

Ratchet Thimble type that has improved operability with one hand



SPECIFICATIONS

Metric							
	Order No.	Range	Accuracy	Parallelism	Measuring force	constant-force device	Mass
With SPC data output	293-230-30	0 - 25mm	±1µm	1µm	5 - 10N	With ratchet stop	270g
	293-231-30	25 - 50mm					330g
	293-232-30	50 - 75mm	±2µm	2µm			470g
	293-233-30	75 - 100mm					625g
	293-234-30	0 - 25mm	±1µm	1µm			280g
	293-235-30	25 - 50mm					340g
	293-236-30	50-75mm	±2µm	2µm			480g
293-237-30	75-100mm	635g					
Without SPC data output	293-240-30	0 - 25mm	±1µm	1µm	5 - 10N	With ratchet stop	270g
	293-241-30	25 - 50mm					330g
	293-242-30	50 - 75mm	±2µm	2µm			470g
	293-243-30	75 - 100mm					625g
	293-244-30	0 - 25mm	±1µm	1µm			280g
	293-245-30	25 - 50mm					340g
	293-246-30	50-75mm	±2µm	2µm			480g
	293-247-30	75-100mm					635g

Metric Micrometer Set		
Range	Order No.	Included in set
0-50mm (2pcs. Set)	293-966-30	293-230-30, 293-231-30, 25mm CERA block, plastic case
0-75mm (3pcs. Set)	293-962-30	293-230-30, 293-231-30, 293-232-30, 2 standard bars, plastic case
0-100mm (4pcs. Set)	293-963-30	293-230-30, 293-231-30, 293-232-30, 293-233-30, 3 standard bars, wooden box

Inch/Metric									
	Order No.	Range	Accuracy	Parallelism	Measuring force	constant-force device	Mass		
With SPC data output	293-330-30	0-1"	±.00005"	.00004"	5-10N	With ratchet stop	270g		
	293-331-30	1-2"					330g		
	293-332-30	2-3"	±.0001"	.00008"			470g		
	293-333-30	3-4"					625g		
	293-334-30	0-1"	±.00005"	.00004"			7-12N*	With ratchet thimble	280g
	293-335-30	0-1"					275g		
	293-336-30	1-2"	±.00005"	.00004"			5-10N	With friction thimble	335g
293-340-30	0-1"	270g							
Without SPC data output	293-341-30	1-2"	±.00005"	.00004"	5-10N	With ratchet stop	330g		
	293-342-30	2-3"					±.0001"	.00008"	470g
	293-343-30	3-4"	±.00005"	.00004"					625g
	293-344-30	0-1"					±.00005"	.00004"	280g
	293-345-30	1-2"	±.00005"	.00008"					340g
	293-346-30	2-3"					±.0001"	.00008"	480g
	293-347-30	3-4"	±.00005"	.00004"					635g
	293-348-30	0-1"					±.00005"	.00004"	5 - 10N
	293-349-30	0-1"	±.0001"	7 - 12N*					With ratchet thimble

* Measuring force in the case of using the Speeder ratchet
Prior to measurement, apply a measuring force in the same condition to align the index line with the thimble zero line.

Inch/Metric Micrometer Set .00005" / 0.001mm graduation model		
Range	Order No.	Included in set
0 - 3" / 0 - 76.2mm (3 pcs. set)	293-960-30	293-330-30, 293-331-30, 293-332-30, 2 standard bars, plastic case
0 - 4" / 0 - 101.6mm (4 pcs. set)	293-961-30	293-330-30, 293-331-30, 293-332-30, 293-333-30, 3 standard bars, wooden box



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

IP Codes

- 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.

Technical Data

- **Resolution:** .00005" / 0.001mm
- **Quantizing error:** ±1 is not included.
- **Flatness:** .000012" / 0.3 µm
- **Dust/water protection level:** IP65 (IEC60529) *2
- **Measuring system:** Electromagnetic induction type rotary sensor
- **Battery:** SR44 (1 pc), 938882, for initial operational checks (standard accessory)
- **Battery life:** Approx. 2.4 years under normal use
- **Standard accessories:** Reference bar, 1 pc (except for 0-25mm (0-1") models) Spanner (301336), 1 pc

*2 Rustproofing shall be applied after use.