

Gear Tooth Micrometers

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

FEATURES

- IP65 water/dust protection (Series 324).
- 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
- Non-slip grip finish (digital models)
- 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 (Models over 150mm have wooden case).



SPECIFICATIONS

Metric Digital model				
Range	Resolution	Order No.	Accuracy	Mass (g)
0 - 25mm	0.001mm	324-251-30	±4μm	400
25 - 50mm	0.001mm	324-252-30	±4μm	490
50 - 75mm	0.001mm	324-253-30	±4μm	530
75 - 100mm	0.001mm	324-254-30	±5μm	600

Inch/Metric Digital model				
Range	Resolution	Order No.	Accuracy	Mass (g)
0 - 1" / 0 - 25mm	.00005" / 0.001mm	324-351-30	±.0002"	400
1 - 2" / 25 - 50mm	.00005" / 0.001mm	324-352-30	±.0002"	490
2 - 3" / 50 - 75mm	.00005" / 0.001mm	324-353-30	±.0002"	530
3 - 4" / 75 - 100mm	.00005" / 0.001mm	324-354-30	±.00025"	600

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



DIMENSIONS AND MASS

Unit: mm			
(:) 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
 Resolution*: 0.001mm or .00005"/0.001mm
 Graduation**: 0.01mm
 Display*: LCD
 Battery*: SR44 (1 pc.), **938882**
 Battery life*: Approx. 2.4 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)
 Function Lock, 2 Presets
 Alarm: Low voltage, Counting value composition error

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	124-801*	0.5 - 0.55	50
1mm	124-802*	0.6 - 0.65	45
1.191mm (3/64")	124-803*	0.7 - 0.8	35 - 30
1.5mm	124-821*	0.9 - 1	28 - 26
1.588mm (1/16")	124-804*	0.9 - 1	28 - 26
2mm	124-805*	1.25	22
2.381mm (3/32")	124-806	1.5	17
2.5mm	124-822	1.5	17
3mm	124-807	1.75	15
3.175mm (1/8")	124-808	—	14
3.5mm	124-823	2	13
3.969mm (5/32")	124-809	2	13
4mm	124-810	2.25	11
4.5mm	124-824	2.5	10
4.763mm (3/16")	124-811	2.5	10
5mm	124-812	2.75	9
5.556mm (7/32")	124-813	3.0 - 3.25	8
6mm	124-814	3.5	7
6.35mm (1/4")	124-815	3.75	7
7mm	124-816	4.0	6.5
7.144mm (9/32")	124-817	4.25	6
7.938mm (5/16")	124-818	4.5	5.5
8mm	124-819	4.75	5.5
8.731mm (11/32")	124-820	5.0 - 5.25	5

*Carbide-tipped type