

Disk Micrometers

SERIES 369, 227, 169 — Non-Rotating Spindle Type

FEATURES

- The Disk Micrometer is designed to easily measure root tangent length of spur gears and helical gears.
- Non-rotating spindle eliminates torque on workpiece.
- With standard bar except 0 - 15mm, 0 - .6" 0 - 25mm, 0 - 1", 0 - 300mm & 0 - 1.2" model
- Speedy spindle feed of 10mm/rev. (Quickmike type).
- Diameter of measuring disk: 20mm / .787"
- With Ratchet Stop for constant force.
- With SPC output (Series 369).
- Supplied in fitted plastic case



369-350



Quickmike type

369-421

Quickmike type with adjustable measuring force



227-221



169-201

ABSOLUTE
Mitsuboshi System Powered by MPE/OTD

IP54
ABSOLUTE
Mitsuboshi System Powered by MPE/OTD



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 or .001"
Flatness: 1μm / .00004"
Parallelism: 4μm / .00016" for models up to 50mm / 2"
6μm / .00024" for models over 50mm / 2"
Measurable module: 0.5-6
Display*: LCD
Battery*: SR44 (1 pc.), **938882**
Battery life*: Approx. 1.2 years under normal use
(1 year: Quickmike type, 3 years: Quickmike type with fine-loading)
Series 227: Refer to page B-5 for more information.
*Digital models **Analog models

Function of Digital Model

Origin-set, Zero / ABS, Data hold, Data output, inch/mm conversion (on inch/metric models only)
Alarm: Low voltage, Counting value composition error

Optional Accessories for Digital Model

- 05CZA662**: SPC cable with data switch (1m / 40")
- 05CZA663**: SPC cable with data switch (2m / 80")
- 937387**: SPC cable for Quickmike type (1m / 40")
- 965013**: SPC cable for Quickmike type (2m 80")

SPECIFICATIONS

Metric Digital model

Range	Resolution	Order No.	Accuracy
0 - 25mm	0.001mm	369-250	±4μm
25 - 50mm	0.001mm	369-251	±4μm
50 - 75mm	0.001mm	369-252	±6μm
75 - 100mm	0.001mm	369-253	±6μm

Inch/Metric Digital model

Range	Resolution	Order No.	Accuracy
0 - 1" / 0 - 25.4mm	.00005" / 0.001mm	369-350	±.0002"
1 - 2" / 25.4 - 50.8mm	.00005" / 0.001mm	369-351	±.0002"
2 - 3" / 50.8 - 76.2mm	.00005" / 0.001mm	369-352	±.0003"
3 - 4" / 76.2 - 101.6mm	.00005" / 0.001mm	369-353	±.0003"

Metric Quickmike type

Range	Resolution	Order No.	Accuracy
0 - 30mm	0.001mm	369-411	±4μm
25 - 55mm	0.001mm	369-412	±4μm

Inch/Metric Quickmike type

Range	Resolution	Order No.	Accuracy
0 - 1.2" / 0 - 30.48mm	.00005" / 0.001mm	369-421	±.0002"
1 - 2.2" / 25.4 - 55.88mm	.00005" / 0.001mm	369-422	±.0002"

Metric Quickmike type with adjustable measuring force

Range	Resolution	Order No.	Accuracy	Measuring force
0 - 15mm	0.001mm	227-221	±4μm	0.5N - 2.5N
		227-222	±4μm	2N - 10N

Inch/Metric Quickmike type with adjustable measuring force

Range	Resolution	Order No.	Accuracy	Measuring force
0 - .6" / 0 - 15.24mm	.00005" / 0.001mm	227-231	±.0002"	0.5N - 2.5N
		227-232	±.0002"	2N - 10N

Metric

Range	Graduation	Order No.	Accuracy
0 - 25mm	0.01mm	169-201	±4μm
25 - 50mm	0.01mm	169-202	±4μm
50 - 75mm	0.01mm	169-205	±6μm
75 - 100mm	0.01mm	169-207	±6μm

Inch

Range	Graduation	Order No.	Accuracy
0 - 1"	.001"	169-203	±.0002"
1 - 2"	.001"	169-204	±.0002"
2 - 3"	.001"	169-206	±.0003"
3 - 4"	.001"	169-208	±.0003"