



# Spherical Face Micrometers

**SERIES 395, 295, 115**

## Technical Data

Accuracy: Refer to the list of specifications  
Flatness: .000024" / 0.6µm  
Display\*: LCD  
Battery\*: SR44 (1 pc.), **938882**  
Battery life\*: Approx. 2.4 years under normal use  
Dust/Water protection level\*: IP65  
\*Digital models \*\*Analog models

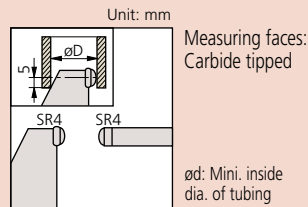
## Function of Digital Model

Origin-set, Zero / ABS, Data hold, Data output,  
inch/mm conversion (on inch/metric models only)  
Function lock  
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)

Spherical anvil-spindle type



## FEATURES

- IP65 water/dust protection (Series 395).
- Designed to measure the wall thickness of various tubing.
- With ratchet stop for constant force.
- With SPC output (Series 395).
- Non-slip grip finish (digital models).
- With digit counter (Series 295).
- With a standard bar except 0 -1" and 0 - 25mm model.
- Supplied in fitted plastic case.



115-153



395-371-30

## SPECIFICATIONS

| Metric Digital model with spherical anvil |            |                                 |          |         |          |
|-------------------------------------------|------------|---------------------------------|----------|---------|----------|
| Range                                     | Resolution | Order No.                       | Accuracy | Remarks | Mass (g) |
| 0 - 25mm                                  | 0.001mm    | <b>395-251-30<sup>S-F</sup></b> | ±2µm     | D: 15mm | 270      |
|                                           |            | <b>395-271-30<sup>S-S</sup></b> | ±2µm     | D: 15mm | 270      |
| 25 - 50mm                                 | 0.001mm    | <b>395-252-30<sup>S-F</sup></b> | ±2µm     | D: 15mm | 330      |
|                                           |            | <b>395-272-30<sup>S-S</sup></b> | ±2µm     | D: 15mm | 330      |
| 50 - 75mm                                 | 0.001mm    | <b>395-253-30<sup>S-F</sup></b> | ±2µm     | D: 19mm | 470      |
|                                           |            | <b>395-273-30<sup>S-S</sup></b> | ±2µm     | D: 19mm | 470      |
| 75 - 100mm                                | 0.001mm    | <b>395-254-30<sup>S-F</sup></b> | ±3µm     | D: 20mm | 625      |
|                                           |            | <b>395-274-30<sup>S-S</sup></b> | ±3µm     | D: 20mm | 625      |

S-F: Spherical anvil and flat spindle  
S-S: Spherical anvil and spherical spindle

| Metric Mechanical counter model with spherical anvil |            |                              |          |         |          |
|------------------------------------------------------|------------|------------------------------|----------|---------|----------|
| Range                                                | Graduation | Order No.                    | Accuracy | Remarks | Mass (g) |
| 0 - 25mm                                             | 0.01mm     | <b>295-115<sup>S-F</sup></b> | ±3µm     | D: 10mm | 220      |
|                                                      |            | <b>295-215<sup>S-S</sup></b> | ±3µm     | D: 10mm | 220      |

S-F: Spherical anvil and flat spindle  
S-S: Spherical anvil and spherical spindle

| Metric With spherical anvil |            |                              |          |         |          |
|-----------------------------|------------|------------------------------|----------|---------|----------|
| Range                       | Graduation | Order No.                    | Accuracy | Remarks | Mass (g) |
| 0 - 25mm                    | 0.01mm     | <b>115-115<sup>S-F</sup></b> | ±3µm     | D: 10mm | 180      |
|                             |            | <b>115-215<sup>S-S</sup></b> | ±3µm     | D: 10mm | 180      |
| 25 - 50mm                   | 0.01mm     | <b>115-116<sup>S-F</sup></b> | ±3µm     | D: 11mm | 240      |
|                             |            | <b>115-216<sup>S-S</sup></b> | ±3µm     | D: 11mm | 240      |
| 50 - 75mm                   | 0.01mm     | <b>115-117<sup>S-F</sup></b> | ±3µm     | D: 17mm | 315      |
|                             |            | <b>115-217<sup>S-S</sup></b> | ±3µm     | D: 17mm | 315      |
| 75 - 100mm                  | 0.01mm     | <b>115-118<sup>S-F</sup></b> | ±4µm     | D: 18mm | 375      |
|                             |            | <b>115-218<sup>S-S</sup></b> | ±4µm     | D: 18mm | 375      |

S-F: Spherical anvil and flat spindle  
S-S: Spherical anvil and spherical spindle

| Inch/Metric Digital model with spherical anvil |                   |                                 |          |         |          |
|------------------------------------------------|-------------------|---------------------------------|----------|---------|----------|
| Range                                          | Resolution        | Order No.                       | Accuracy | Remarks | Mass (g) |
| 0 - 1" / 0 - 25.4mm                            | .00005" / 0.001mm | <b>395-351-30<sup>S-F</sup></b> | ±.0001"  | D: .59" | 270      |
|                                                |                   | <b>395-371-30<sup>S-S</sup></b> | ±.0001"  | D: .59" | 270      |
| 1" - 2" / 25.4 - 50.8mm                        | .00005" / 0.001mm | <b>395-352-30<sup>S-F</sup></b> | ±.0001"  | D: .59" | 330      |
|                                                |                   | <b>395-372-30<sup>S-S</sup></b> | ±.0001"  | D: .59" | 330      |
| 2" - 3" / 50.8 - 76.2mm                        | .00005" / 0.001mm | <b>395-353-30<sup>S-F</sup></b> | ±.0001"  | D: .75" | 470      |
|                                                |                   | <b>395-373-30<sup>S-S</sup></b> | ±.0001"  | D: .75" | 470      |
| 3" - 4" / 76.2 - 101.6mm                       | .00005" / 0.001mm | <b>395-354-30<sup>S-F</sup></b> | ±.00015" | D: .79" | 625      |
|                                                |                   | <b>395-374-30<sup>S-S</sup></b> | ±.00015" | D: .79" | 625      |

S-F: Spherical anvil and flat spindle  
S-S: Spherical anvil and spherical spindle

| Inch Mechanical counter model with spherical anvil |            |                               |          |         |          |
|----------------------------------------------------|------------|-------------------------------|----------|---------|----------|
| Range                                              | Graduation | Order No.                     | Accuracy | Remarks | Mass (g) |
| 0 - 1"                                             | .0001"     | <b>295-153<sup>S-F*</sup></b> | ±.00015" | D: .40" | 220      |
|                                                    |            | <b>295-253<sup>S-S*</sup></b> | ±.00015" | D: .40" | 220      |

S-F: Spherical anvil and flat spindle  
S-S: Spherical anvil and spherical spindle  
\*.0001" reading is obtained with vernier.

| Inch With spherical anvil |            |                               |          |         |          |
|---------------------------|------------|-------------------------------|----------|---------|----------|
| Range                     | Graduation | Order No.                     | Accuracy | Remarks | Mass (g) |
| 0 - 1"                    | .0001"     | <b>115-153<sup>S-F*</sup></b> | ±.00015" | D: .40" | 180      |
|                           |            | <b>115-253<sup>S-S*</sup></b> | ±.00015" | D: .40" | 180      |
| 1 - 2"                    | .001"      | <b>115-242<sup>S-S</sup></b>  | ±.00015" | D: .44" | 240      |
| 2 - 3"                    | .001"      | <b>115-243<sup>S-S</sup></b>  | ±.00015" | D: .67" | 315      |

S-F: Spherical anvil and flat spindle  
S-S: Spherical anvil and spherical spindle  
\*.0001" reading is obtained with vernier.