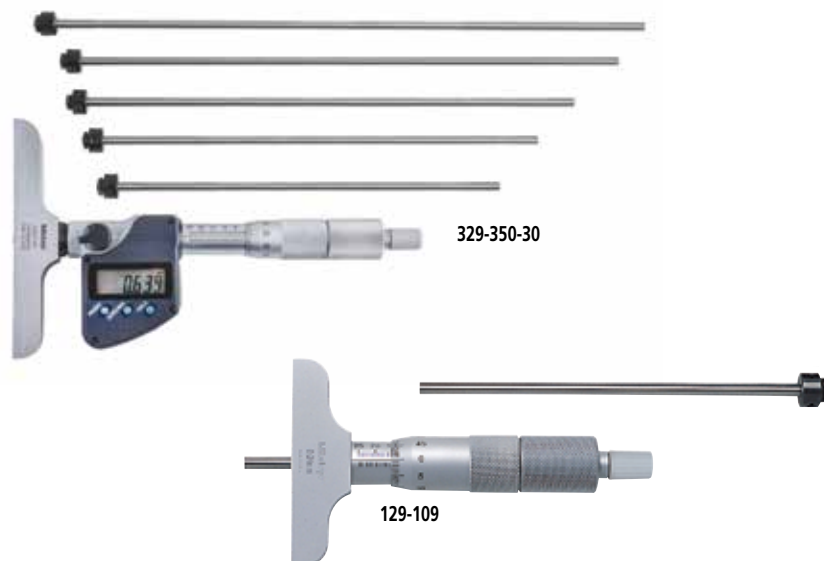


Depth Micrometer

SERIES 329, 129 — Interchangeable Rod Type

FEATURES

- $\varnothing 4$ mm interchangeable rods, with lapped measuring end, provide a wide measuring range.
- The rod length can be adjusted in 1" or 25mm increments.
- With ratchet stop for constant force.
- With measuring rod clamp.
- With SPC output (Series 329).
- Supplied in fitted plastic case.



SPECIFICATIONS

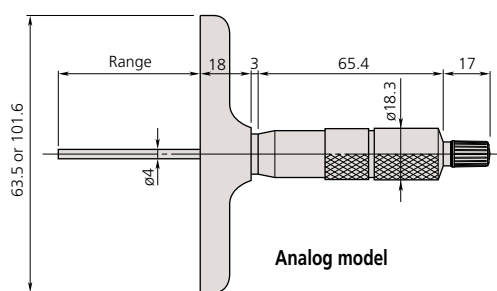
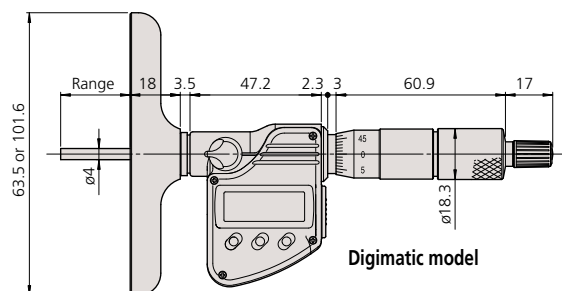
Metric Digimatic model			
Range	Order No.	Base Size	Rod Qty.
0 - 150mm	329-250-30	101.6x16mm	6 rods
0 - 300mm	329-251-30	101.6x16mm	12 rods

Metric			
Range	Order No.	Base Size	Rod Qty.
0 - 50mm	129-109	63.5x16mm	2 rods
0 - 100mm	129-111	63.5x16mm	4 rods
0 - 100mm	129-115	101.6x16mm	4 rods
0 - 150mm	129-112	63.5x16mm	6 rods
0 - 150mm	129-116	101.6x16mm	6 rods

Inch/Metric Digimatic model			
Range	Order No.	Base Size	Rod Qty.
0 - 6" / 0 - 152.4mm	329-350-30	4"x.63"	6 rods
0 - 12" / 0 - 304.8mm	329-351-30	4"x.63"	12 rods

Inch			
Range	Order No.	Base Size	Rod Qty.
0 - 4"	129-127	2.5"x.63"	4 rods
0 - 4"	129-131	4"x.63"	4 rods
0 - 6"	129-128	2.5"x.63"	6 rods
0 - 6"	129-132	4"x.63"	6 rods
0 - 12"	129-149	2.5"x.63"	12 rods
0 - 12"	129-150	4"x.63"	12 rods

DIMENSIONS



Unit: mm



Technical Data

Accuracy: $\pm 0.0015"/3\mu\text{m}$ for micrometer head feed
 $\pm [0.0008 + (0.0004 \times R/3)]"$
 R = max. measuring length (inch)
 $\pm (2 + L/75)\mu\text{m}$ for interchangeable rod,
 L = Max. measuring length (mm)

Resolution*: $.00005"/0.001\text{mm}$ or 0.001mm
 Graduation**: $.001"$ or 0.01mm
 Flatness of reference surface (base):
 $.00005"/1.3\mu\text{m}$ for 2.5"/63.5mm wide base
 $.00008"/2\mu\text{m}$ for 4"/6mm wide base
 Flatness of measuring face (rod):
 $.000012"/0.3\mu\text{m}$
 Parallelism between reference face and measuring rod face:
 $[0.00016 + (0.0004 \times R/2)]"$
 R = max. measuring range (inch)
 $(4 + L/50)\mu\text{m}$
 L = Max. measuring length (mm)

Zero point error of rods:
 $\pm 0.0002"/4\mu\text{m}$ for 0-6"/0-150mm models
 $\pm 0.0003"/6\mu\text{m}$ for 0-12"/0-300mm models

Measuring rod diameter: $.157"/4\text{mm}$
 Display*: LCD
 Battery*: SR44 (1 pc.), **938882**
 Battery life*: Approx. 2.4 years under normal use
 *Digital models **Analog models

Function of Digimatic Model

Origin-set, Zero-setting, Data hold, Data output,
 inch/mm conversion (on inch/metric models only)
 Function Lock, 2 Presets
 Alarm: Low voltage, Counting value composition error

Optional Accessories for Digimatic Model

05CZA662: SPC cable with data switch (40" / 1m)

05CZA663: SPC cable with data switch (80" / 2m)



Technical Data

Accuracy: $\pm 3\mu\text{m}$ for micrometer head feed
 Graduation: .001" or 0.01mm
 Flatness of reference face: $1.3\mu\text{m}$ for 63.5mm width base,
 $2\mu\text{m}$ for 101.6mm width base
 Flatness of measuring rod face: $0.3\mu\text{m}$
 Parallelism between reference face and measuring rod face:
 $(4+L/50)\mu\text{m}$, L=Max. measuring length (mm)
 Measuring rod diameter: 4mm



Depth Micrometer

SERIES 128

FEATURES

- $\varnothing 4\text{mm}$ measuring rod.
- With measuring rod clamp.



- Carbide-tipped measuring rod model is available.
- With ratchet stop for constant force.

SPECIFICATIONS

Metric		
Range	Order No.	Remarks (base)
0 - 25mm	128-101	63.5x16mm
0 - 25mm	128-103*	63.5x16mm
0 - 25mm	128-102	101.6x16mm
0 - 25mm	128-104*	101.6x16mm

Inch		
Range	Order No.	Remarks (base)
0 - 1"	128-105	2.5"x.63"
0 - 1"	128-106	4"x.63"

*with carbide-tipped measuring rod

Depth Micro Checker

SERIES 515

FEATURES

- The Depth Micro Checker is designed to efficiently check the zero point of a depth micrometer.

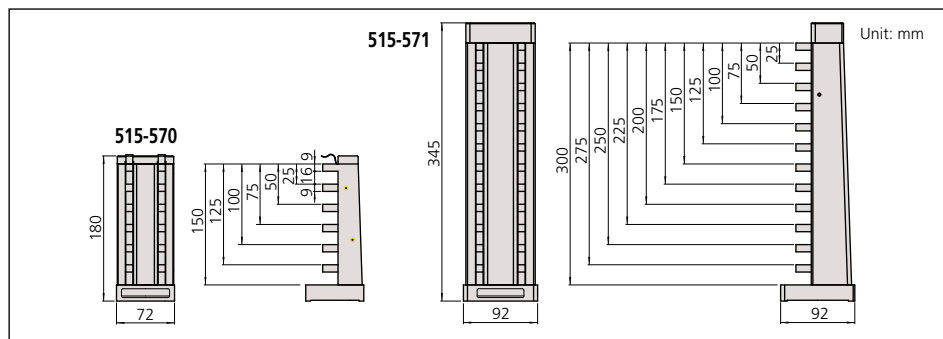


SPECIFICATIONS

Metric		
Range	Order No.	Remarks (length to check)
0 - 150mm	515-570	25, 50, 75, 100, 125, 150mm
0 - 300mm	515-571	25, 50, 75, 100, 125, 150, 175, 200, 225, 250, 275, 300mm

Inch		
Range	Order No.	Remarks (length to check)
0 - 6"	515-575	1", 2", 3", 4", 5", 6"

DIMENSIONS



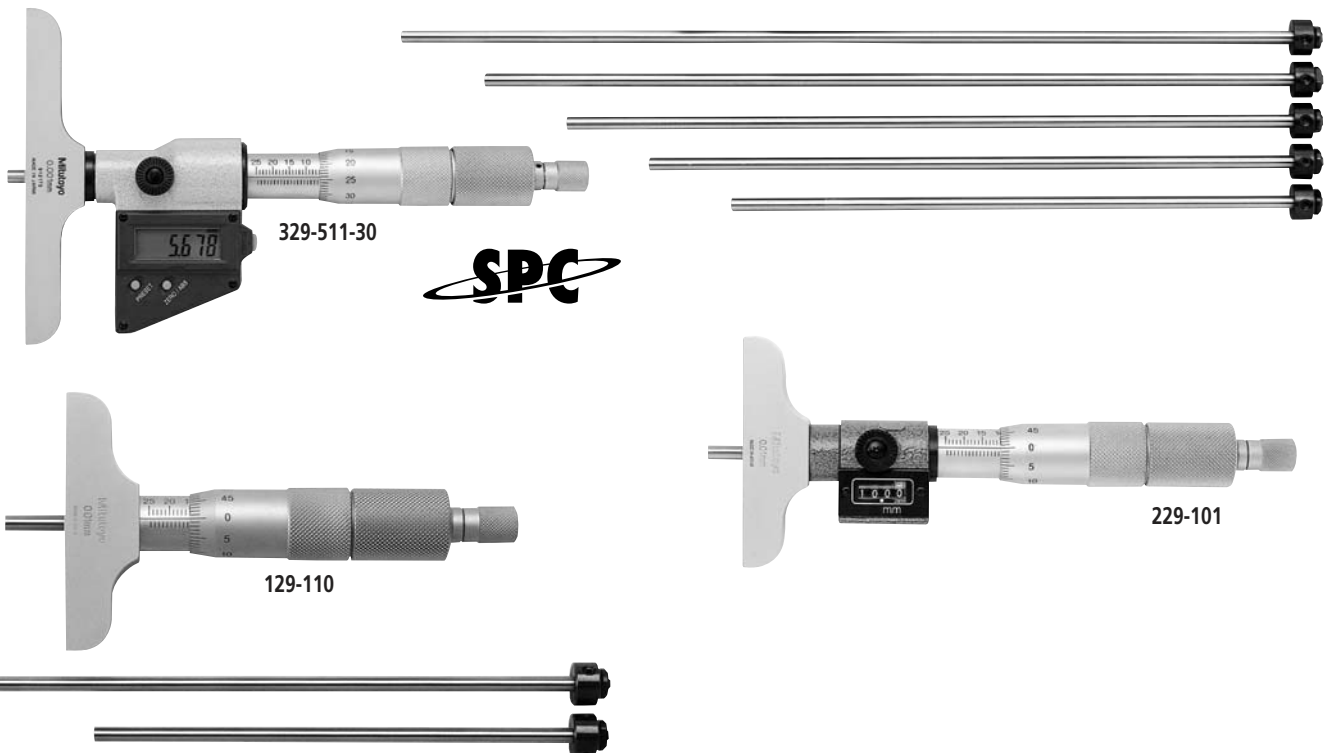
Technical Data

Block pitch accuracy: $\pm(1+L/150)\mu\text{m}$,
 L=Length to check (mm)
 Anvil block accuracy: $\pm 0.5\mu\text{m}$



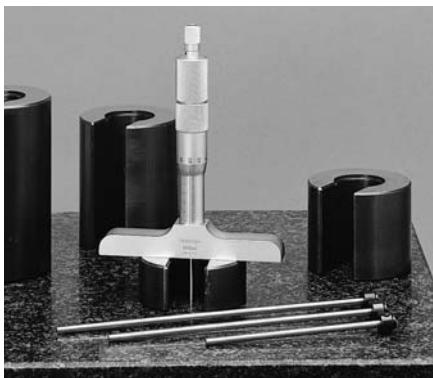
Depth Micrometers

SERIES 329, 229, 129 — Interchangeable Rod Type



FEATURES

- $\varnothing 4\text{mm}$ (.157" DIA.) interchangeable rods, with lapped measuring end, provide a wide measuring range.
- The rod length can be adjusted in 25mm (1") increments.
- With Ratchet Stop for consistent force.
- Crisp clear graduations on the thimble.
- The 329 series (LCD readout type) are provided with SPC output.
- The 229 series are provided with a mechanical digit counter for quick and error-free reading.
- Complete with fitted carrying case.



OPTIONAL ACCESSORIES

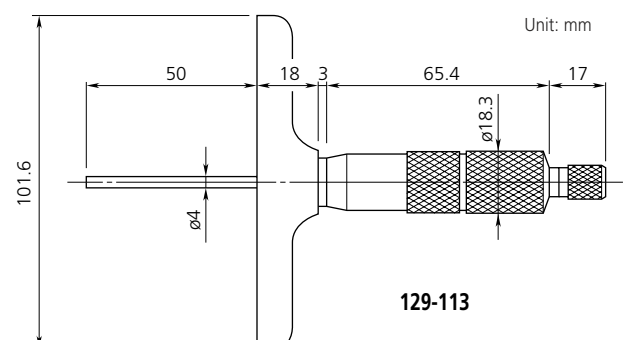
Order No.	Description
937387	SPC cable (1m)
965013	SPC cable (2m)

SPECIFICATIONS

Accuracy

- Accuracy of micrometer head: $\pm 3\mu\text{m}$ (.00015")
Excluding quantizing error. (329 series)
- Flatness of reference face:
1.3 μm (.00005") for base with 63.5mm (2.5") width
2 μm (.00008") for base with 101.6mm (4") width
- Flatness of measuring face of rod: 0.3 μm (.000012")
- Parallelism between reference face and measuring face:
(4+L/50) μm [(0.0016+.00004 (L/2))"]*
- * L=Maximum measuring length (mm) [(inch)], Fraction rounded up
- Accuracy of interchangeable rod:
 $\pm (2+L/75)\mu\text{m}$ [$\pm (.0001+.00005 (L/3))$ "]*
- * L=Maximum measuring length (mm) [(inch)], Fraction rounded up

Dimensions





Metric		Digital model		
Range	Order No.	Resolution	Dimensions of reference face	Remarks
0 - 150mm	329-511-30	0.001mm	101.6X16mm	with 6 rods
0 - 300mm	329-512-30	0.001mm	101.6X16mm	with 12 rods

Inch/Metric		Digital model		
Range	Order No.	Resolution	Dimensions of reference face	Remarks
0 - 6"	329-711-30	.00005" / 0.001mm	4"X.63"	with 6 rods
0 - 12"	329-712-30	.0001" / 0.001mm	4"X.63"	with 12 rods

Metric		Mechanical counter model		
Range	Order No.	Graduation	Dimensions of reference face	Remarks
0 - 25mm	229-101	0.01mm	63.5X16mm	with 1 rod
	229-102	0.01mm	101.6X16mm	with 1 rod
0 - 50mm	229-109	0.01mm	63.5X16mm	with 2 rods
	229-113	0.01mm	101.6X16mm	with 2 rods

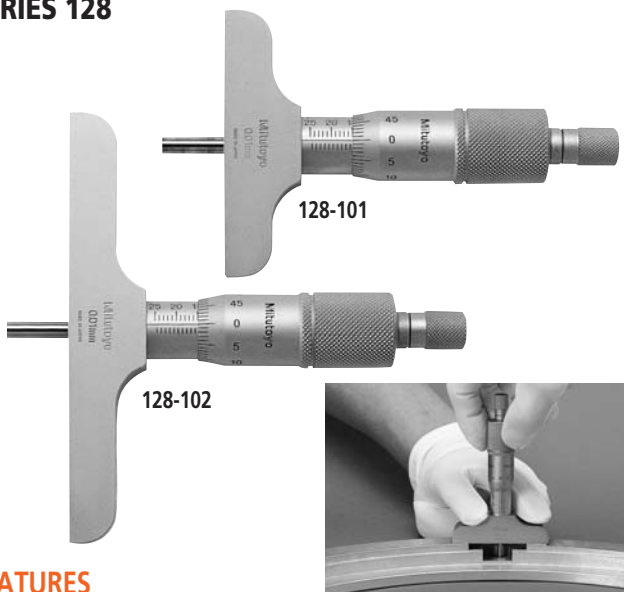
Inch		Mechanical counter model		
Range	Order No.	Graduation	Dimensions of reference face	Remarks
0 - 4"	229-127	.001"	2.5"X.63"	with 4 rods
	229-131	.001"	4"X.63"	with 4 rods
0 - 6"	229-128	.001"	2.5"X.63"	with 6 rods
	229-132	.001"	4"X.63"	with 6 rods

Metric				
Range	Order No.	Graduation	Dimensions of reference face	Remarks
0 - 50mm	129-109	0.01mm	63.5X16mm	with 2 rods
	129-113	0.01mm	101.6X16mm	with 2 rods
0 - 75mm	129-110	0.01mm	63.5X16mm	with 3 rods
	129-114	0.01mm	101.6X16mm	with 3 rods
0 - 100mm	129-111	0.01mm	63.5X16mm	with 4 rods
	129-115	0.01mm	101.6X16mm	with 4 rods
0 - 150mm	129-112	0.01mm	63.5X16mm	with 6 rods
	129-116	0.01mm	101.6X16mm	with 6 rods

Inch				
Range	Order No.	Graduation	Dimensions of reference face	Remarks
0 - 3"	129-126	.001"	2.5"X.63"	with 3 rods
	129-130	.001"	4"X.63"	with 3 rods
0 - 4"	129-127	.001"	2.5"X.63"	with 4 rods
	129-131	.001"	4"X.63"	with 4 rods
0 - 6"	129-128	.001"	2.5"X.63"	with 6 rods
	129-132	.001"	4"X.63"	with 6 rods
0 - 12"	129-149	.001"	2.5"X.63"	with 12 rods
	129-150	.001"	4"X.63"	with 12 rods

Depth Micrometers

SERIES 128



FEATURES

- Ratchet Stop for consistent and repetitive measurements.
- $\varnothing 4$ mm (.157" DIA.) measuring face.
- Satin-chrome finished throughout.
- With spindle locking clamp.
- Crisp clear graduations on the thimble.

SPECIFICATIONS

Metric			
Range	Order No.	Graduation	Dimensions of reference
0 - 25mm	128-101	0.01mm	63.5 x 16mm
	128-103*	0.01mm	63.5 x 16mm
	128-102	0.01mm	101.6 x 16mm
	128-104*	0.01mm	101.6 x 16mm

*The measuring face has a carbide tip.

Inch			
Range	Order No.	Graduation	Dimensions of reference
0 - 1"	128-105	.001"	2.5" x .63"
	128-106	.001"	4" x .63"

*The measuring face has a carbide tip.

Accuracy

- Accuracy of micrometer head: $\pm 3\mu\text{m}$ (.00015")
- Flatness of reference face:
 - 1.3 μm (.00005") for base with 63.5mm (2.5") width
 - 2 μm (.00008") for base with 101.6mm (4") width