

M-653 · M-655 Differential Micrometer Drive

Stroke to 20 mm, Manual



- 0.1 μm Sensitivity
- 1 μm Graduations
- Travel Range up to 20 mm

Model	Travel range coarse/fine	Spindle pitch coarse/fine	Shaft \varnothing	Tip \varnothing	Total length at 0 mm
M-653.00	5/0.2 mm	0.4/0.02 mm	6 mm	3 mm	56 mm
M-655.00	20/1.0 mm	0.5/0.05 mm	12 mm	6,8 mm	112 mm

M-631 · M-632 · M-633 Micrometer Drive

Non-Rotating Tip, Optional Piezo Drive, Manual



- 10, 25 and 50 mm Travel Range
- Pitch 0.5 mm/rev.
- Low-Friction Construction
- 1 μm Manual Sensitivity
- Sub-nm Resolution with Optional PZT Actuator

Model	Travel range	Max. push/ pull force	Tip \varnothing	Shaft \varnothing	Total length at 0 mm
M-631.00	10 mm	50 N	12 mm	16 mm	76 mm
M-632.00	25 mm	50 N	12 mm	16 mm	110.5 mm
M-633.00	50 mm	50 N	12 mm	16 mm	170.5 mm

M-619 – M-626 Precision Micrometer Drive

Stroke to 25 mm, Manual



- 1 μm Sensitivity
- 10 μm Graduations
- Model M-626.05 with Lockable Spindle

Model	Travel range	Shaft \varnothing	Tip \varnothing	Total length at 0 mm
M-619.00	6.5 mm	6 mm	3.5 mm	37 mm
M-619.10	6.5 mm	6 mm	3.5 mm	44.5 mm
M-620.00	10 mm	6 mm	3 mm	44 mm
M-621.00	10 mm	8 mm	5 mm	45 mm
M-622.00	15 mm	10 mm	5.5 mm	63 mm
M-623.00	15 mm	12 mm	5.5 mm	69 mm
M-626.00 & M-626.05	18 mm	6 mm	3 mm	53 mm
M-626.10	18 mm	6 mm	3 mm	64.5 mm
M-624.00	25 mm	12 mm	6.8 mm	87 mm

M-619 – M-626

Micrometer Drives with Rotating Tips



Micrometer drives with rotating tips

- 1 μm Sensitivity
- 10 μm Graduations
- Travel up to 25 mm
- Model M-626.05 with Lockable Spindle

These PI precision micrometer drives comply with the DIN 863 precision standard. The 0.5 mm pitch threads are ground into the through-hardened spindle. M-619 micrometers feature flat

tips, the other micrometers come with spherical tips. The scale rises with retracting spindle, with maximum length at the zero position.

Ordering Information

M-619.00
Micrometer Drive with 6.5 mm Travel,
6 mm Shaft ϕ

M-619.10
Micrometer Drive with 6.5 mm Travel,
6 mm Shaft ϕ

M-620.00
Micrometer Drive with 10 mm Travel,
6 mm Shaft ϕ

M-621.00
Micrometer Drive with 10 mm Travel,
8 mm Shaft ϕ

M-622.00
Micrometer Drive with 15 mm Travel,
10 mm Shaft ϕ

M-623.00
Micrometer Drive with 15 mm Travel,
12 mm Shaft ϕ

M-626.00
Micrometer Drive with 18 mm Travel,
6 mm Shaft ϕ

M-626.05
Micrometer Drive with 18 mm Travel,
6 mm Shaft ϕ , Lockable Spindle

M-626.10
Micrometer Drive with 18 mm Travel,
6 mm Shaft ϕ

M-624.00
Micrometer Drive with 25 mm Travel,
12 mm Shaft ϕ

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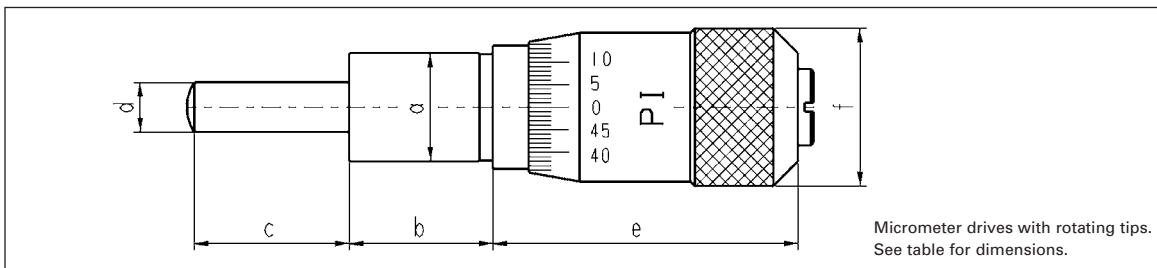
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Micrometer drives with rotating tips. See table for dimensions.

Technical Data

Models	M-619.00 / M-619.10	M-620.00 / M-621.00	M-622.00 / M-623.00	M-626.00* / M-626.10	M-624.00	Units
Range	6.5 / 6.5	10 / 10	15 / 15	18 / 18	25	mm
Pitch	0.5 / 0.5	0.5 / 0.5	0.5 / 0.5	0.5 / 0.5	0.5	mm
Scale Reading	0.01 / 0.01	0.01 / 0.01	0.01 / 0.01	0.01 / 0.01	0.01	mm
Shaft ϕ (a)	6 / 6	6 / 8	10 / 12	6 / 6	12	mm
Shaft Length (b)	6 / 6	7 / 8	10 / 16	7 / 7	16	mm
Tip at 0 mm (c)	9 / 16.5	13 / 13	18 / 18	19 / 30.5	28	mm
Tip ϕ (d)	3.5 / 3.5	3 / 5	5.5 / 5.5	3 / 3	6.8	mm
Thimble at 0 mm (e)	22 / 22	24 / 24	35 / 35	27 / 27	43	mm
Thimble ϕ (f)	9.5 / 9.5	15 / 15	17 / 17	13 / 13	17	mm

* Model M-626.05 with lockable spindle