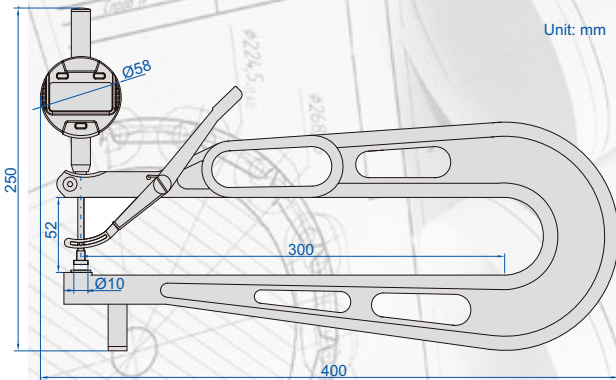
**DATA OUTPUT**

**DIGITAL THICKNESS GAGE**

**INSIZE PLUS**  
MADE IN EUROPE



Unit: mm



2860-25

- Buttons: on/off, inch/mm, zero, data preset, change measuring direction, absolute/incremental measurement
- Keep preset data in memory after restart
- Battery CR2032, automatic power off (time is adjustable)
- Data output
- Optional accessory: data output cable (code 7315-50M need receiver page 5, 7302-40M page 13)

Code	Range	Resolution	Accuracy
2860-25*	0-25.4mm/0-1"	0.01mm/0.0005"	±0.05mm

\* Supplied with manufacturer inspection certificate

# HIGH PRECISION DIGITAL THICKNESS GAGES

ATTENTION: RECHARGEABLE BATTERY, FOR 12 HOURS CONTINUOUS WORKING

DATA OUTPUT

MEASURING TIPS AND ANVILS CAN BE CUSTOM-MADE

ABSOLUTE ENCODER, THE ORIGINAL DATA REMAINS AFTER POWER OFF



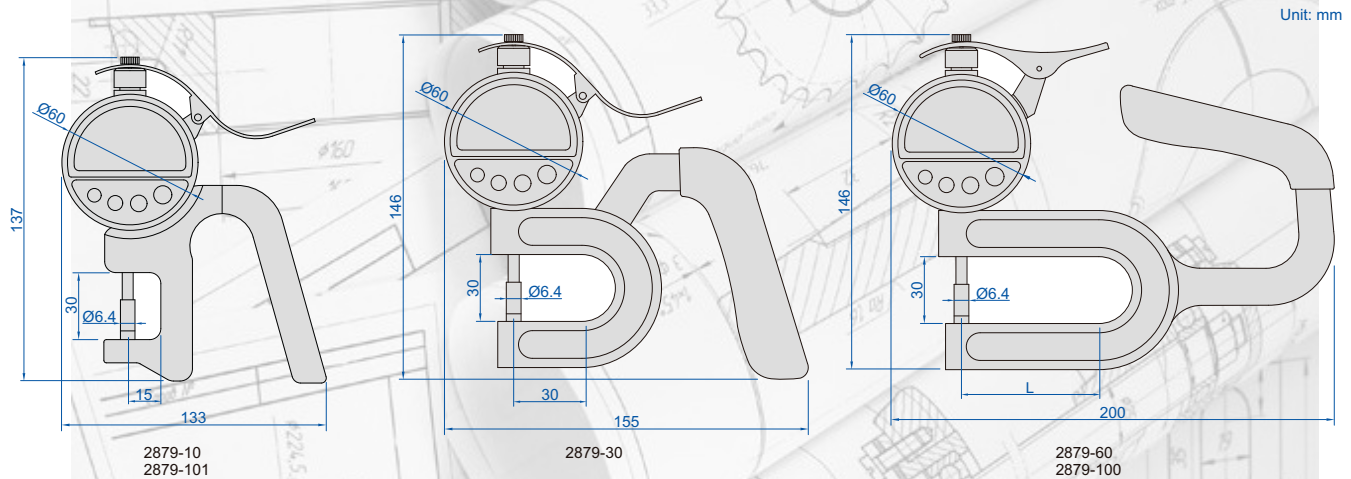
2879-10



2879-30



2879-60

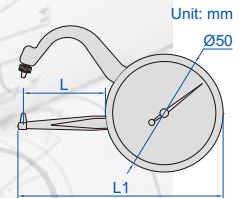
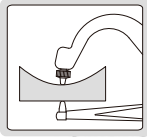


12

- Absolute encoder, the original data remains after power off
- Button function: on/off, zero, tolerance, absolute/incremental measurement, max./min./TIR, data preset, mm/inch, data output, data hold
- Reading in digital and analog
- Power: rechargeable battery, for 12 hours continuous working
- Data output
- Supplied with data output cable (keyboard format)

Code	Range	Resolution	Accuracy	Repeatability	Measuring force	L
2879-10	0-10mm/0-0.4"	0.001mm/0.00005"	±0.002mm	0.001mm	0.5-1N	—
2879-101	0-10mm/0-0.4"	0.0005mm/0.00002"	±0.0015mm	0.0005mm	0.5-1N	—
2879-30	0-10mm/0-0.4"	0.001mm/0.00005"	±0.002mm	0.001mm	0.5-1N	—
2879-60	0-10mm/0-0.4"	0.001mm/0.00005"	±0.003mm	0.001mm	0.5-1N	60mm
2879-100	0-10mm/0-0.4"	0.001mm/0.00005"	±0.004mm	0.001mm	0.5-1N	100mm

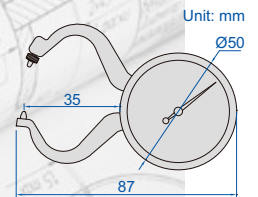
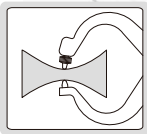
## THICKNESS GAGES



2862-101

Code	Range	Graduation	Accuracy	L	L1
2862-101	0-10mm	0.05mm	±0.1mm	35mm	85mm
2862-102	0-10mm	0.05mm	±0.1mm	60mm	110mm

## THICKNESS GAGE

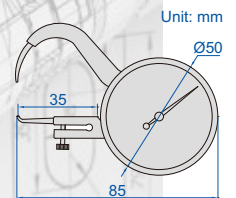
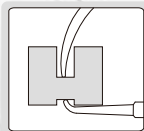


2863-10

Code	Range	Graduation	Accuracy
2863-10	0-10mm	0.05mm	±0.1mm

## THICKNESS GAGE WITH POINTED TIPS

- Pointed tips fit into small grooves and recesses

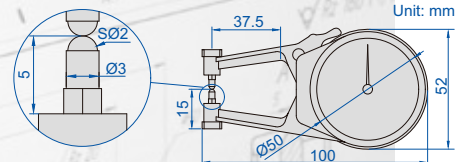


2866-10

Code	Range	Graduation	Accuracy
2866-10	0-10mm	0.05mm	±0.1mm

## THICKNESS GAGE

- Main body is made of hard plastic

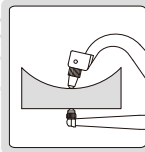


2870-10

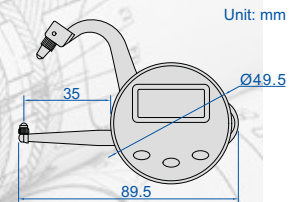
Code	Range	Graduation	Accuracy
2870-10	0-10mm	0.1mm	±0.1mm

## DIGITAL THICKNESS GAGE

- Resolution: 0.01mm, 0.001", 1/64"
- Buttons: on/off, zero, unit (mm/in/fraction), data hold
- Battery CR2032, automatic power off



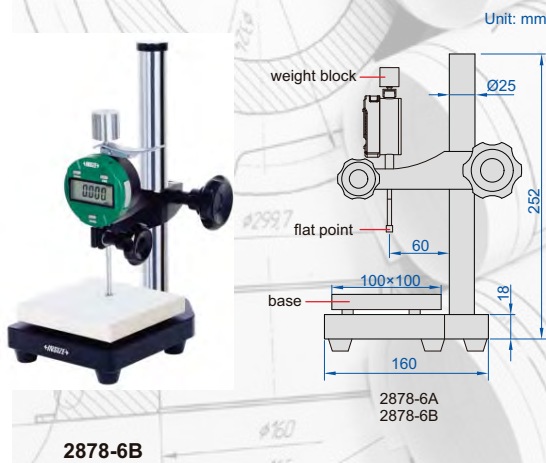
2710-25



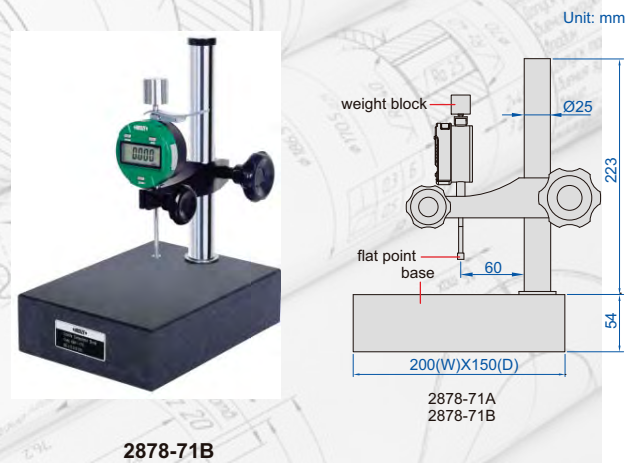
Code	Range	Accuracy	Repeatability
2710-25	0-25.4mm/0-1"	0.05mm	0.02mm

## DIGITAL RUBBER THICKNESS GAGES

DATA OUTPUT



2878-6B



2878-71B

- Measure thickness of vulcanized rubber and plastic products
- Button function: on/off, inch/mm, zero, data preset, change measuring direction, absolute/incremental measurement
- CR2032 battery, automatic power off (time is adjustable)
- Supplied with dust cover
- Optional accessory: data output cable (code 7315-50M need receiver page 5; 7302-50M page 13), flat points, weight blocks

Code	Range	Resolution	Accuracy	Flat point diameter	Pressure	Base
2878-6A	12.7mm/0.5"	0.01mm/0.0005"	20µm	6mm	22kPa±5kPa	ceramic, plain, flatness 1.5µm
2878-6B	12.7mm/0.5"	0.001mm/0.00005"	5µm	6mm	22kPa±5kPa	ceramic, plain, flatness 1.5µm
2878-71A	12.7mm/0.5"	0.01mm/0.0005"	20µm	6mm	22kPa±5kPa	granite, plain, flatness 2.5µm
2878-71B	12.7mm/0.5"	0.001mm/0.00005"	5µm	6mm	22kPa±5kPa	granite, plain, flatness 2.5µm

### Flat points and weight blocks (optional)

Flat point	Flat point code	Pressure				
		10kPa±2kPa weight block code	22kPa±5kPa weight block code	20kPa±3kPa weight block code	70kPa±5kPa weight block code	1.6kPa±0.1kPa weight block code
Ø4mm	2878-P4	—	2878-W4B	—	—	—
Ø5mm	2878-P5	2878-W5A	2878-W5B	2878-W5C	2878-W5D	—
Ø6mm	2878-P6	2878-W6A	2878-W6B	—	—	—
Ø8mm	2878-P8	2878-W8A	2878-W8B	—	—	—
Ø10mm	2878-P10	2878-W10A	2878-W10B	2878-W10C	—	—
Ø25mm	2878-P25	—	—	—	—	2878-W25E
1x4mm (rectangle)	2878-P14	—	—	—	2878-W14D	—

**DATA OUTPUT**

measure wall thickness of grooves



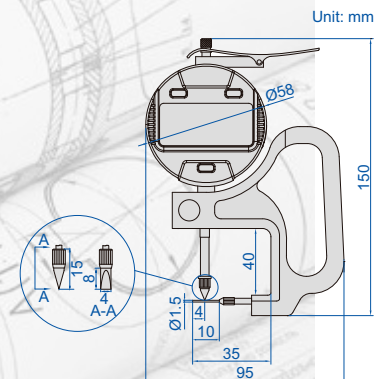
- Buttons: on/off, inch/mm, zero, data preset, change measuring direction, absolute/incremental measurement
- Keep preset data in memory after restart
- Battery CR2032, automatic power off (time is adjustable)
- Data output
- Optional accessory: data output cable (code **7315-50M** need receiver page 5, **7302-50M** page 13)

Code	Range	Resolution	Accuracy
<b>2873-10</b>	0-10mm/0-0.4"	0.01mm/0.0005"	±0.02mm
<b>2873-101</b>	0-10mm/0-0.4"	0.001mm/0.00005"	±0.005mm

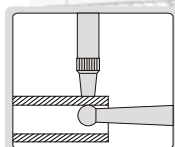
**DIGITAL TUBE THICKNESS GAGES**



**2873-10**



**DATA OUTPUT**



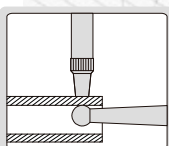
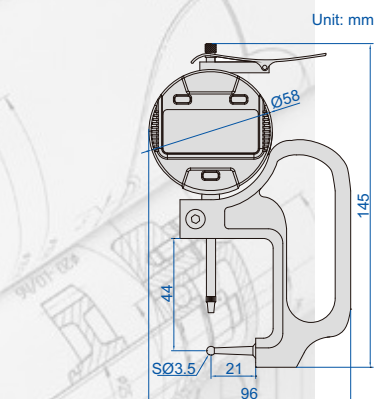
- Buttons: on/off, inch/mm, zero, data preset, change measuring direction, absolute/incremental measurement
- Keep preset data in memory after restart
- Battery CR2032, automatic power off (time is adjustable)
- Data output
- Optional accessory: data output cable (code **7315-50M** need receiver page 5, **7302-50M** page 13)

Code	Range	Resolution	Accuracy
<b>2876-10</b>	0-10mm/0-0.4"	0.01mm/0.0005"	±0.02mm
<b>2876-101</b>	0-10mm/0-0.4"	0.001mm/0.00005"	±0.005mm

**DIGITAL TUBE THICKNESS GAGES**



**2876-10**



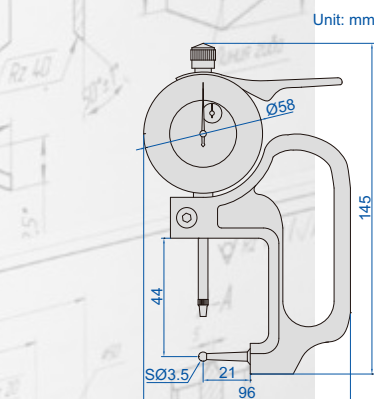
- Measure tube wall thickness

Code	Range	Graduation	Accuracy
<b>2367-10A</b>	0-10mm	0.01mm	±0.02mm

**TUBE THICKNESS GAGE**

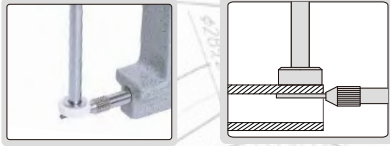


**2367-10A**

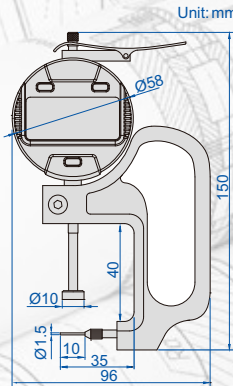


## DIGITAL TUBE THICKNESS GAGES

DATA OUTPUT



- Buttons: on/off, inch/mm, zero, data preset, change measuring direction, absolute/incremental measurement
- Keep preset data in memory after restart
- Battery CR2032, automatic power off (time is adjustable)
- Data output
- Optional accessory: data output cable (code 7315-50M need receiver page 5, 7302-50M page 13)



2859-101

Code	Range	Resolution	Accuracy
2859-10	0-10mm/0-0.4"	0.01mm/0.0005"	±0.02mm
2859-101	0-10mm/0-0.4"	0.001mm/0.00005"	±0.005mm

## SAW TEETH SETTING GAGE

**INSIZE PLUS**  
MADE IN EUROPE

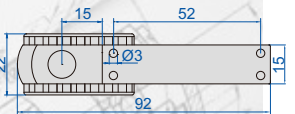
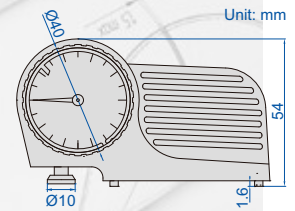


front

2874-02

back

- Supplied with limit pointer
- Read from both sides



Code	Range	Graduation	Accuracy
2874-02	0-2mm	0.05mm	±0.05mm

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## DIAL SNAP GAGES

**INSIZE PLUS**  
MADE IN EUROPE

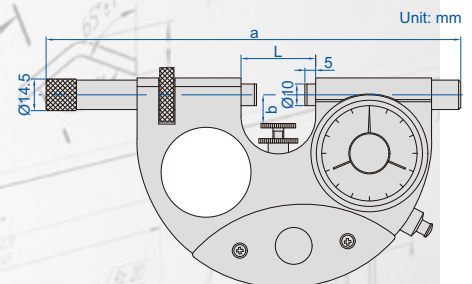
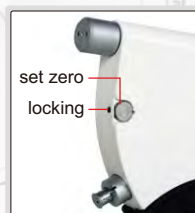


3335-25

- Quick Go/No-Go measurement for mass production
- Anvil retracting stroke: 2.5mm
- Dial indicator: measuring range ±0.07mm, graduation 1µm, accuracy ±1µm
- Constant measuring force over the whole range: 8.5N
- Carbide measuring faces
- IP54 dust/waterproof
- Zero position of dial indicator is adjustable and can be locked (supplied with locking wrench)
- Adjustable platform height

IP54  
WATERPROOF

Code	Range	L	a	b
3335-25	0-25mm	35mm	191mm	<15mm
3335-50	25-50mm	60mm	215mm	<25mm
3335-75	50-75mm	84mm	239mm	<37.5mm
3335-100	75-100mm	110mm	265mm	<50mm





ATTENTION: SETTING STANDARDS ARE NOT INCLUDED

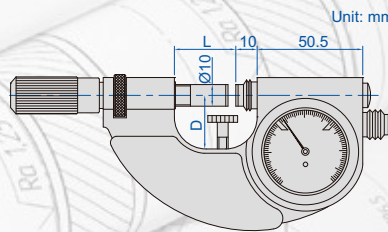
IP54 WATERPROOF

DIAL SNAP GAGES

- Quick measurement for mass production
- Dial indicator: range  $\pm 0.04\text{mm}$ , graduation  $0.001\text{mm}$ , accuracy  $0.001\text{mm}$
- IP54 dust/waterproof
- Measuring force: 5-10N
- Carbide measuring faces
- Optional accessory: gage blocks grade 0 (4101-A series), for zero setting



3334-25



Code	Range	L	D
3334-25	0-25mm	28.5mm	25mm
3334-50	25-50mm	53.5mm	35mm
3334-75	50-75mm	78.5mm	47.5mm
3334-100	75-100mm	103.5mm	60mm

QUICK AND ACCURATE MEASUREMENT OF CYLINDRICAL WORKPIECES

INSPECTION CERTIFICATE

DIAL SNAP GAGES



- Left anvil retracting stroke: 2mm
- Measuring force: 6-8N
- Flatness of anvil:  $1.5\mu\text{m}$
- Repeatability:  $1\mu\text{m}$
- Carbide measuring faces for anvils
- Front edges of anvils are chamfered for easy workpiece insertion
- Optional accessory: dial indicators and digital indicators (reading  $0.001\text{mm}$  or  $0.01\text{mm}$ )

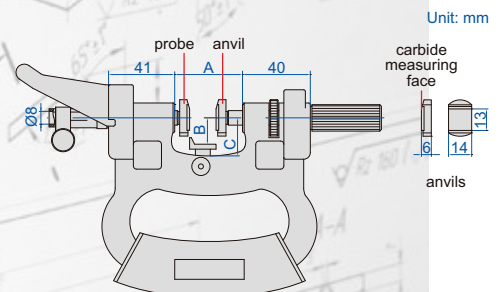


2186-25



Code	Range	Parallelism of measuring faces	A	B	C
2186-25*	0-25mm	$4\mu\text{m}$	42	11-18	20
2186-50*	25-50mm	$4\mu\text{m}$	69	11-32	41
2186-75*	50-75mm	$5\mu\text{m}$	94	17-41	51
2186-100*	75-100mm	$6\mu\text{m}$	119	31-55	65
2186-125*	100-125mm	$6\mu\text{m}$	144	42-70	75
2186-150*	125-150mm	$8\mu\text{m}$	169	55-82	90
2186-175*	150-175mm	$8\mu\text{m}$	194	68-95	100
2186-200*	175-200mm	$10\mu\text{m}$	219	85-110	115
2186-225*	200-225mm	$10\mu\text{m}$	244	95-120	130
2186-250*	225-250mm	$10\mu\text{m}$	269	110-135	145
2186-275*	250-275mm	$12\mu\text{m}$	294	120-150	160
2186-300*	275-300mm	$12\mu\text{m}$	319	128-160	170

(mm)



\*Supplied with manufacturer inspection certificate

## DIAL SNAP GAGES

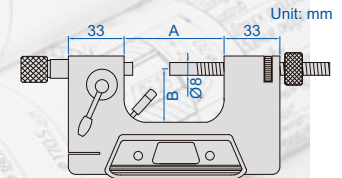
ATTENTION: NOT SUITABLE FOR 0.001MM DIAL INDICATORS

- Quick measurement for mass production
- Anvil retracting stroke: 3mm
- Measuring force: 6-9N
- Carbide measuring faces
- Optional accessory:  
dial indicators (graduation 0.01mm),  
digital indicators (resolution 0.01mm/0.0005")



2184-50W

Code	Range	A	B
2184-25W	0-25mm	34mm	18mm
2184-50W	0-50mm	62mm	32mm
2184-100W	50-100mm	112mm	62mm
2184-150W	100-150mm	162mm	85mm
2184-200W	150-200mm	212mm	110mm

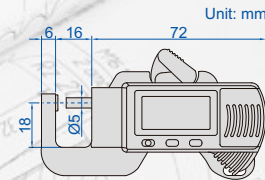


## DIGITAL SNAP GAGE

ATTENTION: NO DATA OUTPUT



2166-12



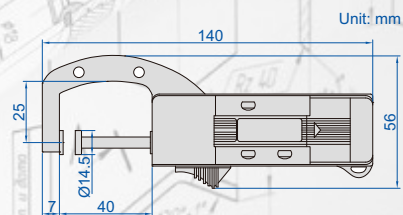
Code	Range	Resolution	Accuracy
2166-12	0-12mm/0-0.5"	0.01mm/0.0005"	±0.03mm

## DIGITAL SNAP GAGE

ATTENTION: NO DATA OUTPUT



2167-25



Code	Range	Resolution	Accuracy
2167-25	0-25mm/0-1"	0.01mm/0.0005"	±0.03mm

ATTENTION: NO DATA OUTPUT

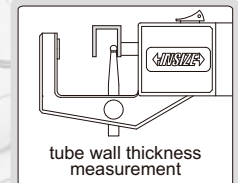
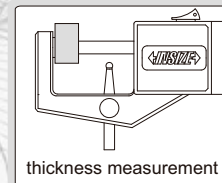
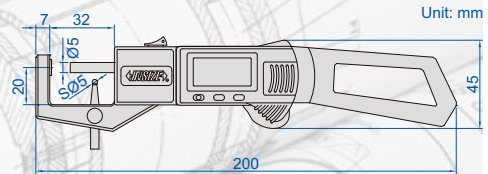
## DIGITAL SNAP GAGE



2163-25

- Resolution: 0.01mm/0.0005"
- Accuracy:  $\pm 0.04\text{mm}$
- For thickness and tube wall thickness measurement

Code	Thickness range	Tube wall thickness range
2163-25	0-25mm/0-1"	0-2mm/0.08"



DATA OUTPUT

## DIGITAL SNAP GAGES



1163-50A

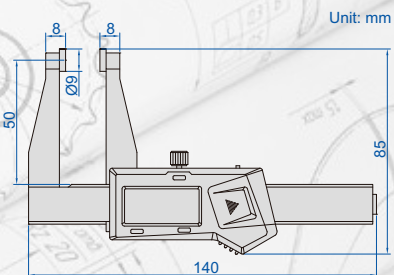
With data interface (data output cable code 7315-21 need receiver page 4, 7302-21 page 12, optional)

Code	Range	Resolution	Accuracy
1163-50A	0-50mm/0-2"	0.01mm/0.0005"	$\pm 0.03\text{mm}$

Built-in wireless (receiver code 7315-2/3/6/7/8/9 is required)

Code	Range	Resolution	Accuracy
1163-50AWL	0-50mm/0-2"	0.01mm/0.0005"	$\pm 0.03\text{mm}$

- Non waterproof
- Buttons: on/off, zero, mm/inch
- Automatic power off, move the digital unit to turn on power
- Battery CR2032
- Made of stainless steel



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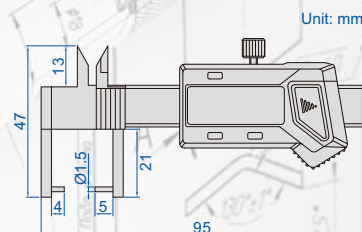
ATTENTION: NO DATA OUTPUT

SUITABLE FOR JEWELLERY

## DIGITAL 3-PURPOSE SNAP GAGE

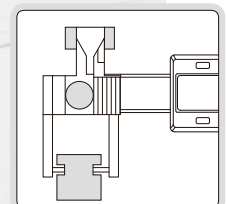


2164-25A



Code	Range	Resolution	Accuracy
2164-25A	0-25mm/0-1"	0.01mm/0.0005"	$\pm 0.03\text{mm}$

- Non waterproof
- Buttons: zero, mm/inch, on/off
- Battery LR44
- Made of stainless steel



## STEP AND GAP GAGES

DATA OUTPUT



front

2168-12

back

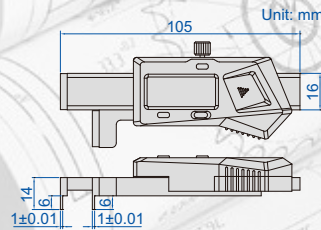
- Non waterproof
- Measure step height and gap width
- Resolution: 0.01mm/0.0005"
- Buttons: on/off, set, mm/inch, preset (+, -)
- Automatic power off, move the digital unit to turn on power
- Battery CR2032
- Made of stainless steel
- Supplied with zero setting block

With data interface (data output cable code 7315-21 need receiver page 4, 7302-21 page 12, optional)

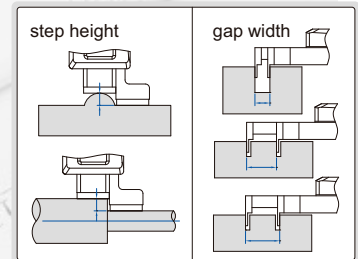
Code	Range	Accuracy
2168-12	0-12.7mm/0-0.5"	±0.03mm

Built-in wireless (receiver code 7315-2/3/6/7/8/9 is required)

Code	Range	Accuracy
2168-12WL	0-12.7mm/0-0.5"	±0.03mm

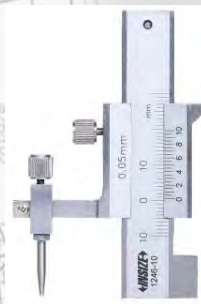


zero setting block (included)



## MINI VERNIER HEIGHT GAGE

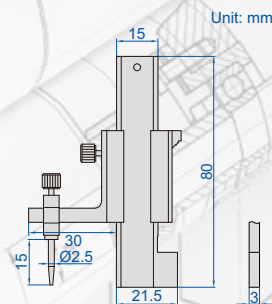
12



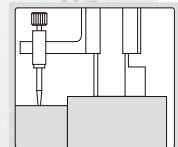
1246-10

- Measure height difference of two surfaces
- Graduation: 0.05mm
- Made of stainless steel
- Satin chrome plated reading surface

Code	Range	Accuracy
1246-10	0~±10mm	±0.05mm



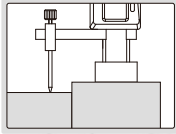
application



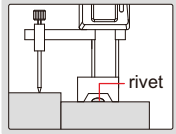
## MINI DIGITAL HEIGHT GAGES

DATA OUTPUT

application of  
1146-20A/1146-20AWL



application of  
1146-20B/1146-20BWL



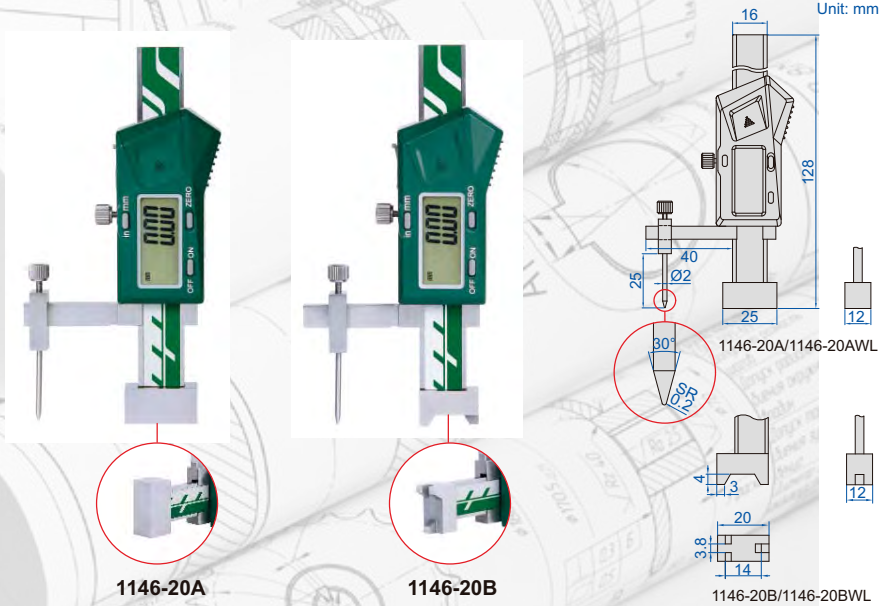
- Non waterproof
- Measure height difference of two surfaces (1146-20B, 1146-20BWL suitable for surfaces with barrier, such as rivet)
- Resolution: 0.01mm/0.0005"
- Buttons: on/off, zero, mm/inch
- Automatic power off, move the digital unit to turn on power
- Battery CR2032
- Made of stainless steel

With data interface  
(data output cable code 7315-21 need receiver page 4,  
7302-21 page 12, optional)

Code	Range	Accuracy
1146-20A	0~±20mm/0~±0.8"	±0.02mm
1146-20B	0~±20mm/0~±0.8"	±0.02mm

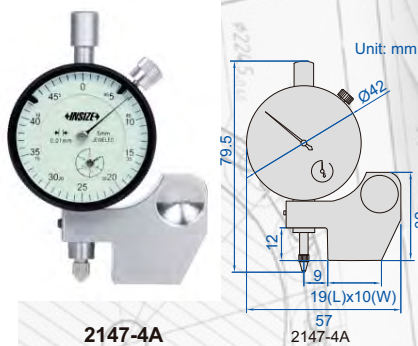
Built-in wireless  
(receiver code 7315-2/3/6/7/8/9 is required)

Code	Range	Accuracy
1146-20AWL	0~±20mm/0~±0.8"	±0.02mm
1146-20BWL	0~±20mm/0~±0.8"	±0.02mm

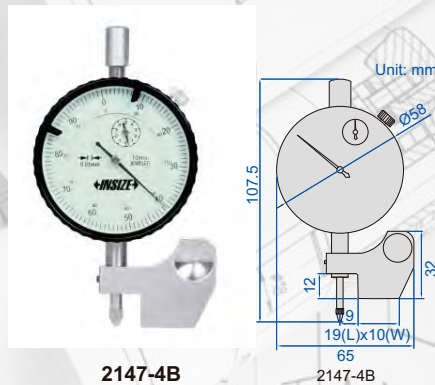


## DIAL HEIGHT GAGES

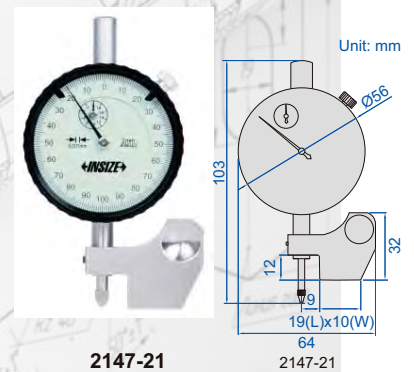
12



2147-4A



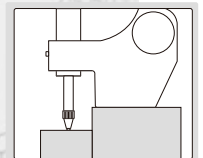
2147-4B



2147-21

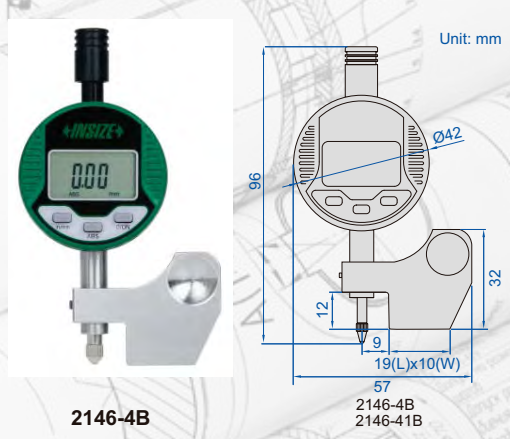
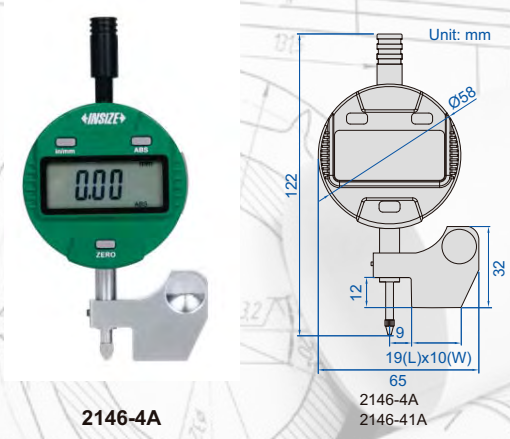
- Measure height difference of two surfaces

Code	Range	Dial indicator stroke	Dial indicator graduation	Accuracy
2147-4A	0~±5mm (adjustable)	5mm	0.01mm	±0.014mm
2147-4B	0~±5mm	10mm	0.01mm	±0.017mm
2147-21	0~±2mm (adjustable)	2mm	0.001mm	±0.006mm

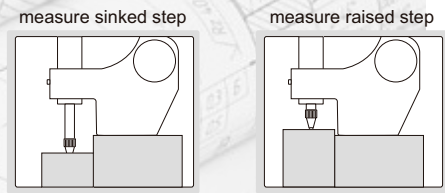


**DIGITAL HEIGHT GAGES**

DATA OUTPUT



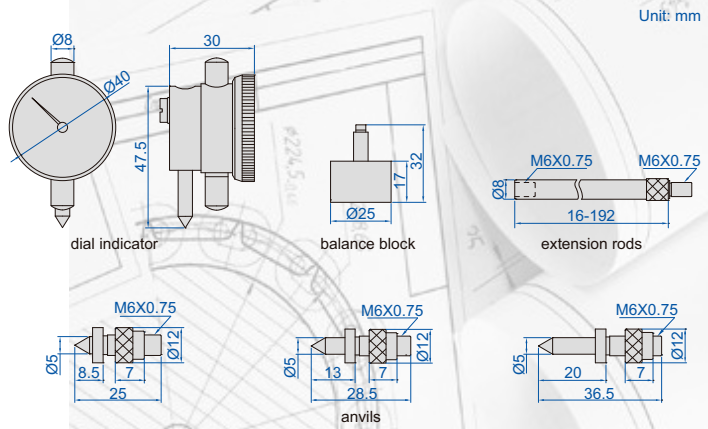
- Measure height difference of two surfaces
- Button function: on/off, inch/mm, zero, data preset, change measuring direction, absolute/incremental measurement
- Keep preset data in memory after restart
- CR2032 battery, automatic power off (time is adjustable)
- Data output
- Optional accessory: data output cable (code 7315-50M need receiver page 5, 7302-40M page 13)



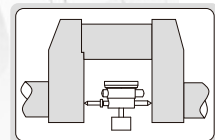
Code	Range (adjustable)	Digital indicator stroke	Digital indicator resolution	Accuracy
2146-4A	0~4mm/0~0.16" (sunked)	12.7mm/0.5"	0.01mm/0.0005"	±0.02mm
2146-41A	0~12.7mm/0~0.5" (raised)	12.7mm/0.5"	0.001mm/0.00005"	±0.005mm
2146-4B	0~4mm/0~0.16" (sunked)	5mm/0.2"	0.01mm/0.0005"	±0.02mm
2146-41B	0~5mm/0~0.2" (raised)	5mm/0.2"	0.001mm/0.00005"	±0.005mm

**CRANKSHAFT TESTERS**

12



- To test crankshaft deflection
- The balance block is mounted on the back of dial indicator to keep the dial indicator facing up



Code	Range	Dial indicator range	Graduation	Extension rods	Accuracy
2841-300	60-300mm	3mm	0.01mm	16mm, 32mm, 64mm, 128mm	±0.016mm
2841-500	60-500mm	3mm	0.01mm	16mm, 32mm, 64mm, 96mm, 128mm, 192mm	±0.016mm



**Thread Pitch Measuring Instruments**  
Page 302-303



**Thread Taper Measuring Instruments**  
Page 304-306



**Thread Height Measuring Instruments**  
Page 307-309



**Thread Crest Diameter Measuring Instruments**  
Page 310-313



**Groove Diameter Measuring Instruments**  
Page 314



**Groove Width Measuring Instruments**  
Page 315



**Calipers With Interchangeable Ball Tips**  
Page 316



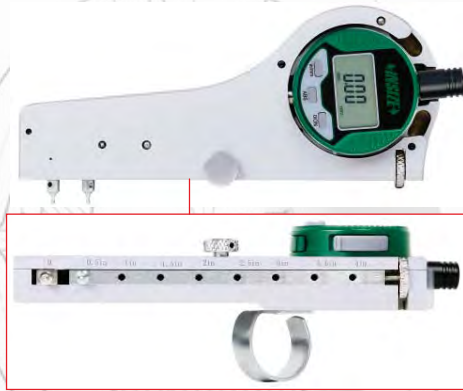
**RTJ Ring Groove Calipers**  
Page 316



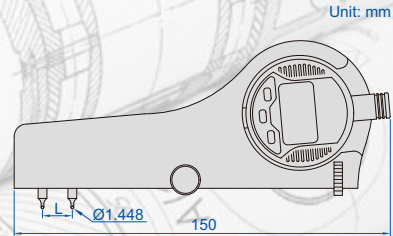
**Thread Gages For Petroleum Equipment**  
Page 316

## DIGITAL THREAD PITCH MEASURING INSTRUMENT

MEET INTERNATIONAL STANDARD API5B



2245-4

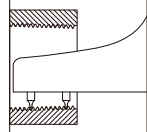


application

step 1: set zero on standard block



step 2: measurement



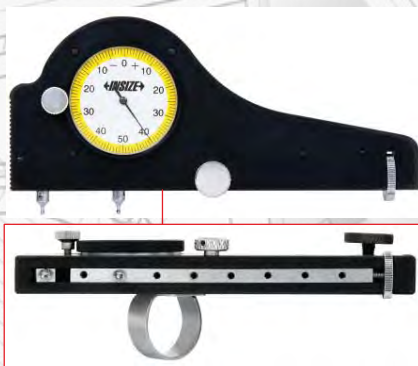
- Measure the pitch of external thread and internal thread with nominal diameter larger than 5 1/2" (139.7mm)
- Optional accessory: data output cable (code 7315-50M need receiver page 5, 7302-50M page 13), ball points (code 6252 series), standard pitch blocks (code 6251 series)

Code	Range (L)	Digital indicator stroke	Resolution	Accuracy
2245-4	0.5-4"/12.7-101.6mm	0.2"/5mm	0.0005"/0.01mm	0.02mm

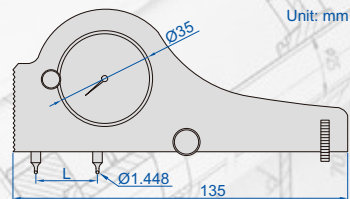
## THREAD PITCH MEASURING INSTRUMENTS

MEET INTERNATIONAL STANDARD API5B

13



2234-4

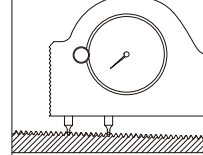


application

step 1: set zero on standard block



step 2: measurement



- Measure the pitch of external thread and internal thread with nominal diameter larger than 5 1/2" (139.7mm)
- Optional accessory: ball points (code 6252 series), standard pitch blocks (code 6251 series)

Code	Range (L)	Dial indicator stroke	Dial indicator graduation	Accuracy
2234-4	0.5-4"/12.7-101.6mm	0.5mm	0.01mm	0.02mm
2234-4E	0.5-4"/12.7-101.6mm	0.025"	0.0005"	0.0008"

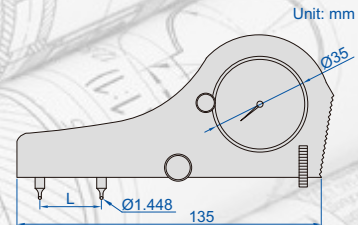


MEET INTERNATIONAL  
STANDARD API5B

## INTERNAL THREAD PITCH MEASURING INSTRUMENTS



2235-4



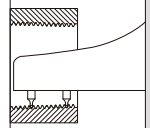
application

- Measure the pitch of internal thread with nominal diameter larger than 1 1/2" (38.1mm) and less than 5 1/2" (139.7mm)
- Optional accessory: ball points (code 6252 series), standard pitch blocks (code 6251 series)

step 1: set zero on standard block



step 2: measurement



Code	Range (L)	Dial indicator stroke	Dial indicator graduation	Accuracy
2235-4	0.5-4"/12.7-101.6mm	0.5mm	0.01mm	0.02mm
2235-4E	0.5-4"/12.7-101.6mm	0.025"	0.0005"	0.0008"

CAN BE CUSTOMIZED  
ACCORDING TO WORKPIECES

## STANDARD PITCH BLOCKS

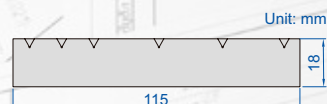
13



6251-S8

- Set zero of internal and external pitch measuring instruments (code 2234, 2235, 2245)

Code	Taper	Threads per inch
6251-S8	1:16	8, 10
6251-S5	1:16	5
6251-S4	1:6	4

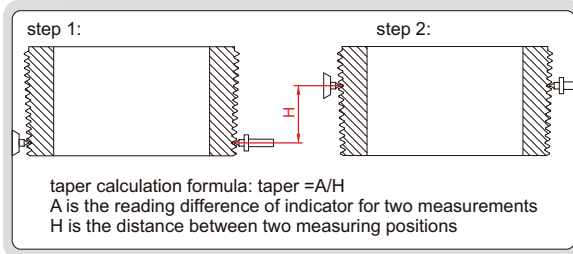


## DIGITAL EXTERNAL THREAD TAPER MEASURING INSTRUMENT

MEET INTERNATIONAL STANDARD API5B

- Measure the taper of external thread
- Digital indicator stroke: 10mm/0.4"
- Optional accessory: data output cable (code 7315-50M need receiver page 5, 7302-40M page 13), ball points (code 6252 series)

principle of measurement



2240-10

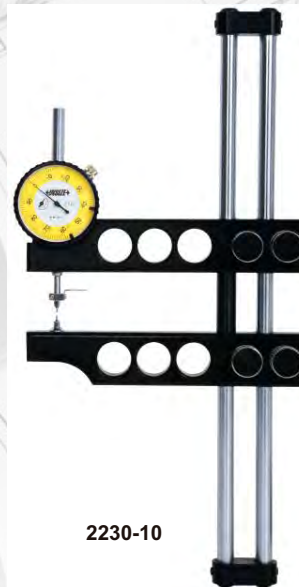
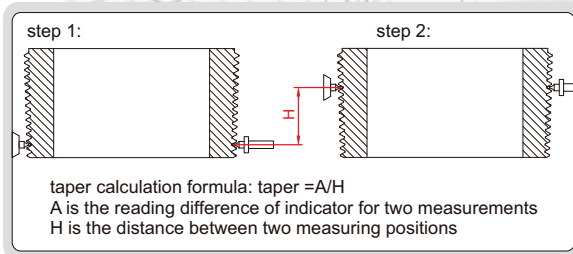
Code	Range (L)	Resolution	Accuracy
2240-10	0-10"/0-254mm	0.0005"/0.01mm	0.03mm

## EXTERNAL THREAD TAPER MEASURING INSTRUMENTS

MEET INTERNATIONAL STANDARD API5B

- Measure the taper of external thread
- Dial indicator stroke: 0.5"
- Dial indicator graduation: 0.001"
- Optional accessory: ball points (code 6252 series)

principle of measurement



2230-10

Code	Range (L)	Accuracy	H	W
2230-10	0-10"/0-254mm	0.0015"	400mm	200mm
2230-45	1-4 1/2"/25.4-114.3mm	0.0015"	278mm	178mm
2230-16	8-16"/203.2-406.4mm	0.0015"	600mm	260mm
2230-20	8-20"/203.2-508mm	0.0015"	680mm	260mm

MEET INTERNATIONAL  
STANDARD API5B

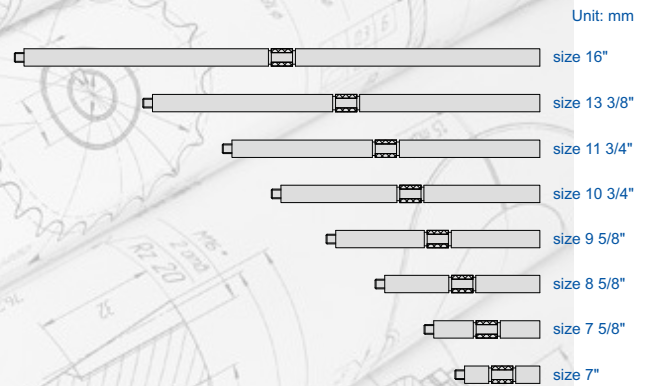
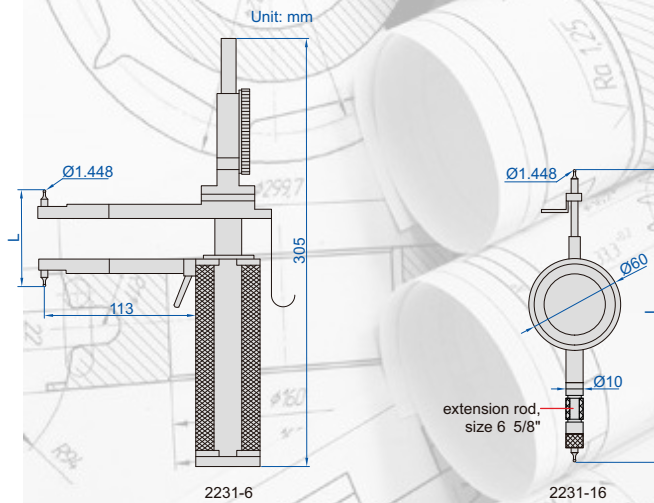
## INTERNAL THREAD TAPER MEASURING INSTRUMENTS



2231-6

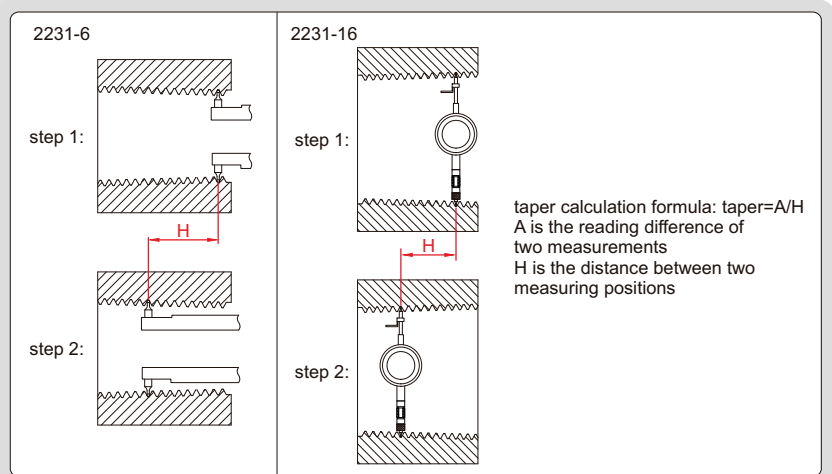


2231-16



principle of measurement

- Measure the taper of internal thread
- Optional accessory: ball points (code 6252 series)

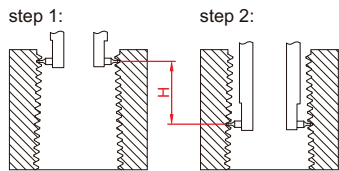


Code	Range (L)	Dial indicator stroke	Dial indicator graduation	Accuracy	Remark
2231-6	1.5-6"/38.1-152.4mm	1"	0.001"	0.0015"	—
2231-16	5 1/2-16"/139.7-406.4mm	0.5"	0.001"	0.0015"	with 9 extension rods

# DIGITAL INTERNAL THREAD TAPER MEASURING INSTRUMENT

MEET INTERNATIONAL STANDARD API5B

principle of measurement



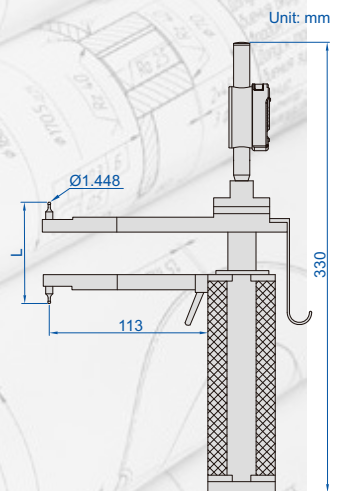
taper calculation formula:  $taper = A/H$   
 A is the reading difference of two measurements  
 H is the distance between two measuring positions



2241-6

- Measure the taper of internal thread
- Digital indicator stroke: 25.4mm/1"
- Optional accessory: data output cable (code 7315-50M need receiver page 5, 7302-40M page 13), ball points (code 6252 series)

Code	Range (L)	Resolution	Accuracy
2241-6	1.5-6"/38.1-152.4mm	0.0005"/0.01mm	0.04mm



## BALL POINTS

13

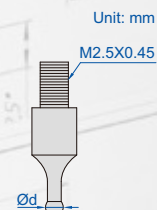
- Supplied in pair
- For taper measuring instruments (code 2230, 2231, 2240, 2241) and pitch measuring instruments (code 2234, 2235, 2245)



6252-B10

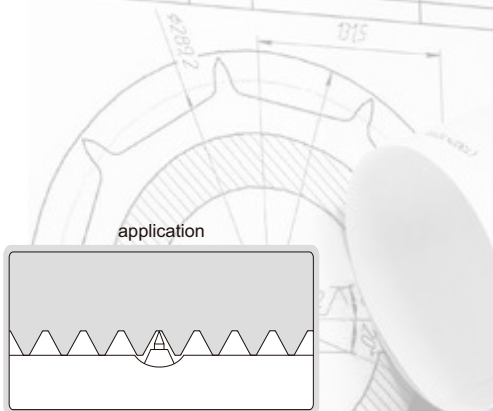
Code	Thread type	Threads per inch	Ball dia. (Ød)	
			taper	pitch
6252-B8	round thread, line pipe	8	1.829mm	1.829mm
6252-B10	round thread, line pipe	10	1.448mm	1.448mm
6252-B115	line pipe	11.5	1.27mm	1.27mm
6252-B14	line pipe	14	1.041mm	1.041mm
6252-B18	line pipe	18	0.813mm	0.813mm
6252-B27	line pipe	27	0.533mm	0.533mm
6252-B5	buttress thread	5	2.286mm	—
6252-B51	buttress thread	5	—	1.575mm
6252-B52	extreme line thread	5,6	1.524mm	—
6252-B53	extreme line thread	5	—	2.667mm*
6252-B6	extreme line thread	6	—	2.210mm*

\* 0.58mm off the top of ball



MEET INTERNATIONAL  
STANDARD API5B

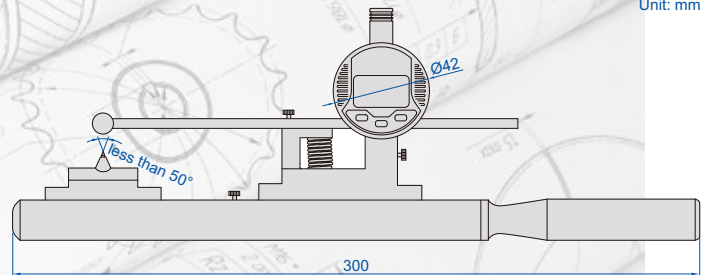
## DIGITAL INTERNAL THREAD HEIGHT MEASURING INSTRUMENT



2243-35

- Measure the height of internal thread with nominal diameter less than 5 1/2" (139.7mm)
- Optional accessory: data output cable (code **7315-50M** need receiver page 5, **7302-50M** page 13), thread height standard blocks (code **6250**)

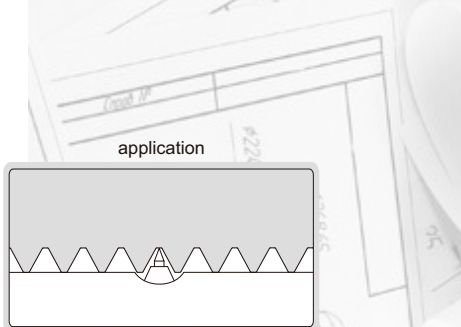
Unit: mm



Code	Range	Resolution	Accuracy
2243-35	0-0.135"/0-3.5mm	0.0005"/0.01mm	0.02mm

MEET INTERNATIONAL  
STANDARD API5B

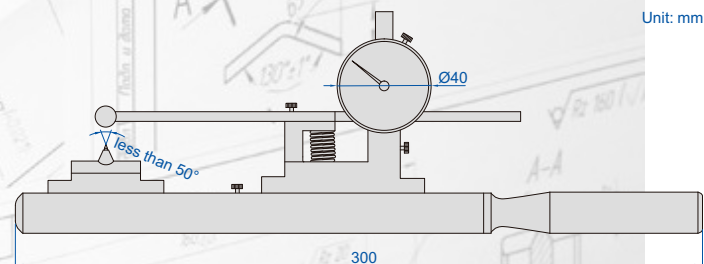
## INTERNAL THREAD HEIGHT MEASURING INSTRUMENTS



2233-35

- Measure the height of internal thread with nominal diameter less than 5 1/2" (139.7mm)
- Optional accessory: thread height standard blocks (code **6250**)

Unit: mm

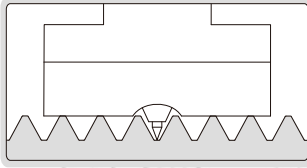


Code	Range	Dial indicator graduation	Accuracy
2233-35	0-3.5mm	0.01mm	0.02mm
2233-35E	0-1/4"	0.0005"	0.0008"

## DIGITAL THREAD HEIGHT MEASURING INSTRUMENT

MEET INTERNATIONAL STANDARD API5B

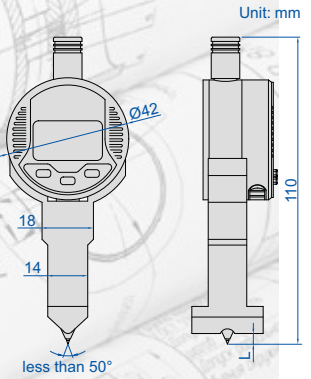
application



- Measure the height of external thread and internal thread with nominal diameter larger than 5 1/2" (139.7mm)
- Optional accessory: data output cable (code 7315-50M need receiver page 5, 7302-40M page 13), thread height standard blocks (code 6250)



2242-35

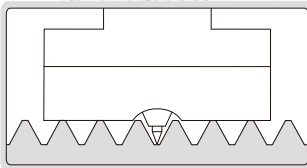


Code	Range (L)	Resolution	Accuracy
2242-35	0-0.135"/0-3.5mm	0.0005"/0.01mm	0.02mm

## THREAD HEIGHT MEASURING INSTRUMENTS

MEET INTERNATIONAL STANDARD API5B

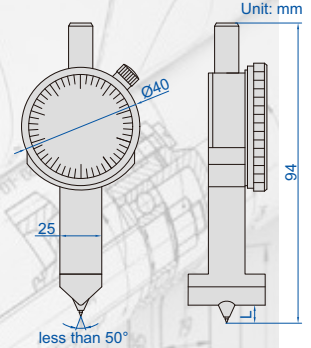
application



- Measure the height of external thread and internal thread with nominal diameter larger than 5 1/2" (139.7mm)
- Optional accessory: thread height standard blocks (code 6250)



2232-35



Code	Range (L)	Dial indicator graduation	Accuracy
2232-35	0-3.5mm	0.01mm	0.02mm
2232-35E	0-1/4"	0.0005"	0.0008"

13

## THREAD HEIGHT STANDARD BLOCKS

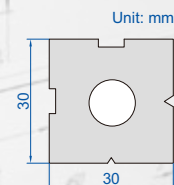
CAN BE CUSTOMIZED ACCORDING TO WORKPIECES

- Set zero of internal and external thread height measuring instruments (code 2232, 2233, 2242, 2243)

Code	Taper	Number of thread per inch
6250-4	1:4	4
6250-5	1:4	5
6250-8	1:16	8, 10
6250-51	1:16	5



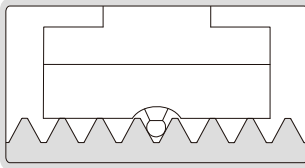
6250-8



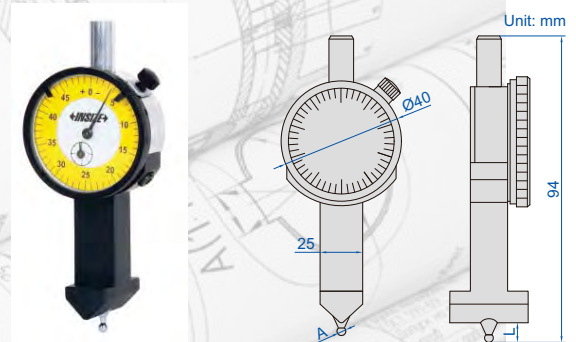
MEET INTERNATIONAL  
STANDARD API 7-2

## ROTARY SHOULDERED EXTERNAL THREAD CONNECTION HEIGHT MEASURING INSTRUMENTS

application



- Measure the height of rotary shouldered external thread connections
- Dial indicator graduation: 0.01mm
- Accuracy: 0.02mm
- Optional accessory: thread height standard blocks (code 6255)



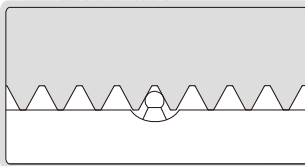
2255-038

Code	Form of thread to be inspected	Range (L)	A
2255-038	V-0.038R	0-3.5mm	Ø1.829mm
2255-040	V-0.040	0-3.5mm	Ø0.864mm
2255-050	V-0.050	0-5mm	Ø1.118mm
2255-055	V-0.055	0-3.5mm	Ø1.829mm

MEET INTERNATIONAL  
STANDARD API 7-2

## ROTARY SHOULDERED INTERNAL THREAD CONNECTION HEIGHT MEASURING INSTRUMENTS

application

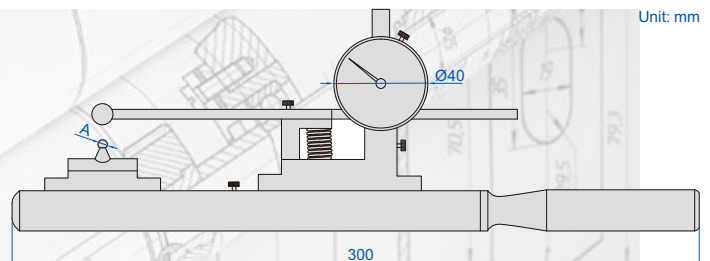


- Measure the height of rotary shouldered internal thread connections
- Dial indicator graduation: 0.01mm
- Accuracy: 0.02mm
- Optional accessory: thread height standard blocks (code 6255)



2256-038

Code	Form of thread to be inspected	Range (L)	A
2256-038	V-0.038R	0-3.5mm	Ø1.829mm
2256-040	V-0.040	0-3.5mm	Ø0.864mm
2256-050	V-0.050	0-5mm	Ø1.118mm
2256-055	V-0.055	0-3.5mm	Ø1.829mm



Unit: mm

13

- Set zero of internal and external thread height measuring instruments (code 2255, 2256)

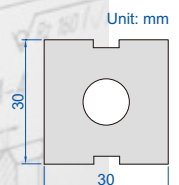
## THREAD HEIGHT STANDARD BLOCKS

CAN BE CUSTOMIZED  
ACCORDING TO WORKPIECES

Code	Form of thread to be inspected	Taper	Number of thread per inch
6255-038	V-0.038R	1:6 and 1:4	4
6255-040	V-0.040	1:4	5
6255-050	V-0.050	1:6 and 1:4	4
6255-055	V-0.055	1:8	6



6255-038



Unit: mm

## DIGITAL DEPTH GAGE (60° KNIFE EDGE BASE)

REFER TO PAGE 81 FOR DETAILS



front view

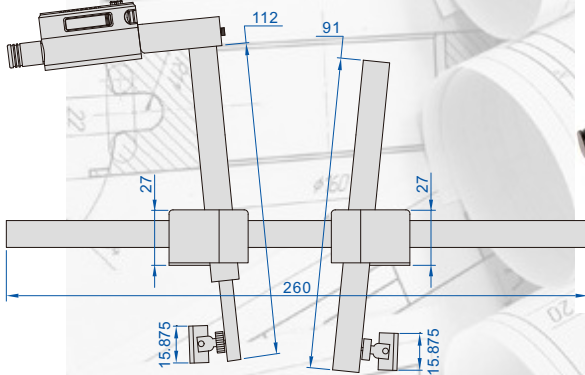
side view

2143-101

## DIGITAL INTERNAL THREAD CREST DIAMETER MEASURING INSTRUMENT

MEET INTERNATIONAL STANDARD API5B

Unit: mm

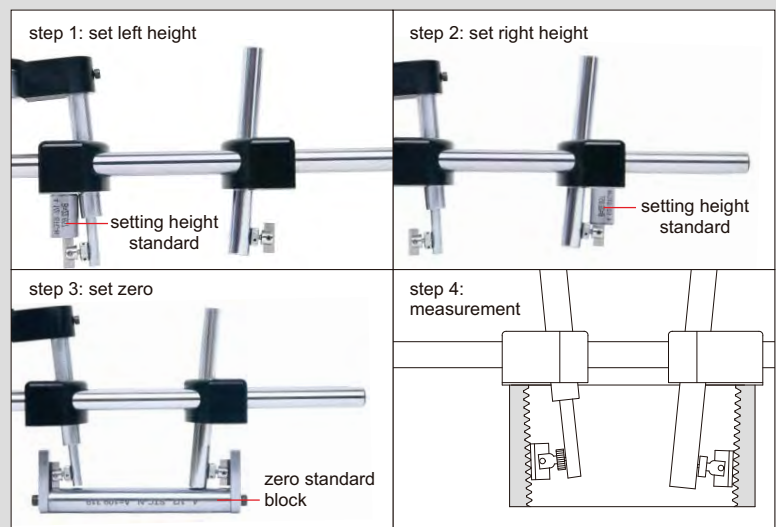


2247-5

application

13

- Measure the crest diameter of internal thread with nominal diameter larger than 2 3/8" (60.325mm) and less than 5 1/2" (139.7mm)
- Optional accessory: data output cable (code 7315-50M need receiver page 5, 7302-40M page 13), height standard and zero standard block (code 2237-G□□□, 2237-K□□□)



Code	Range	Digital indicator stroke	Resolution	Accuracy
2247-5	2 3/8-5 1/2"/60.325-139.7mm	0.2"/5mm	0.0005"/0.01mm	0.02mm

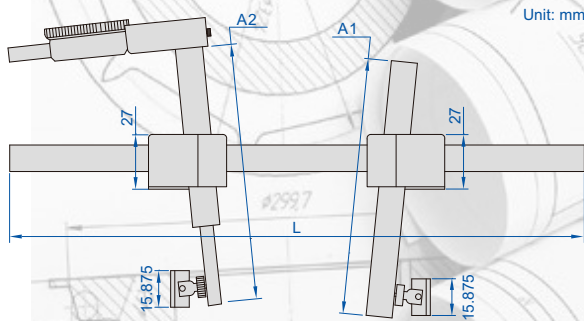


MEET INTERNATIONAL  
STANDARD API5B

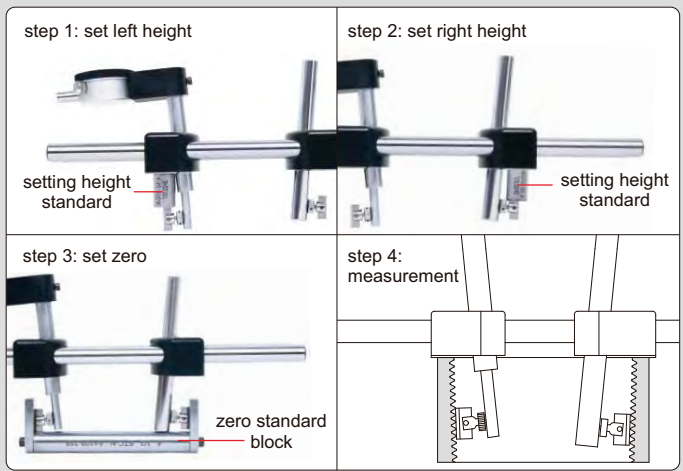
## INTERNAL THREAD CREST DIAMETER MEASURING INSTRUMENTS



2237-5



application



- Measure the crest diameter of internal thread with nominal diameter larger than 2 3/8" (60.325mm) and less than 20" (508mm)
- Optional accessory: height standard and zero standard block

Code	Range	Dial indicator stroke	Dial indicator graduation	Accuracy	L	A1	A2
2237-5	2 3/8-5 1/2"/60.325-139.7mm	5mm	0.01mm	0.02mm	260mm	112mm	91mm
2237-5E	2 3/8-5 1/2"/60.325-139.7mm	0.25"	0.0005"	0.0008"	260mm	112mm	91mm
2237-20	4 1/2-20"/114.3-508mm	0.50"	0.0005"	0.002"	12", 18" or 24" *	177mm	182mm

\* Select suitable length of arm according to workpieces



### HEIGHT STANDARD AND ZERO STANDARD BLOCK (optional)

Code	Remark
2237-G□□□**	including height standard and zero standard block A (without taper)
2237-K□□□**	including height standard and zero standard block B (with taper)

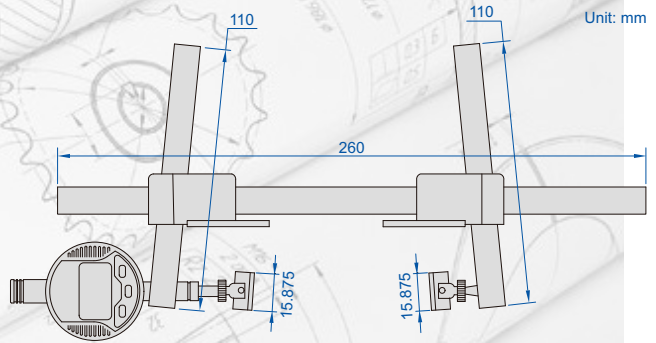
\*\* Can be customized according to workpieces

# DIGITAL EXTERNAL THREAD CREST DIAMETER MEASURING INSTRUMENT

MEET INTERNATIONAL  
STANDARD API5B



2246-5



- Measure the crest diameter of external thread with nominal diameter larger than 2 3/8" (60.325mm) and less than 5 1/2" (139.7mm)
- Optional accessory: data output cable (code 7315-50M need receiver page 5, 7302-40M page 13), height standard and zero standard block (code 2236-G□□□, 2236-K□□□)

application

<p>step 1: set left height</p> <p>setting height standard</p>	<p>step 2: set right height</p> <p>setting height standard</p>
<p>step 3: set zero</p> <p>zero standard block</p>	<p>step 4: measurement</p>

Code	Range	Digital indicator stroke	Resolution	Accuracy
2246-5	2 3/8-5 1/2"/60.325-139.7mm	0.2"/5mm	0.0005"/0.01mm	0.02mm

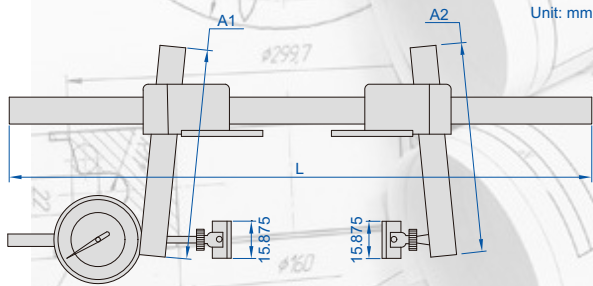
MEET INTERNATIONAL STANDARD API5B

EXTERNAL THREAD CREST DIAMETER MEASURING INSTRUMENTS

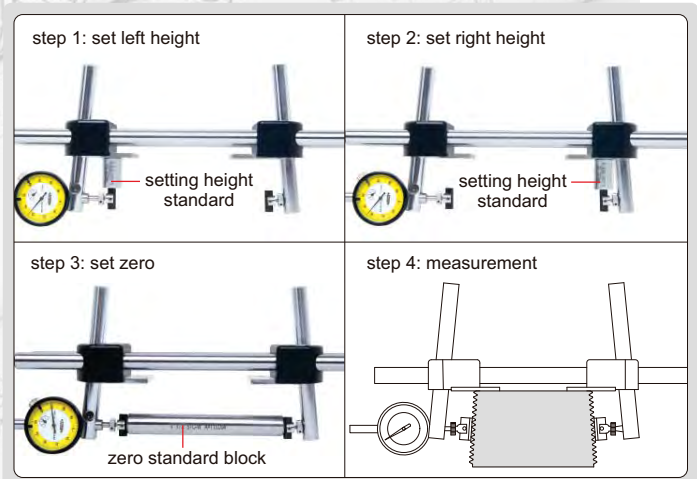


2236-5

application



- Measure the crest diameter of external thread with nominal diameter larger than 2 3/8" (60.325mm) and less than 20" (508mm)
- Optional accessory: height standard and zero standard block



Code	Range	Dial indicator stroke	Dial indicator graduation	Accuracy	L	A1	A2
2236-5	2 3/8-5 1/2"/60.325-139.7mm	5mm	0.01mm	0.02mm	260mm	110mm	110mm
2236-5E	2 3/8-5 1/2"/60.325-139.7mm	0.25"	0.0005"	0.0008"	260mm	110mm	110mm
2236-20	2 3/8-20"/60.325-508mm	0.50"	0.0005"	0.002"	12", 18" or 24" *	177mm	160mm

\* Select suitable length of arm according to workpieces



HEIGHT STANDARD AND ZERO STANDARD BLOCK (optional)

Code	Remark
2236-G□□□**	including height standard and zero standard block A (without taper)
2236-K□□□**	including height standard and zero standard block B (with taper)

\*\* Can be customized according to workpieces

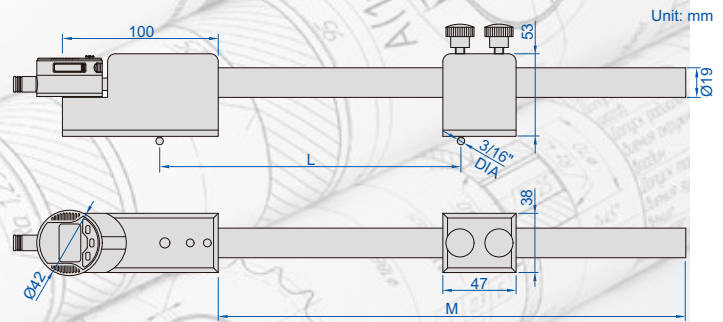
**DIGITAL GROOVE DIAMETER MEASURING INSTRUMENT**

POINT DIAMETER CAN BE CUSTOM-MADE



2261-5

- Measure the groove diameter of flange ring groove
- Point height is adjustable
- Optional: data output cable (code 7315-50M need receiver page 5, 7302-40M page 13), groove standard block (code 6254)



**Stem (optional)**

Code	M
2261-M24	24"/600mm
2261-M30	30"/750mm
2261-M36	36"/900mm

Code	Range (L)	Movable point stroke	Resolution	Repeatability	M
2261-5	2.6-13"/66-330mm	0.2"/5mm	0.00005"/0.001mm	0.002mm	12"/300mm

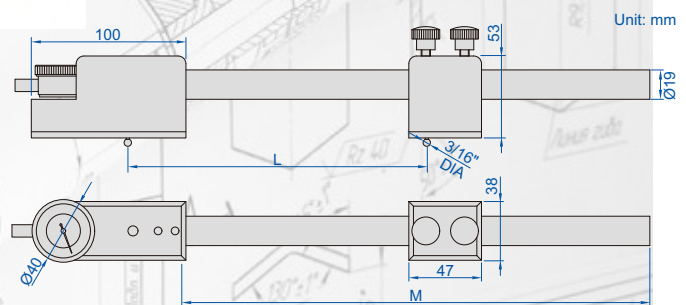
**GROOVE DIAMETER MEASURING INSTRUMENTS**

POINT DIAMETER CAN BE CUSTOM-MADE



2251-5

- Measure the groove diameter of flange ring groove
- Point height is adjustable
- Optional: groove standard block (code 6254)



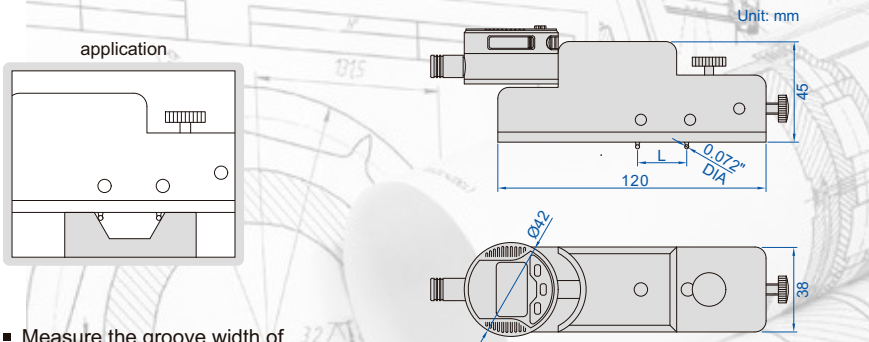
**Stem (optional)**

Code	M
2261-M24	24"/600mm
2261-M30	30"/750mm
2261-M36	36"/900mm

Code	Range (L)	Movable point stroke	Graduation	Repeatability	M
2251-5	2.6-13"/66-330mm	0.2"/5mm	0.01mm	0.005mm	12"/300mm
2251-5E	2.6-13"/66-330mm	0.2"/5mm	0.0005"	0.0002"	12"/300mm

POINT DIAMETER CAN BE CUSTOM-MADE

## DIGITAL GROOVE WIDTH MEASURING INSTRUMENT



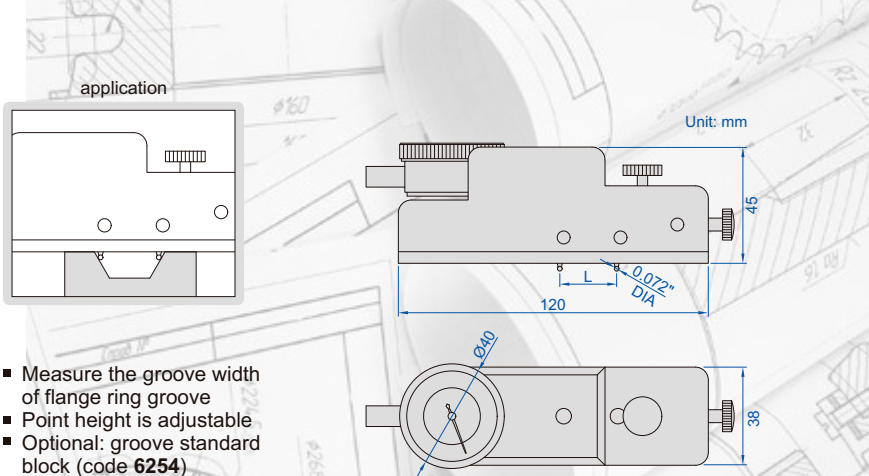
2260-4

- Measure the groove width of flange ring groove
- Point height is adjustable
- Optional: data output cable (code 7315-50M need receiver page 5, 7302-40M page 13), groove standard block (code 6254)

Code	Range (L)	Movable point stroke	Resolution	Repeatability
2260-4	0.55-1.4"/14-35.5mm	0.16"/4mm	0.00005"/0.001mm	0.002mm

POINT DIAMETER CAN BE CUSTOM-MADE

## GROOVE WIDTH MEASURING INSTRUMENTS



2250-4

- Measure the groove width of flange ring groove
- Point height is adjustable
- Optional: groove standard block (code 6254)

Code	Range (L)	Movable point stroke	Graduation	Repeatability
2250-4	0.55-1.4"/14-35.5mm	0.16"/4mm	0.01mm	0.005mm
2250-4E	0.55-1.4"/14-35.5mm	0.16"/4mm	0.0005"	0.0002"

CUSTOM-MADE

## STANDARD GROOVE BLOCK CODE 6254



- Set zero of groove width and groove diameter measuring instruments (code 2250, 2251, 2260, 2261)

**DIGITAL CALIPERS WITH INTERCHANGEABLE BALL TIPS**

REFER TO PAGE 61  
FOR DETAILS



1527-3001



1528-3001

**DIGITAL RTJ RING GROOVE CALIPERS**

REFER TO PAGE 60  
FOR DETAILS



1179-300



1179-600

**THREAD GAGES FOR ROTARY SHOULDERED CONNECTIONS OF PETROLEUM EQUIPMENT**

REFER TO PAGE 372  
FOR DETAILS



4177-23

**CASING, TUBING AND LINE PIPE THREAD GAGES OF PETROLEUM AND GAS EQUIPMENT**

REFER TO PAGE  
373-374 FOR DETAILS



4178-21T