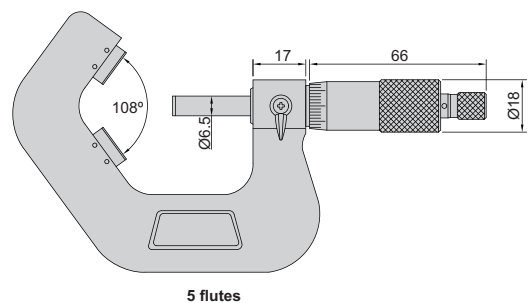
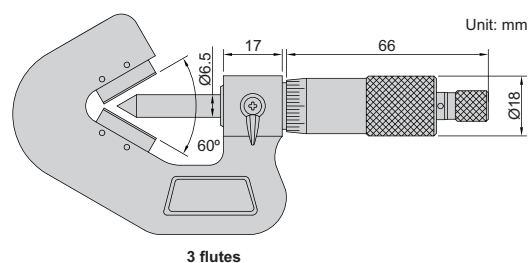


V-ANVIL MICROMETER



3290-153A

Code	Range	Flutes	Accuracy
3290-153A	1-15mm	3	4μm
3290-203A	5-20mm	3	4μm
3290-353A	20-35mm	3	5μm
3290-503A	35-50mm	3	5μm
3290-653A	50-65mm	3	6μm
3290-803A	65-80mm	3	6μm
3290-953A	80-95mm	3	7μm
3290-255A	5-25mm	5	4μm
3290-455A	25-45mm	5	5μm
3290-655A	45-65mm	5	6μm
3290-855A	65-85mm	5	7μm



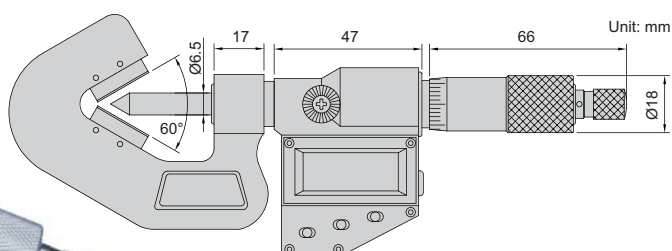
- Measure the outside diameter of cutting tools (such as taps, reamers, end mills) with 3 or 5 flutes
- Graduation 0.01mm
- Ratchet stop
- Carbide measuring faces
- Supplied with setting standards

DIGITAL V-ANVIL MICROMETER



3590-153A

Code	Range	Flutes	Accuracy
3590-153A	1-15mm/0.04-0.6"	3	±4μm
3590-203A	5-20mm/0.2-0.8"	3	±4μm
3590-353A	20-35mm/0.8-1.4"	3	±5μm
3590-503A	35-50mm/1.4-2.0"	3	±5μm



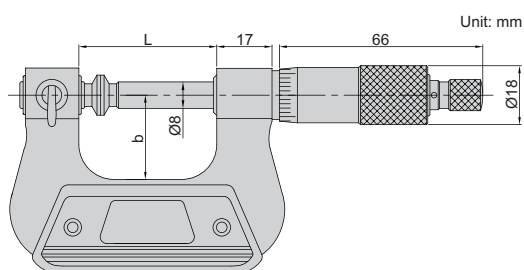
- Measure the outside diameter of cutting tools (such as taps, reamers, end mills) with 3 flutes
- Resolution 0.001mm/0.00005"
- IP54 dust/waterproof
- Button function: on/off, set, mm/inch, ABS/INC, data output
- Data output
- SR44 or LR44 battery, automatic power off
- Ratchet stop
- Carbide measuring faces
- Supplied with setting standards
- Optional accessory: data output system (code 7306-30, 7302-SPC2A, 7305-SPC3)

NON ROTATING SPINDLE UNIVERSAL MICROMETER

NON-ROTATING
SPINDLE



3280-25A



- Graduation 0.01mm
- Non-rotating spindle
- Ratchet stop
- Supplied with 7 pairs of anvil/spindle tip
- Setting standards are included (except 0-25mm)
- Optional accessory: 55° anvil/spindle tip (code **3280-SP1** and **3280-SP2**)

(mm)				
Code	Range	Accuracy	L	b
3280-25A	0-25mm	4µm	42	26
3280-50A	25-50mm	4µm	67	38

standard anvil/spindle tip

Unit: mm

Flat		
Spherical		
Spline		
Disk		
Blade		
Knife-edge		
Point		

optional 55° anvil/spindle tip

Code 3280-SP1 Knife-edge		
Code 3280-SP2 Point		

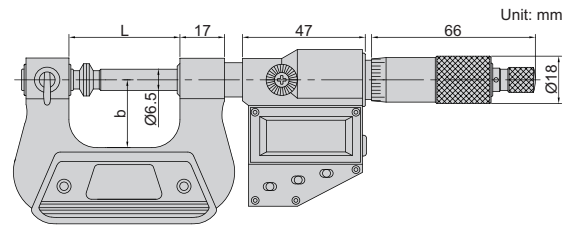
DIGITAL UNIVERSAL MICROMETER

DATA
OUTPUT

IP54
WATERPROOF



3580-25A



- Resolution 0.001mm/0.00005"
- IP54 dust/waterproof
- Button function: on/off, set, mm/inch, ABS/INC, data output
- Data output
- SR44 or LR44 battery, automatic power off
- Ratchet stop
- Supplied with 7 pairs of anvil/spindle tip (same as series **3280**, previous page)
- Setting standards are included (except 0-25mm/0-1")
- Optional accessory: 55° anvil/spindle tip code **3280-SP1** and **3280-SP2** (same as series **3280**, previous page), data output system (code **7306-30**, **7302-SPC2A**, **7305-SPC3**)

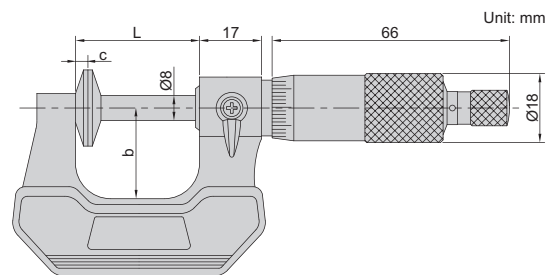
Code	Range	Accuracy	L	b
3580-25A	0-25mm/0-1"	±4µm	42	26
3580-50A	25-50mm/1-2"	±4µm	67	38

(mm)

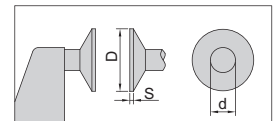
DISK MICROMETER



3282-25

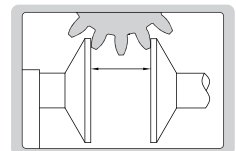


- Measure root tangent length of gear
- Graduation 0.01mm
- Ratchet stop
- Supplied with setting standards



Code	Range	Accuracy	L	b	c	D	S	d
3282-25	0-25mm	4µm	34	24	3.3	Ø20	0.7	Ø8
3282-50	25-50mm	4µm	59	32	3.3	Ø20	0.7	Ø8
3282-75	50-75mm	5µm	85	45	3.3	Ø20	0.7	Ø8
3282-100	75-100mm	5µm	110	57	3.3	Ø20	0.7	Ø8

(mm)

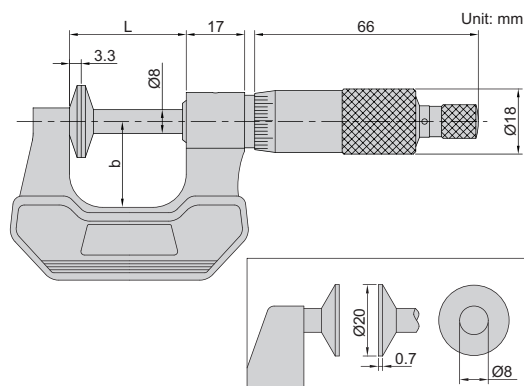


NON ROTATING SPINDLE DISK MICROMETER

NON-ROTATING
SPINDLE

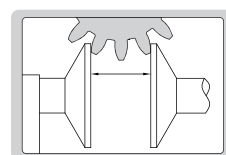


3294-25



(mm)				
Code	Range	Accuracy	L	b
3294-25	0-25mm	4µm	34	24
3294-50	25-50mm	4µm	59	32
3294-75	50-75mm	5µm	85	45
3294-100	75-100mm	5µm	110	57

- Measure root tangent length of gear
- Graduation 0.01mm
- Non-rotating spindle
- Ratchet stop
- Supplied with setting standards



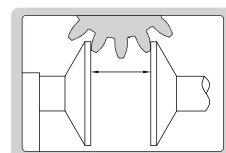
DIGITAL NON ROTATING SPINDLE DISK MICROMETER

DATA
OUTPUT

NON-ROTATING
SPINDLE

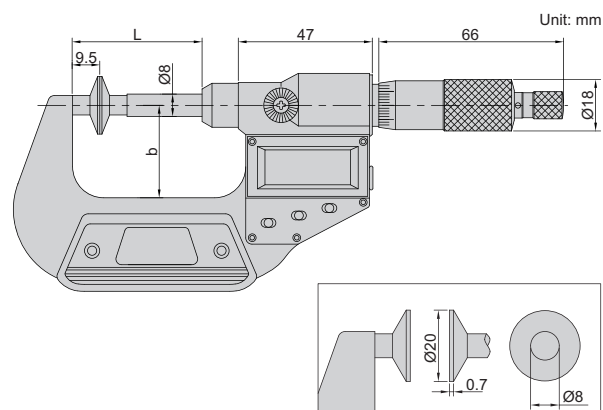


3594-25A



- Measure root tangent length of gear
- Resolution 0.001mm/0.00005"
- Non-rotating spindle
- Button function: on/off, set, mm/inch, ABS/INC, data output
- Data output
- SR44 or LR44 battery, automatic power off
- Ratchet stop
- Supplied with setting standards
- Optional accessory: data output system (code 7306-30, 7302-SPC2A, 7305-SPC3)

(mm)				
Code	Range	Accuracy	L	b
3594-25A	0-25mm/0-1"	±4µm	43	32
3594-50A	25-50mm/1-2"	±4µm	68	44.5
3594-75A	50-75mm/2-3"	±5µm	93	57
3594-100A	75-100mm/3-4"	±5µm	118.5	70

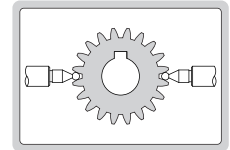
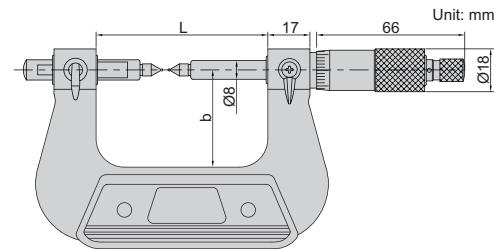


GEAR TOOTH MICROMETER

ball tips are not included



3291-25



Code	Range	Micrometer head accuracy	Ball tips accuracy	L	b
3291-25	0-25mm	4µm	8µm	67	38
3291-50	25-50mm	4µm	8µm	92.4	50
3291-75	50-75mm	5µm	10µm	117.6	62
3291-100	75-100mm	5µm	10µm	143	70
3291-125	100-125mm	6µm	15µm	168.2	82
3291-150	125-150mm	6µm	15µm	192	94.5
3291-175	150-175mm	7µm	15µm	217	107

- Measure over-pin diameter of gears
- Graduation 0.01mm
- Ratchet stop
- Supplied with setting standards (except 0-25mm)
- Optional accessory: ball tips (code 7391, next page)

DATA
OUTPUT

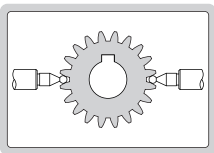
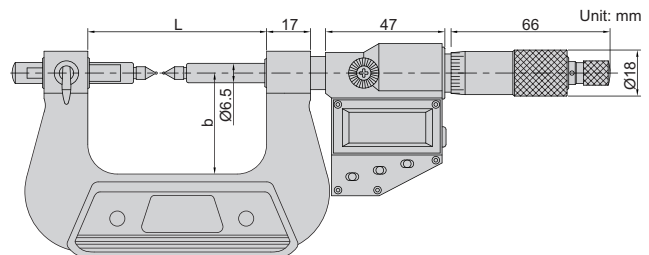
IP54
WATERPROOF

DIGITAL GEAR TOOTH MICROMETER

ball tips are not included



3591-25A



Code	Range	Micrometer head accuracy	Ball tips accuracy	L	b
3591-25A	0-25mm/0-1"	±4µm	8µm	67	38
3591-50A	25-50mm/1-2"	±4µm	8µm	92.4	50
3591-75A	50-75mm/2-3"	±5µm	10µm	117.6	62
3591-100A	75-100mm/3-4"	±5µm	10µm	143	70

- Measure over-pin diameter of gears
- Resolution 0.001mm/0.00005"
- IP54 dust/waterproof
- Button function: on/off, set, mm/inch, ABS/INC, data output
- Data output
- SR44 or LR44 battery, automatic power off
- Ratchet stop
- Supplied with setting standards (except 0-25mm/0-1")
- Optional accessory: ball tips (code 7391, next page), data output system (code 7306-30, 7302-SPC2A, 7305-SPC3)

BALL TIPS FOR GEAR TOOTH MICROMETER

Code	Ball dia.(D)	Module
7391-T1	SØ1mm	0.6-0.65
7391-T2	SØ1.5mm	0.9-1.0
7391-T3	SØ2.0mm	1.25
7391-T4	SØ2.5mm	1.5
7391-T5	SØ3.0mm	1.75
7391-T6	SØ3.5mm	2
7391-T7	SØ4.0mm	2.25
7391-T8	SØ4.5mm	2.5
7391-T9	SØ5.0mm	2.75
7391-T10	SØ6.0mm	3.5
7391-TS	10 pairs/set, including all above tips	



7391-T5



Unit: mm

MEASURING TIPS FOR SCREW THREAD MICROMETER

Metric and unified thread (60° thread angle)

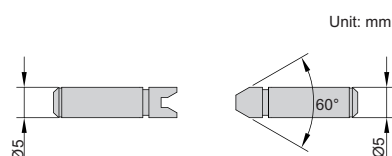
Code	Pitch
7381-T11	0.4-0.5mm/ 64-48TPI
7381-T12	0.6-0.9mm/ 44-28TPI
7381-T13	1-1.75mm/ 24-14TPI
7381-T14	2-3mm/ 13-9TPI
7381-T15	3.5-5mm/ 8-5TPI
7381-T16	5.5-7mm/ 4.5-3.5TPI
7381-TS	6 pairs/set, including all above tips



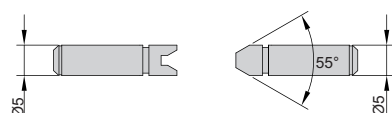
7381-T11

Whitworth thread (55° thread angle)

Code	Pitch
7381-T21	60-48TPI
7381-T22	48-40TPI
7381-T23	40-32TPI
7381-T24	32-24TPI
7381-T25	24-18TPI
7381-T26	18-14TPI
7381-T27	14-10TPI
7381-T28	10-7TPI
7381-T29	7-4.5TPI
7381-T210	4.5-3.5TPI
7381-T2S	10 pairs/set, including all above tips



60° thread angle

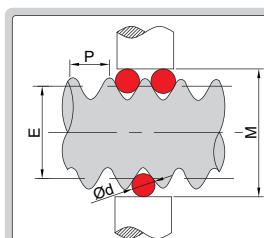


55° thread angle

3-WIRES



7382-19

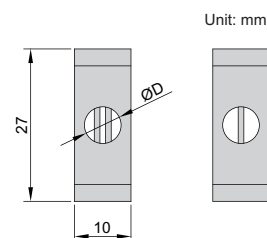
**Formula of pitch diameter E**

$$E = M - 3d + 0.866025P$$

M=measured value of the micrometer
d=diameter of the pin gage (choose diameter of pin gage according to pitch: $d = 0.577P$)

P=screw thread pitch

The formula is suitable for 60° screw



- Used with standard outside micrometers with spindle Ø6.35mm or Ø6.50mm to measure pitch diameter of screw threads
- Diameter accuracy: $\pm 0.5 \mu\text{m}$
- Cylindricity: $1 \mu\text{m}$
- Hardness: HRC60
- Supplied with manufacturer inspection certificate

For outside micrometers with spindle Ø6.35mm (ØD)

Code	Pin gage diameter (Ød)
7382-11	0.170mm
7382-12	0.195mm
7382-13	0.220mm
7382-14	0.250mm
7382-15	0.290mm
7382-16	0.335mm
7382-17	0.390mm
7382-18	0.455mm
7382-19	0.530mm
7382-110	0.620mm
7382-111	0.725mm
7382-112	0.895mm
7382-113	1.100mm
7382-114	1.350mm
7382-115	1.650mm
7382-116	2.050mm
7382-117	2.550mm
7382-118	3.200mm
7382-1S	18 pairs/set, including all above 3-wires

For outside micrometers with spindle Ø6.50mm (ØD)

Code	Pin gage diameter (Ød)
7382-21	0.170mm
7382-22	0.195mm
7382-23	0.220mm
7382-24	0.250mm
7382-25	0.290mm
7382-26	0.335mm
7382-27	0.390mm
7382-28	0.455mm
7382-29	0.530mm
7382-210	0.620mm
7382-211	0.725mm
7382-212	0.895mm
7382-213	1.100mm
7382-214	1.350mm
7382-215	1.650mm
7382-216	2.050mm
7382-217	2.550mm
7382-218	3.200mm
7382-2S	18 pairs/set, including all above 3-wires

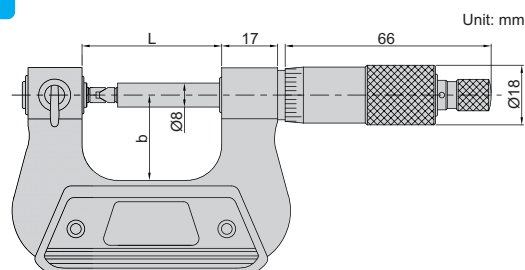
SCREW THREAD MICROMETER

NON-ROTATING
SPINDLE

measuring tips are not included

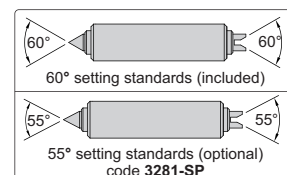


3281-25A



(mm)

Code	Range	Micrometer head accuracy	Measuring tips accuracy	L	b
3281-25A	0-25mm	4µm	8µm	42	26
3281-50A	25-50mm	4µm	8µm	67	38
3281-75A	50-75mm	5µm	10µm	92	50
3281-100A	75-100mm	5µm	10µm	117.6	62
3281-125A	100-125mm	6µm	15µm	143	70
3281-150A	125-150mm	6µm	15µm	168.2	82
3281-175A	150-175mm	7µm	15µm	192	94.5
3281-200A	175-200mm	7µm	15µm	217	107



- Measure pitch diameter of screw threads
- Graduation 0.01mm
- Non-rotating spindle
- Ratchet stop
- Supplied with 60° setting standards (except 0-25mm)
- Optional accessory: 55° setting standards (code 3281-SP), measuring tips (code 7381, previous page)

DIGITAL SCREW THREAD MICROMETER

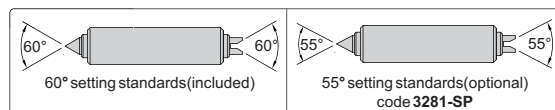
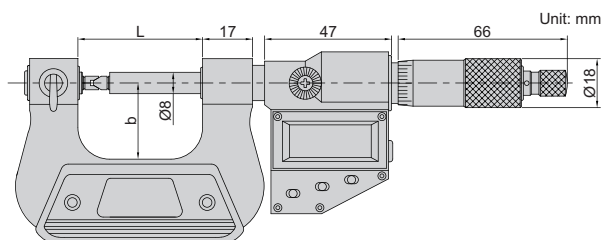
measuring tips are not included

DATA
OUTPUT

NON-ROTATING
SPINDLE



3581-25A

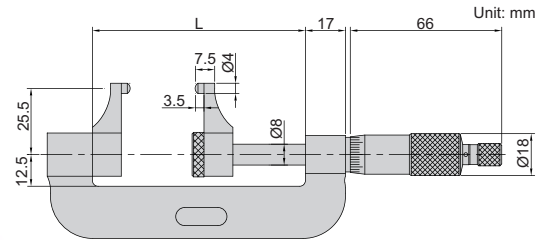


(mm)

Code	Range	Micrometer head accuracy	Measuring tips accuracy	L	b
3581-25A	0-25mm/0-1"	±4µm	8µm	42	26
3581-50A	25-50mm/1-2"	±4µm	8µm	67	38
3581-75A	50-75mm/2-3"	±5µm	10µm	92	50
3581-100A	75-100mm/3-4"	±5µm	10µm	117.6	62

- Measure pitch diameter of screw threads
- Resolution 0.001mm/0.00005"
- Button function: on/off, set, mm/inch, ABS/INC, data output
- Data output
- SR44 or LR44 battery, automatic power off
- Non-rotating spindle
- Ratchet stop
- Supplied with 60° setting standards (except 0-25mm/0-1")
- Optional accessory: 55° setting standards (code 3281-SP), measuring tips (code 7381, previous page), data output system (code 7306-30, 7302-SPC2A, 7305-SPC3)

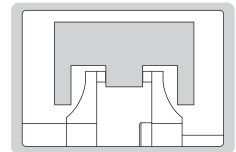
CALIPER TYPE MICROMETER



3238-25

(mm)			
Code	Range	Accuracy	L
3238-25	0-25mm	5µm	56
3238-50	25-50mm	6µm	81

- Graduation 0.01mm
- Non-rotating spindle
- Ratchet stop
- Carbide measuring faces
- Supplied with setting standards (except 0-25mm)

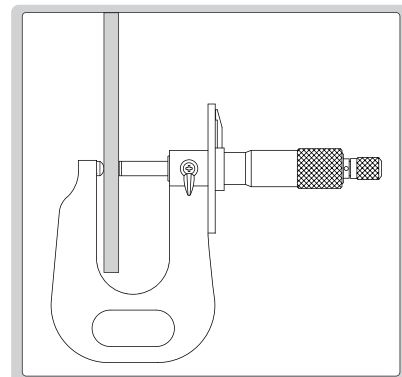
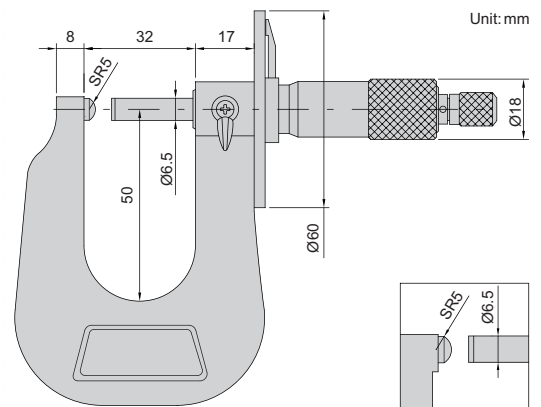


3263-25A

- Measure thickness of sheet metal, paper, plastic and rubber parts
- Graduation 0.01mm
- Ratchet stop
- Carbide measuring faces

Code	Range	Accuracy
3263-25A	0-25mm	4µm

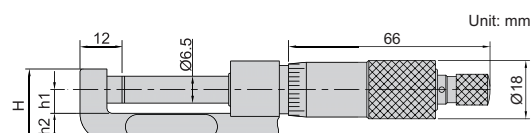
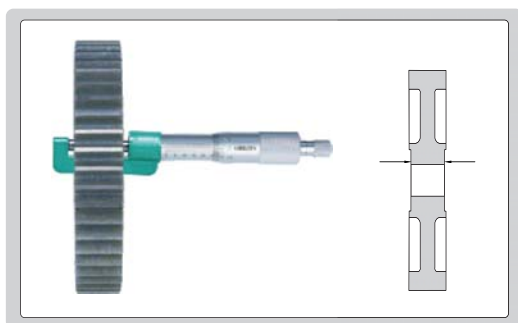
SHEET METAL MICROMETER



HUB MICROMETER



3292-25



(mm)					
Code	Range	Accuracy	h1	h2	H
3292-25	0-25mm	4µm	6	9	18.7
3292-50	25-50mm	4µm	6.5	11	21.2
3292-75	50-75mm	5µm	6.5	11	21.2
3292-100	75-100mm	5µm	6.5	11	21.2

- Measure hub thickness and shoulder inside a bore
- Graduation 0.01mm
- Ratchet stop
- Carbide measuring faces
- Supplied with setting standards (except 0-25mm)

WIRE MICROMETER



3285-10

- Measure diameter of wires and small balls
- Graduation 0.01mm
- Ratchet stop
- Carbide measuring faces

Code	Range	Accuracy
3285-10	0-10mm	4µm

