

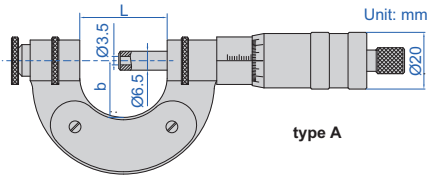
EXTERNAL SCREW THREAD MICROMETERS

INSIZE PLUS
MADE IN EUROPE

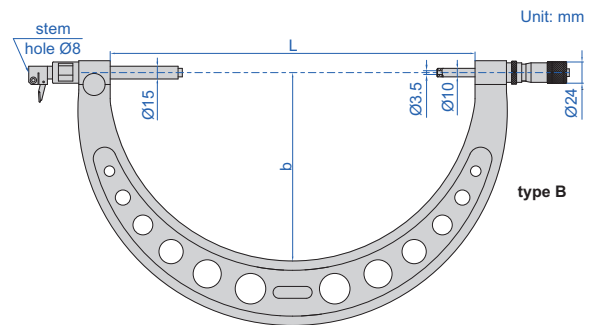
**INSPECTION
CERTIFICATE**



3680-50



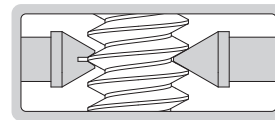
3680-4001



- Measure pitch diameter of screw threads
- Graduation 0.01mm
- Optional accessory: setting standards (code **7384**), external tread tips (code **7390**), dial/digital indicators (only for type B)

Type A (ratchet stop) (mm)

Code	Range	Accuracy	L	b
3680-25 *	0-25mm	4µm	37	24
3680-50 *	25-50mm	4µm	62	34
3680-75 *	50-75mm	4µm	87	46
3680-100 *	75-100mm	4µm	112	60
3680-125 *	100-125mm	5µm	139	72
3680-150 *	125-150mm	5µm	164	85
3680-200 *	150-200mm	7µm	215	110
3680-250 *	200-250mm	7µm	264	135
3680-300 *	250-300mm	7µm	315	160



Type B (without ratchet stop) (mm)

Code	Range	Left anvil retracting stroke	Micrometer head accuracy	L	b
3680-3001 *	200-300mm	2.5mm	6µm	320	165
3680-4001 *	300-400mm	2.5mm	7µm	430	220
3680-5001 *	400-500mm	2.5mm	8µm	530	273
3680-6001 *	500-600mm	2.5mm	9µm	630	323
3680-7001 *	600-700mm	2.5mm	9µm	730	378
3680-8001 *	700-800mm	2.5mm	9µm	830	423
3680-9001 *	800-900mm	2.5mm	10µm	930	473
3680-10001 *	900-1000mm	2.5mm	10µm	1030	520
3680-4002 *	200-400mm	2.5mm	7µm	430	220
3680-6002 *	400-600mm	2.5mm	9µm	630	323
3680-8002 *	600-800mm	2.5mm	9µm	830	423
3680-10002 *	800-1000mm	2.5mm	10µm	1030	520
3680-12002 *	1000-1200mm	2.5mm	11µm	1230	635
3680-14002 *	1200-1400mm	2.5mm	12µm	1430	735
3680-16002 *	1400-1600mm	2.5mm	18µm	1660	840
3680-18002 *	1600-1800mm	2.5mm	20µm	1870	940
3680-20002 *	1800-2000mm	2.5mm	22µm	2075	1055

* Supplied with manufacturer inspection certificate

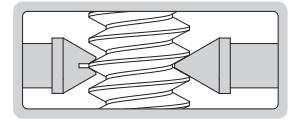
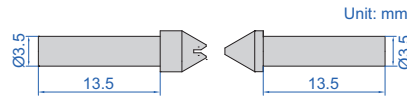
MEASURING TIPS FOR EXTERNAL SCREW THREAD MICROMETERS

INSIZE PLUS
MADE IN EUROPE

- Supplied in pair
- Made of hardened steel
- Suitable for 3680 series micrometers



7390-T104



60° thread angle

Code	Pitch
7390-T101	0.35-0.5mm/72-48TPI
7390-T102	0.6-0.8mm/44-32TPI
7390-T103	0.9-1.25mm/28-18TPI
7390-T104	1.5-2mm/16-11TPI
7390-T105	2.5-3.5mm/10-7TPI
7390-T106	4-6mm/6-4TPI

55° thread angle

Code	Pitch
7390-T201	60-48TPI
7390-T202	40-32TPI
7390-T203	28-22TPI
7390-T204	20-16TPI
7390-T205	14-11TPI
7390-T206	10-7TPI
7390-T207	6-4TPI

30° thread angle

Code	Pitch
7390-T301	1.5mm
7390-T302	2mm
7390-T303	3mm
7390-T304	4mm
7390-T305	5-6mm
7390-T306	7-8mm
7390-T307	9-10mm
7390-T308	12-14mm

SETTING STANDARDS FOR EXTERNAL SCREW THREAD MICROMETERS

INSIZE PLUS
MADE IN EUROPE

ATTENTION: WHEN PITCH <0.4MM OR >63.5TPI,
SETTING STANDARDS CANNOT BE USED TO SET ZERO,
A CALIBRATED WORK PIECE CAN BE USED INSTEAD

TIPS FOR TRAPEZOIDAL, ACME
THREAD ARE ALSO AVAILABLE



7384-A100



- Made of hardened steel
- Deviation (difference between the ordered size and the size marked on the setting standard when supplied): $\pm 20\mu\text{m}$
For example, the ordered size is 25mm, the size marked on the setting standard when supplied may be 25.015mm

60° thread angle

Code	L	Ød	Accuracy
7384-A25	25	7.8	$\pm 2.5\mu\text{m}$
7384-A50	50	7.8	$\pm 3\mu\text{m}$
7384-A75	75	7.8	$\pm 3.5\mu\text{m}$
7384-A100	100	7.8	$\pm 4\mu\text{m}$
7384-A125	125	7.8	$\pm 4.5\mu\text{m}$
7384-A150	150	7.8	$\pm 5\mu\text{m}$
7384-A175	175	7.8	$\pm 5.5\mu\text{m}$
7384-A200	200	7.8	$\pm 6\mu\text{m}$
7384-A225	225	10	$\pm 6.5\mu\text{m}$
7384-A250	250	10	$\pm 7\mu\text{m}$
7384-A275	275	10	$\pm 7.5\mu\text{m}$
7384-A300	300	10	$\pm 8\mu\text{m}$

55° thread angle

Code	L	Ød	Accuracy
7384-B25	25	7.8	$\pm 2.5\mu\text{m}$
7384-B50	50	7.8	$\pm 3\mu\text{m}$
7384-B75	75	7.8	$\pm 3.5\mu\text{m}$
7384-B100	100	7.8	$\pm 4\mu\text{m}$
7384-B125	125	7.8	$\pm 4.5\mu\text{m}$
7384-B150	150	7.8	$\pm 5\mu\text{m}$
7384-B175	175	7.8	$\pm 5.5\mu\text{m}$
7384-B200	200	7.8	$\pm 6\mu\text{m}$
7384-B225	225	10	$\pm 6.5\mu\text{m}$
7384-B250	250	10	$\pm 7\mu\text{m}$
7384-B275	275	10	$\pm 7.5\mu\text{m}$
7384-B300	300	10	$\pm 8\mu\text{m}$

SCREW THREAD MICROMETERS

NON-ROTATING SPINDLE

6

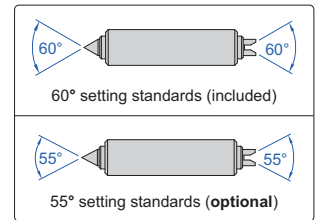
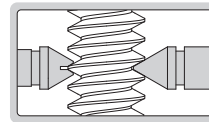


3281-25A
(measuring tips are optional)



3281-S25
(measuring tips are included)

- 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



Measuring tips are optional (mm)

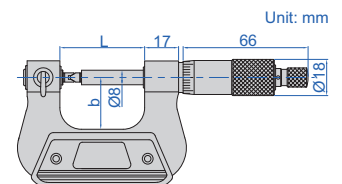
Code	Range	L	b	55° setting standard (optional)
3281-25A	0-25mm	42	26	—
3281-50A	25-50mm	67	38	3281-SP1
3281-75A	50-75mm	92	50	3281-SP2
3281-100A	75-100mm	117.6	62	3281-SP3
3281-125A	100-125mm	143	70	3281-SP4
3281-150A	125-150mm	168.2	82	3281-SP5
3281-175A	150-175mm	192	94.5	3281-SP6
3281-200A	175-200mm	217	107	3281-SP7
3281-225A	200-225mm	242	130	3281-SP8
3281-250A	225-250mm	267	142	3281-SP9
3281-275A	250-275mm	291	155	3281-SP10
3281-300A	275-300mm	317	167	3281-SP11

Measuring tips are included (mm)

Code	Range	L	b	Measuring tips (included)	55° setting standard (optional)
3281-S25	0-25mm	42	26	6 pairs of measuring tips: metric and unified thread (60° thread angle) 0.4-0.5mm/64-48TPI, 0.6-0.9mm/44-28TPI, 1-1.75mm/24-14TPI, 2-3mm/13-9TPI, 3.5-5mm/8-5TPI, 5.5-7mm/4.5-3.5TPI	—
3281-S50	25-50mm	67	38		3281-SP1
3281-S75	50-75mm	92	50		3281-SP2
3281-S100	75-100mm	117.6	62		3281-SP3
3281-S125	100-125mm	143	70		3281-SP4
3281-S150	125-150mm	168.2	82		3281-SP5
3281-S175	150-175mm	192	94.5		3281-SP6
3281-S200	175-200mm	217	107		3281-SP7
3281-S225	200-225mm	242	130		3281-SP8
3281-S250	225-250mm	267	142		3281-SP9
3281-S275	250-275mm	291	155		3281-SP10
3281-S300	275-300mm	317	167	3281-SP11	

accuracy of micrometers with tips (mm)

Pitch	Range							
	0-25	25-50	50-75	75-100	100-125	125-200	200-225	225-300
0.4~0.5	±0.01	-	-	-	-	-	-	-
0.6~0.8	±0.01	±0.013	-	-	-	-	-	-
1~1.25	±0.012	±0.015	±0.017	±0.017	-	-	-	-
1.5~2.0	±0.014	±0.017	±0.019	±0.019	±0.020	±0.023	±0.025	±0.028
2.5~3.5	±0.016	±0.019	±0.021	±0.021	±0.023	±0.025	±0.028	±0.031
4.0~7.0	-	±0.021	±0.023	±0.023	±0.025	±0.028	±0.031	±0.033



DATA
OUTPUT

NON-ROTATING
SPINDLE

DIGITAL SCREW THREAD MICROMETERS



3581-25A
(measuring tips are optional)

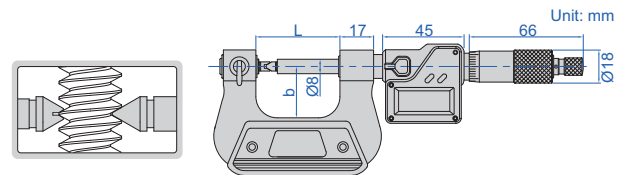


3581-S25
(measuring tips are included)

Measuring tips are optional (mm)

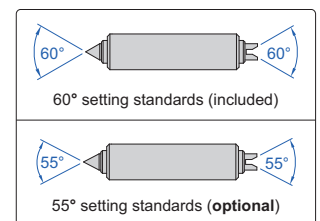
Code	Range	L	b	55° setting standard (optional)
3581-25A	0-25mm/0-1"	42	26	-
3581-50A	25-50mm/1-2"	67	38	3281-SP1
3581-75A	50-75mm/2-3"	92	50	3281-SP2
3581-100A	75-100mm/3-4"	117.6	62	3281-SP3
3581-125A	100-125mm/4-5"	143	70	3281-SP4
3581-150A	125-150mm/5-6"	168.2	82	3281-SP5
3581-175A	150-175mm/6-7"	192	94.5	3281-SP6
3581-200A	175-200mm/7-8"	217	107	3281-SP7
3581-225A	200-225mm/8-9"	242	130	3281-SP8
3581-250A	225-250mm/9-10"	267	142	3281-SP9
3581-275A	250-275mm/10-11"	291	155	3281-SP10
3581-300A	275-300mm/11-12"	317	167	3281-SP11

- Measure pitch diameter of screw threads
- Resolution 0.001mm/0.00005"
- Button function: on/off, set, mm/inch, data transmit
- Data output
- Automatic power off
- Non-rotating spindle
- Ratchet stop
- Supplied with 60° setting standards (except 0-25mm/0-1")
- Optional accessory: 55° setting standards, wireless transmitter code **7315-31** (receiver is needed) page 6, bluetooth transmitter code **7214-31** page 12, data output cable code **7302-31** page 20



Measuring tips are included (mm)

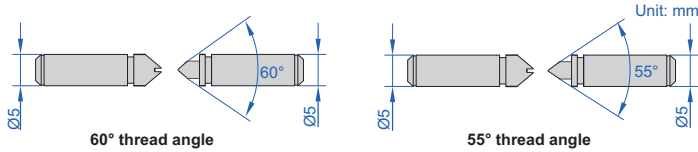
Code	Range	L	b	Measuring tips (included)	55° setting standard (optional)
3581-S25	0-25mm/0-1"	42	26	6 pairs of measuring tips: metric and unified thread (60° thread angle) 0.4-0.5mm/64-48TPI, 0.6-0.9mm/44-28TPI, 1-1.75mm/24-14TPI, 2-3mm/13-9TPI, 3.5-5mm/8-5TPI, 5.5-7mm/4.5-3.5TPI	-
3581-S50	25-50mm/1-2"	67	38		3281-SP1
3581-S75	50-75mm/2-3"	92	50		3281-SP2
3581-S100	75-100mm/3-4"	117.6	62		3281-SP3
3581-S125	100-125mm/4-5"	143	70		3281-SP4
3581-S150	125-150mm/5-6"	168.2	82		3281-SP5
3581-S175	150-175mm/6-7"	192	94.5		3281-SP6
3581-S200	175-200mm/7-8"	217	107		3281-SP7
3581-S225	200-225mm/8-9"	242	130		3281-SP8
3581-S250	225-250mm/9-10"	267	142		3281-SP9
3581-S275	250-275mm/10-11"	291	155		3281-SP10
3581-S300	275-300mm/11-12"	317	167	3281-SP11	



accuracy of micrometers with tips (mm)

Pitch	Range							
	0-25	25-50	50-75	75-100	100-125	125-200	200-225	225-300
0.4~0.5	±0.01	-	-	-	-	-	-	-
0.6~0.8	±0.01	±0.013	-	-	-	-	-	-
1~1.25	±0.012	±0.015	±0.017	±0.017	-	-	-	-
1.5~2.0	±0.014	±0.017	±0.019	±0.019	±0.020	±0.023	±0.025	±0.028
2.5~3.5	±0.016	±0.019	±0.021	±0.021	±0.023	±0.025	±0.028	±0.031
4.0~7.0	-	±0.021	±0.023	±0.023	±0.025	±0.028	±0.031	±0.033

MEASURING TIPS FOR SCREW THREAD MICROMETERS



7381-T13

- Supplied in pair
- Suitable for 3281, 3581 series micrometers

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

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

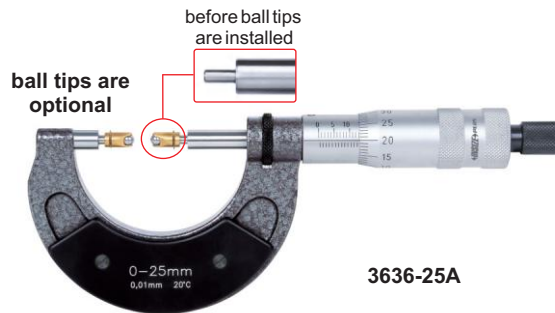
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EXTERNAL GEAR TOOTH MICROMETERS

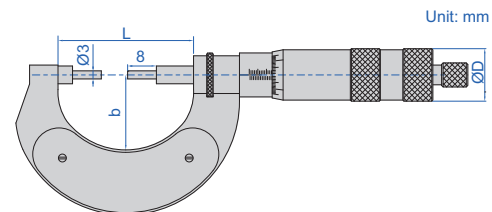
INSIZE PLUS
MADE IN EUROPE

INSPECTION
CERTIFICATE

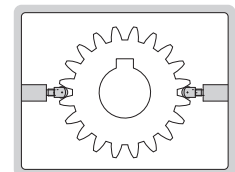
ATTENTION: SETTING
STANDARDS ARE NOT INCLUDED



3636-25A



- Meet DIN863-3
- Measure over-pin diameter of gears
- Graduation 0.01mm
- Ratchet stop
- Optional accessory: ball tips (code 7383), setting standards (code 7386)



Code	Range	Accuracy	L	b	ØD
3636-25A*	0-25mm	3µm	62	34	20
3636-50A*	25-50mm	3µm	87	46	20
3636-75A*	50-75mm	4µm	112	60	20
3636-100A*	75-100mm	4µm	139	72	20
3636-125A*	100-125mm	5µm	164	85	20
3636-150A*	125-150mm	5µm	190	97	20
3636-175A*	150-175mm	5µm	215	110	20
3636-200A*	175-200mm	5µm	240	122	20

Code	Range	Accuracy	L	b	ØD
3636-225A*	200-225mm	6µm	264	135	20
3636-250A*	225-250mm	6µm	290	148	20
3636-300A*	250-300mm	6µm	325	165	24
3636-350A*	300-350mm	7µm	370	190	24
3636-400A*	350-400mm	7µm	430	220	24
3636-450A*	400-450mm	8µm	475	250	24
3636-500A*	450-500mm	8µm	530	273	24
3636-550A*	500-550mm	9µm	570	291	24
3636-600A*	550-600mm	9µm	630	323	24

*Supplied with manufacturer inspection certificate