

# Gear Tooth Micrometers

## SERIES 324, 124 — Interchangeable Ball Anvil-Spindle Tip Type



### FEATURES

- IP65 water/dust protection (324 series).
- Measures over-pin diameter of gears with precision steel (carbide) ball-tipped measuring faces.
- With a standard bar except 0 - 25mm and 0 - 1" model
- Interchangeable ball anvil-spindle tips for various gear modules (0.5 - 5.25) are optional.
- With Ratchet Stop for constant force.
- With SPC output (Series 324).
- Supplied in fitted plastic case (0 - 150mm / 4" model 008 150mm model are wooden case).



**324-351-10**  
Shown with optional ball anvils



**124-173**  
Shown with optional ball anvils

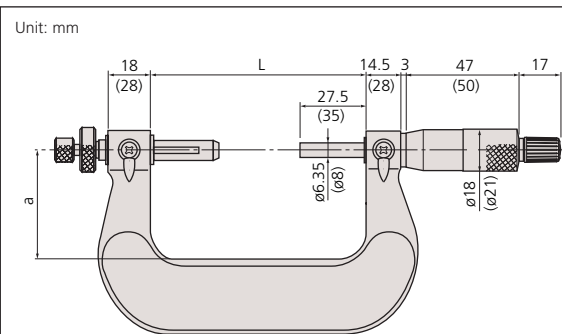
### SPECIFICATIONS

Metric		Digital model		
Range	Resolution	Order No.	Accuracy	Mass (g)
0 - 25mm	0.001mm	<b>324-251-10</b>	±4µm	400
25 - 50mm	0.001mm	<b>324-252-10</b>	±4µm	490
50 - 75mm	0.001mm	<b>324-253-10</b>	±4µm	530
75 - 100mm	0.001mm	<b>324-254-10</b>	±5µm	600

Inch/Metric		Digital model		
Range	Resolution	Order No.	Accuracy	Mass (g)
0 - 1" / 0 - 25mm	.00005"/0.001mm	<b>324-351-10</b>	±.0002"	400
1 - 2" / 25 - 50mm	.00005"/0.001mm	<b>324-352-10</b>	±.0002"	490
2 - 3" / 50 - 75mm	.00005"/0.001mm	<b>324-353-10</b>	±.0002"	530
3 - 4" / 75 - 100mm	.00005"/0.001mm	<b>324-354-10</b>	±.00025"	600

Metric				
Range	Graduation	Order No.	Accuracy	Mass (g)
0 - 25mm	0.01mm	<b>124-173</b>	±4µm	295
25 - 50mm	0.01mm	<b>124-174</b>	±4µm	400
50 - 75mm	0.01mm	<b>124-175</b>	±4µm	460
75 - 100mm	0.01mm	<b>124-176</b>	±5µm	540
100 - 125mm	0.01mm	<b>124-177</b>	±5µm	640
125 - 150mm	0.01mm	<b>124-178</b>	±5µm	760
150 - 175mm	0.01mm	<b>124-179</b>	±6µm	900
175 - 200mm	0.01mm	<b>124-180</b>	±6µm	1060
200 - 225mm	0.01mm	<b>124-181</b>	±6µm	1230
225 - 250mm	0.01mm	<b>124-182</b>	±7µm	1430
250 - 275mm	0.01mm	<b>124-183</b>	±7µm	1620
275 - 300mm	0.01mm	<b>124-195</b>	±7µm	2070

### DIMENSIONS AND MASS



( ): 275-300mm model

Range	L	a	Mass (g)
0 - 25mm	64.5	32	295
25 - 50mm	90	45	400
50 - 75mm	115.6	65	460
75 - 100mm	140.6	79	540
100 - 125mm	165.6	93	640
125 - 150mm	190.5	105	760
150 - 175mm	215.5	120	900
175 - 200mm	240.5	130	1060
200 - 225mm	265.5	147	1230
225 - 250mm	290.5	165	1430
250 - 275mm	315.5	171	1620
275 - 300mm	353	187	2070

### Technical Data

Accuracy: Refer to the list of specifications.  
(excluding quantizing error for digital models)  
Resolution\*: 0.001mm or .00005"/0.001mm  
Graduation\*\*: 0.01mm  
Display\*: LCD  
Battery\*: SR44 (1 pc.), **938882**  
Battery life\*: Approx. 1.2 years under normal use  
Dust/Water protection level\*: IP65  
\*Digital models \*\*Analog models

### Function of Digital Model

Zero / ABS, Data hold, Data output, Preset, inch/mm conversion (on inch/metric models only)  
Alarm: Low voltage, Counting value composition error  
Function Lock  
2 Presets

### Optional Accessories

- 05CZA662**: SPC cable with data switch (1m / 40")\*
  - 05CZA663**: SPC cable with data switch (2m / 80")\*
- \*Only for digital models

Interchangeable ball anvil-spindle tip set:



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

\*Carbide-tipped type