# **Micrometer**

The origin of Mitutoyo's trustworthy brand of small tool instruments

### **Tube Micrometers** SERIES 395, 115, 295

- Measuring faces: Carbide (**115-101**: only the spindle is carbide tipped.)
- 395 series: IP65 digital spherical-flat anvil type micrometer.
- Equipped with Ratchet Stop for constant measuring force.



## **SPECIFICATIONS**

Metric					
Order No.	Range	Resolution	Accuracy*	øD	
Digimatic (LCD)					
395-251	0 - 25mm			ø15	
395-252	25 - 50mm	0.001mm	±2µm	LIG	
395-253	50 - 75mm	0.00111111		ø19	
395-254	75 - 100mm		±3µm	ø20	

\* Excluding quantizing error

Metric	I				
Order No.	Range	Graduation	Accuracy	øD	
Analog					
115-101	0 - 15mm			ø5.5	
115-115	0 - 25mm	0.01mm	±3µm	ø10	
115-116	25 - 50mm			ø11	
115-117	50 - 75mm			ø17	
115-118	75 - 100mm		±4µm	ø18	
Mechanical cou	Mechanical counter model				
295-115	0 - 25mm		±3µm	ø10	

Inch/Metric				
Order No.	Range	Resolution	Accuracy*	øD
Digimatic (LCD)				
395-351	0 - 1"			ø.59"
395-352	1" - 2"	.00005"/	±.0001"	0.55
395-353	2" - 3"	0.001mm		ø 75"
395-354	3" - 4"		±.00015"	9.75
* Evoluding quar	ntizina error			

Excluding quantizing error

Inch				
Order No.	Range	Graduation	Accuracy	øD
Analog				

Analog					
115-153	0 - 1"	.0001"	±.00015"	ø.40"	
Mechanical counter model					
295-153	0 - 1"	.0001"	±.00015"	ø.40"	

These marks indicate that a product has successfully passed IP65-level testing, which is carried out by the independent German certification organization TÜV Rheinland.



(Refer to page IX for details.)

#### **IP Codes (395 series)**

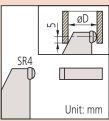
Level 6: Dust-proof.

- No ingress of dust allowed.
- Level 5: Protected against water jets. Water projected in jets against the enclosure from any direction shall have no harmful effects.

#### **Technical Data**

Flatness: 0.6µm/ .000024" (**115** & **295 Series**) 0.3µm/ .000012" (**395 Series**)





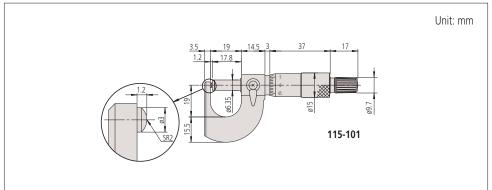
**Battery for series 395** 

SR44 (1 pc), 938882, for initial operational checks (standard accessory)

#### **Optional accessories**

Connecting cables for **395 series** 1m: **05CZA662** 2m: 05CZA663 **USB** Input Tool Direct USB-ITN-B (2m): 06ADV380B Connecting cables for U-WAVE-T 02AZD790B 160mm For foot switch: 02AZE140B Refer to page A-21 for details.

#### DIMENSIONS



# Mitutoyo



(Refer to page IX for details.)

These marks indicate that a product has successfully passed IP65-level testing, which is carried out by the independent German certification organization TÜV Rheinland.

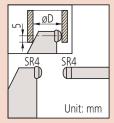


#### **IP Codes (395 series)**

Level 6: Dust-proof. No ingress of dust allowed. Level 5: Protected against water jets. Water projected in jets against the enclosure from any direction shall have no harmful effects.







#### **Battery for series 395**

SR44 (1 pc), 938882, for initial operational checks (standard accessory)

#### **Optional accessories**

Connecting cables for 395 series 1m: 05CZA662 2m: 05CZA663 USB Input Tool Direct USB-ITN-B (2m): 06ADV380B Connecting cables for U-WAVE-T 02AZD790B 160mm For foot switch: 02AZE140B Refer to page A-21 for details.

## **Tube Micrometers** SERIES 395, 115, 295 — Spherical Anvil and Spindle Type

- Measuring faces: Carbide
- (**115-201**: only the spindle is carbide tipped.) • 395 series: IP65 spherical anvil and spindle type digital micrometer.
- Equipped with Ratchet Stop for constant measuring force.



## **SPECIFICATIONS**

Metric					
Order No.	Range	Resolution	Accuracy*	øD	
Digimatic (LCD)					
395-271	0 - 25mm			ø15	
395-272	25 - 50mm	0.001mm	±2µm	JUIJ	
395-273	50 - 75mm	0.00111111		ø19	
395-274	75 - 100mm		±3µm	ø20	
A F L L	10.0				

Inch/Metric

Inch

Analog

Order No.

115-253

115-242

115-243

Mechanical counter model

**295-253** | 0 - 1"

0 - 1'

1 - 2"

2 - 3"

inch/metric -				
Order No.	Range	Resolution	Accuracy*	øD
Digimatic (LCD)				
395-371	0 -1"			ø.59"
395-372	1" - 2"	.00005"/	±.0001"	0.55
395-373	2" - 3"	0.001mm		ø.75"
395-374	3" - 4"		±.00015"	ø.79"
* Excluding quantizing error				

Range Graduation Accuracy

.0001"

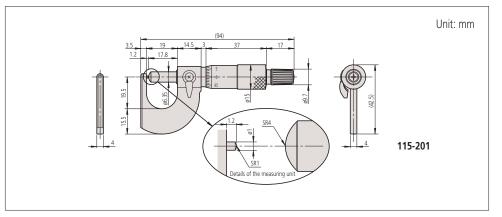
.001"

\* Excluding quantizing error

#### Metric

Order No.	Range	Graduation	Accuracy	øD	
Analog					
115-201	0 - 15mm			ø5.5	
115-215	0 - 25mm		1.2000	ø10	
115-216	25 - 50mm	0.01mm	±3µm	ø11	
115-217	50 - 75mm			ø17	
115-218	75 - 100mm		±4µm	ø18	
Mechanical counter model					
295-215	0 - 25mm	0.01mm	+3um	ø10	

## DIMENSIONS



øD

ø.40'

ø.44"

ø.67"

ø.40"

±.00015"

.0001" | ±.00015" |

**Mitutoy**o

B-40

## **Micrometer**

The origin of Mitutoyo's trustworthy brand of small tool instruments

## **Tube Micrometers** SERIES 395, 115, 295 — Spherical and Cylindrical Anvil Type

395-261

• Spindle face: Carbide

type digital micrometers

0-25mm 0.001mm Mitutoyo

• Equipped with Ratchet Stop for constant • 395 Series: IP65 spherical and cylindrical anvil measuring force.



## **SPECIFICATIONS**

P65

Metric					
Order No.	Range	Resolution	Accuracy*	Remarks	
Digimatic (LCD)					
395-261	0 - 25mm			Type A	
395-262		0.001mm	±3µm	Type B	
395-263		0.00111111	тэрш	Type C	
395-264				Type D	
* Evoluting quantizing error					

Excluding guantizing error

Metric	I			
Order No.	Range	Graduation	Accuracy	Remarks
Analog				
115-302	0 - 25mm	0.01mm	±3µm	Type A
115-308				Type B
115-303	25 - 50mm			Type A
115-309				Type B
115-315	0 - 25mm			Type C
115-316	0 - 2511111			Type D

Inch/Metric				
Order No.	Range	Resolution	Accuracy*	Remarks
Digimatic (LCD)				
395-362		00005 "/		Type B
395-363	0 - 1"	.00005"/ 0.001mm	±.00015"	Type C
395-364		0.00111111		Type D
* Excluding quant	izina error			

ding quantizing error

Inch	1			
Order No.	Range	Graduation	Accuracy	Remarks
Analog				
115-305		.001"		Type A
115-313	0 - 1"	.0001"	±.00015"	Type C
115-314		.0001		Type D



These marks indicate that a product has successfully passed IP65-level testing, which is carried out by the independent German certification organization TÜV Rheinland.

TÜVRheinla CERTIFIED www.tuv.com ID 4011207400

(Refer to page IX for details.)

#### **IP Codes (395 series)**

Level 6: Dust-proof.

- No ingress of dust allowed.
- Level 5: Protected against water jets.
  - Water projected in jets against the enclosure from any direction shall have no harmful effects.

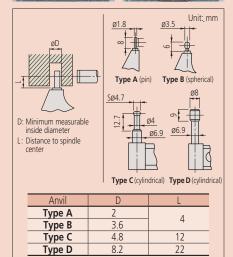




Type C (cylindrical)

Type D (cylindrical)





#### **Battery for series 395**

SR44 (1 pc), 938882, for initial operational checks (standard accessory)

#### **Optional accessories**

Connecting cables for **395 series** 1m: **05CZA662** 

2m: 05CZA663

- **USB** Input Tool Direct
- USB-ITN-B (2m): 06ADV380B

Connecting cables for U-WAVE-T 02AZD790B 160mm

For foot switch: 02AZE140B Refer to page A-21 for details.

