

Gear Tooth Micrometers

SERIES 324 — Interchangeable Ball Anvil/Spindle Tip Type

- This specialized micrometer series measures gear over-pin diameters. Attach optional ball probes to each measuring face before use.
- Determination of the over-pin diameter: refer to "Quick Guide to Precision Measuring Instruments" on page 02-80.
- Interchangeable ball anvils/spindle tips for various gear modules (0.5 to 5.25) are optional.

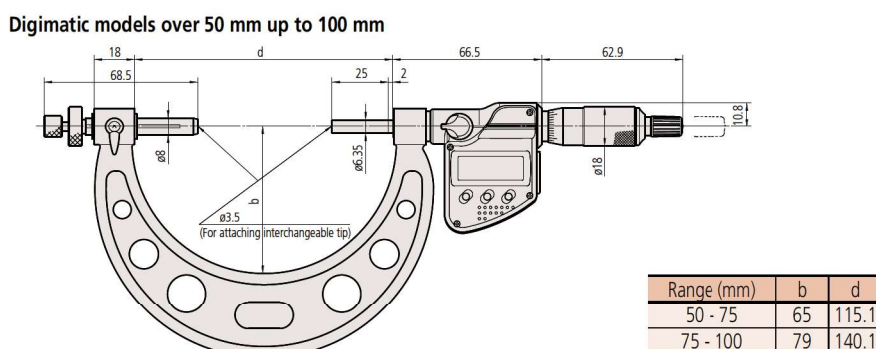
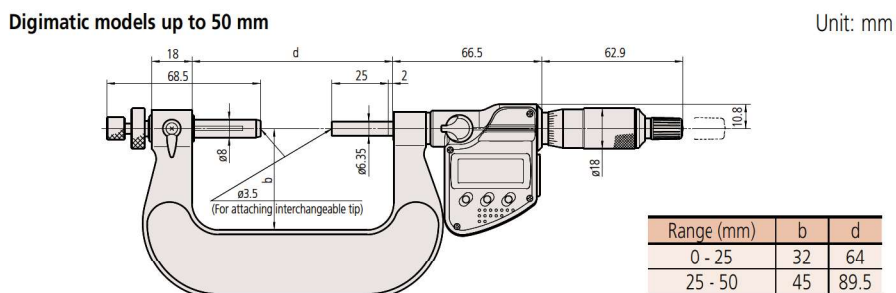


SPECIFICATIONS

Metric				Inch/Metric			
Code No.	Range (mm)	Resolution (mm)	Spindle feed error (μm)	Code No.	Range (in)	Resolution	Spindle feed error (in)
With SPC data output				With SPC data output			
324-251-30	0 - 25	0.001	3	324-351-30	0 - 1	0.00005 in/ 0.001 mm	0.00015
324-252-30	25 - 50			324-352-30	1 - 2		
324-253-30	50 - 75			324-353-30	2 - 3		
324-254-30	75 - 100			324-354-30	3 - 4		

- Power source: SR44 battery (1 pc.), **938882** included as standard (for operational checks)
 - Battery life: Approx. 2.4 years under normal use
 - Position detection method: Electromagnetic rotary sensor
 - Standard accessories: Setting standard, 1 pc. (except for measuring range 0 to 25 mm (0 to 1 in) models), Spanner (**301336**), 1 pc.
- Note: For functional details, refer to page 02-7.
- Please note that origin setting of these models is by presetting. Optional connection cable is available only for water-proof type (Digimatic model).

DIMENSIONS



Measurement example



Optional Accessories

Code No.	Type	Description
264-020	—	USB Input Tool Series USB Keyboard Signal Conversion Type IT-020U
05CZA662	B	Connection cable (1 m)
05CZA663	B	Connection cable (2 m)
06AFM380B	B	USB Input Tool Direct (2 m)
02AZD730G	IP67	U-WAVE-T
02AZD880G	Buzzer	U-WAVE-T
02AZE200	—	U-WAVE-T mounting bracket
02AZD790B	B	Connection cable for U-WAVE-T (160 mm)
02AZE140B	B	Connection cable for U-WAVE-T For foot switch
264-622	IP67	U-WAVE-TM
264-623	Buzzer	U-WAVE-TM
264-626	IP67	U-WAVE-TMB
264-627	Buzzer	U-WAVE-TMB
02AZF310	IP67	Connecting unit for U-WAVE-TM/TMB

Gear Tooth Micrometers SERIES 124 — Interchangeable Ball Anvil/Spindle Tip Type

Optional Accessories

- Interchangeable ball anvil/spindle tip set

Code No.	Diameter* (mm)	Gear module	Dia. pitch
124-801	0.8	0.5 - 0.55	50
124-802	1.0	0.6 - 0.65	45
124-803	1.191 ($\frac{3}{64}$ in)	0.7 - 0.8	35 - 30
124-821	1.5	0.9 - 1	28 - 26
124-804	1.588 ($\frac{1}{16}$ in)	0.9 - 1	28 - 26
124-805	2.0	1.25	22
124-806	2.381 ($\frac{3}{32}$ in)	1.5	17
124-822	2.5	1.5	17
124-807	3.0	1.75	15
124-808	3.175 ($\frac{1}{8}$ in)	—	14
124-823	3.5	2	13
124-809	3.969 ($\frac{5}{32}$ in)	2	13
124-810	4.0	2.25	11
124-824	4.5	2.5	10
124-811	4.763 ($\frac{3}{16}$ in)	2.5	10
124-812	5.0	2.75	9
124-813	5.556 ($\frac{7}{32}$ in)	3.0 - 3.25	8
124-814	6.0	3.5	7
124-815	6.35 ($\frac{1}{4}$ in)	3.75	7
124-816	7.0	4.0	6.5
124-817	7.144 ($\frac{9}{32}$ in)	4.25	6
124-818	7.938 ($\frac{5}{16}$ in)	4.5	5.5
124-819	8.0	4.75	5.5
124-820	8.731 ($\frac{11}{32}$ in)	5.0 - 5.25	5

* 2 mm less for carbide-tipped type

- Intended for making over-pin diameter measurements on gears using precision ball anvils/spindle tips (optional).
- Determination of the over-pin diameter: refer to "Quick Guide to Precision Measuring Instruments" on page 02-80.
- Interchangeable ball anvils/spindle tips for various gear modules (0.5 to 5.25) are optional.
- Equipped with Ratchet Stop for constant measuring force.



124-173

SPECIFICATIONS

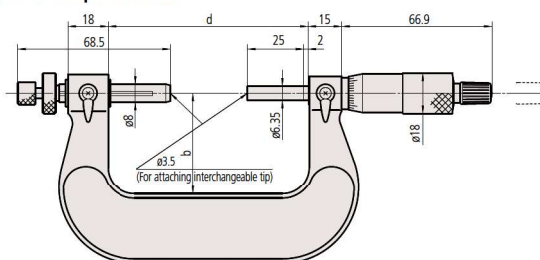
Metric			
Code No.	Range (mm)	Graduation (mm)	Spindle feed error (μm)
124-173	0 - 25	0.01	3
124-174	25 - 50		
124-175	50 - 75		
124-176	75 - 100		
124-177	100 - 125		
124-178	125 - 150		
124-179	150 - 175		
124-180	175 - 200		
124-181	200 - 225		
124-182	225 - 250		
124-183	250 - 275		
124-195	275 - 300		

- Standard accessories: Setting standard, 1 pc. (except for measuring range 0 to 25 mm models), Spanner (301336), 1 pc.

DIMENSIONS

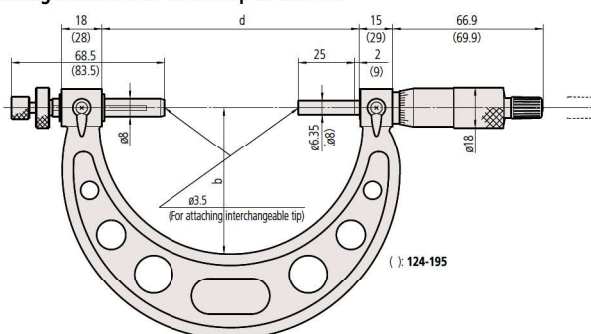
Analog models up to 50 mm

Unit: mm



Range (mm)	b	d
0 - 25	32	64
25 - 50	45	89.5

Analog models over 50 mm up to 300 mm



Range (mm)	b	d
50 - 75	65	115.1
75 - 100	79	140.1
100 - 125	93	165.1
125 - 150	105	190
150 - 175	118	214
175 - 200	131	240
200 - 225	144	265
225 - 250	156	290
250 - 275	169	314
275 - 300	187	352