

勝特力材料 886-3-5753170
 勝特力电子(上海) 86-21-54151736
 勝特力电子(深圳) 86-755-83298787
[Http://www.100y.com.tw](http://www.100y.com.tw)

Small Tool Instruments and Data Management

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**Holtest
ABSOLUTE Borematic**

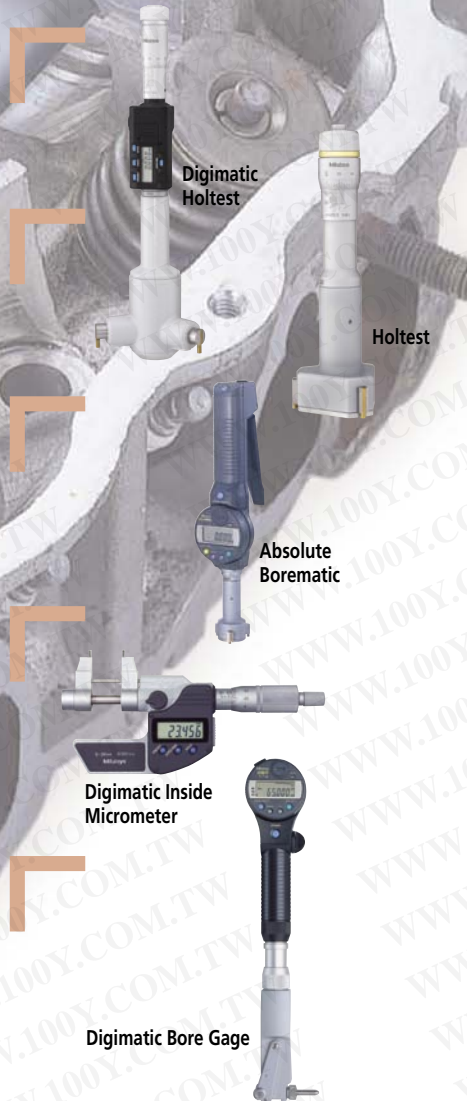


Inside Micrometer



Bore Gages

New Products

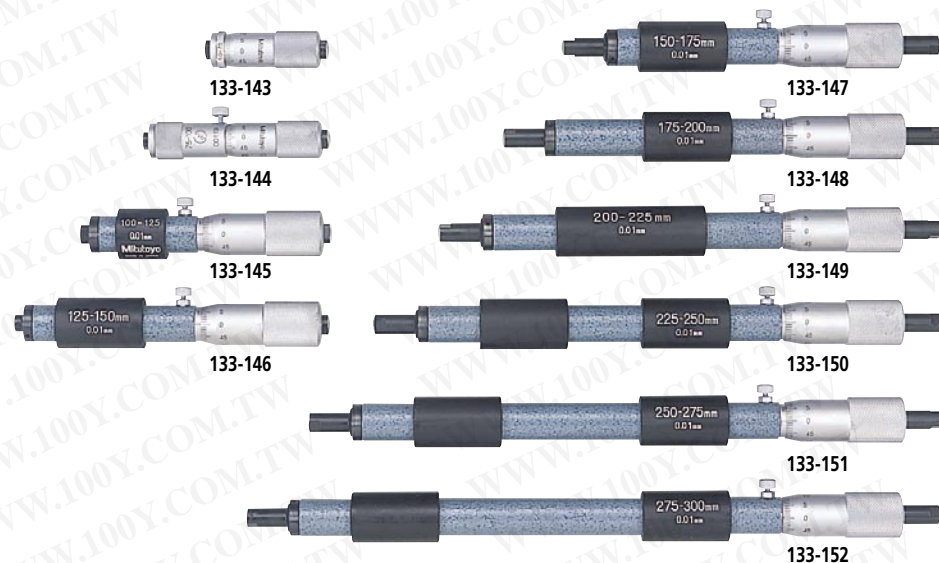


Tubular Inside Micrometers

SERIES 133 — Single Rod Type

FEATURES

- With locking clamp.
- Zero point can be readjusted by twisting the micrometer head sleeve. A key wrench is supplied.
- Clear, crisp graduations on the satin chrome finished micrometer head.
- Carbide-tipped measuring faces.



SPECIFICATIONS

Metric	Individual	
Range	Order No.	Accuracy
50 - 75mm	133-143	±3µm
75 - 100mm	133-144	±4µm
100 - 125mm	133-145	±5µm
125 - 150mm	133-146	±5µm
150 - 175mm	133-147	±5µm
175 - 200mm	133-148	±5µm
200 - 225mm	133-149	±5µm
225 - 250mm	133-150	±6µm
250 - 275mm	133-151	±6µm
275 - 300mm	133-152	±6µm
300 - 325mm	133-153	±7µm
325 - 350mm	133-154	±7µm
350 - 375mm	133-155	±7µm
375 - 400mm	133-156	±8µm
400 - 425mm	133-157	±8µm
425 - 450mm	133-158	±8µm
450 - 475mm	133-159	±9µm
475 - 500mm	133-160	±9µm
500 - 525mm	133-161	±9µm
525 - 550mm	133-162	±10µm
550 - 575mm	133-163	±10µm
575 - 600mm	133-164	±10µm
600 - 625mm	133-165	±11µm
625 - 650mm	133-166	±11µm
650 - 675mm	133-167	±11µm
675 - 700mm	133-168	±12µm

Metric	Individual	
Range	Order No.	Accuracy
700 - 725mm	133-169	±12µm
725 - 750mm	133-170	±12µm
750 - 775mm	133-171	±13µm
775 - 800mm	133-172	±13µm
800 - 825mm	133-173	±13µm
825 - 850mm	133-174	±14µm
850 - 875mm	133-175	±14µm
875 - 900mm	133-176	±14µm
900 - 925mm	133-177	±15µm
925 - 950mm	133-178	±15µm
950 - 975mm	133-179	±15µm
975 - 1000mm	133-180	±16µm

Inch	Individual	
Range	Order No.	Accuracy
2" - 3"	133-223	±.00015"
3" - 4"	133-224	±.0002"
4" - 5"	133-225	±.00025"
5" - 6"	133-226	±.00025"
6" - 7"	133-227	±.00025"
7" - 8"	133-228	±.00025"
8" - 9"	133-229	±.00025"
9" - 10"	133-230	±.0003"
10" - 11"	133-231	±.0003"
11" - 12"	133-232	±.0003"

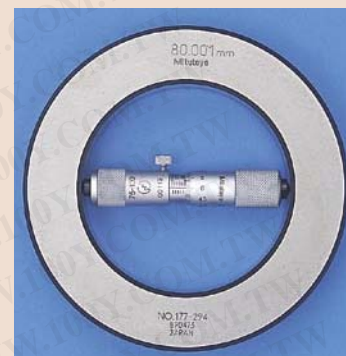
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Technical Data

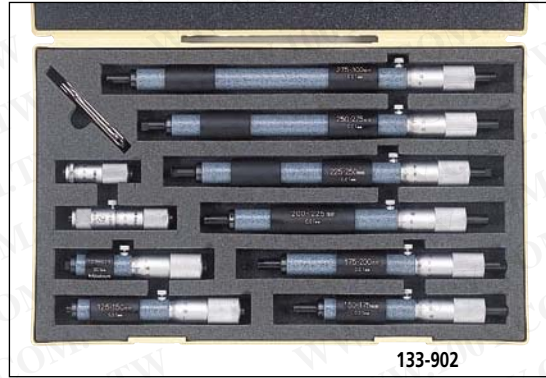
Accuracy: Refer to the list of specifications.
 Graduation: 0.01mm or .001"

Optional Accessory

-----: Setting ring (See page 122.)



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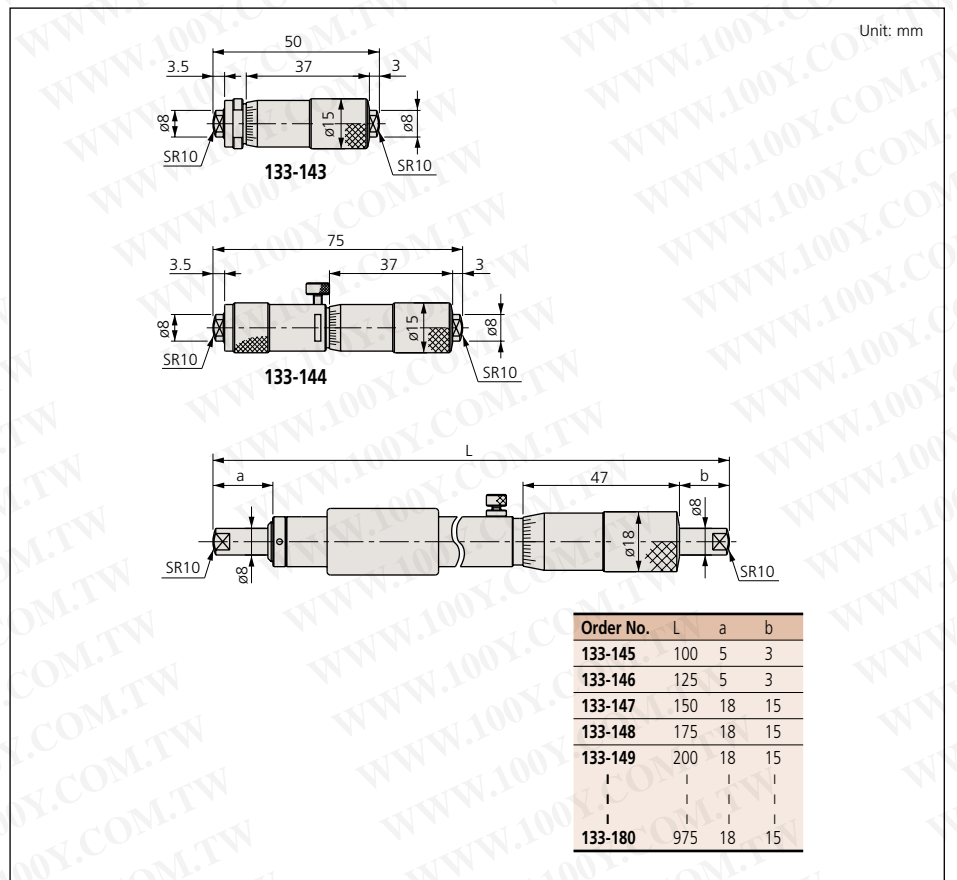


133-902

Metric Micrometer set		
Range	Order No.	Assortment of micrometers
50 - 150mm (4 mikes/set)	133-901	<ul style="list-style-type: none"> • 133-143, 133-144, 133-145, 133-146 • with fitted case
50 - 300mm (10 mikes/set)	133-902	<ul style="list-style-type: none"> • 133-143, 133-144, 133-145, 133-146, 133-147, 133-148, 133-149, 133-150, 133-151, 133-152 • with fitted case

Inch Micrometer set		
Range	Order No.	Assortment of micrometers
2" - 6" (4 mikes/set)	133-903	<ul style="list-style-type: none"> • 133-223, 133-224, 133-225, 133-226 • with fitted case
2" - 12" (10 mikes/set)	133-904	<ul style="list-style-type: none"> • 133-223, 133-224, 133-225, 133-226, 133-227, 133-228, 133-229, 133-230, 133-231, 133-232 • with fitted case

DIMENSION



Inside Micrometers

SERIES 141 — Interchangeable Rod Type

FEATURES

- Wide range of ID measurements with interchangeable rods.
- Each interchangeable rod is marked with its measuring range.
- The sizes of interchangeable rods can be adjusted with spacing collars.
- Both micrometer head and furnished rods are satin-chrome finished throughout.



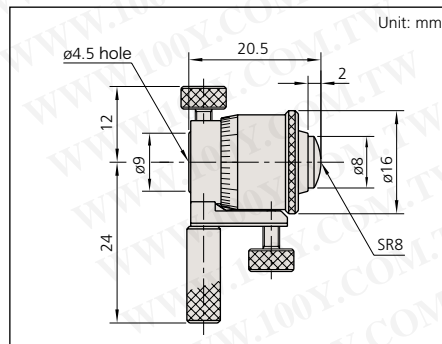
141-101



When using the extension rod



DIMENSION



SPECIFICATIONS

Metric

Range	Order No.	Travel of micrometer head	Remarks
25 - 32mm	141-001 / 141-003*	7mm	—
25 - 50mm	141-101 / 141-103*	7mm	with 2 rods
50 - 63mm	141-025 / 141-027*	13mm	—
50 - 200mm	141-205 / 141-211*	13mm	with 3 rods
50 - 300mm	141-206 / 141-212*	13mm	with 5 rods
200 - 225mm	141-009 / 141-011*	25mm	—
200 - 500mm	141-117	25mm	with 3 rods
200 - 1000mm	141-118	25mm	with 8 rods

*with carbide tipped face

Inch

Range	Order No.	Travel of micrometer head	Remarks
1" - 1.25"	141-002 / 141-004*	.25"	—
1" - 2"	141-102 / 141-104*	.25"	with 2 rods
2" - 2.5"	141-026 / 141-028*	.5"	—
2" - 8"	141-208 / 141-214*	.5"	with 3 rods
2" - 12"	141-233 / 141-215*	.5"	with 5 rods
8" - 9"	141-010 / 141-012*	1"	—
4" - 20"	141-121	1"	with 3 rods
4" - 40"	141-122	1"	with 8 rods

*with carbide tipped face

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Technical Data

Accuracy: $\pm(6+L/50)\mu\text{m}^*$
 *L=Maximum measuring length (mm)
 Fraction rounded up
 Graduation: 0.01mm or .001"

Optional Accessory

-----: Setting ring (See page 122.)





Technical Data

Accuracy: $\pm(3+n+L/50)\mu\text{m}^*$
 *n=Number of rod, L=Maximum measuring length (mm), Fraction rounded up, Excluding quantizing error (337 series)
 Resolution: 0.001mm or .0001"/0.001mm
 Display: LCD
 Battery: SR44 (1 pcs.), **938882**
 Battery life: Approx. 8 months under normal use

Function

Zero-setting, Data hold, Data output, Preset, inch/mm conversion (inch/mm models)
 Alarm: Low voltage, Counting value composition error

Optional Accessory

937387: SPC cable (1m)
965013: SPC cable (2m)
 ----: Setting ring (See page 122.)



Digimatic Tubular Inside Micrometers

SERIES 337 — Extension Rod Type / SERIES 339 — Extension Pipe Type

FEATURES

- Wide range of ID measurements by combining extension rods (pipes) and anvils with the micrometer head.
- The 339 series uses highly-durable extension pipes.
- Carbide-tipped measuring faces.



337-201



339-291

Metric — Extension rod type

Range	Order No.	Travel of micrometer head	Extension rods
200 - 1000mm	337-201	25mm	25mm, 50mm, 100mm (2 pcs.), 200mm, 300mm
200 - 1500mm	337-202	25mm	25mm, 50mm, 100mm, 200mm, 300mm (3 pcs.)

Inch/Metric — Extension rod type

Range	Order No.	Travel of micrometer head	Extension rods
8" - 40"	337-203	1"	1", 2", 4" (2 pcs.), 8", 12"
8" - 60"	337-204	1"	1", 2", 4", 8", 12" (3 pcs.)

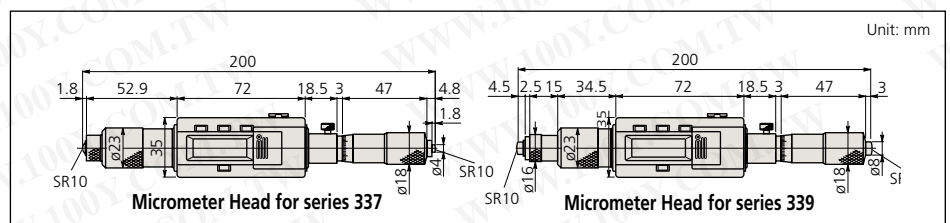
Metric — Extension pipe type

Range	Order No.	Travel of micrometer head	Extension pipes
200 - 1000mm	339-291	25mm	25mm, 50mm, 100mm, 200mm, 400mm
200 - 2000mm	339-292	25mm	25mm, 50mm, 100mm, 200mm (2 pcs.), 400mm (3 pcs.)

Inch/Metric — Extension pipe type

Range	Order No.	Travel of micrometer head	Extension pipes
8" - 40"	339-293	1"	1", 2", 4", 8", 16"
8" - 80"	339-294	1"	1", 2", 4", 8" (2 pcs.), 16" (3 pcs.)

DIMENSION



Tubular Inside Micrometers

SERIES 137 — Extension Rod Type, SERIES 139 — Extension Pipe Type, SERIES 140 — Extension Pipe Type

FEATURES

- Wide range of ID measurements by combining extension rods (pipes) and anvils with the micrometer head.
- Carbide-tipped measuring faces are available. (series 137)
- The 139 and 140 series use highly-durable/large-diameter extension pipes.



137-205



139-177

SPECIFICATIONS

Metric — Extension rod type

Range	Order No.	Travel of micrometer head	Extension rods
50 - 63mm	137-011 / 137-013*	13mm	—
50 - 150mm	137-201 / 137-206*	13mm	13mm, 25mm, 50mm
50 - 300mm	137-202 / 137-207*	13mm	13mm, 25mm, 50mm (2 pcs.), 100mm
50 - 500mm	137-203 / 137-208*	13mm	13mm, 25mm, 50mm (2 pcs.), 100mm, 200mm
50 - 1000mm	137-204 / 137-209*	13mm	13mm, 25mm, 50mm (2 pcs.), 100mm, 200mm (2 pcs.), 300mm
50 - 1500mm	137-205 / 137-210*	13mm	13mm, 25mm, 50mm (2 pcs.), 100mm, 200mm (3pcs.), 300mm (2 pcs.)

*with carbide tipped face

Inch — Extension rod type

Range	Order No.	Travel of micrometer head	Extension rods
2" - 2.5"	137-012 / 137-014*	.5"	—
2" - 6"	137-211 / 137-216*	.5"	.5", 1", 2"
2" - 12"	137-212 / 137-217*	.5"	.5", 1", 2" (2 pcs.), 4"
2" - 20"	137-213 / 137-218*	.5"	.5", 1", 2" (2 pcs.), 4", 8"
2" - 40"	137-214 / 137-219*	.5"	.5", 1", 2" (2 pcs.), 4", 8" (2 pcs.), 12"
2" - 60"	137-215 / 137-220*	.5"	.5", 1", 2" (2 pcs.), 4", 8" (3 pcs.), 12" (2 pcs.)

*with carbide tipped face

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Technical Data

Accuracy:

- Series 137, 139: $\pm(3+n+L/50)\mu\text{m}^*$
- Series 140: $\pm(7+n+L/50)\mu\text{m}^*$

*n=Number of rod, L=Maximum measuring length (mm), Fraction rounded up

Graduation: 0.01mm or .001"

Optional Accessory

-----: Setting ring (See page 122.)

Metric Extension pipe type

Range	Order No.	Travel of micrometer head	Extension pipes
100 - 125mm	139-001	25mm	—
100 - 500mm	139-173	25mm	25mm, 50mm, 100mm, 200mm
100 - 900mm	139-174	25mm	25mm, 50mm, 100mm, 200mm, 400mm
100 - 1300mm	139-175	25mm	25mm, 50mm, 100mm, 200mm, 400mm (2 pcs.)
100 - 1700mm	139-176	25mm	25mm, 50mm, 100mm, 200mm, 400mm (3 pcs.)
100 - 2100mm	139-177	25mm	25mm, 50mm, 100mm, 200mm, 400mm (4 pcs.)
1000 - 2000mm	140-157	50mm	50mm, 100mm (2 pcs.), 200mm, 500mm
1000 - 3000mm	140-158	50mm	50mm, 100mm (2 pcs.), 200mm, 500mm, 1000mm
1000 - 4000mm	140-159	50mm	50mm, 100mm (2 pcs.), 200mm, 500mm, 1000mm (2 pcs.)
1000 - 5000mm	140-160	50mm	50mm, 100mm (2 pcs.), 200mm, 500mm, 1000mm (3 pcs.)

Inch Extension pipe type

Range	Order No.	Travel of micrometer head	Extension pipes
4" - 5"	139-002	1"	—
4" - 20"	139-178	1"	1", 2", 4", 8"
4" - 36"	139-179	1"	1", 2", 4", 8", 16"
4" - 52"	139-180	1"	1", 2", 4", 8", 16" (2 pcs.)
4" - 68"	139-181	1"	1", 2", 4", 8", 16" (3 pcs.)
4" - 84"	139-182	1"	1", 2", 4", 8", 16" (4 pcs.)
40" - 80"	140-161	2"	2", 4" (2 pcs.), 8", 20"
40" - 120"	140-162	2"	2", 4" (2 pcs.), 8", 20", 40"
40" - 160"	140-163	2"	2", 4" (2 pcs.), 8", 20", 40" (2 pcs.)
40" - 200"	140-164	2"	2", 4" (2 pcs.), 8", 20", 40" (3 pcs.)

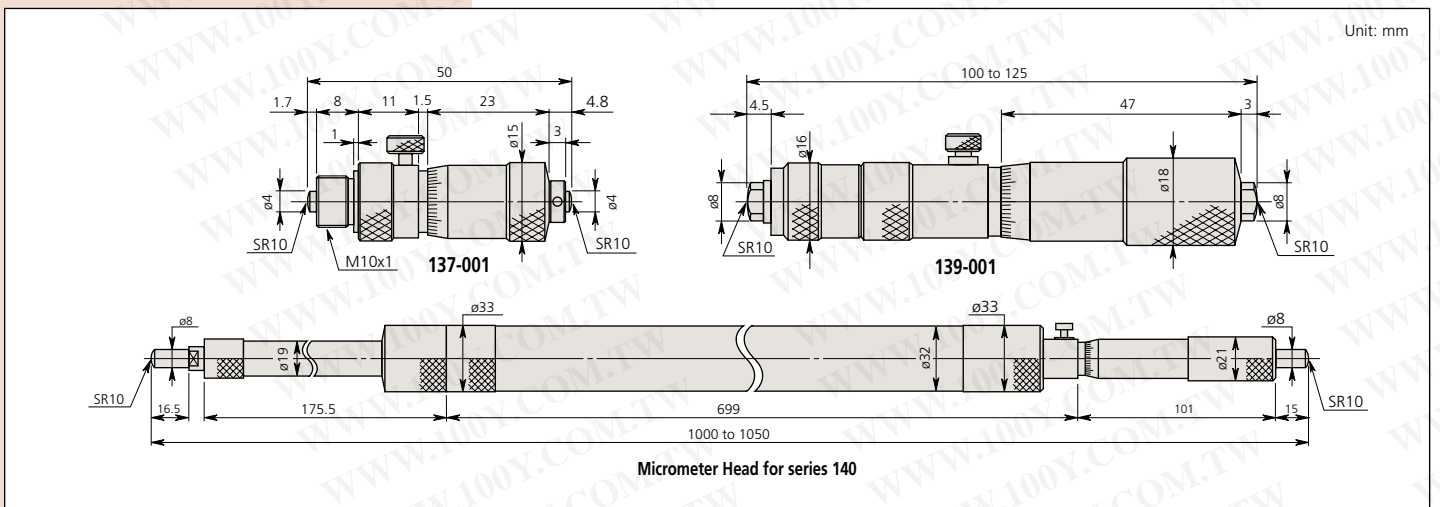


137-011



139-001

DIMENSION



Inside Micrometers

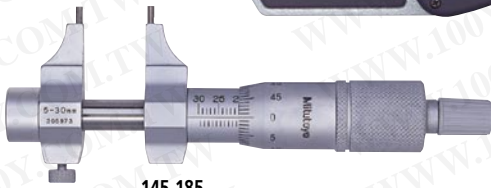
SERIES 345, 145 — Caliper Type

FEATURES

- Caliper type jaws are made of high-grade, tool steel.
- Locking clamp for positive locking of spindle.
- Satin-chrome finished.
- A special holder is available to be used with Mitutoyo Micrometer Stand.



345-250



145-185



145-187

SPECIFICATIONS

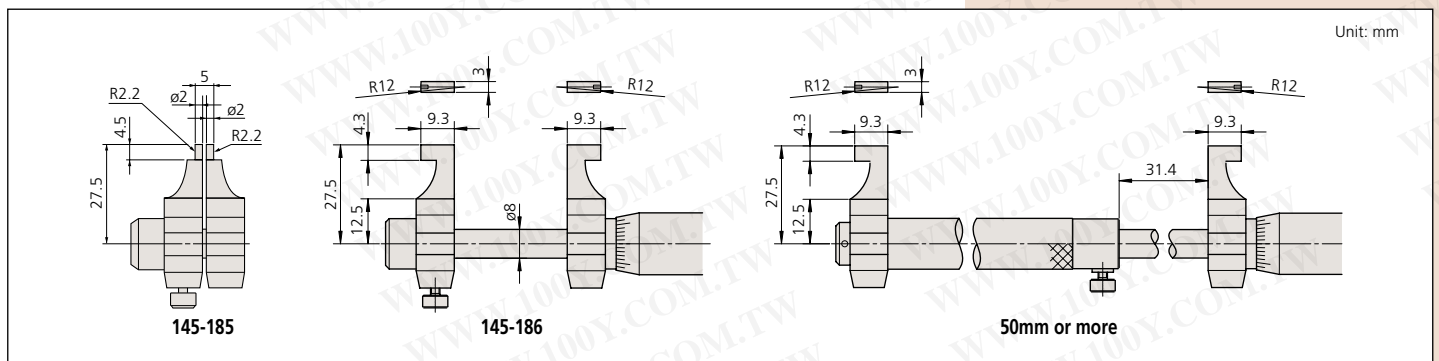
Metric	Order No.	Accuracy
5 - 30mm	345-250	±5μm
25 - 50mm	345-251	±6μm

Inch/Metric	Order No.	Accuracy
2" - 1.2"	345-350	±.00025"
1" - 2"	345-351	±.0003"

Metric	Order No.	Accuracy
5 - 30mm	145-185	±5μm
25 - 50mm	145-186	±6μm
50 - 75mm	145-187	±7μm
75 - 100mm	145-188	±8μm
100 - 125mm	145-189	±9μm
125 - 150mm	145-190	±9μm
150 - 175mm	145-191	±10μm
175 - 200mm	145-192	±10μm
200 - 225mm	145-217	±11μm
225 - 250mm	145-218	±11μm
250 - 275mm	145-219	±12μm
275 - 300mm	145-220	±12μm

Inch	Order No.	Accuracy
2" - 1.2"	145-193	±.00025"
1" - 2"	145-194	±.0003"
2" - 3"	145-195	±.00035"
3" - 4"	145-196	±.0004"
6" - 7"	145-199	±.0005"

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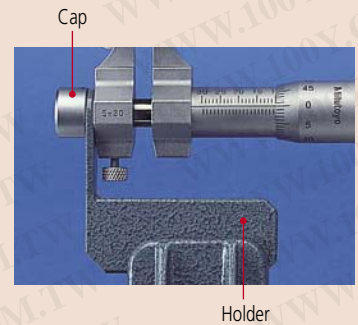
Accuracy: Refer to the list of specifications.
 (excluding quantizing error for digital models)
 Resolution*: 0.01mm or .00005"/0.001mm
 Graduation**: 0.01mm or .001"
 Measuring faces: Carbide tipped
 Display*: LCD
 Battery*: SR44 (1 pc.), 938882
 Battery life*: Approx. 8 months under normal use
 *Digital models **Analog models

Function of Digital Model

Origin-set, Zero-setting, Data hold, Data output, inch/mm conversion (inch/mm models)
 Alarm: Low voltage, Counting value composition error

Optional Accessory

- 05CZA662: SPC cable with data switch (1m)
- 05CA663: SPC cable with data switch (2m)
- : Setting ring (See page 122.)
- 300401: Cap for stand holder
- 300400: Stand holder



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(Refer to the page 9 for details.)

Technical Data

Block pitch accuracy: $\pm(0.001+L/150000)$ mm*
 *L= Length to check (mm)

Optional Accessory

602160: Wooden case for 300mm Inside Micro Checker
 602163: Wooden case for 600mm Inside Micro Checker



Inside Micro Checker

SERIES 515

FEATURES

- The Inside Micro Checker is designed to efficiently check the zero point of a tubular inside micrometer.
- Each measuring block is made of zirconia-based ceramic and it is free from deterioration and dimensional changes over time.



SPECIFICATIONS

Range	Order No.	Length to check
300mm	515-585	25, 50, 75, 100, 125, 150, 175, 200, 225, 250, 275, 300mm
600mm	515-586	25, 50, 75, 100, 125, 150, 175, 200, 225, 250, 275, 300, 325, 350, 375, 400, 425, 450, 475, 500, 525, 550, 575, 600mm

DIMENSION

