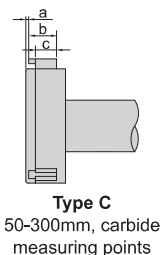
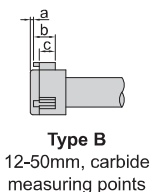
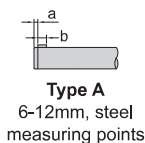
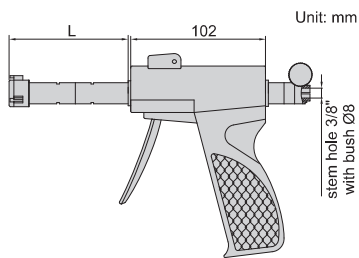


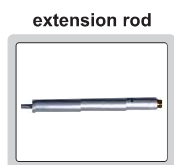
PISTOL GRIP THREE POINTS BORE GAGES



- Optional accessory:
digital indicators (code **2108-101F**, resolution 0.001mm/0.0005"),
setting rings (code **6312**)



6-100mm: included
100-300mm: optional



included

Individual

(mm)

Code	Range	Type	Accuracy (without digital indicator)	Setting ring	Extension rod (included)	L	a	b	c
2124-8 *	6-8mm	A	4µm	Ø6mm (included)	100mm	50	1.5	2.5	—
2124-10 *	8-10mm	A	4µm	Ø8mm (included)	100mm	50	1.5	2.5	—
2124-12 *	10-12mm	A	4µm	Ø10mm (included)	100mm	50	1.5	2.5	—
2124-16 *	12-16mm	B	4µm	Ø16mm (included)	150mm	65	0.5	6	4.5
2124-20 *	16-20mm	B	4µm	Ø16mm (included)	150mm	65	0.5	6	4.5
2124-25 *	20-25mm	B	4µm	Ø25mm (included)	150mm	91	0.5	8	6
2124-30 *	25-30mm	B	4µm	Ø25mm (included)	150mm	91	0.5	8	6
2124-40 *	30-40mm	B	4µm	Ø40mm (included)	150mm	97	0.5	14	12
2124-50 *	40-50mm	B	5µm	Ø40mm (included)	150mm	97	0.5	14	12
2124-63 *	50-63mm	C	5µm	Ø62mm (included)	150mm	112	0.5	17.5	14.5
2124-75 *	62-75mm	C	5µm	Ø62mm (included)	150mm	112	0.5	17.5	14.5
2124-88 *	75-88mm	C	5µm	Ø87mm (included)	150mm	112	0.5	17.5	14.5
2124-100 *	87-100mm	C	5µm	Ø87mm (included)	150mm	112	0.5	17.5	14.5
2124-125 *	100-125mm	C	6µm	optional	150mm	140	0.9	29	25
2124-150 *	125-150mm	C	6µm	optional	150mm	140	0.9	29	25
2124-175 *	150-175mm	C	7µm	optional	150mm	140	0.9	29	25
2124-200 *	175-200mm	C	7µm	optional	150mm	140	0.9	29	25
2124-225	200-225mm	C	8µm	optional	150mm	140	0.9	29	25
2124-250	225-250mm	C	8µm	optional	150mm	140	0.9	29	25
2124-275	250-275mm	C	9µm	optional	150mm	140	0.9	29	25
2124-300	275-300mm	C	9µm	optional	150mm	140	0.9	29	25

Set

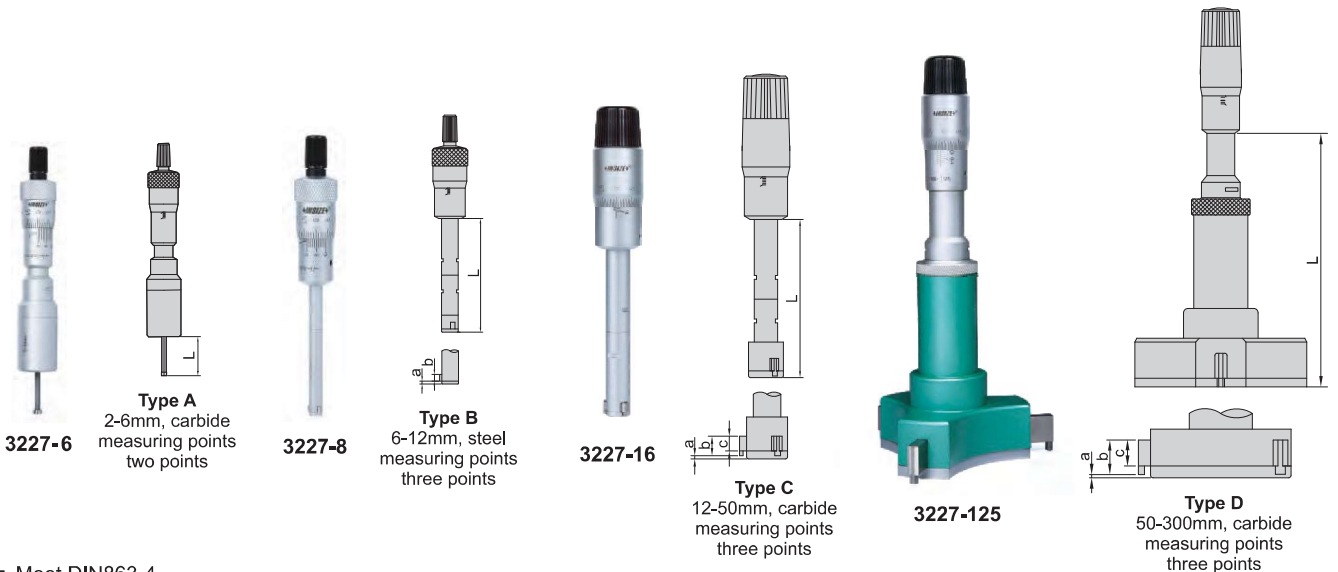
Code	Range	Probes included	Setting ring (included)	Extension rod (included)
2124-S123 *	6-12mm	6-8mm, 8-10mm, 10-12mm	Ø6mm, Ø8mm, Ø10mm	100mm
2124-S202 *	12-20mm	12-16mm, 16-20mm	Ø16mm	150mm
2124-S504 *	20-50mm	20-25mm, 25-30mm, 30-40mm, 40-50mm	Ø25mm, Ø40mm	150mm
2124-S1004 *	50-100mm	50-63mm, 62-75mm, 75-88mm, 87-100mm	Ø62mm, Ø87mm	150mm



2124-S504

* Supplied with manufacturer inspection certificate

TWO POINTS/THREE POINTS INTERNAL MICROMETERS



- Meet DIN863-4
- 2-12mm: graduation 0,001mm
12-300mm: graduation 0,005mm
- Ratchet stop
- Optional accessory: setting rings (code **6312**),
micrometer stand and clamp (code **6301** and **6301-2**)

Individual

(mm)

Code	Range	Type	Accuracy	Setting ring	Extension rod (included)	L	a	b	c
3227-2 *	2-2.5mm	A (two points)	6µm	Ø2.5 (included)	—	12	—	—	—
3227-3 *	2.5-3mm	A (two points)	6µm	Ø2.5 (included)	—	12	—	—	—
3227-4 *	3-4mm	A (two points)	6µm	Ø4 (included)	—	22	—	—	—
3227-5 *	4-5mm	A (two points)	6µm	Ø5 (included)	—	22	—	—	—
3227-6 *	5-6mm	A (two points)	6µm	Ø6 (included)	—	22	—	—	—
3227-8 *	6-8mm	B (three points)	4µm	Ø6 (included)	100	54.5	1.5	2.5	—
3227-10 *	8-10mm	B (three points)	4µm	Ø8 (included)	100	54.5	1.5	2.5	—
3227-12 *	10-12mm	B (three points)	4µm	Ø10 (included)	100	54.5	1.5	2.5	—
3227-16 *	12-16mm	C (three points)	4µm	Ø16 (included)	150	80	0.5	6	4.5
3227-20 *	16-20mm	C (three points)	4µm	Ø16 (included)	150	80	0.5	6	4.5
3227-25 *	20-25mm	C (three points)	4µm	Ø25 (included)	150	90	0.5	8	6
3227-30 *	25-30mm	C (three points)	4µm	Ø25 (included)	150	90	0.5	8	6
3227-40 *	30-40mm	C (three points)	4µm	Ø40 (included)	150	97	0.5	14	12
3227-50 *	40-50mm	C (three points)	5µm	Ø40 (included)	150	97	0.5	14	12
3227-63 *	50-63mm	D (three points)	5µm	Ø62 (included)	150	114	0.5	17.5	14.5
3227-75 *	62-75mm	D (three points)	5µm	Ø62 (included)	150	114	0.5	17.5	14.5
3227-88 *	75-88mm	D (three points)	5µm	Ø87 (included)	150	114	0.5	17.5	14.5
3227-100 *	87-100mm	D (three points)	5µm	Ø87 (included)	150	114	0.5	17.5	14.5
3227-125 *	100-125mm	D (three points)	6µm	optional	150	140	0.9	29	25
3227-150 *	125-150mm	D (three points)	6µm	optional	150	140	0.9	29	25
3227-175 *	150-175mm	D (three points)	7µm	optional	150	140	0.9	29	25
3227-200 *	175-200mm	D (three points)	7µm	optional	150	140	0.9	29	25
3227-225	200-225mm	D (three points)	8µm	optional	150	140	0.9	29	25
3227-250	225-250mm	D (three points)	8µm	optional	150	140	0.9	29	25
3227-275	250-275mm	D (three points)	9µm	optional	150	140	0.9	29	25
3227-300	275-300mm	D (three points)	9µm	optional	150	140	0.9	29	25

To be continued

Continued from previous page

micrometer stand with clamp (optional)



setting ring



2-100mm: included
100-300mm: optional

extension rod



included



3227-504

Set

Code	Range	Micrometers included	Setting ring (included)	Extension rod (included)
3227-232 *	2-3mm	2-2.5mm, 2.5-3mm	Ø2.5mm	—
3227-363 *	3-6mm	3-4mm, 4-5mm, 5-6mm	Ø4mm, Ø5mm, Ø6mm	—
3227-123 *	6-12mm	6-8mm, 8-10mm, 10-12mm	Ø6mm, Ø8mm, Ø10mm	100mm
3227-202 *	12-20mm	12-16mm, 16-20mm	Ø16mm	150mm
3227-504 *	20-50mm	20-25mm, 25-30mm, 30-40mm, 40-50mm	Ø25mm, Ø40mm	150mm
3227-1004 *	50-100mm	50-63mm, 62-75mm, 75-88mm, 87-100mm	Ø62mm, Ø87mm	150mm

* Supplied with manufacturer inspection certificate

DIGITAL TWO POINTS/THREE POINTS INTERNAL MICROMETERS

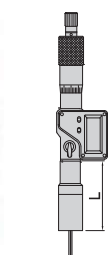


IP65
WATERPROOF

DATA
OUTPUT



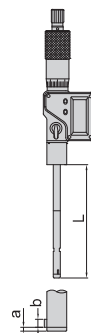
3127-5



Type A
2-6mm, carbide measuring points two points



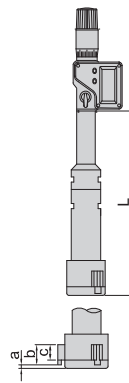
3127-12



Type B
6-12mm, steel measuring points three points



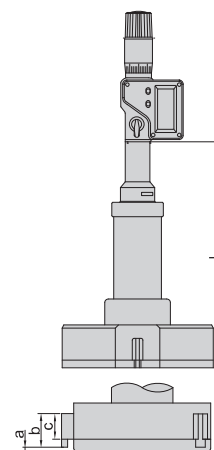
3127-40



Type C
12-50mm, carbide measuring points three points



3127-125



Type D
50-300mm, carbide measuring points three points

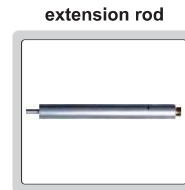
- Resolution 0.001mm/0.00005" (resolution of 3127-275 and 3127-300 is 0.001mm/0.0001")
- IP65 dust/waterproof
- Buttons: on/off, set, mm/inch, ABS/INC
- Data output
- LR44 battery, automatic power off
- Ratchet stop
- Optional accessory: data output cable (code 7315-30, 7302-30), setting ring (code 6312), micrometer stand and clamp (code 6301 and 6301-2)

To be continued

Continued from previous page



2-100mm: included
100-300mm: optional



included



3127-202

Individual

(mm)

Code	Range	Type	Accuracy	Setting ring	Extension rod (included)	L	a	b	c
3127-2*	2-2.5mm/0.08-0.10"	A (two points)	6µm	Ø2.5 (included)	—	12	—	—	—
3127-3*	2.5-3mm/0.10-0.12"	A (two points)	6µm	Ø2.5 (included)	—	12	—	—	—
3127-4*	3-4mm/0.12-0.16"	A (two points)	6µm	Ø4 (included)	—	22	—	—	—
3127-5*	4-5mm/0.16-0.20"	A (two points)	6µm	Ø5 (included)	—	22	—	—	—
3127-6*	5-6mm/0.20-0.24"	A (two points)	6µm	Ø6 (included)	—	22	—	—	—
3127-8*	6-8mm/0.24-0.31"	B (three points)	4µm	Ø6 (included)	100	57	1.5	2.5	—
3127-10*	8-10mm/0.31-0.39"	B (three points)	4µm	Ø8 (included)	100	57	1.5	2.5	—
3127-12*	10-12mm/0.39-0.47"	B (three points)	4µm	Ø10 (included)	100	57	1.5	2.5	—
3127-16*	12-16mm/0.47-0.63"	C (three points)	4µm	Ø16 (included)	150	99	0.5	6	4.5
3127-20*	16-20mm/0.63-0.79"	C (three points)	4µm	Ø16 (included)	150	99	0.5	6	4.5
3127-25*	20-25mm/0.79-0.98"	C (three points)	4µm	Ø25 (included)	150	105	0.5	8	6
3127-30*	25-30mm/0.98-1.18"	C (three points)	4µm	Ø25 (included)	150	105	0.5	8	6
3127-40*	30-40mm/1.18-1.57"	C (three points)	4µm	Ø40 (included)	150	110	0.5	14	12
3127-50*	40-50mm/1.57-1.97"	C (three points)	5µm	Ø40 (included)	150	110	0.5	14	12
3127-63*	50-63mm/1.97-2.48"	D (three points)	5µm	Ø62 (included)	150	127	0.5	17.5	14.5
3127-75*	62-75mm/2.44-2.95"	D (three points)	5µm	Ø62 (included)	150	127	0.5	17.5	14.5
3127-88*	75-88mm/2.95-3.46"	D (three points)	5µm	Ø87 (included)	150	127	0.5	17.5	14.5
3127-100*	87-100mm/3.43-3.94"	D (three points)	5µm	Ø87 (included)	150	127	0.5	17.5	14.5
3127-125*	100-125mm/3.94-4.92"	D (three points)	6µm	optional	150	175	0.9	29	25
3127-150*	125-150mm/4.92-5.91"	D (three points)	6µm	optional	150	175	0.9	29	25
3127-175*	150-175mm/5.91-6.89"	D (three points)	7µm	optional	150	175	0.9	29	25
3127-200*	175-200mm/6.89-7.87"	D (three points)	7µm	optional	150	175	0.9	29	25
3127-225	200-225mm/7.87-8.86"	D (three points)	8µm	optional	150	175	0.9	29	25
3127-250	225-250mm/8.86-9.84"	D (three points)	8µm	optional	150	175	0.9	29	25
3127-275	250-275mm/9.84-10.83"	D (three points)	9µm	optional	150	175	0.9	29	25
3127-300	275-300mm/10.83-11.81"	D (three points)	9µm	optional	150	175	0.9	29	25

Set

Code	Range	Micrometers included	Setting ring (included)	Extension rod (included)
3127-232*	2-3mm/0.08-0.12"	2-2.5mm, 2.5-3mm	Ø2.5mm	—
3127-363*	3-6mm/0.12-0.24"	3-4mm, 4-5mm, 5-6mm	Ø4mm, Ø5mm, Ø6mm	—
3127-123*	6-12mm/0.24-0.47"	6-8mm, 8-10mm, 10-12mm	Ø6mm, Ø8mm, Ø10mm	100mm
3127-202*	12-20mm/0.47-0.79"	12-16mm, 16-20mm	Ø16mm	150mm
3127-504*	20-50mm/0.79-1.97"	20-25mm, 25-30mm, 30-40mm, 40-50mm	Ø25mm, Ø40mm	150mm
3127-1004*	50-100mm/1.97-3.94"	50-63mm, 62-75mm, 75-88mm, 87-100mm	Ø62mm, Ø87mm	150mm

*Supplied with manufacturer inspection certificate

WIDE RANGE THREE POINTS INTERNAL MICROMETERS

- Meet DIN863-4
- Graduation 0.001mm
- Carbide measuring faces
- Ratchet stop
- Setting rings are included (except 200-300mm)



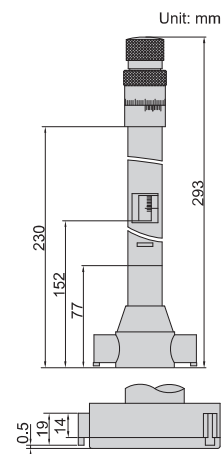
Code	Range	Accuracy	Setting ring
3228-70 *	50-70mm	5μm	Ø50mm (included)
3228-100 *	70-100mm	5μm	Ø70mm (included)
3228-150 *	100-150mm	6μm	Ø100mm (included)
3228-250 *	150-250mm	8μm	Ø150mm (included)
3228-300 *	200-300mm	9μm	Ø200mm (optional)



setting ring



3228-70



*Supplied with manufacturer inspection certificate

6

DIGITAL WIDE RANGE THREE POINTS INTERNAL MICROMETERS



- Meet DIN863-4
- Resolution 0.001mm/0.00005" (resolution of 3128-300 is 0.001mm/0.0001")
- IP54 dust/waterproof
- Buttons: on/off, set, mm/inch, ABS/INC
- Data output
- LR44 battery, automatic power off
- Carbide measuring faces
- Ratchet stop
- Supplied with extension rods
- Setting rings are included (except 200-300mm)
- Optional accessory: data output cable (code 7315-30, 7302-30)



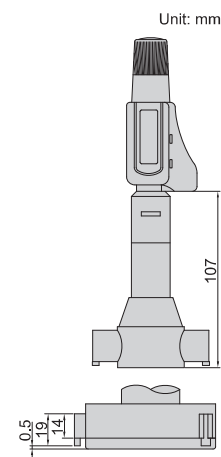
setting ring



extension rod (included)



3128-70



Code	Range	Accuracy	Setting ring	Extension rod (included)
3128-70 *	50-70mm/1.97-2.76"	5μm	Ø50mm (included)	150mm
3128-100 *	70-100mm/2.76-3.94"	5μm	Ø70mm (included)	150mm
3128-150 *	100-150mm/3.94-5.91"	6μm	Ø100mm (included)	150mm
3128-250 *	150-250mm/5.91-9.84"	8μm	Ø150mm (included)	150mm
3128-300 *	200-300mm/7.87-11.81"	9μm	Ø200mm (optional)	150mm

*Supplied with manufacturer inspection certificate

INSIDE MICROMETERS (ECONOMIC TYPE)

ATTENTION: LOW PARALLELISM OF TWO MEASURING FACES

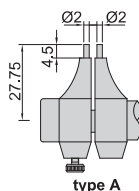
micrometer stand with clamp (optional)



- Graduation 0.01mm
- Ratchet stop
- Carbide measuring faces
- Optional accessory: setting ring (code 6312), micrometer stand and clamp (code 6301 and 6301-1)

Code	Range	Type	Setting ring	Accuracy
3220-30	5-30mm	A	5mm (included)	7μm
3220-50	25-50mm	B	25mm (included)	8μm
3220-75	50-75mm	B	50mm (optional)	9μm
3220-100	75-100mm	C	75mm (optional)	10μm

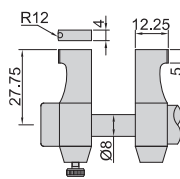
Unit: mm



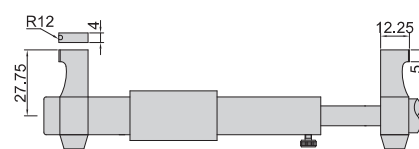
type A



3220-50



type B



type C

DATA
OUTPUT

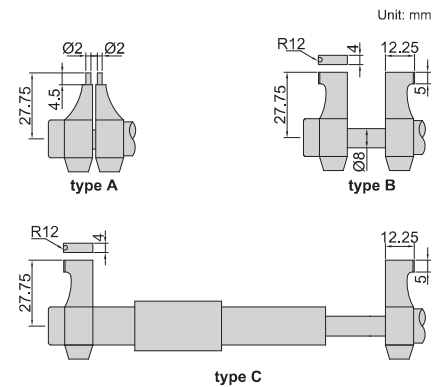
ATTENTION: LOW PARALLELISM
OF TWO MEASURING FACES

DIGITAL INSIDE MICROMETERS (ECONOMIC TYPE)

- Resolution 0.001mm/0.00005"
- Button function: on/off, set, mm/inch, ABS/INC
- Data output
- LR44 battery, automatic power off
- Ratchet stop
- Carbide measuring faces
- Optional accessory: data output cable (code 7315-30, 7302-30), setting ring (code 6312)



3520-30



Code	Range	Type	Setting ring	Accuracy
3520-30	5-30mm/0.2-1.2"	A	5mm (included)	±5µm
3520-50	25-50mm/1-2"	B	25mm (included)	±6µm
3520-75	50-75mm/2-3"	B	50mm (optional)	±7µm
3520-100	75-100mm/3-4"	C	75mm (optional)	±8µm

IP65
WATERPROOF

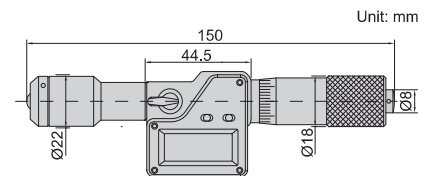
DATA
OUTPUT

DIGITAL TUBULAR INSIDE MICROMETERS



3521-1000

- Micrometer head: 150-175mm
- Graduation: 0.001mm/0.00005"
- Accuracy: $(3+n+L/50)\mu\text{m}$
n= number of rods
L=maximum measuring length (mm)
- Carbide measuring faces
- The diameter of extension rods is 22mm
- IP65 dust/waterproof
- Button function: on/off, set, mm/inch, ABS/INC
- Data output
- LR44 battery, automatic power off
- Supplied with setting standards
- Optional accessory: data output cable (code 7315-30, 7302-30)



Code	Range	Travel of micrometer head	Extension rods
3521-175	150-175mm	25mm	—
3521-1000	150-1000mm	25mm	25mm, 50mm (2 pcs), 100mm, 200mm, 400mm
3521-1500	150-1500mm	25mm	25mm, 50mm (2 pcs), 100mm (2 pcs), 200mm, 400mm (2 pcs)
3521-2000	150-2000mm	25mm	25mm, 50mm (2 pcs), 100mm, 200mm (2 pcs), 400mm (3 pcs)

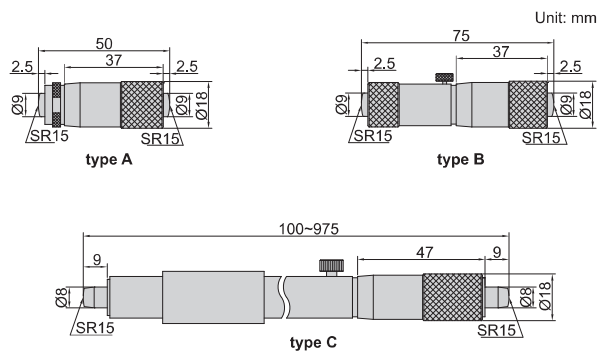
TUBULAR INSIDE MICROMETERS

- Micrometers up to 500mm meet DIN863-4
- Graduation 0.01mm
- Carbide measuring faces
- Optional accessory: gage block accessory (code **6881**), cylinder gage block (code **4001**), caliper/height gage checker (code **6884**)



3229-225

Code	Range	Type	Accuracy
3229-75	50-75mm	A	5µm
3229-100	75-100mm	B	5µm
3229-125	100-125mm	C	6µm
3229-150	125-150mm	C	6µm
3229-175	150-175mm	C	7µm
3229-200	175-200mm	C	7µm
3229-225	200-225mm	C	8µm
3229-250	225-250mm	C	8µm
3229-275	250-275mm	C	9µm
3229-300	275-300mm	C	9µm
3229-325	300-325mm	C	9µm
3229-350	325-350mm	C	9µm
3229-375	350-375mm	C	10µm
3229-400	375-400mm	C	10µm
3229-425	400-425mm	C	10µm
3229-450	425-450mm	C	10µm
3229-475	450-475mm	C	11µm
3229-500	475-500mm	C	11µm
3229-525	500-525mm	C	11µm
3229-550	525-550mm	C	11µm
3229-575	550-575mm	C	11µm
3229-600	575-600mm	C	12µm
3229-625	600-625mm	C	12µm
3229-650	625-650mm	C	12µm
3229-675	650-675mm	C	13µm
3229-700	675-700mm	C	13µm



Code	Range	Type	Accuracy
3229-725	700-725mm	C	13µm
3229-750	725-750mm	C	14µm
3229-775	750-775mm	C	14µm
3229-800	775-800mm	C	14µm
3229-825	800-825mm	C	15µm
3229-850	825-850mm	C	15µm
3229-875	850-875mm	C	15µm
3229-900	875-900mm	C	16µm
3229-925	900-925mm	C	16µm
3229-950	925-950mm	C	16µm
3229-975	950-975mm	C	17µm
3229-1000	975-1000mm	C	17µm

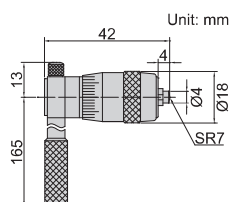
TUBULAR INSIDE MICROMETERS

- Graduation 0.01mm
- Accuracy: (6+L/50)µm
L=maximum measuring length (mm)
- Optional accessory: setting ring (code **6312**), gage block accessory (code **6881**), cylinder gage block (code **4001**), caliper/height gage checker (code **6884**)



3221-200

Code	Range	Travel of micrometer head	Extension rods
3221-32	25-32mm	7mm	—
3221-50	25-50mm	7mm	2 pcs
3221-63	50-63mm	13mm	—
3221-200	50-200mm	13mm	6 pcs
3221-300	50-300mm	13mm	10 pcs
3221-225	200-225mm	25mm	—
3221-500	200-500mm	25mm	3 pcs
3221-1000	200-1000mm	25mm	8 pcs

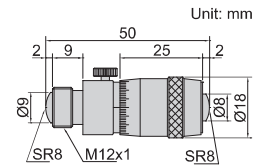


application



TUBULAR INSIDE MICROMETERS

- Micrometer head: 50-63mm
- Graduation 0.01mm
- Accuracy: $(3+n+L/50)\mu\text{m}$
n=number of rods
L=maximum measuring length (mm)
- Supplied with setting standards
- Carbide measuring faces

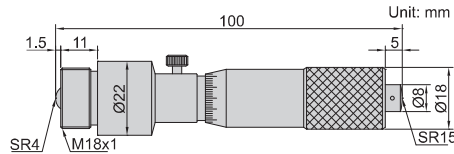


3222-150

Code	Range	Travel of micrometer head	Extension rods
3222-63	50-63mm	13mm	—
3222-150	50-150mm	13mm	13mm, 25mm, 50mm
3222-300	50-300mm	13mm	13mm, 25mm, 50mm (2 pcs), 100mm
3222-500	50-500mm	13mm	13mm, 25mm, 50mm (2 pcs), 100mm, 200mm
3222-600	50-600mm	13mm	13mm, 25mm, 50mm, 100mm, 150mm, 200mm
3222-1000	50-1000mm	13mm	13mm, 25mm, 50mm (2 pcs), 100mm, 200mm (2 pcs), 300mm
3222-1500	50-1500mm	13mm	13mm, 25mm, 50mm (2 pcs), 100mm, 200mm (3 pcs), 300mm (2 pcs)

TUBULAR INSIDE MICROMETERS

- Micrometer head: 100-125mm
- Graduation 0.01mm
- Accuracy: $(3+n+L/50)\mu\text{m}$
n=number of rods
L=maximum measuring length (mm)
- Travel of micrometer head 25mm
- Supplied with setting standards
- Carbide measuring faces



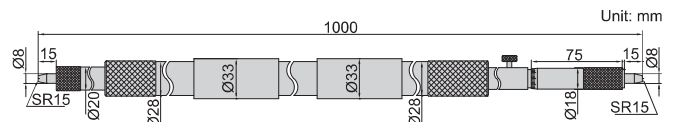
3225-500

Code	Range	Extension rods
3225-125	100-125mm	—
3225-500	100-500mm	25mm, 50mm, 100mm, 200mm
3225-900	100-900mm	25mm, 50mm, 100mm, 200mm, 400mm
3225-1300	100-1300mm	25mm, 50mm, 100mm, 200mm, 400mm (2 pcs)
3225-1700	100-1700mm	25mm, 50mm, 100mm, 200mm, 400mm (3 pcs)
3225-2100	100-2100mm	25mm, 50mm, 100mm, 200mm, 400mm (4 pcs)

TUBULAR INSIDE MICROMETERS



3224-2000



Code	Range	Extension rods
3224-2000	1000-2000mm	50mm, 100mm (2 pcs), 200mm, 500mm
3224-3000	1000-3000mm	50mm, 100mm (2 pcs), 200mm, 500mm, 1000mm
3224-4000	1000-4000mm	50mm, 100mm (2 pcs), 200mm, 500mm, 1000mm (2 pcs)
3224-5000	1000-5000mm	50mm, 100mm (2 pcs), 200mm, 500mm, 1000mm (3 pcs)

- Micrometer head: 1000-1050mm
- Graduation 0.01mm
- Accuracy: $(7+n+L/50)\mu\text{m}$
n=number of rods
L=maximum measuring length (mm)
- Travel of micrometer head 50mm
- Carbide measuring faces

DIGITAL NON-ROTATING SPINDLE TUBULAR INSIDE MICROMETERS

INSIZE PLUS
MADE IN EUROPE

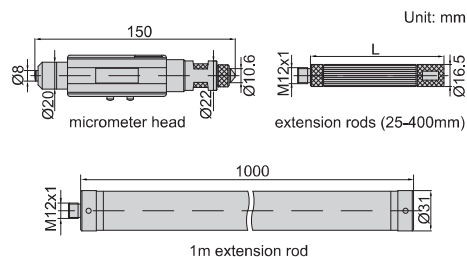
DATA
OUTPUT

SPRING LOADED
MEASURING POINT

NON-ROTATING
SPINDLE

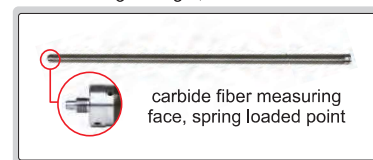


3635-950

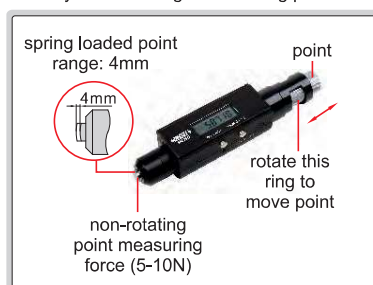


- Carbide measuring faces for micrometer head and extension rods
- Points of extension rods are spring loaded
- Data output
- Button function: mm/inch, max./min. value tracking, tolerance measurement, hold, on/off, zero
- CR2032 battery, automatic power off
- Optional accessory: gage block accessory (code **6881**), cylinder gage block (code **4001**), caliper/height gage checker (code **6884**)

1m carbon fiber extension rod,
light weight, no deform



non-rotating spindle, spring loaded point and max./min. value tracking make it easy to find the right measuring position



Extension rods

Length (L)	Accuracy	Weight	Material
25mm	±1.25µm	37g	steel
50mm	±1.25µm	65g	steel
100mm	±2µm	113g	steel
200mm	±3.5µm	208g	steel
400mm	±4.5µm	402g	steel
1000mm	±7.5µm	909g	carbon fiber

Micrometer head

Range	Resolution	Accuracy	Repeatability	Measuring force	Weight
150-175mm	0.001mm/0.00005" 0.01mm/0.0005" (switchable)	±4µm	1µm	5-10N	275g

Code	Range	Extension rods
3635-350	150-350mm	25mm, 50mm, 100mm
3635-550	150-550mm	25mm, 50mm, 100mm, 200mm
3635-950	150-950mm	25mm, 50mm, 100mm, 200mm, 400mm
3635-1550	150-1550mm	25mm, 50mm, 100mm, 200mm (2 pcs), 400mm (2 pcs)
3635-2150	150-2150mm	25mm, 50mm, 100mm, 200mm, 400mm (4 pcs)
3635-3150	150-3150mm	25mm, 50mm, 100mm, 200mm (2 pcs), 400mm, 1000mm (2 pcs)
3635-4150	150-4150mm	25mm, 50mm, 100mm, 200mm (2 pcs), 400mm, 1000mm (3 pcs)
3635-5150	150-5150mm	25mm, 50mm, 100mm, 200mm (2 pcs), 400mm, 1000mm (4 pcs)
3635-6150	150-6150mm	25mm, 50mm, 100mm, 200mm (2 pcs), 400mm, 1000mm (5 pcs)

TUBULAR INSIDE MICROMETERS

INSIZE PLUS
MADE IN EUROPE

- Carbide measuring faces for micrometer head and extension rods
- Points of extension rods are spring loaded
- Optional accessory: gage block accessory (code **6881**), cylinder gage block (code **4001**), caliper/height gage checker (code **6884**)



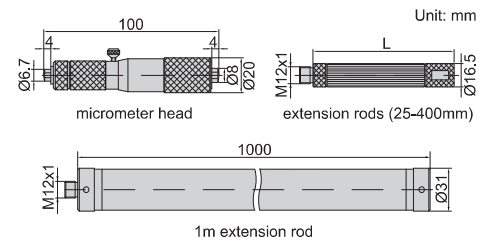
3634-1300

Micrometer head

Range	Graduation	Accuracy	Weight
100-125mm	0.01mm	±4µm	154g

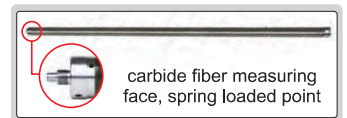
Extension rods

Length (L)	Accuracy	Weight	Material
25mm	±1.25µm	37g	steel
50mm	±1.25µm	65g	steel
100mm	±2µm	113g	steel
200mm	±3.5µm	208g	steel
400mm	±4.5µm	402g	steel
1000mm	±7.5µm	909g	carbon fiber



Code	Range	Extension rods
3634-350	100-350mm	25mm, 200mm
3634-500	100-500mm	25mm, 50mm, 100mm, 200mm
3634-1300	100-1300mm	25mm, 50mm, 100mm, 200mm, 400mm (2 pcs)
3634-1500	100-1500mm	25mm, 50mm, 100mm, 200mm (2 pcs), 400mm (2 pcs)
3634-2100	100-2100mm	25mm, 50mm, 100mm, 200mm, 400mm (4 pcs)
3634-3100	100-3100mm	25mm, 50mm, 100mm, 200mm (2 pcs), 400mm, 1000mm (2 pcs)
3634-4100	100-4100mm	25mm, 50mm, 100mm, 200mm (2 pcs), 400mm, 1000mm (3 pcs)
3634-5100	100-5100mm	25mm, 50mm, 100mm, 200mm (2 pcs), 400mm, 1000mm (4 pcs)
3634-6100	100-6100mm	25mm, 50mm, 100mm, 200mm (2 pcs), 400mm, 1000mm (5 pcs)

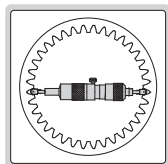
1m carbon fiber extension rod, light weight, no deform



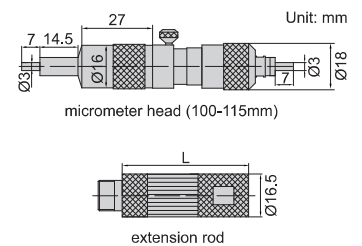
RELATIVE PRODUCT:
GEAR BORE GAGE (CODE 2428)

INTERNAL GEAR TOOTH MICROMETERS

INSIZE PLUS
MADE IN EUROPE



3638-200



- Measure over-pin diameter of gears
- Points of extension rods are spring loaded
- Optional accessory: ball tips (code **7383**)

Micrometer head

Range	Graduation	Accuracy
100-115mm	0.01mm	±4µm
150-175mm	0.01mm	±4µm

Extension rod

Length (L)	Accuracy
15mm	±1µm
25mm	±1.25µm
30mm	±1.25µm
50mm	±1.25µm
100mm	±2µm
200mm	±3.5µm
400mm	±4.5µm

Code	Range	Micrometer head	Extension rod (L)
3638-200	100-205mm	100-115mm	15mm, 25mm, 50mm
3638-500	100-505mm	100-115mm	15mm, 25mm, 50mm, 100mm, 200mm
3638-900	100-905mm	100-115mm	15mm, 25mm, 50mm, 100mm, 200mm, 400mm
3638-1100	150-1150mm	150-175mm	25mm, 50mm, 100mm, 200mm, 200mm, 400mm

BALL TIPS FOR GEAR TOOTH MICROMETERS

INSIZE PLUS
MADE IN EUROPE

- Supplied in pair
- Made of hardened special steel
- Suitable for 3638 series micrometers



7383-8

6

Code	Ball dia. (D)	Accuracy of D	d
7383-1	SØ1mm	±1µm	Ø3mm
7383-2	SØ2mm	±1µm	Ø3mm
7383-3	SØ3mm	±1µm	Ø3mm
7383-4	SØ4mm	±1µm	Ø3mm
7383-5	SØ5mm	±1µm	Ø3mm
7383-6	SØ6mm	±1µm	Ø3mm
7383-7	SØ7mm	±1µm	Ø3mm
7383-8	SØ8mm	±1µm	Ø3mm

Code	Ball dia. (D)	Accuracy of D	d
7383-9	SØ9mm	±1µm	Ø3mm
7383-10	SØ10mm	±1µm	Ø3mm
7383-11	SØ11mm	±1µm	Ø3mm
7383-12	SØ12mm	±1µm	Ø3mm
7383-13	SØ13mm	±1µm	Ø3mm
7383-14	SØ14mm	±1µm	Ø3mm
7383-15	SØ15mm	±1µm	Ø3mm
7383-16	SØ16mm	±1µm	Ø3mm

INTERNAL SCREW THREAD MICROMETERS

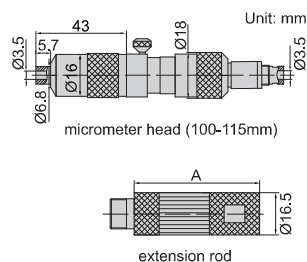
INSIZE PLUS
MADE IN EUROPE



tips are optional

tips are optional

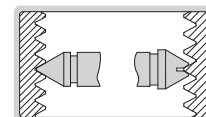
3641-200



Unit: mm

micrometer head (100-115mm)

extension rod



- Measure pitch diameter of screw thread
- Points of extension rods are spring loaded
- Optional accessory: measuring tips for internal screw thread micrometer (code 7385, L=13.5mm)

Micrometer head

Range	Graduation	Accuracy
100-115mm	0.01mm	±4µm
150-175mm	0.01mm	±4µm

Extension rod

Length (A)	Accuracy
15mm	±1µm
25mm	±1.25µm
50mm	±1.25µm
100mm	±2µm
200mm	±3.5µm
400mm	±4.5µm

Code	Range	Micrometer head	Extension rod (A)	Applicable tips
3641-200	100-205mm	100-115mm	15mm, 25mm, 50mm	stem length L=13.5mm
3641-500	100-505mm	100-115mm	15mm, 25mm, 50mm, 100mm, 200mm	stem length L=13.5mm
3641-900	100-905mm	100-115mm	15mm, 25mm, 50mm, 100mm, 200mm, 400mm	stem length L=13.5mm
3641-1100	150-1150mm	150-175mm	25mm, 50mm, 100mm, 200mm, 200mm, 400mm	stem length L=13.5mm

TIPS FOR TRAPEZOIDAL, ACME
THREAD ARE ALSO AVAILABLE

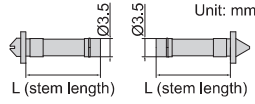
MEASURING TIPS FOR INTERNAL SCREW THREAD MICROMETERS

INSIZE PLUS
MADE IN EUROPE

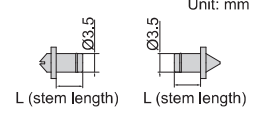
- Supplied in pair
- Made of hardened steel
- Suitable for 3641 series micrometers



7385-T106A



7385-T106B



60° thread angle

Code		Applicable pitch (mm)
L=13.5mm	L=5mm	
7385-T101A	7385-T101B	0.35
7385-T102A	7385-T102B	0.4/0.45
7385-T103A	7385-T103B	0.5/0.6
7385-T104A	7385-T104B	0.7/0.75/0.8
7385-T105A	7385-T105B	1/1.25
7385-T106A	7385-T106B	1.5/1.75
7385-T107A	7385-T107B	2.0/2.5
7385-T108A	7385-T108B	3.0/3.5
7385-T109A	7385-T109B	4.0/4.5/5.0
7385-T110A	7385-T110B	5.5/6.0

55° thread angle

Code		Applicable pitch (TPI)
L=13.5mm	L=5mm	
7385-T201A	7385-T201B	60/48
7385-T202A	7385-T202B	40/32
7385-T203A	7385-T203B	28/26/24/22
7385-T204A	7385-T204B	20/19/18/16
7385-T205A	7385-T205B	14/12/11
7385-T206A	7385-T206B	10/9/8
7385-T207A	7385-T207B	7/6
7385-T208A	7385-T208B	5/4.5/4
7385-T209A	7385-T209B	3.5/3.25/3/2.875/2.75
7385-T210A	7385-T210B	2.625/2.5/2

INTERNAL SCREW THREAD MICROMETERS

- Graduation: 0,01mm
- Optional accessory: measuring tips for internal screw thread micrometer (code 7321)



measuring tips for screw thread (optional)

measuring tips for screw thread (optional)

3226-1001

measuring tips for internal screw thread micrometer (optional)



Code	Range
3226-1001	75-100mm
3226-1251	100-125mm
3226-1501	125-150mm
3226-1751	150-175mm
3226-2001	175-200mm

Code	Range
3226-2251	200-225mm
3226-2501	225-250mm
3226-2751	250-275mm
3226-3001	275-300mm

MEASURING TIPS FOR INTERNAL SCREW THREAD MICROMETERS

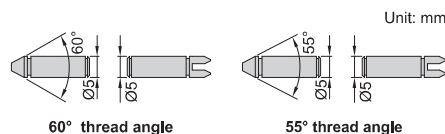
- Supplied in pair
- Suitable for 3226 series micrometers

Metric and unified screw (60° thread angle)

Code	Pitch
7321-T11	0.4-0.5mm/64-48TPI
7321-T12	0.6-0.9mm/44-28TPI
7321-T13	1-1.75mm/24-14TPI
7321-T14	2-3mm/13-9TPI
7321-T15	3.5-5mm/8-5TPI
7321-T16	5.5-7mm/4.5-3.5TPI
7321-T1S	6 pairs/set, including all above tips



7321-T1S



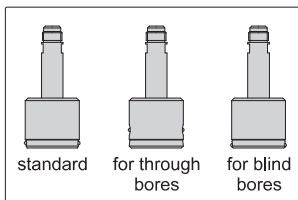
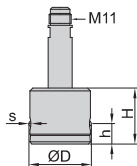
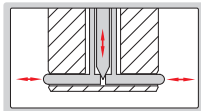
Whitworth screw (55° thread angle)

Code	Pitch
7321-T21	60-48TPI
7321-T22	48-40TPI
7321-T23	40-32TPI
7321-T24	32-24TPI
7321-T25	24-18TPI
7321-T26	18-14TPI
7321-T27	14-10TPI
7321-T28	10-7TPI
7321-T29	7-4.5TPI
7321-T210	4.5-3.5TPI
7321-T2S	10 pairs/set, including all above tips

BORE PLUG GAGES

INSIZE PLUS
MADE IN EUROPE

principle of measurement



dial comparator is optional



SPECIFICATION OF PROBE

Range	2-3	3.1-4	4.1-6	6.1-9	9.1-12	12.1-20	20.1-40	40.1-60	60.1-130
Travel of point (s)	0.15	0.15	0.15	0.2	0.2	0.2	0.2	0.2	0.2
Height of point (h)	standard	1	1.5	1.5	2.5	2.5	3.5	3.5	4
	for through bores	—	6	6	6	10	10	10	10
for blind bores	0.7	1	1	1	1	1	1.2	1.2	1.2
Height of probe (H)	17.5	26	10	15	15	15	20	28	33
Repeatability	0.001	0.001	0.001	0.0005	0.0005	0.0005	0.0005	0.0005	0.001

PROBE AND SLEEVE

Code	Type
4653-A□□□□	standard
4653-B□□□□	for through bores
4653-C□□□□	for blind bores

Ordering examples: (mm)

Code	Type	Range
4653-A30D6H7 *	standard	30.6H7

* "D" stands for "."



DEPTH STOP

Code	Applicable for probe
4653-G□□□□	3.0~60mm
4653-J□□□□	30~130mm

Ordering examples: (mm)

Code	Applicable for probe
4653-G22H7	22H7



SETTING RING

Code
6312-□□□□□



HANDLE

Code	Length (L)	Retraction
4653-150	45mm	without
4653-1105	105mm	without
4653-1235	235mm	without
4653-H70	70mm	with



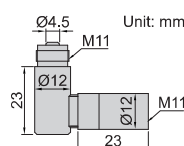
EXTENSION ROD FOR HANDLE

Code	Length (H)
4653-R50	50mm
4653-R100	100mm
4653-R250	250mm
4653-R500	500mm



90° ADAPTER

Code
4653-K1



HANDLE FOR INDUCTIVE PROBE

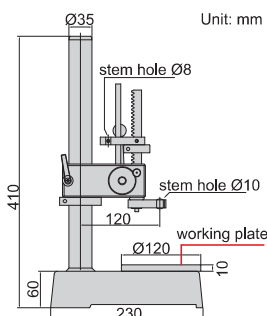
Code
4653-F110



STAND FOR SPLIT DIAL BORE GAGES

- For split type dial bore gages 2421, 2426, 2427 and 2429
- Maximum working stroke: 90mm
- Accept dial indicator to show measuring depth

Code
2491-250



2491-250



accept dial indicator to show measuring depth

SPLIT TYPE DIAL BORE GAGES

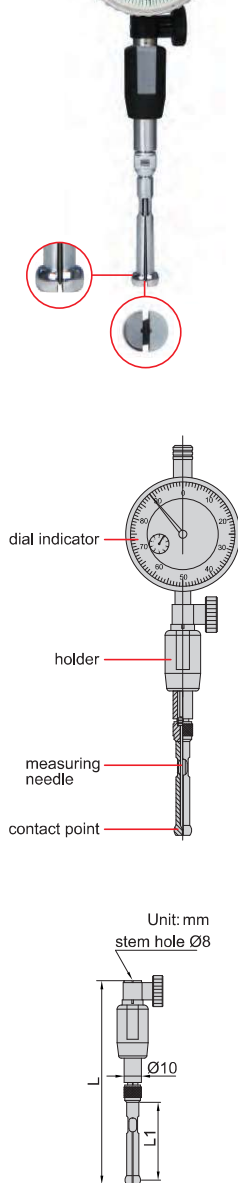
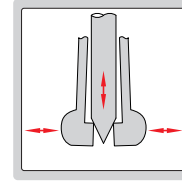
INSIZE PLUS
MADE IN EUROPE

dial indicator
is optional



- Split type contact points
- Accuracy (without indicator):
3µm (measuring range 0.95~10mm),
4µm (measuring range 10~20.6mm)
- Repeatability (without indicator): 1µm
- Optional accessory:
digital/dial indicators or dial comparator

principle of measurement



Code	Contact point				Measuring needle	Setting ring	
	Measuring range	Measuring depth (L1)	Total length (L)	Material of points		Code	Diameter
2426-1	0.95-1.15	13	89	carbide	2426-N1D4	2421-R1	1
2426-1D1	1.07-1.25	13	89	carbide		2421-R1D1	1.1
2426-1D2	1.17-1.35	13	89	carbide		2421-R1D2	1.2
2426-1D3	1.27-1.45	13	89	carbide		2421-R1D3	1.3
2426-1D4	1.37-1.55	13	89	carbide		2421-R1D4	1.4
2426-1D75	1.5-1.9	17	93	carbide	2426-N2D25	2421-R1D75	1.75
2426-2	1.8-2.2	17	93	carbide		2421-R2	2
2426-2D25	2.05-2.45	17	93	carbide	2426-N4	2421-R2D25	2.25
2426-2D5	2.3-2.7	25	101	carbide		2421-R2D5	2.5
2426-2D75	2.55-2.95	25	101	carbide		2421-R2D75	2.75
2426-3	2.8-3.2	25	101	carbide		2421-R3	3
2426-3D25	3.05-3.45	25	101	carbide		2421-R3D25	3.25
2426-3D5	3.3-3.7	25	101	carbide	2426-N9	2421-R3D5	3.5
2426-3D75	3.55-3.95	25	101	carbide		2421-R3D75	3.75
2426-4	3.8-4.2	25	101	carbide		2421-R4	4
2426-4D5	4.15-4.8	41	118	hard chromed		2421-R4D5	4.5
2426-5	4.7-5.3	41	118	hard chromed		2421-R5	5
2426-5D5	5.2-5.8	41	118	hard chromed	2426-N20	2421-R5D5	5.5
2426-6	5.7-6.3	41	118	hard chromed		2421-R6	6
2426-6D5	6.2-6.8	41	118	hard chromed		2421-R6D5	6.5
2426-7	6.7-7.3	41	118	hard chromed		2421-R7	7
2426-7D5	7.2-7.8	45	118	hard chromed		2421-R7D5	7.5
2426-8	7.7-8.3	45	118	hard chromed	2426-N20	2421-R8	8
2426-8D5	8.2-8.8	45	118	hard chromed		2421-R8D5	8.5
2426-9	8.7-9.3	45	118	hard chromed		2421-R9	9
2426-10	9.2-10.5	45	118	hard chromed		2421-R10	10
2426-11	10.2-11.5	45	118	hard chromed		2421-R11	11
2426-12	11.2-12.5	45	118	hard chromed	2426-N20	2421-R12	12
2426-13	12.2-13.5	45	118	hard chromed		2421-R13	13
2426-14	13.4-14.6	45	118	hard chromed		2421-R14	14
2426-15	14.4-15.6	45	118	hard chromed		2421-R15	15
2426-16	15.4-16.6	45	118	hard chromed		2421-R16	16
2426-17	16.4-17.6	45	118	hard chromed	2426-N20	2421-R17	17
2426-18	17.4-18.6	45	118	hard chromed		2421-R18	18
2426-19	18.4-19.6	45	118	hard chromed		2421-R19	19
2426-20	19.4-20.6	45	118	hard chromed		2421-R20	20



2426-HOLDER1



2426-HOLDER2

HOLDER

Code	Retraction	Applicable points
2426-HOLDER1	without	all
2426-HOLDER2	with	all

SPLIT TYPE DIAL BORE GAGE SETS

INSIZE PLUS
MADE IN EUROPE

- Split type contact points
- Accuracy (without indicator):
3µm (measuring range 0.95~10mm),
4µm (measuring range 10~20.6mm)
- Repeatability (without indicator): 1µm
- Setting rings and dial indicators are optional

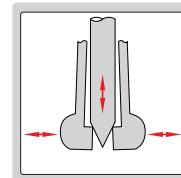


2421-121

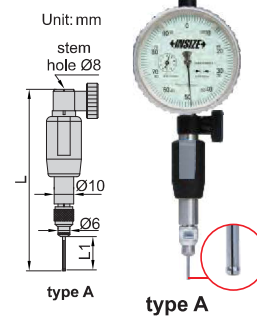
(mm)

Code	Range	Quantity of points	Measuring range of point	Measuring depth (L1)	Total length (L)	Material of points	Type of point	Setting ring (optional)	
								Code	Diameter
2421-1D4	0.95-1.55	5	0.95-1.15	13	89	carbide	A	2421-R1	1
			1.07-1.25	13	89	carbide	A	2421-R1D1	1.1
			1.17-1.35	13	89	carbide	A	2421-R1D2	1.2
			1.27-1.45	13	89	carbide	A	2421-R1D3	1.3
			1.37-1.55	13	89	carbide	A	2421-R1D4	1.4
2421-4	1.5-4.2	10	1.5-1.9	17	93	carbide	A	2421-R1D75	1.75
			1.8-2.2	17	93	carbide	A	2421-R2	2
			2.05-2.45	17	93	carbide	A	2421-R2D25	2.25
			2.3-2.7	25	101	carbide	A	2421-R2D5	2.5
			2.55-2.95	25	101	carbide	A	2421-R2D75	2.75
			2.8-3.2	25	101	carbide	A	2421-R3	3
			3.05-3.45	25	101	carbide	A	2421-R3D25	3.25
			3.3-3.7	25	101	carbide	A	2421-R3D5	3.5
			3.55-3.95	25	101	carbide	A	2421-R3D75	3.75
			3.8-4.2	25	101	carbide	A	2421-R4	4
2421-7D5	4.15-7.8	7	4.15-4.8	41	118	hard chromed	B	2421-R4D5	4.5
			4.7-5.3	41	118	hard chromed	B	2421-R5	5
			5.2-5.8	41	118	hard chromed	B	2421-R5D5	5.5
			5.7-6.3	41	118	hard chromed	B	2421-R6	6
			6.2-6.8	41	118	hard chromed	B	2421-R6D5	6.5
			6.7-7.3	41	118	hard chromed	B	2421-R7	7
			7.2-7.8	45	118	hard chromed	C	2421-R7D5	7.5
2421-12	7.7-12.5	6	7.7-8.3	45	118	hard chromed	C	2421-R8	8
			8.2-8.8	45	118	hard chromed	C	2421-R8D5	8.5
			8.7-9.3	45	118	hard chromed	C	2421-R9	9
			9.2-10.5	45	118	hard chromed	C	2421-R10	10
			10.2-11.5	45	118	hard chromed	C	2421-R11	11
			11.2-12.5	45	118	hard chromed	C	2421-R12	12
2421-20	12.2-20.6	8	12.2-13.5	45	118	hard chromed	C	2421-R13	13
			13.4-14.6	45	118	hard chromed	C	2421-R14	14
			14.4-15.6	45	118	hard chromed	C	2421-R15	15
			15.4-16.6	45	118	hard chromed	C	2421-R16	16
			16.4-17.6	45	118	hard chromed	C	2421-R17	17
			17.4-18.6	45	118	hard chromed	C	2421-R18	18
			18.4-19.6	45	118	hard chromed	C	2421-R19	19
			19.4-20.6	45	118	hard chromed	C	2421-R20	20
2421-121	4.15-12.5	13	4.15-4.8	41	118	hard chromed	B	2421-R4D5	4.5
			4.7-5.3	41	118	hard chromed	B	2421-R5	5
			5.2-5.8	41	118	hard chromed	B	2421-R5D5	5.5
			5.7-6.3	41	118	hard chromed	B	2421-R6	6
			6.2-6.8	41	118	hard chromed	B	2421-R6D5	6.5
			6.7-7.3	41	118	hard chromed	B	2421-R7	7
			7.2-7.8	45	118	hard chromed	C	2421-R7D5	7.5
			7.7-8.3	45	118	hard chromed	C	2421-R8	8
			8.2-8.8	45	118	hard chromed	C	2421-R8D5	8.5
			8.7-9.3	45	118	hard chromed	C	2421-R9	9
			9.2-10.5	45	118	hard chromed	C	2421-R10	10
			10.2-11.5	45	118	hard chromed	C	2421-R11	11
11.2-12.5	45	118	hard chromed	C	2421-R12	12			

principle of measurement

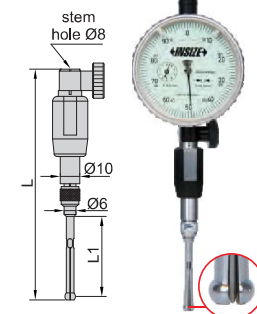


dial indicator is optional



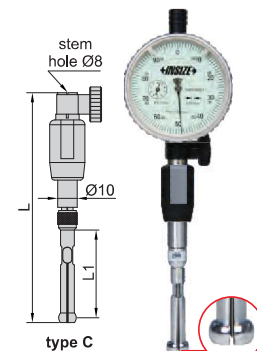
type A

dial indicator is optional



type B

dial indicator is optional



type C

type C

SPLIT TYPE DIAL BORE GAGES FOR BLIND HOLES

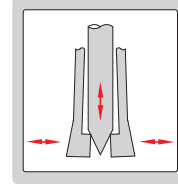
INSIZE PLUS
MADE IN EUROPE

dial indicator
is optional



- Split type contact points
- Accuracy (without indicator):
3µm (measuring range 1.5~10mm),
4µm (measuring range 10~20.6mm)
- Repeatability (without indicator): 1µm
- Optional accessory:
digital/dial indicators or dial comparator

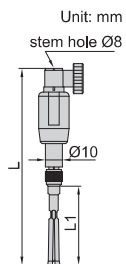
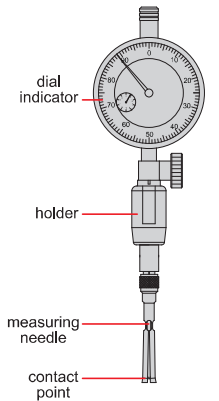
principle of measurement



6

(mm)

Code	Contact point				Material of points	Measuring needle		Setting ring	
	Measuring range	Measuring depth (L1)	Total length (L)			Code	Code	Diameter	
2427-1D75	1.5-1.9	17	93		carbide	2426-N2D25	2421-R1D75	1.75	
2427-2	1.8-2.2	17	93		carbide		2421-R2	2	
2427-2D25	2.05-2.45	17	93		carbide		2421-R2D25	2.25	
2427-2D5	2.3-2.7	25	101		carbide	2426-N4	2421-R2D5	2.5	
2427-2D75	2.55-2.95	25	101		carbide		2421-R2D75	2.75	
2427-3	2.8-3.2	25	101		carbide		2421-R3	3	
2427-3D25	3.05-3.45	25	101		carbide		2421-R3D25	3.25	
2427-3D5	3.3-3.7	25	101		carbide		2421-R3D5	3.5	
2427-3D75	3.55-3.95	25	101		carbide		2421-R3D75	3.75	
2427-4	3.8-4.2	25	101		carbide		2421-R4	4	
2427-4D5	4.15-4.8	41	118		hard chromed	2427-N9	2421-R4D5	4.5	
2427-5	4.7-5.3	41	118		hard chromed		2421-R5	5	
2427-5D5	5.2-5.8	41	118		hard chromed		2421-R5D5	5.5	
2427-6	5.7-6.3	41	118		hard chromed		2421-R6	6	
2427-6D5	6.2-6.8	41	118		hard chromed		2421-R6D5	6.5	
2427-7	6.7-7.3	41	118		hard chromed		2421-R7	7	
2427-7D5	7.2-7.8	45	118		hard chromed		2421-R7D5	7.5	
2427-8	7.7-8.3	45	118		hard chromed		2421-R8	8	
2427-8D5	8.2-8.8	45	118		hard chromed		2421-R8D5	8.5	
2427-9	8.7-9.3	45	118		hard chromed		2421-R9	9	
2427-10	9.2-10.5	45	118		hard chromed	2427-N20	2421-R10	10	
2427-11	10.2-11.5	45	118		hard chromed		2421-R11	11	
2427-12	11.2-12.5	45	118		hard chromed		2421-R12	12	
2427-13	12.2-13.5	45	118		hard chromed		2421-R13	13	
2427-14	13.4-14.6	45	118		hard chromed		2421-R14	14	
2427-15	14.4-15.6	45	118		hard chromed		2421-R15	15	
2427-16	15.4-16.6	45	118		hard chromed		2421-R16	16	
2427-17	16.4-17.6	45	118		hard chromed		2421-R17	17	
2427-18	17.4-18.6	45	118		hard chromed		2421-R18	18	
2427-19	18.4-19.6	45	118		hard chromed		2421-R19	19	
2427-20	19.4-20.6	45	118		hard chromed	2421-R20	20		



HOLDER

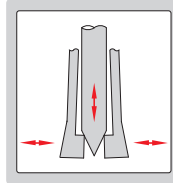
Code	Retraction	Applicable points
2426-HOLDER1	without	all
2426-HOLDER2	with	all

SPLIT TYPE DIAL BORE GAGE SETS FOR BLIND HOLES

INSIZE PLUS
MADE IN EUROPE

- Split type contact points
- Accuracy (without indicator): 3µm (measuring range 1.5~10mm), 4µm (measuring range 10~20.6mm)
- Repeatability (without indicator): 1µm
- Setting rings and dial indicators are optional

principle of measurement



2429-12

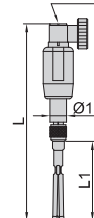
(mm)

Code	Range	Quantity of points	Measuring range of point	Measuring depth (L1)	Total length (L)	Material of points	Setting ring (optional)	
							Code	Diameter
2429-4	1.5-4.2	10	1.5-1.9	17	93	carbide	2421-R1D75	1.75
			1.8-2.2	17	93	carbide	2421-R2	2
			2.05-2.45	17	93	carbide	2421-R2D25	2.25
			2.3-2.7	25	101	carbide	2421-R2D5	2.5
			2.55-2.95	25	101	carbide	2421-R2D75	2.75
			2.8-3.2	25	101	carbide	2421-R3	3
			3.05-3.45	25	101	carbide	2421-R3D25	3.25
			3.3-3.7	25	101	carbide	2421-R3D5	3.5
			3.55-3.95	25	101	carbide	2421-R3D75	3.75
			3.8-4.2	25	101	carbide	2421-R4	4
2429-7D5	4.15-7.8	7	4.15-4.8	41	118	hard chromed	2421-R4D5	4.5
			4.7-5.3	41	118	hard chromed	2421-R5	5
			5.2-5.8	41	118	hard chromed	2421-R5D5	5.5
			5.7-6.3	41	118	hard chromed	2421-R6	6
			6.2-6.8	41	118	hard chromed	2421-R6D5	6.5
			6.7-7.3	41	118	hard chromed	2421-R7	7
			7.2-7.8	45	118	hard chromed	2421-R7D5	7.5
2429-12	7.7-12.5	6	7.7-8.3	45	118	hard chromed	2421-R8	8
			8.2-8.8	45	118	hard chromed	2421-R8D5	8.5
			8.7-9.3	45	118	hard chromed	2421-R9	9
			9.2-10.5	45	118	hard chromed	2421-R10	10
			10.2-11.5	45	118	hard chromed	2421-R11	11
			11.2-12.5	45	118	hard chromed	2421-R12	12
2429-20	12.2-20.6	8	12.2-13.5	45	118	hard chromed	2421-R13	13
			13.4-14.6	45	118	hard chromed	2421-R14	14
			14.4-15.6	45	118	hard chromed	2421-R15	15
			15.4-16.6	45	118	hard chromed	2421-R16	16
			16.4-17.6	45	118	hard chromed	2421-R17	17
			17.4-18.6	45	118	hard chromed	2421-R18	18
			18.4-19.6	45	118	hard chromed	2421-R19	19
			19.4-20.6	45	118	hard chromed	2421-R20	20

dial indicator is optional



Unit: mm
stem hole Ø8



BORE GAGES FOR SMALL HOLES

INSIZE PLUS
MADE IN EUROPE

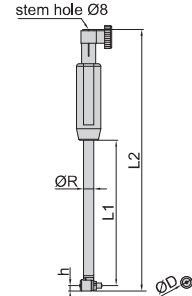
- Applicable for 0.01mm or 0.001mm, graduation dial indicators
- Carbide contact point and anvil
- Optional accessory: dial indicator or dial comparator, setting ring (code 6312)

dial comparator is optional



2425-6

Unit: mm



Code	Range	Accuracy (without dial comparator)	Repeatability (without dial comparator)	L1	L2	ØR	ØD	h
2425-6	4.5-6mm	2µm	0.5µm	80	147	4	4	2
2425-8	6-8mm	2µm	0.5µm	100	165	5	5.2	2.6
2425-12	8-12mm	2µm	0.5µm	100	166	5	6.5	3.25
2425-20	12-20mm	2µm	0.5µm	110	204	8	9	4.5

BORE GAGES

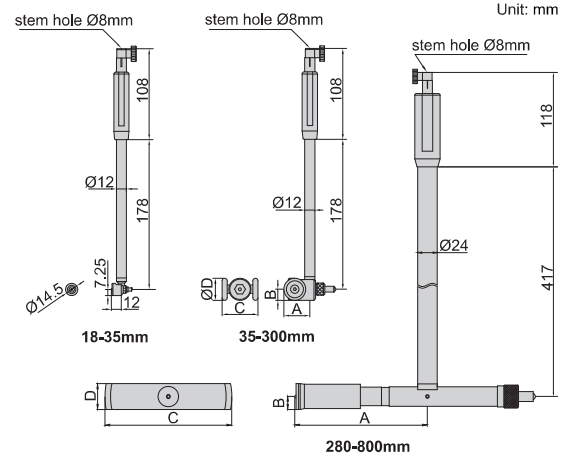
INSIZE PLUS
MADE IN EUROPE

dial comparator is optional



2422-150

- Applicable for 0.01mm or 0.001mm graduation dial indicators
- Optional accessory:
 - Dial indicator or dial comparator
 - Setting ring (code 6312)
 - Long handle (code 7352)
 - Bore gage setter



Code	Range	Accuracy (without dial comparator)	Repeatability (without dial comparator)
2422-35	18-35mm	4µm	2µm
2422-60	35-60mm	4µm	2µm
2422-150	50-150mm	4µm	2µm
2422-300	150-300mm	4µm	2µm
2422-510	280-510mm	3µm	1.5µm
2422-800	400-800mm	3µm	1.5µm

Code	A	B	C	D
2422-60	19.5mm	10.5mm	28mm	21mm
2422-150	30.8mm	13mm	42.5mm	26mm
2422-300	30.8mm	13mm	76.5mm	26mm
2422-510	164mm	16mm	156mm	32mm
2422-800	305mm	18mm	300mm	36mm

BORE GAGE SET

INSIZE PLUS
MADE IN EUROPE

dial comparator is optional



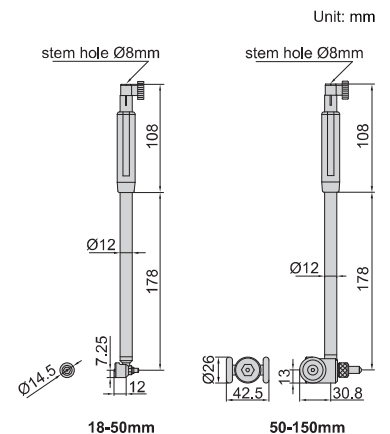
2423-S2

- Includes bore gages 18-50mm and 50-150mm
- Optional accessory:
 - 0.01mm or 0.001mm graduation dial indicator or dial comparator
 - Setting ring (code 6312)
 - Long handle (code 7352)
 - Bore gage setter



18-50mm

50-150mm



Code	Range	Accuracy (without dial comparator)	Repeatability (without dial comparator)
2423-S2	18-150mm	4µm	2µm

GEAR BORE GAGES

INSIZE PLUS
MADE IN EUROPE

RELATIVE PRODUCT: INTERNAL GEAR
TOOTH MICROMETER (CODE 3638)

- Tungsten carbide ball points, diameter accuracy 2µm
- Optional accessory:
 - Dial indicator or dial comparator
 - Ball points
 - Thread adaptor
 - Long handle (code 7352)

Code	Range (E)	Accuracy (without dial comparator)	Repeatability (without dial comparator)	ØR	L1	L2	Thread for ball points
2428-12	8-12mm	2µm	0.5µm	5	100	165	M1.6
2428-22	12-22mm	2µm	0.5µm	5	102	168	M1.6
2428-55	22-55mm	2µm	0.5µm	8	110	204	M2.5
2428-250	55-250mm	2µm	0.5µm	12	177	290	M4
2428-510	100-510mm	2µm	0.5µm	18	235	363	M4

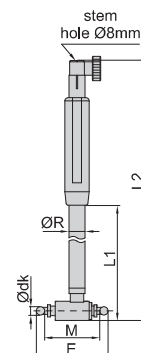
(mm)



dial comparator is optional

2428-55

ball points (optional)



6

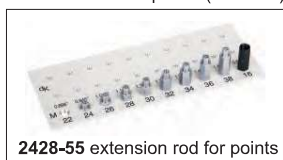
Ball points (optional)

Ball point diameter Ødk	2428-12	2428-22	2428-55	2428-250	2428-510
	point thread M1.6	point thread M1.6	point thread M2.5	point thread M4	point thread M4
	point code	point code	point code	point code	point code
1mm	2428-A1	2428-E1	2428-B1	2428-C1	2428-C1
1.5mm	2428-A1D5	2428-E1D5	2428-B1D5	2428-C1D5	2428-C1D5
2mm	2428-A2	2428-E2	2428-B2	2428-C2	2428-C2
2.5mm	—	2428-E2D5	2428-B2D5	2428-C2D5	2428-C2D5
3mm	—	2428-E3	2428-B3	2428-C3	2428-C3
3.5mm	—	2428-E3D5	2428-B3D5	2428-C3D5	2428-C3D5
4mm	—	2428-E4	2428-B4	2428-C4	2428-C4
4.5mm	—	—	2428-B4D5	2428-C4D5	2428-C4D5
5mm	—	—	2428-B5	2428-C5	2428-C5
5.5mm	—	—	2428-B5D5	2428-C5D5	2428-C5D5
6mm	—	—	2428-B6	2428-C6	2428-C6
6.5mm	—	—	2428-B6D5	2428-C6D5	2428-C6D5
7mm	—	—	2428-B7	2428-C7	2428-C7
7.5mm	—	—	2428-B7D5	2428-C7D5	2428-C7D5
8mm	—	—	2428-B8	2428-C8	2428-C8
8.5mm	—	—	2428-B8D5	2428-C8D5	2428-C8D5
9mm	—	—	2428-B9	2428-C9	2428-C9
9.5mm	—	—	2428-B9D5	2428-C9D5	2428-C9D5
10mm	—	—	2428-B10	2428-C10	2428-C10

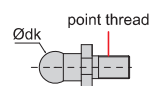
ball points (optional), in pair



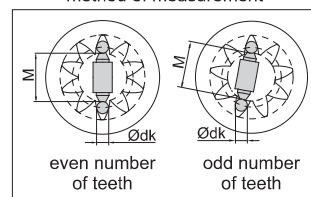
extension rod for points (included)



2428-55 extension rod for points



method of measurement



even number of teeth odd number of teeth

Thread adaptor (optional)

Code	Thread	Remark
2428-D1	M1.6/M2.5	For example, use 2428-E1 with 2428-D1 to replace 2428-B1
2428-D2	M2.5/M4	For example, use 2428-B1 with 2428-D2 to replace 2428-C1

BORE GAGES FOR BLIND HOLES

INSIZE PLUS
MADE IN EUROPE

- To measure diameter of shallow and blind holes
- Optional accessory:
 - 0.01mm or 0.001mm graduation dial indicators
 - Setting ring (code 6312)
 - Long handle (code 7352)
 - Bore gage setter

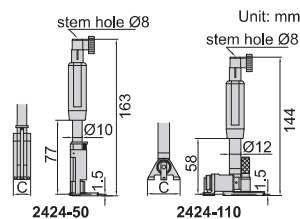


Code	Range	Accuracy (without dial indicator)	Repeatability (without dial indicator)	C
2424-50	20-50mm	4µm	1µm	18mm
2424-110	50-110mm	4µm	1µm	34mm
2424-300	110-300mm	4µm	1µm	81mm
2424-600	300-600mm	4µm	1µm	140mm

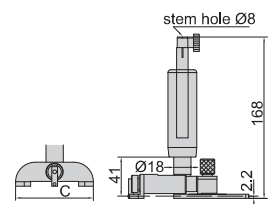
dial indicator is optional



2424-300



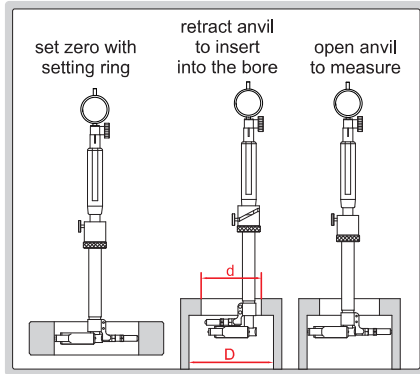
2424-50 2424-110



2424-300 and 2424-600

ROTARY BORE GAGE

INSIZE PLUS
MADE IN EUROPE

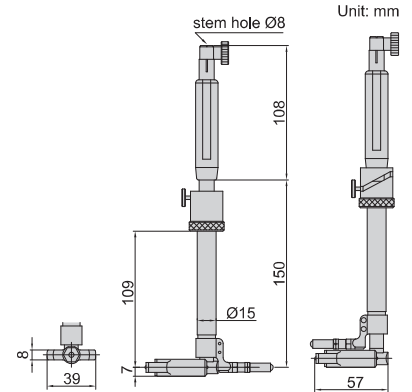


- Rotary anvil, to measure bores with small opening
D: bore diameter to be measured,
d: minimum opening diameter (see right drawing)
d=57mm (D≤95mm)
d=D-38 (D>95mm)
- Optional accessory:
 - 0.01mm or 0.001mm graduation dial indicator or dial comparator
 - Setting ring (code **6312**)

dial indicator is optional



2921-150



Code	Range	Accuracy (without dial indicator)	Repeatability* (without dial indicator)
2921-150	80-150mm	2µm	1µm

* Repeatability includes the error of rotary anvil

MEASURE DIAMETER OF BORES WITH BARRIER INSIDE

ATTENTION: NOT SUITABLE FOR 0.001MM DIAL INDICATORS

BORE GAGES FOR BARRIER INSIDE BORE

INSIZE PLUS
MADE IN EUROPE



application

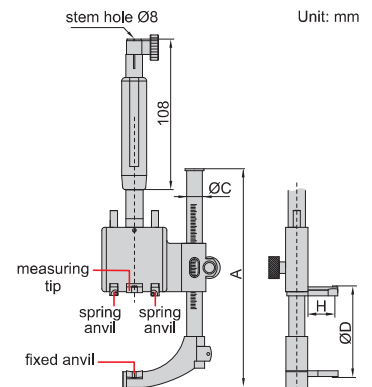


- Measure diameter of bores with barrier inside
- Optional accessory:
 - 0.01mm graduation dial indicators
 - Setting ring (code **6312**)

dial indicator is optional



2432-105



(mm)

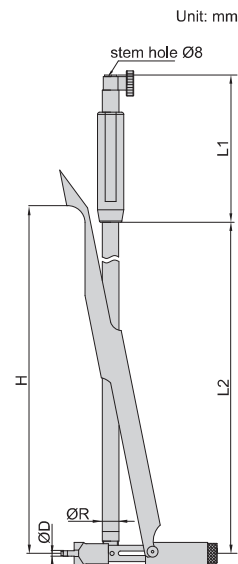
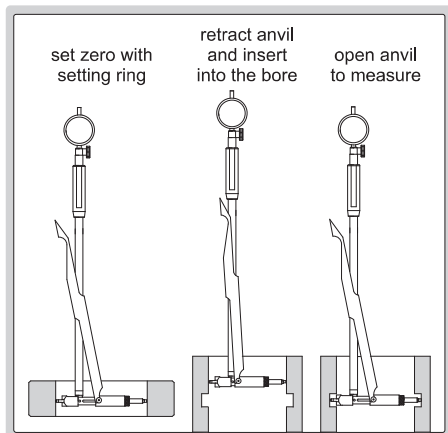
Code	Range ØD	Diameter of barrier Ød	Travel of measuring tip	Measuring depth H	Accuracy (without dial indicator)	Measuring force	A	ØC
2432-70	25-70mm	<D-6 (less than 45mm)*	2.5	12	0.01	1.5N	115	10
2432-105	35-105mm	<D-11 (less than 70mm)*	3.0	18	0.01	2.5N	150	11
2432-210	100-210mm	<D-20 (less than 130mm)*	3.5	30	0.015	2.5N	233	15
2432-280	100-280mm	<D-20 (less than 130mm)*	3.5	30	0.015	2.5N	303	15
2432-500	200-500mm	<D-20 (less than 240mm)*	3.5	30	0.02	2.5N	622	30

* For example, range of **2432-70** is 25-70mm, diameter of barrier is <D-6 (less than 45mm)
When measuring size is 40mm, D-6=34mm, so the maximum diameter of barrier is 34mm.
When measuring size is 60mm, D-6=54mm, however it should be less than 45mm, so the maximum diameter of barrier is 45mm.

INTERNAL GROOVE BORE GAGES

INSIZE PLUS
MADE IN EUROPE

INSPECTION CERTIFICATE
TRACEABLE TO NIST



- Measure diameter of internal grooves (width of groove > 3mm)
- Anvil is needed
- Optional accessory:
 - 0.01mm or 0.001mm graduation dial indicators
 - Setting ring (code 6312)

Code	Range	Retraction of anvil	Measuring depth H	Accuracy (without dial indicator)	Repeatability (without dial indicator)	ØR	ØD	L1	L2
2433-120 *	60-120mm	8,5	120	2µm	1µm	10	3	85	150
2433-180 *	120-180mm	23	230	2µm	1µm	12	4	108	285
2433-300 *	180-300mm	30	280	2µm	1µm	18	4	120	245

* Supplied with manufacturer inspection certificate traceable to NIST USA

ANVIL (OPTIONAL)

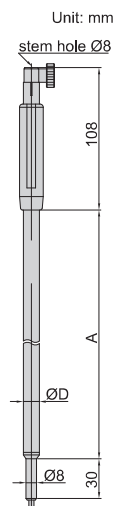
Code	Remark
2433-P□□□□	We design and make anvils according to the grooves to be measured.*

* Note: please provide the dimension of grooves to be measured.

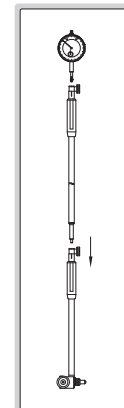
LONG HANDLES

INSIZE PLUS
MADE IN EUROPE

- To assist deep-hole measurement
- Can be used for bore gages 2422, 2428, 2423 and 2424



method of use



Code	Applicable bore gages	A	ØD
7352-500	above 35mm	438	12
7352-1000		938	12

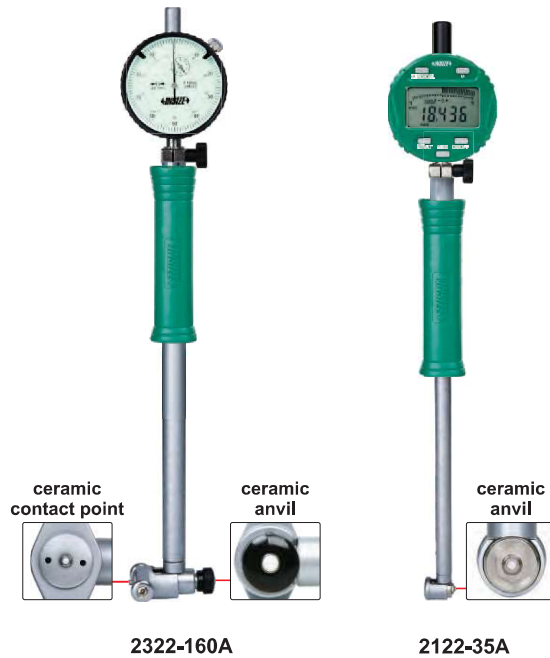
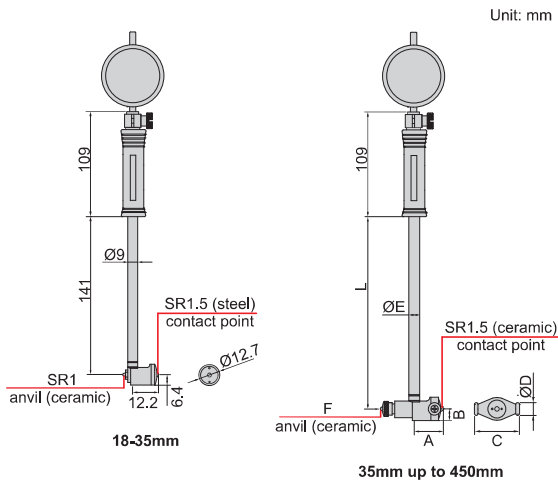
ATTENTION: NOT SUITABLE FOR 0.001MM DIAL INDICATORS

DATA OUTPUT



BORE GAGES

6



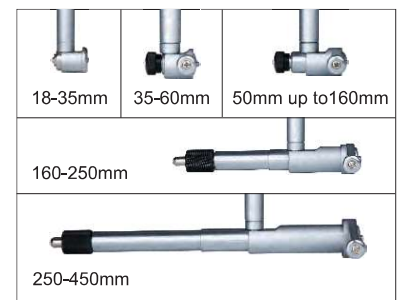
- Optional accessory: setting ring (code **6312**), long handle (code **7351**), bore gage setter

(mm)

Range	A	B	C	ØD	ØE	F	L
35-60mm	22	9	27	13	12.8	SR2	141
50-100mm	26	9	35	13	12.8	SR2	141
50-160mm	26	9	35	13	12.8	SR2	141
100-160mm	26	9	35	13	12.8	SR2	141
160-250mm	56.5	13	74.5	15	12.8	SR2	241
250-450mm	86.5	15	101.5	15	14.5	SR2.5	241

With dial indicator

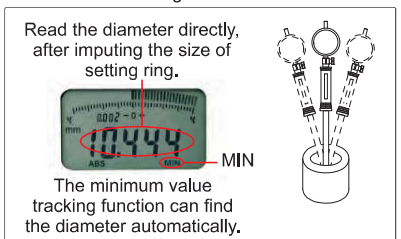
Code	Range	Indicator	Accuracy	Repeatability
2322-35A	18-35mm	dial indicator, range 10mm, graduation 0.01mm (code 2308-10FA)	±0.015mm	0.003mm
2322-60A	35-60mm		±0.018mm	0.003mm
2322-100A	50-100mm		±0.018mm	0.003mm
2322-160A	50-160mm		±0.018mm	0.003mm
2322-161A	100-160mm		±0.018mm	0.003mm
2322-250A	160-250mm		±0.018mm	0.003mm
2322-450A	250-450mm		±0.018mm	0.003mm



With digital indicator

Code	Range	Indicator	Accuracy	Repeatability
2122-35A	18-35mm	digital indicator, code 2108-10F , range 12.7mm/0.5", resolution 0.002mm/0.0001" (can switch to: 0.01mm/0.0005")	±0.015mm	0.003mm
2122-60A	35-60mm		±0.018mm	0.003mm
2122-100A	50-100mm		±0.018mm	0.003mm
2122-160A	50-160mm		±0.018mm	0.003mm
2122-161A	100-160mm		±0.018mm	0.003mm
2122-250A	160-250mm		±0.018mm	0.003mm
2122-450A	250-450mm		±0.018mm	0.003mm

with digital indicator



BORE GAGES FOR SMALL HOLES

DATA OUTPUT

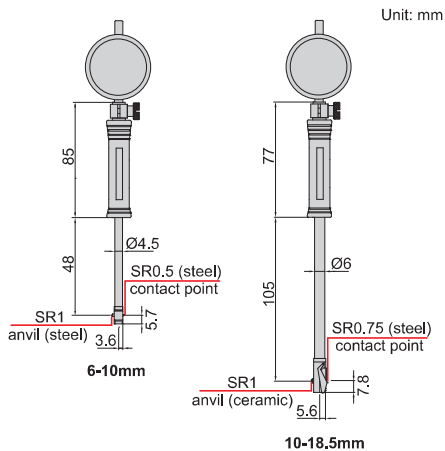
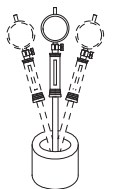
ATTENTION: NOT SUITABLE FOR 0.001MM DIAL INDICATORS

with digital indicator

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



The minimum value tracking function can find the diameter automatically.



2852-10



2152-18

ceramic anvil



- Optional accessory: setting ring (code 6312), bore gage setter

With dial indicator

Code	Range	Indicator	Accuracy	Repeatability
2852-10	6-10mm	dial indicator, range 3mm, graduation 0.01mm (code 2311-3F)	±0.012mm	0.003mm
2852-18	10-18.5mm		±0.012mm	0.003mm

With digital indicator

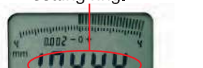
Code	Range	Indicator	Accuracy	Repeatability
2152-10	6-10mm	digital indicator, code 2108-10F, range 12.7mm/0.5", resolution 0.002mm/0.0001" (can switch to: 0.01mm/0.0005")	±0.012mm	0.003mm
2152-18	10-18.5mm		±0.012mm	0.003mm

BORE GAGES

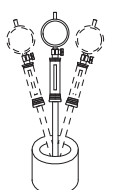
ATTENTION: NOT SUITABLE FOR 0.001MM DIAL INDICATORS

with digital indicator

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



The minimum value tracking function can find the diameter automatically.

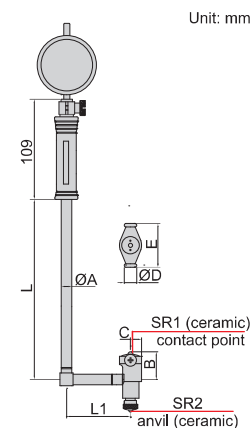


2308-10FA

2108-10F



2827-160A



- Optional accessory: setting ring (code 6312), long handle (code 7351), bore gage setter

With dial indicator

Code	Range	Indicator	Accuracy	Repeatability
2827-60A	35-60mm	dial indicator code 2308-10FA, range 10mm, graduation 0.01mm	±0.018mm	0.003mm
2827-160A	50-160mm		±0.018mm	0.003mm
2827-250A	160-250mm		±0.018mm	0.003mm
2827-450A	250-450mm		±0.018mm	0.003mm

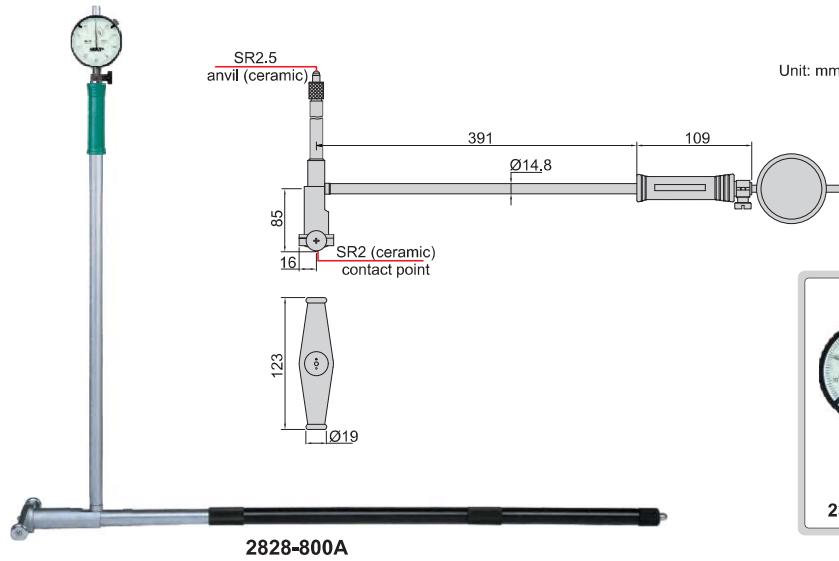
With digital indicator

Code	Range	Indicator	Accuracy	Repeatability
2127-60	35-60mm	digital indicator, code 2108-10F, range 12.7mm/0.5", resolution 0.002mm/0.0001" (can switch to: 0.01mm/0.0005")	±0.018mm	0.003mm
2127-160	50-160mm		±0.018mm	0.003mm
2127-250	160-250mm		±0.018mm	0.003mm
2127-450	250-450mm		±0.018mm	0.003mm

Range	ØA	B	C	ØD	E	L	L1
35-60mm	12.8	22	9	13	27	141	75
50-160mm	12.8	28.5	9.2	13	35	141	76.2
160-250mm	14.5	62.0	12.7	15	74.5	391	100
250-450mm	14.5	91.5	15.0	15	101.5	391	100

ATTENTION: NOT SUITABLE FOR 0.001MM DIAL INDICATORS

BORE GAGES



Unit: mm

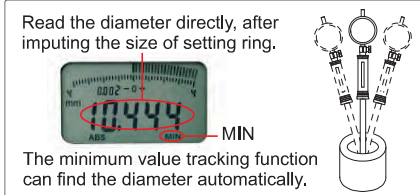


6

Code	Range	Indicator	Accuracy	Repeatability
2828-800A	400-800mm	dial indicator, code 2308-10FA, range 10mm, graduation 0.01mm	±0.025mm	0.003mm
2128-800A	400-800mm	digital indicator, code 2108-10F, range 12.7mm/0.5", resolution 0.002mm/0.0001" (can switch to: 0.01mm/0.0005")	±0.025mm	0.003mm



with digital indicator



ATTENTION: NOT SUITABLE FOR 0.001MM DIAL INDICATORS

BORE GAGE SETS

packaging (code 2824-S3)



- Optional accessory: setting ring (code 6312), long handle (code 7351), bore gage setter

With dial indicator

Code	Range	Indicator	Bore gages included	Accuracy	Repeatability
2824-S160	35-160mm	dial indicator, code 2308-10FA, range 10mm, graduation 0.01mm	① 35-50mm (dial indicator and handle are not included) ② 50-160mm	35-50mm ±0.018mm 50-160mm ±0.018mm	0.003mm
2824-S3	18-160mm	dial indicator, code 2308-10FA, range 10mm, graduation 0.01mm	① 18-35mm ② 35-60mm (dial indicator is not included) ③ 50-160mm (dial indicator is not included)	18-35mm ±0.015mm 35-60mm ±0.018mm 50-160mm ±0.018mm	0.003mm

With digital indicator

Code	Range	Indicator	Bore gages included	Accuracy	Repeatability
2724-S160	35-160mm	digital indicator, code 2108-10F range 12.7mm/0.5", resolution 0.002mm/0.0001" (can switch to: 0.01mm/0.0005")	① 35-50mm (digital indicator and handle are not included) ② 50-160mm	35-50mm ±0.018mm 50-160mm ±0.018mm	0.003mm
2724-S3	18-160mm	digital indicator, code 2108-10F range 12.7mm/0.5", resolution 0.002mm/0.0001" (can switch to: 0.01mm/0.0005")	① 18-35mm ② 35-60mm (digital indicator is not included) ③ 50-160mm (digital indicator is not included)	18-35mm ±0.015mm 35-60mm ±0.018mm 50-160mm ±0.018mm	0.003mm

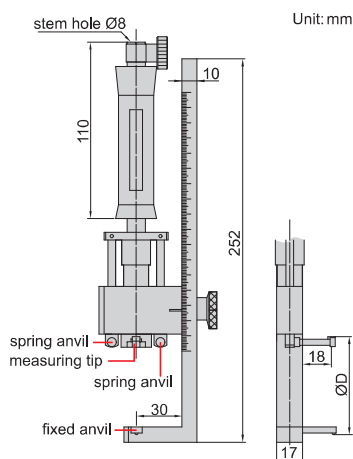
BORE GAGE FOR BARRIER INSIDE BORE

ATTENTION: NOT SUITABLE FOR 0.001MM DIAL INDICATORS

MEASURE DIAMETER OF BORES WITH BARRIER INSIDE



- Measure diameter of bores with barrier inside
- Optional accessory:
 - 0.01mm graduation dial indicators
 - Setting ring (code 6312)



dial indicator is optional



2348-210



(mm)

Code	Range ØD	Diameter of barrier Ød	Travel of measuring tip	Accuracy (without dial indicator)	Measuring force
2348-210*	40-210mm	<D-14 (less than 50mm)*	1.6	0.018	2N

*For example:

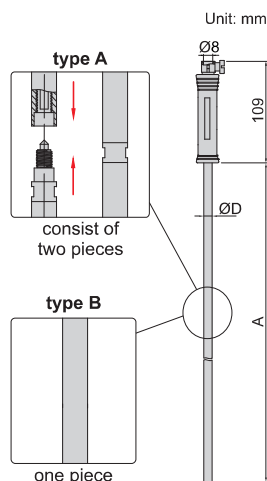
When measuring size ØD is 40mm, D-14=26mm, so the diameter of barrier should be less than 26mm.

When measuring size ØD is 70mm, D-14=56mm, however it should be less than 50mm, so the diameter of barrier should be less than 50mm.

LONG HANDLES

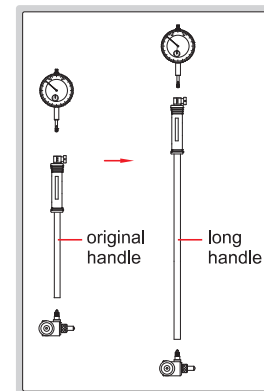
- To assist deep-hole measurement
- Can be used for bore gages 2122, 2127, 2322, 2724, 2824 and 2827

Code	Applicable bore gages	A	ØD	Type
7351-EX11	35-60mm,	475	13	B
7351-EX12	50-100mm,	980	13	
7351-EX13	50-160mm,	1480	14.5	A
7351-EX14	100-160mm	1980	14.5	
7351-EX21	160-250mm, 250-450mm	480	14.5	B
7351-EX22		980	14.5	B
7351-EX23		1480	14.5	A
7351-EX24		1980	14.5	A



7351-EX11

method of use (replace the original handle with long handle)



ANVILS FOR BORE GAGES

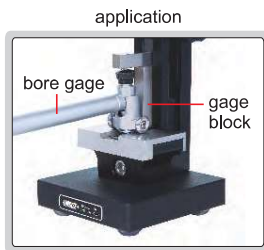
Code	Applicable bore gages	Material of measuring face	Quantity per set	Measuring range of anvil (mm)
7350-10	6-10mm	steel	9 pcs	6, 6.5, 7, 7.5, 8, 8.5, 9, 9.5, 10
7350-18	10-18.5mm	ceramic	9 pcs	10, 11, 12, 13, 14, 15, 16, 17, 18
7350-35	18-35mm	ceramic	9 pcs	18, 20, 22, 24, 26, 28, 30, 32, 34
7350-60	35-60mm	ceramic	6 pcs	35, 40, 45, 50, 55, 60
7350-100	50-100mm	ceramic	11 pcs	50, 55, 60, 65, 70, 75, 80, 85, 90, 95, 100
7350-160	50-160mm	ceramic	12 pcs	50, 55, 60, 65, 70, 75, 80, 85, 90, 95, 100, 105
7350-161	100-160mm	ceramic	12 pcs	50, 55, 60, 65, 70, 75, 80, 85, 90, 95, 100, 105
7350-250	160-250mm	ceramic	5 pcs	160, 170, 180, 190, 200
7350-450	250-450mm	ceramic	5 pcs	250, 260, 270, 280, 290



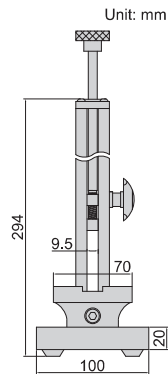
7350-160

- For bore gages 2852, 2152, 2322, 2122, 2127, 2724, 2824 and 2827

BORE GAGE SETTERS



- Vertical and horizontal use
- To be used with gage blocks



7353-160

Code	Range	Repeatability	Remark
7353-160	0-160mm	1.2µm	with gage block set
7353-160W	0-160mm	1.2µm	without gage block set

horizontal use



gage blocks for 7353-160



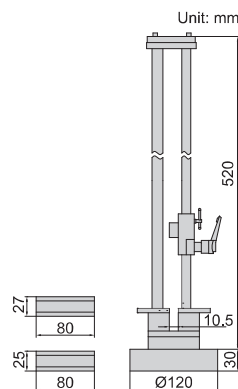
Gage block set for 7353-160

Blocks per set	Size (mm)	Step (mm)	Quantity	Remark
33	1.005		1 pc	grade 2 (ISO3650)
	1.01-1.09	0.01	9 pcs	
	1.1-1.9	0.1	9 pcs	
	1-9	1	9 pcs	
	10-30	10	3 pcs	
	50		1 pc	
	100		1 pc	

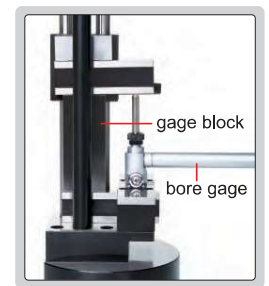
BORE GAGE SETTER



- Used together with gage blocks to set bore gages



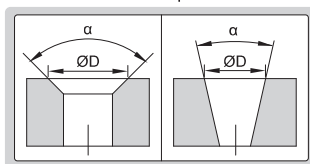
2395-400



Code	Setting range
2395-400	18-400mm



measure end diameter of chamfer or taper holes



- Measure end diameter of chamfer or taper holes
- With limit pointers
- 2941-20 and 2941-203 are supplied with 5mm setting ring

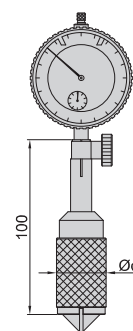


2941-20

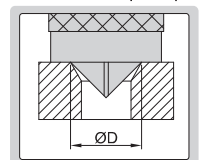
INTERNAL CHAMFER GAGES



Unit: mm



measurement principle



5mm setting ring for 2941-20 and 2941-203



Code	Range ØD	Applicable angle α	Graduation	Accuracy	Ød
2941-20*	0.5-20.1mm	0-90°	0.01mm	±0.02mm	28.3mm
2941-40*	20-40mm	0-90°	0.01mm	±0.02mm	50mm
2941-203*	0.5-20.1mm	90-127°	0.02mm	±0.04mm	28.3mm
2941-403*	20-40mm	90-127°	0.02mm	±0.04mm	50mm

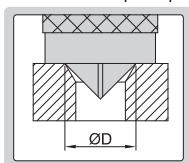
*Supplied with manufacturer inspection certificate traceable to DKD Germany

DIGITAL INTERNAL CHAMFER GAGES

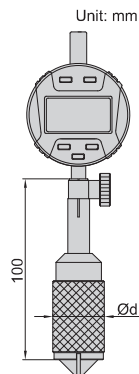
INSIZE PLUS
MADE IN EUROPE



measurement principle



2942-20



DATA
OUTPUT

**INSPECTION
CERTIFICATE**
TRACEABLE TO DKD

5mm setting ring for
2942-20 and 2942-203

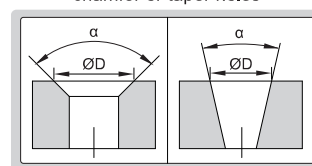


- Measure end diameter of chamfer or taper holes
- 2942-20 and 2942-203 are supplied with 5mm setting ring
- Resolution: 0,01mm/0,0005"
- Optional accessory: data output cable (code 7315-50M, 7302-40M)

Code	Range ØD	Applicable angle α	Accuracy	Ød
2942-20*	0,5-20,1mm	0-90°	±0,02mm	28,3mm
2942-40*	20-40mm	0-90°	±0,02mm	50mm
2942-203*	0,5-20,1mm	90-127°	±0,04mm	28,3mm
2942-403*	20-40mm	90-127°	±0,04mm	50mm

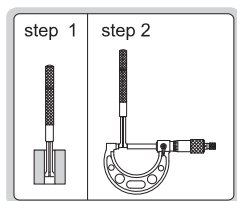
*Supplied with manufacturer inspection certificate traceable to DKD Germany

measure end diameter of
chamfer or taper holes

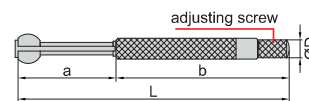


SMALL HOLE GAGE SET

- 4 gages per set
- For small holes, slots and grooves, etc.
- Satin chrome finish



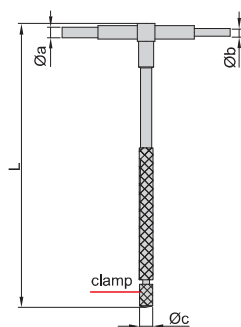
4208-1



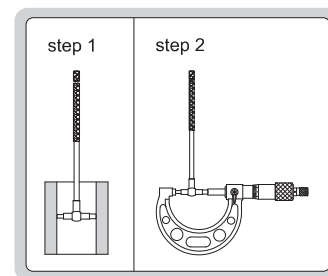
Range	L	a	b	ØD
3-5mm	76	24	52	5
5-7.5mm	79	27	52	5
7.5-10mm	88	30	58	6
10-13mm	91	34	58	6

TELESCOPING GAGE SET

- 6 gages per set
- For quick measurement of inside diameter of holes and width of slots
- Satin chrome finish



4206-1



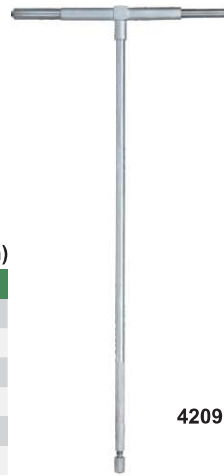
Range	L	Øa	Øb	Øc
8-12.7mm	115	3.9	2.9	6.2
12.7-19mm	115	5.3	3.8	6.2
19-32mm	115	5.3	3.8	6.2
32-54mm	137	7.6	6.1	7.2
54-90mm	137	7.6	6.1	7.2
90-150mm	137	7.6	6.1	7.2

Code	Total range	Gages included
4206-1	8-150mm	8-12.7mm, 12.7-19mm, 19-32mm, 32-54mm, 54-90mm, 90-150mm

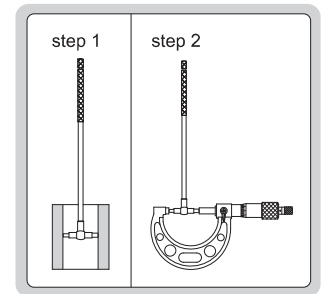
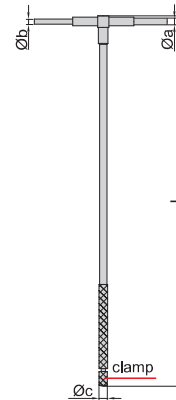
LONG HANDLE TELESCOPING GAGES

- For quick measurement of inside diameter of deep holes and width of slots
- Satin chrome finish

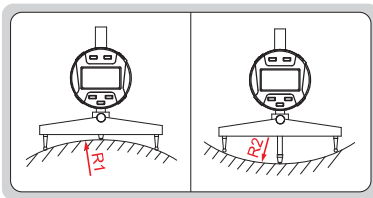
(mm)					
Code	Range	L	Øa	Øb	Øc
4209-1	8-12.7mm	300	3.9	2.9	6.2
4209-2	12.7-19mm	300	5.3	3.8	6.2
4209-3	19-32mm	300	5.3	3.8	6.2
4209-4	32-54mm	300	7.6	6.1	7.2
4209-5	54-90mm	300	7.6	6.1	7.2
4209-6	90-150mm	300	7.6	6.1	7.2



4209-6



DIGITAL RADIUS GAGE



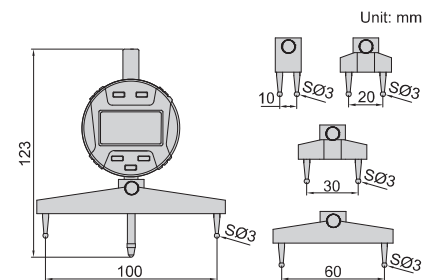
- Resolution: 0.005mm/0.0002"
- Buttons: on/off, hold, mm/inch, s (select jaws), zero
- Measure radius of internal or external arcs
- Display can be rotated by 320°
- Supplied with 5 jaws for different sizes of arc
- Battery CR2032, automatic power off



2183



ATTENTION: NO DATA OUTPUT



Code	Range of external radius (R1)	Range of internal radius (R2)	Accuracy (mm)
2183	5-910mm/0.2-35.83"	7-910mm/0.3-35.83"	±0.01R*

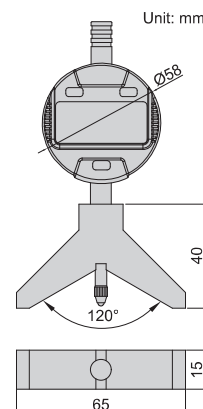
*R is the radius to be measured. For example, radius is 100mm, the accuracy is ±0.01x100=±1mm

DIGITAL RADIUS GAGE

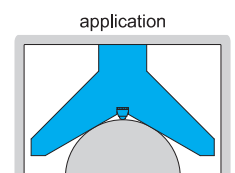
- Measure radius of external arc, arc angle of measured surface should be larger than 60°
- Display radius value, no need to calculate
- Button function: on/off, zero, data preset, inch/mm
- Keep preset data in memory after restart
- CR2032 battery, automatic power off
- Data output
- Stainless steel base
- Supplied with pin gage for zero setting
- Optional accessory: data output cable (code 7315-50M, 7302-40M)



2188-55



pin gage (included)



Code	Range (radius)	Resolution	Accuracy
2188-55	4-53mm/0.16-2.09"	0.01mm/0.0005"	±0.02mm

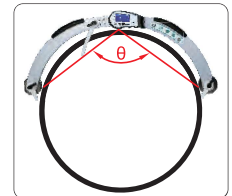
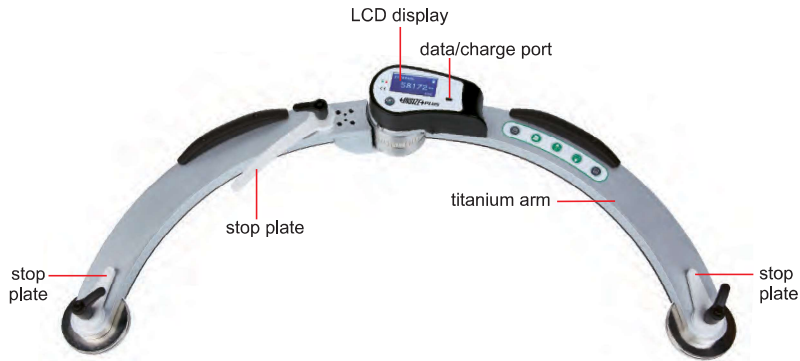
LARGE DIAMETER GAGE CODE ISQ-RA600

INSIZE PLUS
MADE IN EUROPE

DATA
OUTPUT



software CD
(included)



display of angle

- To measure large external or internal diameters
- Automatic judgment and display external or internal diameter
- Backlight LCD display, can rotate 180 ° for easy reading
- Memory of 12 readings and average calculation
- With minimum and maximum measurement mode
- Angle can be displayed



external diameter measurement



internal diameter measurement

SPECIFICATION

Range	external	Ø500~6000mm/19.69~236.22"
	internal	Ø1100~6000mm/43.31~236.22"
Resolution	0.01mm/0.001"	
Accuracy	$\pm(0.01+D^2/30)$ mm (D is the diameter to be measured, in meter)	
Power supply	rechargeable battery (for 8 hours working)	
Weight	3.8kg	

STANDARD DELIVERY

Main unit	1 pc
AC/DC adapter	1 pc
Software and USB cable	1 pc



software (included),
data output, save and print

Accuracy sample by diameters

Diameter	Accuracy
500mm	±0.018mm
1000mm	±0.043mm
1500mm	±0.085mm
2000mm	±0.143mm
2500mm	±0.218mm
3000mm	±0.310mm
4000mm	±0.543mm
5000mm	±0.843mm
6000mm	±1.210mm

TAPE BORE GAGES

INSIZE PLUS
MADE IN EUROPE

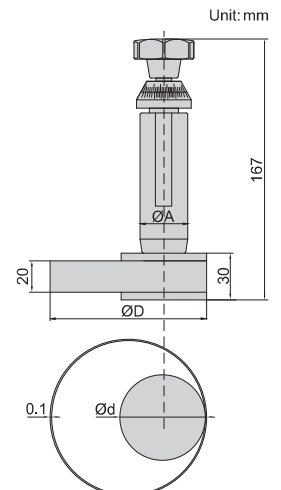


- Measure internal diameter and circumference of soft materials like tubes, belts, etc.
- Graduation: 0.1mm
- Accuracy: 0.2mm

Code	Range ØD	Ød	ØA	Measuring depth
2430-24	14-24mm	13.5	13	15-60
2430-40	22-40mm	21.5	21	15-60
2430-60	35-60mm	34.5	30.5	15-96
2430-100	55-100mm	54.5	30.5	15-106
2430-180	95-180mm	94.5	30.5	15-106
2430-255	170-255mm	169.5	30.5	15-106
2430-330	245-330mm	244.5	30.5	15-106



2430-100



INTERNAL CIRCUMFERENCE TAPES

INSIZE PLUS
MADE IN EUROPE

application

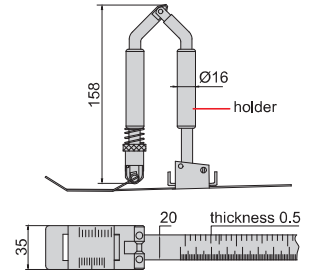


- Measure internal diameter and circumference of soft materials like tubes, belts, etc.
- Laser engraved scale
- Made of stainless steel
- Optional accessory: holder (code **7125-HOLDER**)



7125-1550

Unit: mm



HOLDER (OPTIONAL)

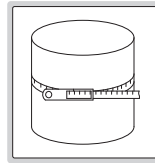
Code

7125-HOLDER

Code	Circumference range	Diameter range	Graduation	Accuracy	
				Circumference	Diameter
7125-1550	720-1550mm	Ø230-490mm	0.1mm	±0.35mm	±0.20mm
7125-2200	940-2200mm	Ø300-700mm	0.1mm	±0.35mm	±0.20mm
7125-3460	2190-3460mm	Ø700-1100mm	0.1mm	±0.45mm	±0.23mm
7125-4720	3450-4720mm	Ø1100-1500mm	0.1mm	±0.45mm	±0.23mm
7125-5980	4710-5980mm	Ø1500-1900mm	0.1mm	±0.50mm	±0.25mm
7125-7230	5970-7230mm	Ø1900-2300mm	0.1mm	±0.55mm	±0.27mm
7125-8500	7220-8500mm	Ø2300-2700mm	0.1mm	±0.55mm	±0.27mm

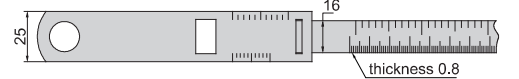
CIRCUMFERENCE TAPES

- Measure diameter and circumference of soft materials like pipes, trees, tires, etc.
- Graduation: 0.1mm
- Laser engraved scale
- Made of stainless steel



7114-950

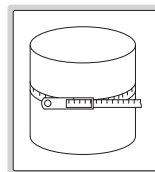
Unit: mm



Code	Circumference range	Diameter range	Accuracy	
			Circumference	Diameter
7114-950	150-950mm	Ø50-300mm	±3mm	±1mm
7114-2200	940-2200mm	Ø300-700mm	±3mm	±1mm
7114-3460	2190-3460mm	Ø700-1100mm	±3mm	±1mm

**CAN SUPPLY TAPE WIDTH
6MM, 35MM, 60MM**

- Measure diameter and circumference of pipes, trees, tires, etc.
- Graduation: 0.1mm
- Laser engraved scale
- Made of stainless steel



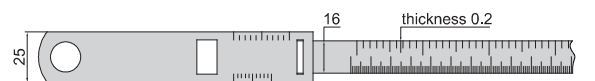
CIRCUMFERENCE TAPES

INSIZE PLUS
MADE IN EUROPE



7115-3460

Unit: mm

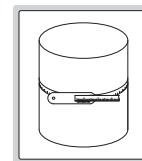


Code	Circumference range	Diameter range	Accuracy	
			Circumference	Diameter
7115-950 *	150-950mm	Ø50-300mm	±0.60mm	±0.20mm
7115-2200	940-2200mm	Ø300-700mm	±0.60mm	±0.20mm
7115-3460	2190-3460mm	Ø700-1100mm	±0.60mm	±0.20mm
7115-4720	3450-4720mm	Ø1100-1500mm	±0.90mm	±0.30mm
7115-5980	4710-5980mm	Ø1500-1900mm	±0.90mm	±0.30mm
7115-7230	5970-7230mm	Ø1900-2300mm	±1.05mm	±0.35mm
7115-8500	7220-8500mm	Ø2300-2700mm	±1.20mm	±0.40mm
7115-9760	8490-9760mm	Ø2700-3100mm	±1.35mm	±0.45mm
7115-11010	9730-11010mm	Ø3100-3500mm	±1.50mm	±0.50mm

*When diameter range is Ø50-100mm, the accuracy of circumference is ±0.90mm, diameter is ±0.30mm

CIRCUMFERENCE TAPES

INSIZE PLUS
MADE IN EUROPE



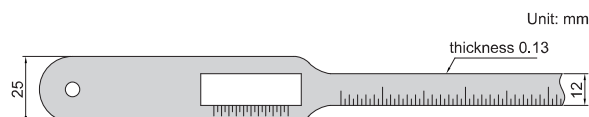
- Measure diameter of cables, thin plastic pipes, etc., which may deform
- Laser engraved scale
- Made of stainless steel

7116-115

6

7

Code	Diameter range	Graduation	Accuracy
7116-115	Ø20-115mm	0.05mm	±0.10mm
7116-230	Ø100-230mm	0.05mm	±0.10mm
7116-330	Ø200-330mm	0.05mm	±0.15mm
7116-620	Ø300-620mm	0.05mm	±0.20mm



HIGH PRECISION DIGITAL INDICATORS

ABSOLUTE ENCODER, THE ORIGINAL DATA REMAINS AFTER POWER OFF

Ø28MM STEM SUITABLE FOR REINFORCED CLAMPING

DATA OUTPUT

LINEAR BALL BEARINGS FOR TEN MILLION TIMES USE

ATTENTION: RECHARGEABLE BATTERY, FOR 24 HOURS CONTINUOUS WORKING

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

With data interface

Optional accessory:
wireless transmitter, code 7315-60, wireless receiver, code 7315-2, 7315-3
data output cable (keyboard format), code 7302-60
data output cable (serial port format), code 7305-G60
(cable length 3m, optional cable length maximum 15m; RS232 protocol, optional RS485 protocol)

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

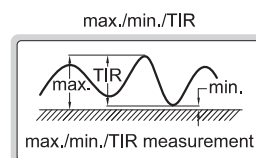
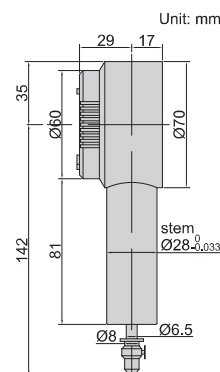
Built-in wireless

Optional accessory:
wireless receiver (keyboard format), code 2134-R1
wireless receiver (serial port format), code 2134-R2

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



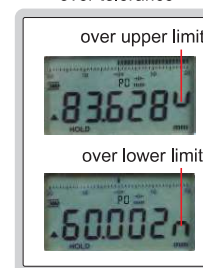
2140-6



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



warning when over tolerance



analog pointer

