

# Point Micrometers

**SERIES 342, 142, 112**

## FEATURES

- IP65 water/dust protection (Series 342).
- Pointed spindle and anvil for measuring the web thickness of drills, small grooves, keyways, and other hard-to-reach dimensions.
- 15 degree and 30 degree measuring points are available.
- The measuring points have approximately 0.3mm / .012" radius.
- With Ratchet Stop for constant force.
- With SPC output (Series 342).
- With digit counter (Series 142).
- With a standard bar except 0 - 1" and 0 - 25mm model.
- Supplied in fitted plastic case.

## Technical Data

Accuracy: Refer to the list of specifications.  
 Resolution\*: .00005"/0.001mm or 0.001mm  
 Graduation\*\*: .001" or 0.01mm  
 Display\*: LCD  
 Battery\*: SR44 (1 pc.), **938882**  
 Battery life\*: Approx. 1.2 years under normal use  
 Dust/Water protection level\*: IP65  
 \*Digital models \*\*Analog models

## Function of Digital Model

Origin-set, Zero / ABS, Data hold,  
 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 (40" / 1m)  
**05CZA663:** SPC cable with data switch (80" / 2m)



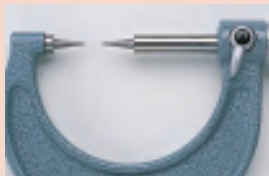
342-351



112-201



Tip angle: 15° (R0.3mm)



Tip angle: 30° (R0.3mm)



## SPECIFICATIONS

Metric Digital model (with carbide tip)					
Range	Resolution	Order No.	Accuracy	Point	Mass (g)
0 - 25mm	0.001mm	<b>342-251</b>	±2µm	15°	330
		<b>342-261</b>	±2µm	30°	330
25 - 50mm	0.001mm	<b>342-252</b>	±2µm	15°	470
		<b>342-262</b>	±2µm	30°	470
50 - 75mm	0.001mm	<b>342-253</b>	±2µm	15°	625
		<b>342-263</b>	±2µm	30°	625
75 - 100mm	0.001mm	<b>342-254</b>	±3µm	15°	565
		<b>342-264</b>	±3µm	30°	565

Metric Mechanical Counter Model					
Range	Graduation	Order No.	Accuracy	Point	Mass (g)
0 - 25mm	0.01mm	<b>142-153*</b>	±3µm	15°	260
		<b>142-201*</b>	±3µm	30°	260

\*The points don't have carbide steel tips.

Metric					
Range	Graduation	Order No.	Accuracy	Point	Mass (g)
0 - 25mm	0.01mm	<b>112-165</b>	±3µm	15°	205
		<b>112-153*</b>	±3µm	15°	205
		<b>112-213</b>	±3µm	30°	205
		<b>112-201*</b>	±3µm	30°	205
25 - 50mm	0.01mm	<b>112-166</b>	±3µm	15°	305
		<b>112-154*</b>	±3µm	15°	305
		<b>112-214</b>	±3µm	30°	305
		<b>112-202*</b>	±3µm	30°	305
50 - 75mm	0.01mm	<b>112-167</b>	±3µm	15°	370
		<b>112-155*</b>	±3µm	15°	370
		<b>112-215</b>	±3µm	30°	370
		<b>112-203*</b>	±3µm	30°	370
75 - 100mm	0.01mm	<b>112-168</b>	±4µm	15°	500
		<b>112-156*</b>	±4µm	15°	500
		<b>112-216</b>	±4µm	30°	500
		<b>112-204*</b>	±4µm	30°	500

\*The points don't have carbide steel tips.

Inch/Metric Digital model (with carbide tip)					
Range	Resolution	Order No.	Accuracy	Point	Mass (g)
0 - 1" / 0 - 25.4mm	.00005" / 0.001mm	<b>342-351</b>	±.0001"	15°	330
		<b>342-361</b>	±.0001"	30°	330
1" - 2" / 25.4 - 50.8mm	.00005" / 0.001mm	<b>342-352</b>	±.0001"	15°	470
		<b>342-362</b>	±.0001"	30°	470
2" - 3" / 50.8 - 76.2mm	.00005" / 0.001mm	<b>342-353</b>	±.0001"	15°	625
		<b>342-363</b>	±.0001"	30°	625
3" - 4" / 76.2 - 101.6mm	.00005" / 0.001mm	<b>342-354</b>	±.00015"	15°	565
		<b>342-364</b>	±.00015"	30°	565

Inch Mechanical Counter Model					
Range	Graduation	Order No.	Accuracy	Point	Mass (g)
0 - 1"	.001"	<b>142-177*</b>	±.00015"	15°	260
		<b>142-225*</b>	±.00015"	30°	260

\*The points don't have carbide steel tips.

Inch					
Range	Graduation	Order No.	Accuracy	Point	Mass (g)
0 - 1"	.001"	<b>112-189</b>	±.00015"	15°	205
		<b>112-177*</b>	±.00015"	15°	205
		<b>112-237</b>	±.00015"	30°	205
		<b>112-225*</b>	±.00015"	30°	205
1 - 2"	.001"	<b>112-190</b>	±.00015"	15°	305
		<b>112-178*</b>	±.00015"	15°	305
		<b>112-238</b>	±.00015"	30°	305
		<b>112-226*</b>	±.00015"	30°	305
2 - 3"	.001"	<b>112-191</b>	±.00015"	15°	370

\*The points don't have carbide steel tips.