

# 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**  
Absolute System Powered by MPE2019

**IP54**  
**ABSOLUTE**  
Absolute System Powered by MPE2019



### 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	<b>369-250</b>	±4µm
25 - 50mm	0.001mm	<b>369-251</b>	±4µm
50 - 75mm	0.001mm	<b>369-252</b>	±6µm
75 - 100mm	0.001mm	<b>369-253</b>	±6µm

#### Inch/Metric Digital model

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

#### Metric Quickmike type

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

#### Inch/Metric Quickmike type

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

#### Metric Quickmike type with adjustable measuring force

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

#### Inch/Metric Quickmike type with adjustable measuring force

Range	Resolution	Order No.	Accuracy	Measuring force
0 - .6" / 10 - 15" mm	.00005" / 0.001mm	<b>227-231</b>	±.0002"	0.5N - 2.5N
		<b>227-232</b>	±.0002"	2N - 10N

#### Metric

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

#### Inch

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