



(Refer to the page 9 for details.)

### Technical Data

- Accuracy:  $\pm(4+R/75)\mu\text{m}$ , R = max. range (mm)  
(excluding quantizing error for digital models)  
\*fraction rounded up
- Resolution\*: 0.001mm or .0001"/0.001mm  
(.00005"/0.001mm: **340-351**)
- Graduation\*\*: 0.01mm
- Flatness: 0.6 $\mu\text{m}$  for models up to 300mm  
1 $\mu\text{m}$  for models over 300mm
- Parallelism: 2 $\mu\text{m}$  for models up to 75mm  
3 $\mu\text{m}$  for models up to 150mm  
(2+R/100) $\mu\text{m}$  for models over 150mm,  
R = max. range (mm) \*fraction rounded up
- Measuring faces: Carbide tipped
- Display\*: LCD
- Battery\*: SR44 (2 pc.), **938882**  
(1 pc.: **340-251, 252, 340-351, 352**)
- Battery life\*: Approx. 1.8 years under normal use  
(8 months for **340-251, 252, 340-351, 352**)
- Dust/Water protection level\*: IP65

### Function of Digital Model

- Zero-setting, Data hold, Preset, Power ON/OFF\*, Data output, inch/mm conversion (inch/mm models)
- \*Not available for **340-251, 252, 340-351, 352**
- Alarm: Low voltage, Counting value composition error

### Optional Accessory for Digital Model

- 05CZA662**: SPC cable with data switch (1m)
- 05CZA663**: SPC cable with data switch (2m)



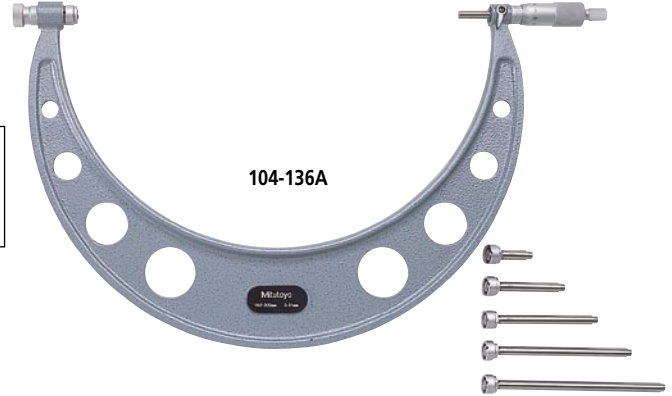
# Outside Micrometers

## SERIES 340, 104 — with Interchangeable Anvils

### FEATURES

- IP65 water/dust protection (340 series\*).  
\*Models with a range up to 300mm.
- Wide measuring range with interchangeable anvils.
- With a Ratchet Stop for constant force.
- Supplied with zero-setting standards for each range.
- With SPC output (series 340).

### Digital model



### SPECIFICATIONS

Metric	Digital model	
Range	Order No.	Interchangeable anvils
0 - 150mm	<b>340-251</b>	0, 25, 50, 75, 100, 125mm
150 - 300mm	<b>340-252</b>	0, 25, 50, 75, 100, 125mm
300 - 400mm	<b>340-513</b>	0, 25, 50, 75mm
400 - 500mm	<b>340-514</b>	0, 25, 50, 75mm
500 - 600mm	<b>340-515</b>	0, 25, 50, 75mm
600 - 700mm	<b>340-516</b>	0, 25, 50, 75mm
700 - 800mm	<b>340-517</b>	0, 25, 50, 75mm
800 - 900mm	<b>340-518</b>	0, 25, 50, 75mm
900 - 1000mm	<b>340-519</b>	0, 25, 50, 75mm

Inch/Metric	Digital model	
Range	Order No.	Interchangeable anvils
0 - 6"	<b>340-351</b>	0, 1", 2", 3", 4", 5"
6" - 12"	<b>340-352</b>	0, 1", 2", 3", 4", 5"
12" - 18"	<b>340-713</b>	0, 1", 2", 3", 4", 5"
18" - 24"	<b>340-714</b>	0, 1", 2", 3", 4", 5"
24" - 30"	<b>340-715</b>	0, 1", 2", 3", 4", 5"
30" - 36"	<b>340-716</b>	0, 1", 2", 3", 4", 5"

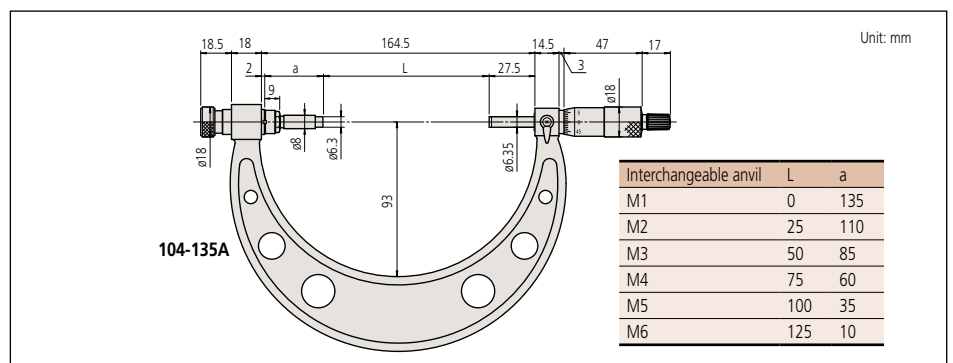
Metric		
Range	Order No.	Interchangeable anvils
0 - 50mm	<b>104-171*</b>	0, 25mm
0 - 100mm	<b>104-139A</b>	0, 25, 50, 75mm
0 - 150mm	<b>104-135A</b>	0, 25, 50, 75, 100, 125mm
50 - 150mm	<b>104-161A</b>	0, 25, 50, 75mm
100 - 200mm	<b>104-140A</b>	0, 25, 50, 75mm
150 - 300mm	<b>104-136A</b>	0, 25, 50, 75, 100, 125mm
200 - 300mm	<b>104-141A</b>	0, 25, 50, 75mm
300 - 400mm	<b>104-142A</b>	0, 25, 50, 75mm
400 - 500mm	<b>104-143A</b>	0, 25, 50, 75mm
500 - 600mm	<b>104-144A</b>	0, 25, 50, 75mm
600 - 700mm	<b>104-145A</b>	0, 25, 50, 75mm
700 - 800mm	<b>104-146A</b>	0, 25, 50, 75mm
800 - 900mm	<b>104-147A</b>	0, 25, 50, 75mm
900 - 1000mm	<b>104-148A</b>	0, 25, 50, 75mm

Inch		
Range	Order No.	Interchangeable anvils
0 - 2"	<b>104-165*</b>	0, 1"
0 - 4"	<b>104-149</b>	0, 1", 2", 3"
0 - 6"	<b>104-137</b>	0, 1", 2", 3", 4", 5"
2 - 6"	<b>104-162</b>	0, 1", 2", 3"
4 - 8"	<b>104-150</b>	0, 1", 2", 3"
8 - 12"	<b>104-151</b>	0, 1", 2", 3"
6" - 12"	<b>104-138</b>	0, 1", 2", 3", 4", 5"
12" - 18"	<b>104-201</b>	0, 1", 2", 3", 4", 5"
18" - 24"	<b>104-202</b>	0, 1", 2", 3", 4", 5"
24" - 30"	<b>104-203</b>	0, 1", 2", 3", 4", 5"
30" - 36"	<b>104-204</b>	0, 1", 2", 3", 4", 5"
36" - 42"	<b>104-205</b>	0, 1", 2", 3", 4", 5"

\*.0001" reading is obtained with vernier.

\*The frame in a heat insulating cover

### DIMENSION



# Outside Micrometers

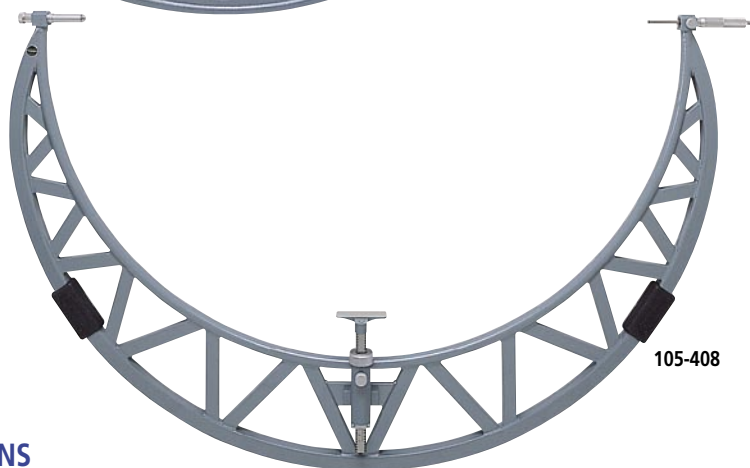
## SERIES 105 — with Extension Anvil Collars

### FEATURES

- Wide measuring range with extension anvil collars.
- 50mm spindle stroke.
- With Ratchet Stop for constant force.
- Supplied with zero-setting standards for each range.
- Square and round pipes are combined for light weight and rigid frame (for models over 1000mm range).
- Workpiece stopper (for models over 1000mm range).



105-105



105-408

### SPECIFICATIONS

Metric		
Range	Order No.	Extension collars
500 - 600mm	<b>105-103</b>	50mm
600 - 700mm	<b>105-104</b>	50mm
700 - 800mm	<b>105-105</b>	50mm
800 - 900mm	<b>105-106</b>	50mm
900 - 1000mm	<b>105-107</b>	50mm
1000 - 1100mm	<b>105-408</b>	50mm
1100 - 1200mm	<b>105-409</b>	50mm
1000 - 1200mm	<b>105-418</b>	50mm, 100mm
1200 - 1300mm	<b>105-410</b>	50mm
1300 - 1400mm	<b>105-411</b>	50mm
1200 - 1400mm	<b>105-419</b>	50mm, 100mm
1400 - 1500mm	<b>105-412</b>	50mm
1500 - 1600mm	<b>105-413</b>	50mm
1400 - 1600mm	<b>105-420</b>	50mm, 100mm
1600 - 1700mm	<b>105-414</b>	50mm
1700 - 1800mm	<b>105-415</b>	50mm
1600 - 1800mm	<b>105-421</b>	50mm, 100mm
1800 - 1900mm	<b>105-416</b>	50mm
1900 - 2000mm	<b>105-417</b>	50mm
1800 - 2000mm	<b>105-422</b>	50mm, 100mm

### Technical Data

Accuracy:  $\pm(6+R/75)\mu\text{m}$ , R = max. range (mm)  
\*fraction rounded up

Graduation: 0.01mm

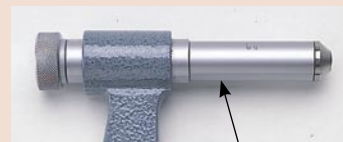
Flatness: 1.3 $\mu\text{m}$

Parallelism:  $(2+R/100)\mu\text{m}$ , R = max. range (mm)

\*fraction rounded down

Measuring faces: Carbide tipped

### Extension anvil collar



Anvil collar

