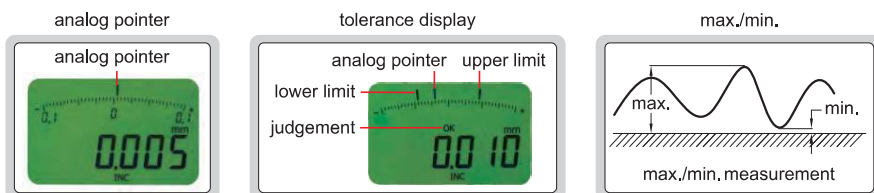


DIGITAL INTERNAL CALIPER GAGES

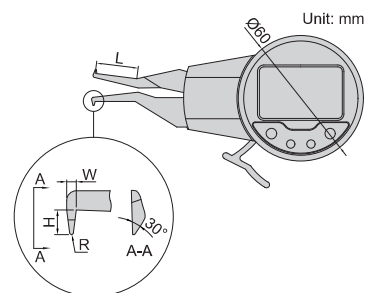
- Resolution: 0.005mm/0.0002"
- Reading in digit and analog
- Display can be rotated by 170°
- Button function: tolerance Go and No-Go display, data preset, max./min. measurement, data holding, inch/metric conversion, absolute/incremental measurement
- CR2032 battery, automatic power off
- Data output



2121-15



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

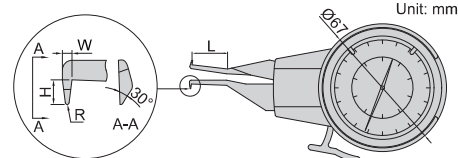


INTERNAL DIAL CALIPER GAGES



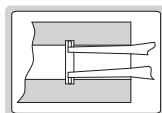
2222-15

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



INTERNAL DIAL CALIPER GAGES

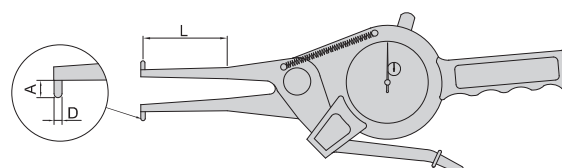
- Carbide measuring tips



Code	Range	Graduation	Accuracy	L	A	D
2321-35	15-35mm	0.01mm	±0.04mm	50	3	∅3
2321-AL35	15-35mm	0.01mm	±0.04mm	200	3	∅3
2321-55	35-55mm	0.01mm	±0.04mm	80	6	∅3
2321-AL55	35-55mm	0.01mm	±0.04mm	250	8	∅3
2321-75	55-75mm	0.01mm	±0.04mm	90	8	∅3
2321-AL75	55-75mm	0.01mm	±0.04mm	250	8	∅3
2321-95	75-95mm	0.01mm	±0.04mm	100	8	∅3
2321-115	95-115mm	0.01mm	±0.04mm	120	10	∅3.2
2321-135	115-135mm	0.01mm	±0.04mm	120	10	∅3.2



2321-35



DATA OUTPUT

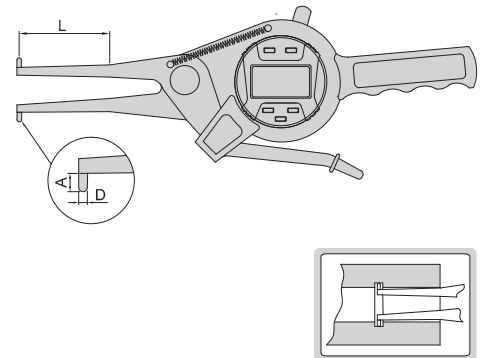
DIGITAL INTERNAL CALIPER GAGES

- Carbide measuring tips
- Reading in digit 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
- CR2032 battery, automatic power off
- Data output
- Optional accessory: data output cable (code 7315-50M, 7302-50M)



2151-35

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

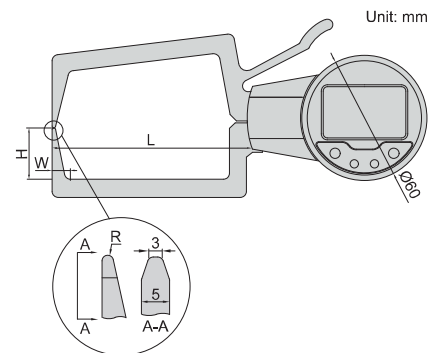
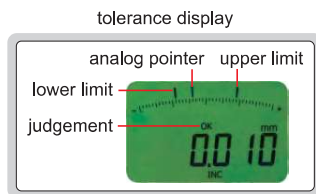
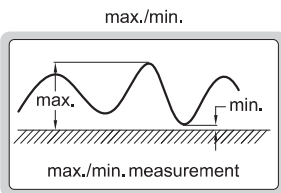


DIGITAL EXTERNAL CALIPER GAGES

- 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

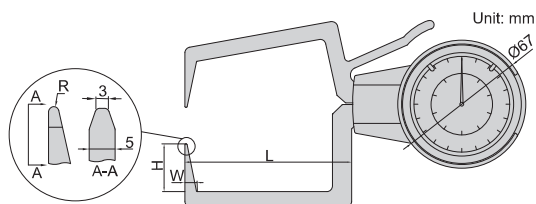


2131-21



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



2333-201

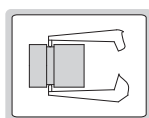
Code	Range	Graduation	Accuracy	L	H	W	R
2333-201	0-20mm	0,01mm	±0,03mm	80	25	6,5	R0,5
2333-301	10-30mm	0,01mm	±0,03mm	80	25	6,5	R0,5
2333-401	20-40mm	0,01mm	±0,03mm	80	25	6,5	R0,5
2333-501	30-50mm	0,01mm	±0,03mm	80	25	6,5	R0,5
2333-601	40-60mm	0,01mm	±0,03mm	80	25	6,5	R0,5

(mm)

8

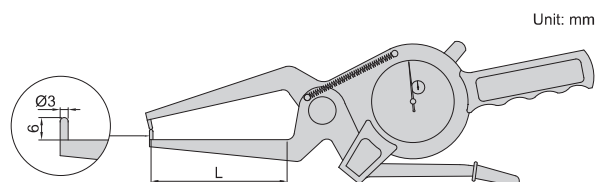
EXTERNAL DIAL CALIPER GAGES

- Carbide measuring tips



2332-20

Code	Range	Graduation	Accuracy	L (mm)
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

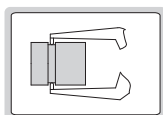


Unit: mm

DIGITAL EXTERNAL CALIPER GAGES

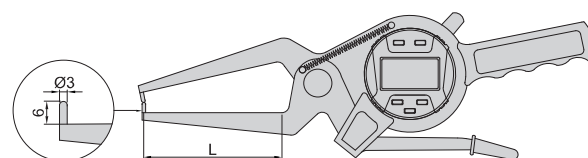
DATA OUTPUT

- Carbide measuring tips
- Reading in digit 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
- CR2032 battery, automatic power off
- Data output
- Optional accessory: data output cable (code 7315-50M, 7302-50M)



2132-20

Code	Range	Resolution	Accuracy	L (mm)
2132-20	0-20mm/0-0.8"	0,01mm/0,0005"	±0,04mm	60
2132-40	20-40mm/0.8-1.6"	0,01mm/0,0005"	±0,04mm	60
2132-60	40-60mm/1.6-2.4"	0,01mm/0,0005"	±0,04mm	55
2132-80	60-80mm/2.4-3.2"	0,01mm/0,0005"	±0,04mm	55
2132-100	80-100mm/3.2-4"	0,01mm/0,0005"	±0,04mm	55

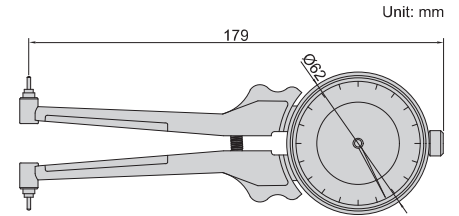


Unit: mm

INTERNAL DIAL CALIPER GAGE WITH INTERCHANGEABLE POINTS

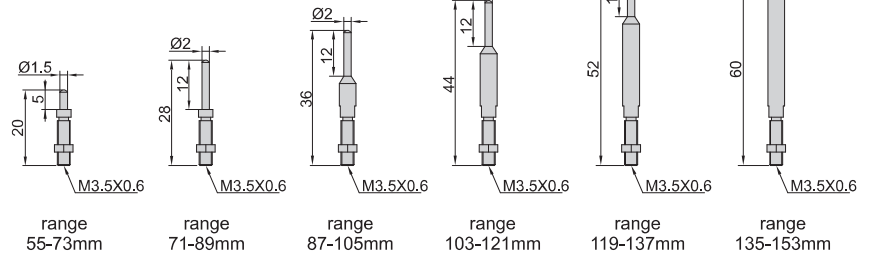


2223-153



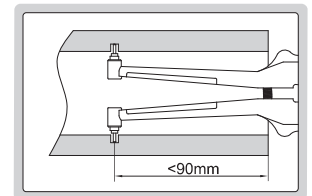
Unit: mm

6 pair of points (included)



Unit: mm

- Supplied with 6 pairs of points



Code	Range	Dial indicator range	Graduation	Accuracy
2223-153	55-153mm	2mm	0.01mm	±0.02mm

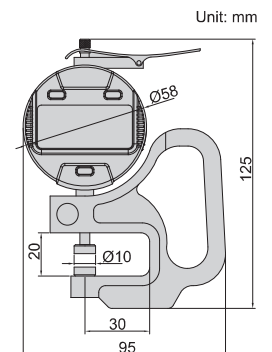
DATA OUTPUT

DIGITAL THICKNESS GAGES

- Ceramic spindle tip and anvil
- Buttons: on/off, zero, mm/inch
- Battery CR2032, automatic power off
- Data output
- Optional accessory: data output cable (code 7315-50M, 7302-50M)



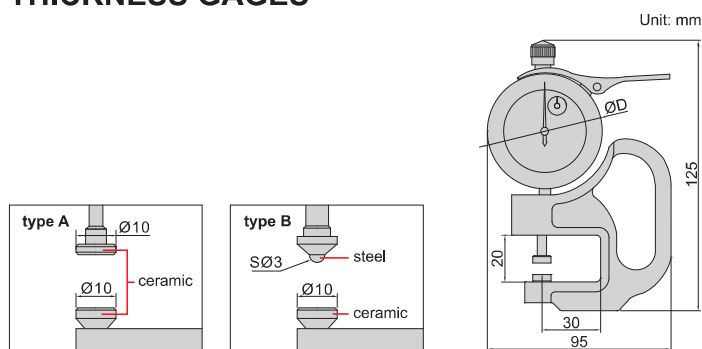
2871-101



Unit: mm

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



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

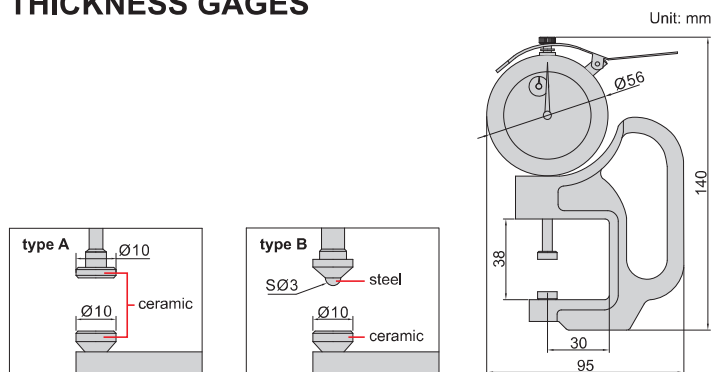


2364-10

2364-1

8

THICKNESS GAGES

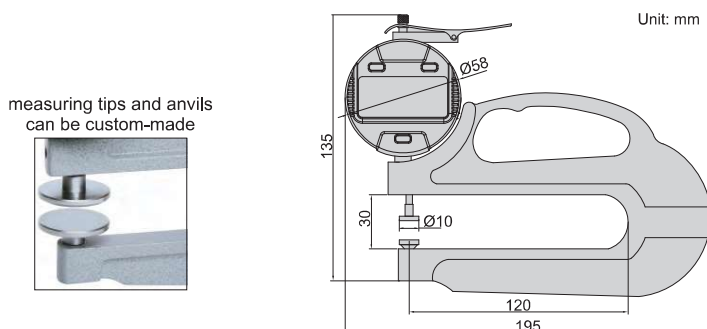


Code	Range	Graduation	Accuracy	Type
2366-30	0-30mm	0.01mm	±0.035mm	A
2366-30B	0-30mm	0.01mm	±0.035mm	B



2366-30

DIGITAL THICKNESS GAGE



- Ceramic spindle tip and anvil
- Buttons: on/off, zero, mm/inch
- Battery CR2032, automatic power off
- Data output
- Optional accessory: data output cable (code 7315-50M, 7302-50M)

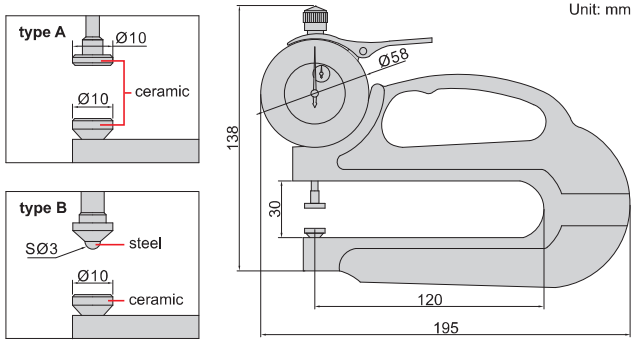
DATA OUTPUT



2872-10

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

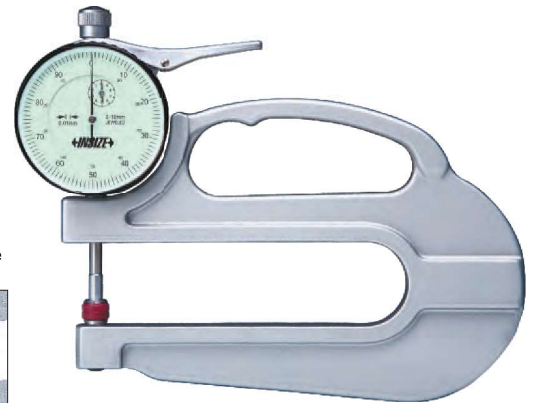
THICKNESS GAGES



Unit: mm

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

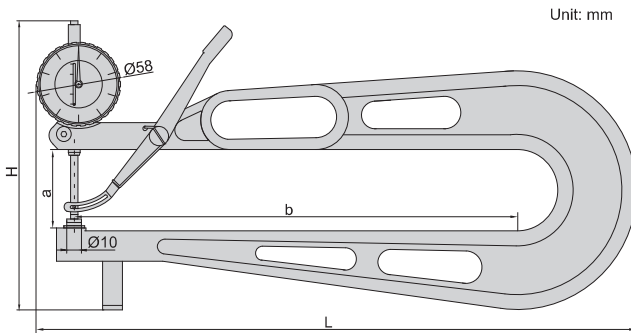
measuring tips and anvils can be custom-made



2365-10

THICKNESS GAGES

INSIZE PLUS
MADE IN EUROPE



Unit: mm



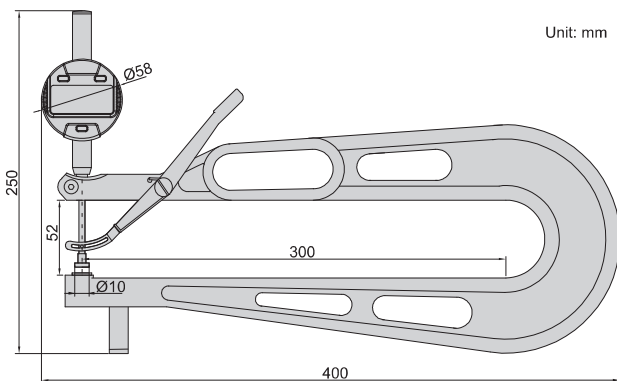
2875-30

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

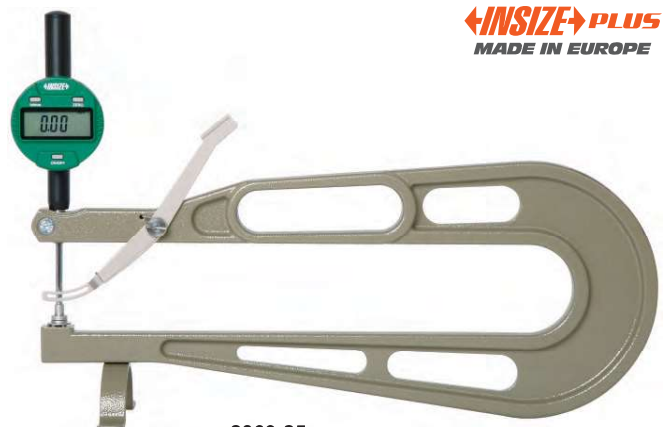
INSPECTION CERTIFICATE

DIGITAL THICKNESS GAGE

INSIZE PLUS
MADE IN EUROPE



Unit: mm



2860-25

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

*Supplied with manufacturer inspection certificate

- Buttons: on/off, zero, mm/inch
- Battery CR2032, automatic power off
- Data output
- Optional accessory: data output cable (code 7315-50M, 7302-50M)

DIGITAL ROLLER THICKNESS GAGE

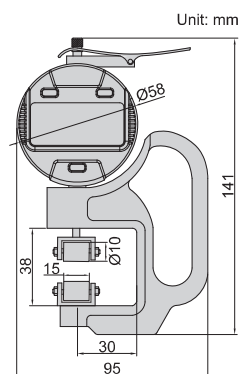
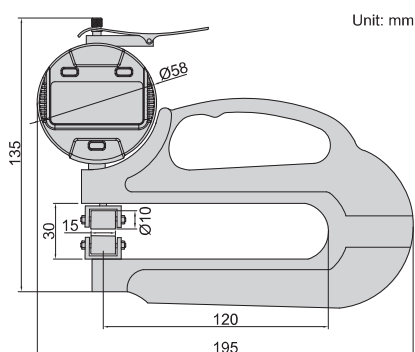
DATA
OUTPUT



2877-4



2877-10



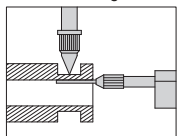
Code	Range	Resolution	Accuracy
2877-4	0-4.5mm/0-0.18"	0.01mm/0.0005"	±0.02mm
2877-10	0-10mm/0-0.4"	0.01mm/0.0005"	±0.02mm

- Buttons: on/off, zero, mm/inch
- Battery CR2032, automatic power off
- Data output
- Optional accessory: data output cable (code 7315-50M, 7302-50M)

DIGITAL TUBE THICKNESS GAGE

DATA
OUTPUT

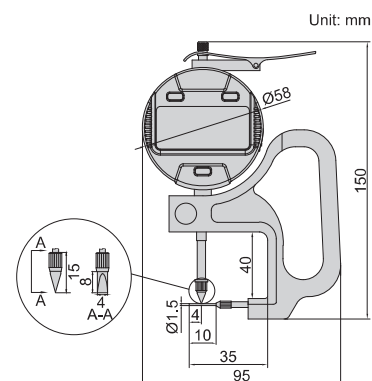
measure wall
thickness of grooves



- Buttons: on/off, zero, mm/inch
- Battery CR2032, automatic power off
- Data output
- Optional accessory: data output cable (code 7315-50M, 7302-50M)

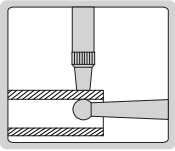


2873-10



Code	Range	Resolution	Accuracy
2873-10	0-10mm/0-0.4"	0.01mm/0.0005"	±0.02mm

DATA OUTPUT



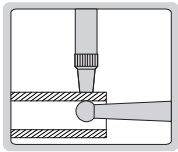
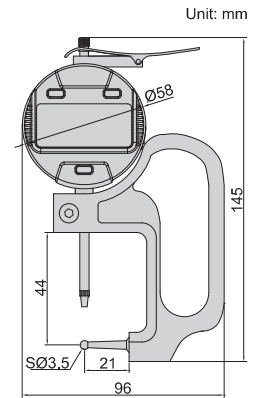
- Buttons: on/off, zero, mm/inch
- Battery CR2032, automatic power off
- Data output
- Optional accessory: data output cable (code 7315-50M, 7302-50M)

Code	Range	Resolution	Accuracy
2876-10	0-10mm/0-0.4"	0.01mm/0.0005"	±0.02mm

DIGITAL TUBE THICKNESS GAGE



2876-10



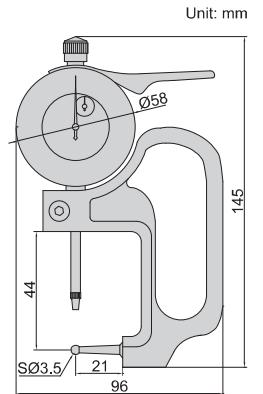
- Measure tube wall thickness

Code	Range	Graduation	Accuracy
2367-10A	0-10mm	0.01mm	±0.02mm

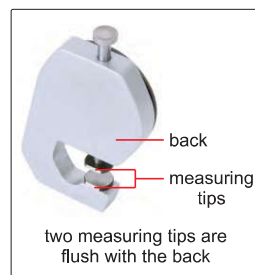
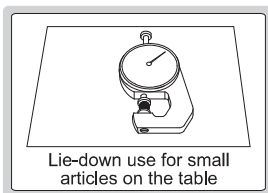
TUBE THICKNESS GAGE



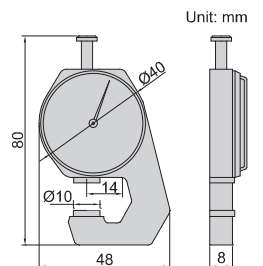
2367-10A



SUITABLE FOR JEWELLERY



2361-10



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

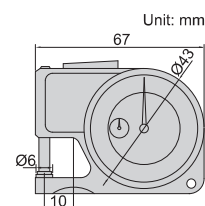
THICKNESS GAGE

THICKNESS GAGE

- Stainless steel spindle tip and anvil



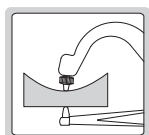
2363-10



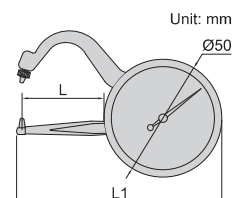
Code	Range	Graduation	Accuracy
2363-10	0-10mm	0.01mm	±0.03mm

THICKNESS GAGES

8

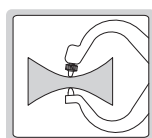


2862-101

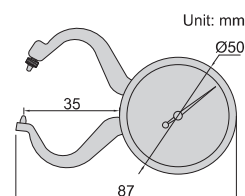


Code	Range	Graduation	Accuracy	L	L1
2862-101	0-10mm	0.05mm	±0.1mm	35mm	85mm
2862-102	0-10mm	0.05mm	±0.1mm	60mm	110mm

THICKNESS GAGE



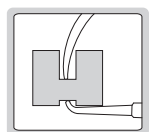
2863-10



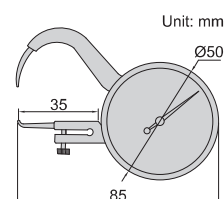
Code	Range	Graduation	Accuracy
2863-10	0-10mm	0.05mm	±0.1mm

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

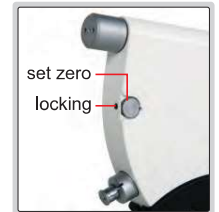
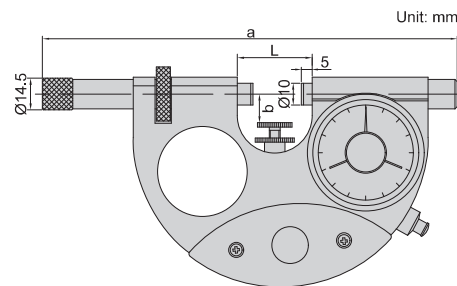
IP54
WATERPROOF

DIAL SNAP GAGES
INSIZE PLUS
MADE IN EUROPE

- Quick Go/No-Go measurement for mass production
- Anvil retracting stroke: 2.5mm
- Dial indicator: measuring range $\pm 0.07\text{mm}$, graduation $1\mu\text{m}$, accuracy $\pm 1\mu\text{m}$
- 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



3335-25



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

INSPECTION CERTIFICATE
TRACEABLE TO DKD

QUICK AND ACCURATE MEASUREMENT
OF CYLINDRICAL WORKPIECES



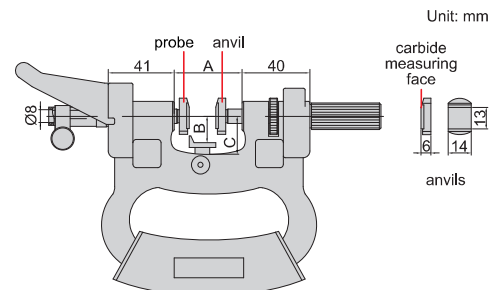
DIAL SNAP GAGES

- 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 0.001mm or 0.01mm)



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



* Supplied with manufacturer inspection certificate traceable to DKD Germany

DIAL SNAP GAGES (ECONOMIC TYPE)

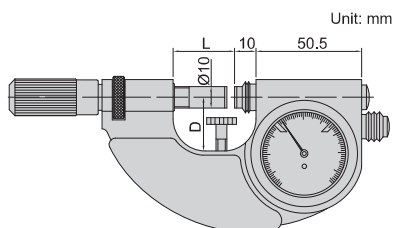
ATTENTION: SETTING STANDARDS ARE NOT INCLUDED

IP54
WATERPROOF

- Quick measurement for mass production
- Dial indicator: range $\pm 0.04\text{mm}$, graduation 0.001mm , accuracy 0.001mm
- 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

8

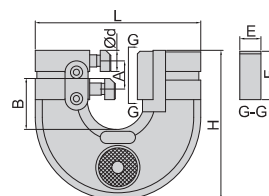
ADJUSTABLE SNAP GAGES

FAST AND ACCURATE MEASUREMENT FOR CYLINDERS

- Used as Go/No-Go gage by setting upper and lower limits
- Flatness of anvil: $1.5\mu\text{m}$
- Parallelism of measuring faces:
 - range 0-32mm: $3\mu\text{m}$
 - range 32-89mm: $4\mu\text{m}$
 - range 89-300mm: $5\mu\text{m}$



2187-19



Code	Range	L	A	B	E	F	H	Ød
2187-6	0-6mm	74	15	17.5	12.2	27.2	71.5	7
2187-13	6-13mm	85	15	26	12.2	27.2	79.5	12.3
2187-19	13-19mm	93	15	27	12.2	27.2	83	12.3
2187-25	19-25mm	100	15	33.5	12.2	27.2	89.5	12.3
2187-32	25-32mm	111	18	38.5	15.2	35.2	104	15.3
2187-38	32-38mm	117	18	41.5	15.2	35.2	105	15.3
2187-44	38-44mm	123	18	44.5	15.2	35.2	109	15.3
2187-51	44-51mm	130	18	48	15.2	35.2	117	15.3
2187-57	51-57mm	136	18	45	15.2	35.2	119	15.3
2187-63	57-63mm	143	18	50	15.2	35.2	122	15.3
2187-70	63-70mm	156	20	58	15.2	35.2	132	15.3
2187-76	70-76mm	163	20	60.5	15.2	35.2	137	15.3
2187-82	76-82mm	169	20	64.5	15.2	35.2	140	15.3
2187-89	82-89mm	175	20	66.5	15.2	35.2	146	15.3
2187-95	89-95mm	181	20	69.5	15.2	35.2	149	15.3
2187-101	95-101mm	188	20	70	15.2	35.2	154	15.3
2187-108	101-108mm	198	24	79	15.2	39.2	166	15.3
2187-114	108-114mm	204	24	81	15.2	39.2	172	15.3

Code	Range	L	A	B	E	F	H	Ød
2187-120	114-120mm	210	24	86	15.2	39.2	179	15.3
2187-127	120-127mm	217	24	89.5	15.2	39.2	186	15.3
2187-133	127-133mm	223	24	92.5	15.2	39.2	192	15.3
2187-139	133-139mm	229	24	95.5	15.2	39.2	197	15.3
2187-146	139-146mm	235	24	98.5	15.2	39.2	201	15.3
2187-152	146-152mm	242	24	102	15.2	39.2	205	15.3
2187-163	152-163mm	273	21.4	106.7	18.2	39.2	211	18.3
2187-175	163-175mm	273	21.4	106.7	18.2	39.2	211	18.3
2187-188	175-188mm	298.5	21.4	119.7	18.2	39.2	227	18.3
2187-200	188-200mm	298.5	21.4	119.7	18.2	39.2	227	18.3
2187-213	200-213mm	324	21.4	131.7	18.2	39.2	242	18.3
2187-225	213-225mm	324	21.4	131.7	18.2	39.2	242	18.3
2187-238	225-238mm	349.5	21.4	144.7	18.2	39.2	250	18.3
2187-250	238-250mm	349.5	21.4	149	18.2	39.2	250	18.3
2187-263	250-263mm	375.5	21.4	157.7	18.2	39.2	278	18.3
2187-275	263-275mm	375.5	21.4	157.7	18.2	39.2	278	18.3
2187-288	275-288mm	400	21.4	170.7	18.2	39.2	291	18.3
2187-300	288-300mm	400	21.4	170.7	18.2	39.2	291	18.3

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")

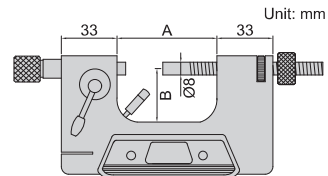
DIAL SNAP GAGES



dial indicator is optional

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

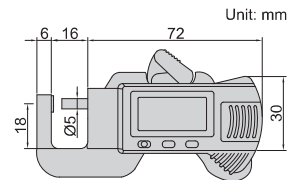


ATTENTION: NO DATA OUTPUT

DIGITAL SNAP GAGE



2166-12



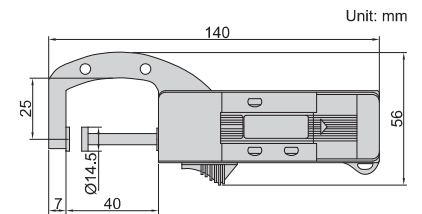
Code	Range	Resolution	Accuracy
2166-12	0-12mm/0-0.5"	0.01mm/0.0005"	±0.03mm

ATTENTION: NO DATA OUTPUT

DIGITAL SNAP GAGE



2167-25



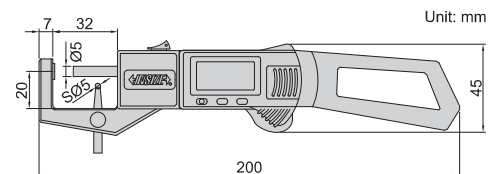
Code	Range	Resolution	Accuracy
2167-25	0-25mm/0-1"	0.01mm/0.0005"	±0.03mm

ATTENTION: NO DATA OUTPUT

DIGITAL SNAP GAGE

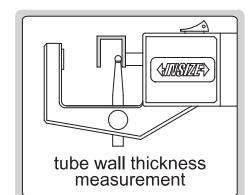
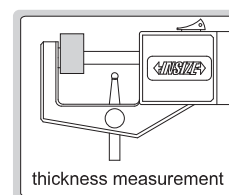


2163-25



- Resolution: 0.01mm/0.0005"
- Accuracy: ±0.04mm
- For thickness and tube wall thickness measurement

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



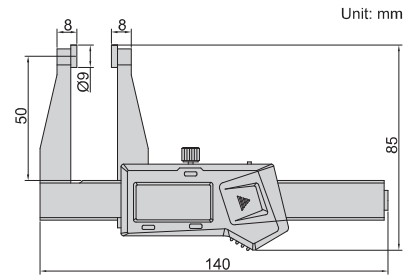
DIGITAL SNAP GAGES

DATA OUTPUT

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



1163-50A



With data interface (data output cable code 7315-21, 7302-21, optional)

Code	Range	Resolution	Accuracy
1163-50A	0-50mm/0-2"	0.01mm/0.0005"	±0.03mm

Built-in wireless

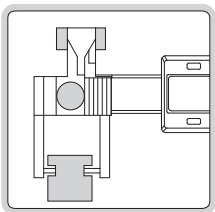
Code	Range	Resolution	Accuracy
1163-50AWL	0-50mm/0-2"	0.01mm/0.0005"	±0.03mm

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DIGITAL 3-PURPOSE SNAP GAGE

ATTENTION: NO DATA OUTPUT

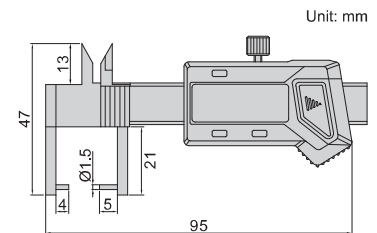
SUITABLE FOR JEWELLERY



2164-25A

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

Code	Range	Resolution	Accuracy
2164-25A	0-25mm/0-1"	0.01mm/0.0005"	±0.03mm



STEP AND GAP GAGES

DATA OUTPUT

- 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



front

2168-12

back

zero setting block (included)

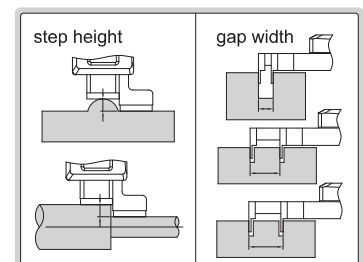
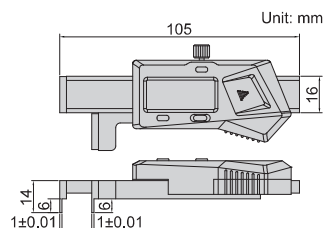


With data interface (data output cable code 7315-21, 7302-21, optional)

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

Built-in wireless

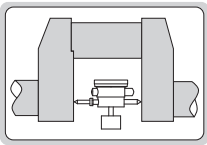
Code	Range	Accuracy
2168-12WL	0-12.7mm/0-0.5"	±0.03mm



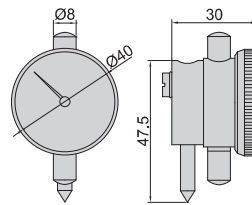
CRANKSHAFT TESTERS



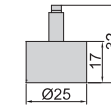
2841-500



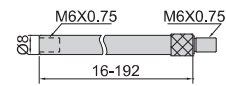
Unit: mm



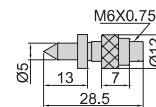
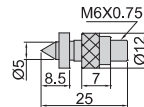
dial indicator



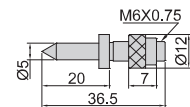
balance block



extension rods



anvils



- 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

SAW TEETH SETTING GAGE

INSIZE PLUS
MADE IN EUROPE



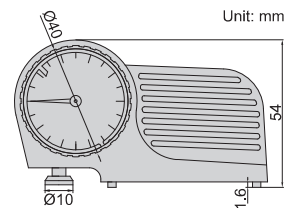
front



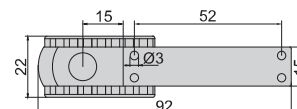
back

2874-02

- Supplied with limit pointer
- Read from both sides



Unit: mm



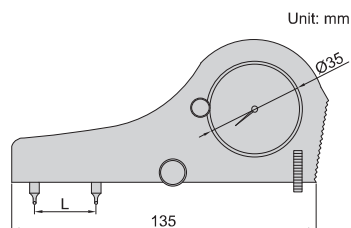
Code	Range	Graduation	Accuracy
2874-02	0-2mm	0.05mm	±0.05mm

INTERNAL THREAD PITCH MEASURING INSTRUMENTS

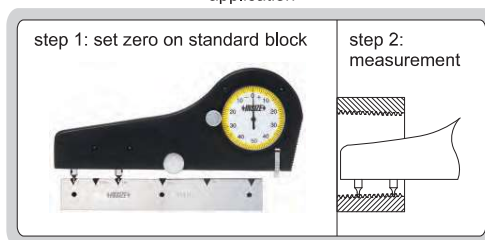
MEET INTERNATIONAL STANDARD API5B



2235-4E



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)

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	0.03"	0.0005"	0.0008"

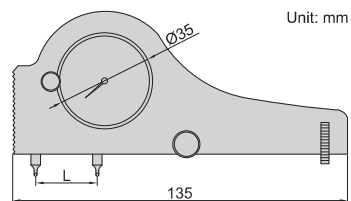
8

THREAD PITCH MEASURING INSTRUMENTS

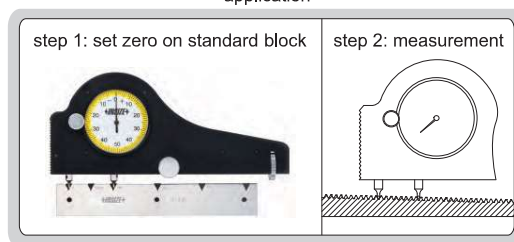
MEET INTERNATIONAL STANDARD API5B



2234-4E



application



- 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	0.03"	0.0005"	0.0008"

STANDARD PITCH BLOCKS

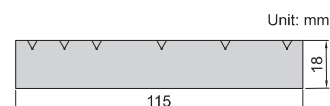
CAN BE CUSTOMIZED ACCORDING TO WORKPIECES

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

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



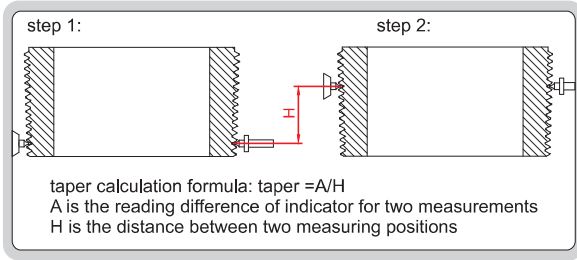
6251-S8



MEET INTERNATIONAL
STANDARD API5B

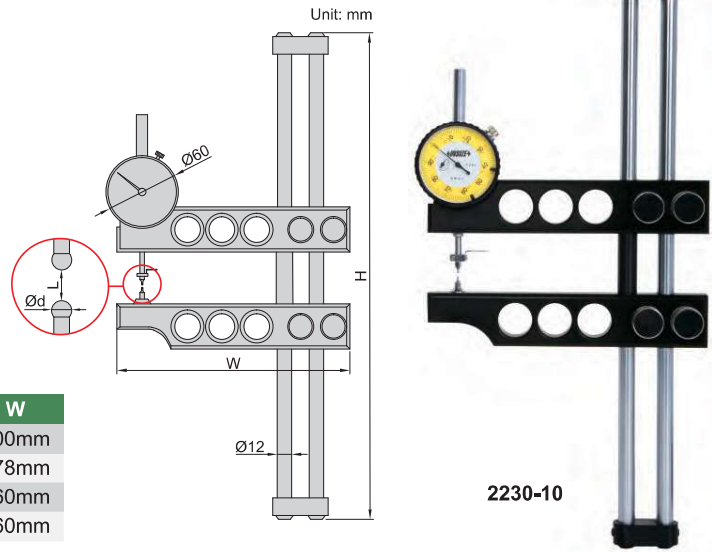
EXTERNAL THREAD TAPER MEASURING INSTRUMENTS

principle of measurement



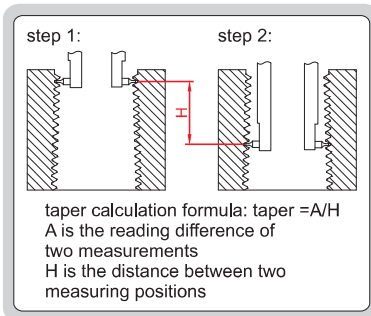
- Measure the taper of external thread
- Dial indicator stroke: 0.5"
- Dial indicator graduation: 0,001"
- Optional accessory: ball points (code 6252 series)

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



8

principle of measurement

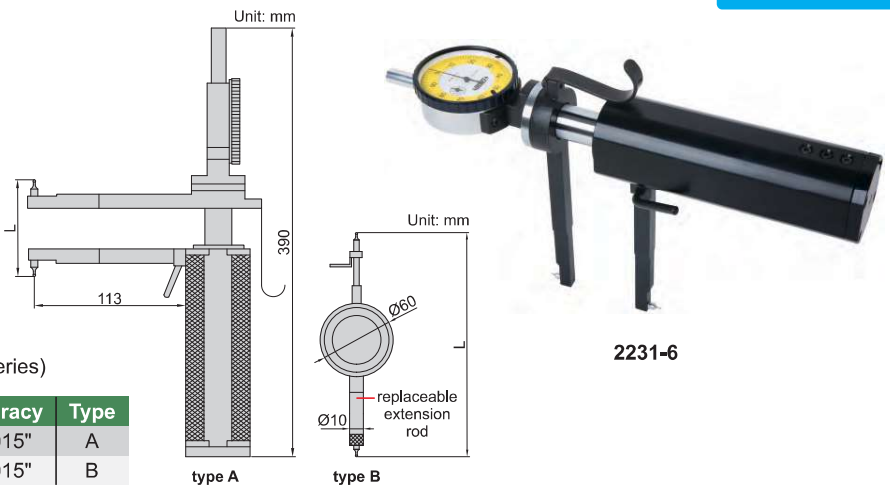


- Measure the taper of internal thread
- Dial indicator stroke: 1"
- Dial indicator graduation: 0,001"
- Optional accessory: ball points (code 6252 series)

Code	Range (L)	Accuracy	Type
2231-6	1-6"/25.4-152.4mm	0.0015"	A
2231-16	5 1/2"-16"/139.7-406.4mm	0.0015"	B

INTERNAL THREAD TAPER MEASURING INSTRUMENTS

MEET INTERNATIONAL
STANDARD API5B



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

BALL POINTS

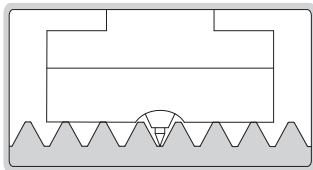


- Supplied in pair
- For taper measuring instruments (code 2230, 2231) and pitch measuring instruments (code 2234, 2235)

THREAD HEIGHT MEASURING INSTRUMENTS

MEET INTERNATIONAL STANDARD API5B

application

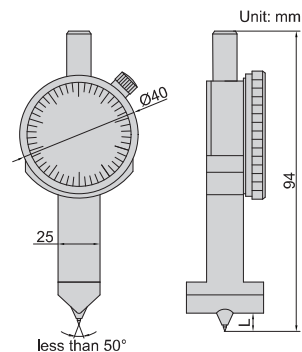


- Measure the height of external thread and internal thread with nominal diameter larger than 5 1/2" (139.7mm)
- Optional accessory: thread height standard blocks (code 6250)

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"



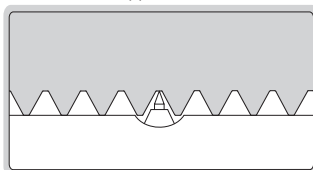
2232-35E



INTERNAL THREAD HEIGHT MEASURING INSTRUMENTS

MEET INTERNATIONAL STANDARD API5B

application

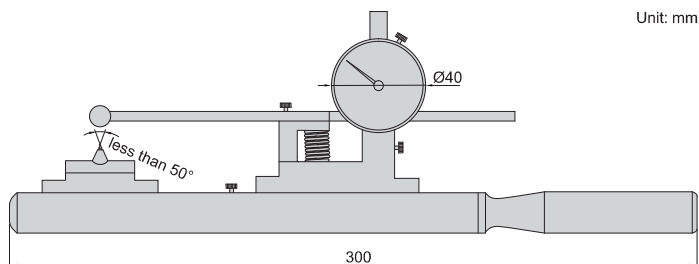


- Measure the height of internal thread with nominal diameter less than 5 1/2" (139.7mm)
- Optional accessory: thread height standard blocks (code 6250)

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



2233-35E



THREAD HEIGHT STANDARD BLOCKS

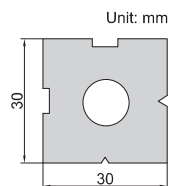
CAN BE CUSTOMIZED ACCORDING TO WORKPIECES

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

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

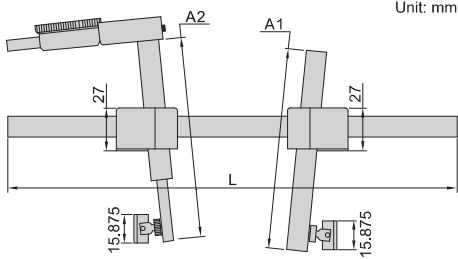


6250-8



MEET INTERNATIONAL
STANDARD API5B

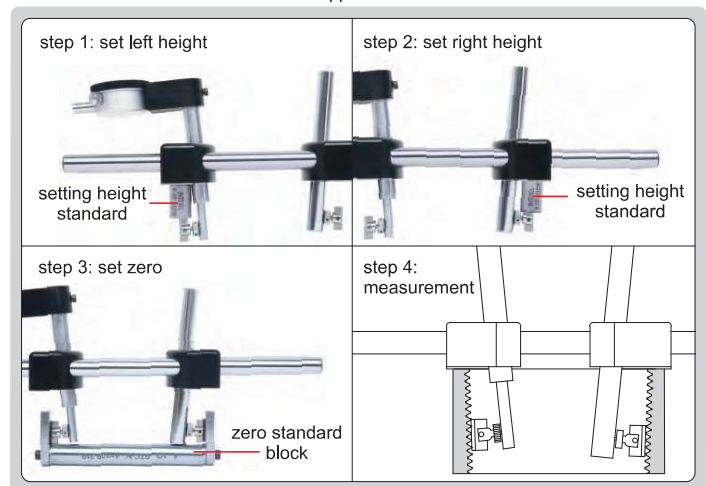
INTERNAL THREAD CREST DIAMETER MEASURING INSTRUMENTS



2237-5E

- 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

application



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

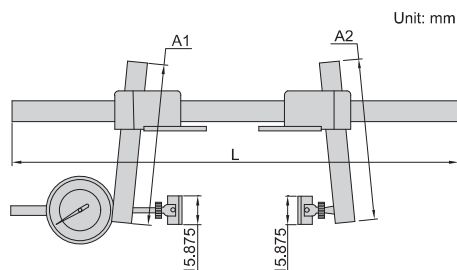
EXTERNAL THREAD CREST DIAMETER MEASURING INSTRUMENTS

MEET INTERNATIONAL STANDARD API5B

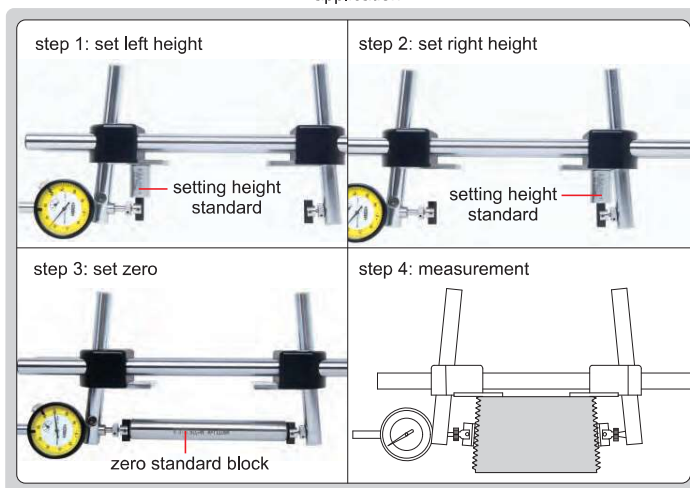
8



2236-5E



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