

Micrometer

The origin of Mitutoyo's trustworthy brand of small tool instruments

Gear Tooth Micrometers SERIES 324, 124 — Interchangeable Ball Anvil/Spindle Tip Type

MeasurLink **ENABLED**
Data Management Software by Mitutoyo

- Measures over-pin diameter of gears using precision steel (or carbide) ball anvils/spindle tips.
- Series 324:** IP65 Digimatic gear tooth micrometers.
- Determination of the over-pin diameter: refer to "Quick Guide to Precision Measuring Instruments".
- Interchangeable ball anvils/spindle tips for various gear modules (0.5-5.25) are optional.
- Equipped with Ratchet Stop for constant measuring force.
- Ball anvil/spindle tips: optional.



SPECIFICATIONS

Metric			
Order No.	Range (mm)	Resolution (mm)	Accuracy* (μm)
Digimatic (LCD)			
324-251-30	0 - 25	0.001	±4
324-252-30	25 - 50		
324-253-30	50 - 75		
324-254-30	75 - 100		±5

* Excluding quantizing error of ±1 count

Note: For functional details of **series 324** refer to page B-8.

Please note that origin setting of these models is by presetting. Optional connecting cable is available only for water-proof type (Digimatic model).

Metric			
Order No.	Range (mm)	Graduation (mm)	Accuracy (μm)
Analog			
124-173	0 - 25	0.01	±4
124-174	25 - 50		
124-175	50 - 75		
124-176	75 - 100		±5
124-177	100 - 125		
124-178	125 - 150		
124-179	150 - 175		±6
124-180	175 - 200		
124-181	200 - 225		
124-182	225 - 250		±7
124-183	250 - 275		
124-195	275 - 300		

Inch / Metric			
Order No.	Range (in)	Resolution	Accuracy* (in)
Digimatic (LCD)			
324-351-30	0 - 1	0.00005 in/ 0.001 mm	±0.0002
324-352-30	1 - 2		
324-353-30	2 - 3		
324-354-30	3 - 4		±0.00025

* Excluding quantizing error of ±1 count

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Products equipped with the measurement data output function can be connected to the measurement data network system MeasurLink (refer to page A-5 for details).



These marks indicate that a product has successfully passed IP65-level testing, which is carried out by the independent German certification organization TÜV Rheinland.



IP Codes (series 324)

Level 6: Dust-proof.

No ingress of dust allowed.

Level 5: Protected against water jets.

Water projected in jets against the enclosure from any direction shall have no harmful effects.



Optional Accessories

- Interchangeable ball anvil/spindle tip set

Order 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 ($\frac{3}{64}$ ")	0.7 - 0.8	35 - 30
124-821	1.5	0.9 - 1	28 - 26
124-804	1.588 ($\frac{1}{16}$ ")	0.9 - 1	28 - 26
124-805	2.0	1.25	22
124-806	2.381 ($\frac{3}{32}$ ")	1.5	17
124-822	2.5	1.5	17
124-807	3.0	1.75	15
124-808	3.175 ($\frac{1}{8}$ ")	—	14
124-823	3.5	2	13
124-809	3.969 ($\frac{5}{32}$ ")	2	13
124-810	4.0	2.25	11
124-824	4.5	2.5	10
124-811	4.763 ($\frac{3}{16}$ ")	2.5	10
124-812	5.0	2.75	9
124-813	5.556 ($\frac{7}{32}$ ")	3.0 - 3.25	8
124-814	6.0	3.5	7
124-815	6.35 ($\frac{1}{4}$ ")	3.75	7
124-816	7.0	4.0	6.5
124-817	7.144 ($\frac{9}{32}$ ")	4.25	6
124-818	7.938 ($\frac{5}{16}$ ")	4.5	5.5
124-819	8.0	4.75	5.5
124-820	8.731 ($\frac{11}{32}$ ")	5.0 - 5.25	5

* 2 mm less for carbide-tipped type

Technical Data

- Battery for **series 324**
SR44 (1 pc.), **938882**, for initial operational checks (standard accessory)
- Battery life: Approx. 2.4 years under normal use (for **series 324**)
- Length standard: Electromagnetic rotary sensor (for **series 324**)
- Standard accessories: Reference bar, 1 pc.
(except for measuring range 0-25 mm (0-1 in) models)
Spanner (**301336**), 1 pc.

Optional Accessories for Series 324

- Connecting cables for **series 324**
1 m: **05CZA662**
2 m: **05CZA663**
- USB Input Tool Direct
USB-ITN-B (2 m): **06AFM380B**
- U-WAVE-T** dedicated connection cable
160 mm: **02AZD790B**
For foot switch: **02AZE140B**
Refer to page A-25 for details.

Wireless Data Output **U-WAVE** fit

- U-WAVE-TM 264-622** (IP67 type)
264-623 (Buzzer type)
- Connecting unit for **U-WAVE-TM**
02AZF310 (IP67/buzzer type common specification)
Refer to page A-15 for details.