

MITUTOYO - MICROMETER HEADS**MICROMETER HEADS**

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MICROMETER HEADS

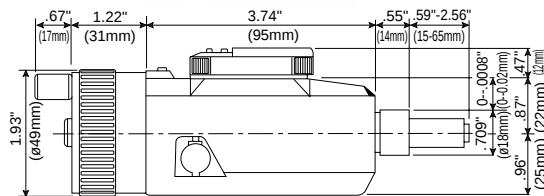
Digimatic Micrometer Heads

Series 164

Non-Rotating Spindle

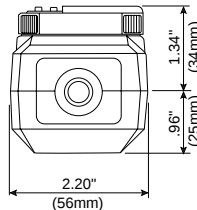


164-162

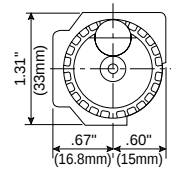
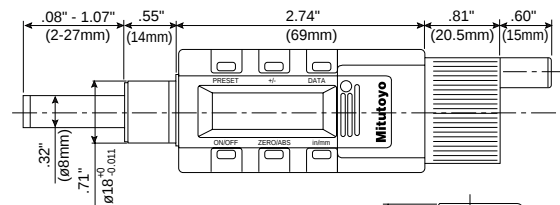


Spindle diameter:
.433" (11mm)

Carbide Contact Face Diameter:
.315" (8mm)



164-172



These LCD reading micrometer heads provide the easiest and most efficient means of obtaining precision measurement of linear travel on microstages and similar applications.

Features

- Resolution: .00005"/0.001mm
- Quantizing error: ± 1 count
- Measuring face: Carbide tip
- Flatness of measuring face: .000012"/0.3 μ m
- SPC output provided
- Number of digits: 6 and minus (-) sign
- Operation temperature: 5°C to 40°C
- Storage temperature: -10°C to 60°C

Digimatic Functions

- Preset
- +/- counting
- Inch/mm conversion
- Zero-set
- Data send for SPC output
- On/Off



Typical application on Toolmaker's microscope.

Specifications

Digimatic Micrometer Heads (with SPC output)

Inch/Metric

Order No.	Range	LCD Resolution	Accuracy
164-162	0-2" 0-50.8mm	.00005" 0.001mm	$\pm .00015$ "
164-172	0-1" 0-25.4mm	.00005" 0.001mm	$\pm .0001$ "

For SPC output order Connecting Cable **937387** (1m) or **965013** (2m).

MICROMETER HEADS

Digimatic Micrometer Head Series 350

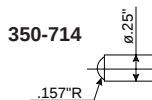
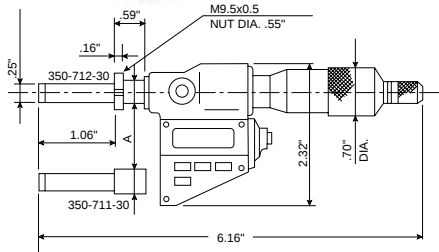
Compact Unit with 50 Millionths Reading



350-711-30



350-712-30



A: Inch/Metric models
350-711-30 & 350-712-30
is .375" $\pm .0005$
Metric only models
350-511-30 &
350-512-30 is 10mm $\pm .009$ mm

Features

- Reads to 50 millionths of an inch.
- Preset capability. This allows an operator to set any desired measurement on the display and recall that measurement with a simple push of a button.
- Instant in/mm conversion.
- Measurement hold key.
- Zero-Set key. Allows for setting zero measurement at any point along the spindle travel.
- SPC output provided.
- Data Send button for transmitting readings to SPC system.

- Each unit comes complete with a battery (offers 1 year of life under normal use), key spanner, and operation manual.
- Carbide-tipped measuring face.
- Locking clamp.
- Runs off single SR44 battery. (No. **541980**)
- Automatic power-off.

Note: Optional bushings available for alternate shank diameter. 64PPP034 .5" Dia. Shank, 64PPP035 .709" Dia. Shank Length of bushings is .5".

Specifications

Digimatic Micrometer Head (with SPC output)

Inch/Metric

Order No.	Range	LCD Resolution	Accuracy	Remarks
350-711-30	0-1" 0-25.4mm	.00005" 0.001mm	$\pm .0001$ "	
350-712-30	0-1" 0-25.4mm	.00005" 0.001mm	$\pm .0001$ "	with Clamp Nut
350-713-30	0-1" 0-25.4mm	.00005" 0.001mm	$\pm .0001$ "	Spherical Face
350-714-30	0-1" 0-25.4mm	.00005" 0.001mm	$\pm .0001$ "	Spherical Face with Clamp Nut

Metric (Metric only models have metric thimble and no inch/mm button).

Order No.	Range	LCD Resolution	Accuracy	Remarks
350-511-30	0-25mm	0.001mm	± 0.002 mm	
350-512-30	0-25mm	0.001mm	± 0.002 mm	

with Clamp Nut

For SPC output order connecting cable **937387** (1m) or **965013** (2m). Replacement Battery: **541980** (1 pc), **541980-10** (10 pcs/SET)

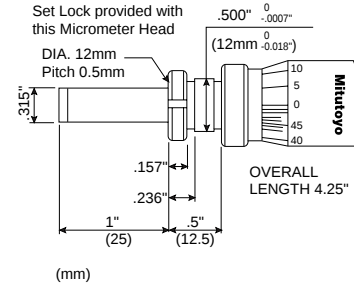
MICROMETER HEADS

Differential Screw Translators Series 110



110-102

Note: Where metric dimensions are given they pertain ONLY to metric models. Where no metric dimension is given the inch and metric models are identical.



Specifications

Differential Screw Translator

Inch

Order No.	Range	Resolution	Overall	Accuracy		Remarks
				One Revolution		
110-111	0-.05"	.00005"	± .0002"	± .00006"		Non-Rotating Spindle with Clamp Nut
110-112	0-.05"	.000005"	± .0002"	± .00006"		

Metric

Order No.	Range	Resolution	Overall	Accuracy		Remarks
				One Revolution		
110-101	0-2.5mm	0.001mm	± 0.005mm	± 0.0015mm		Non-Rotating Spindle with Clamp Nut
110-102	0-2.5mm	0.0001mm	± 0.005mm	± 0.0015mm		

Micrometer Heads Series 148

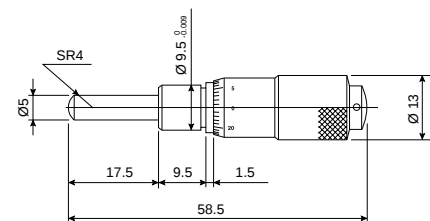
Fine Pitch (0.25mm per revolution)

Standard micrometer head pitch is 0.5mm per revolution. This micrometer head can be used for fine positioning.

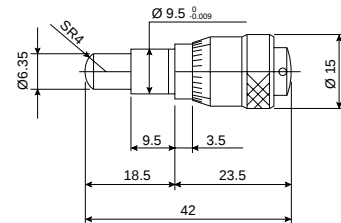
Specifications

Metric

Order No.	Range	Resolution	Accuracy	Remarks
148-132	0-13mm	0.01mm	±0.002mm	Spherical Face
148-133	0-13mm	0.01mm	±0.002mm	Spherical Face with Clamp Nut
148-322	0-6.5mm	0.01mm	±0.002mm	Spherical Face
148-323	0-6.5mm	0.01mm	±0.002mm	Spherical Face with Clamp Nut



148-132



148-322

MICROMETER HEADS

Micrometer Heads Series 148



148-202

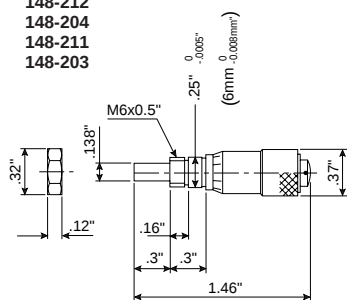


148-212

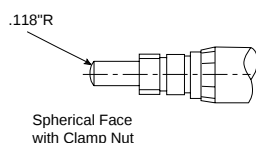


148-215

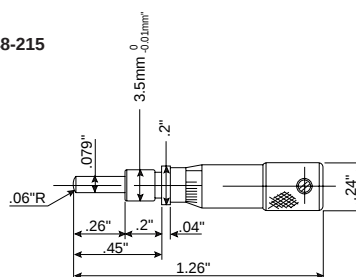
148-212
148-204
148-211
148-203



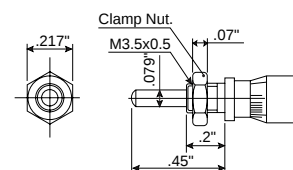
148-207
148-208



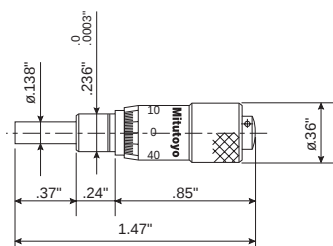
148-215



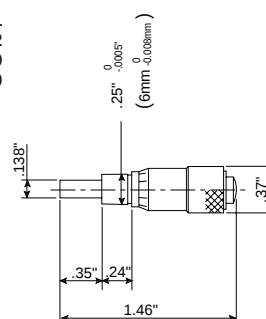
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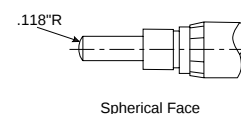
148-451
148-452



148-201
148-202
148-209
148-210



148-205
148-206



Specifications

Micrometer Heads

Note: () METRIC MODEL

Inch

Order No.	Range	Resolution	Accuracy	Remarks
148-202	0—.25"	.001"	±.0002"	
148-452	0—.25"	.001"	±.0002"	
148-204	0—.25"	.001"	±.0002"	with Clamp Nut
148-206	0—.25"	.001"	±.0002"	Spherical Face type
148-208	0—.25"	.001"	±.0002"	Spherical Face type, with Clamp Nut
148-210	0—.25"	.001"	±.0002"	Reverse Reading type
148-212	0—.25"	.001"	±.0002"	Reverse Reading type, with Clamp Nut

Metric

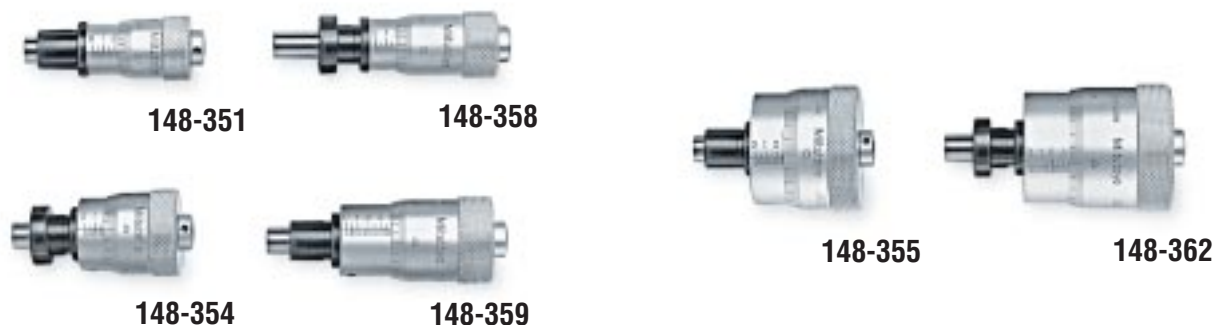
Order No.	Range	Resolution	Accuracy	Remarks
148-215	0—5.0mm	0.02mm	±0.005mm	Spherical Face type
148-216	0—5.0mm	0.02mm	±0.005mm	Spherical Face type, with Clamp Nut
148-201	0—6.5mm	0.01mm	±0.005mm	
148-451	0—6.5mm	0.01mm	±0.005mm	
148-203	0—6.5mm	0.01mm	±0.005mm	with Clamp Nut
148-205	0—6.5mm	0.01mm	±0.005mm	Spherical Face type
148-207	0—6.5mm	0.01mm	±0.005mm	Spherical Face type, with Clamp Nut
148-209	0—6.5mm	0.01mm	±0.005mm	Reverse Reading type
148-211	0—6.5mm	0.01mm	±0.005mm	Reverse Reading type, with Clamp Nut

MICROMETER HEADS

MHC Micrometer Heads

Series 148

Large Thimble Diameter for Easy Reading



The Mitutoyo MHC Micrometer Head offers easy fine-feeding and easy reading due to the large thimble diameter. The MHC is simple to incorporate into machines due to its

compact design. It is ideal as a device to feed machine tables or stages. Large diameter thimble makes fine adjustments easy and provides error-free readout.

Specifications

MHC Micrometer Heads

Inch

Order No.	Range	Resolution	Accuracy	Remarks
148-351	0–.25"	.001"	±.0001"	
148-352	0–.25"	.001"	±.0001"	with Clamp Nut
148-353	0–.25"	.001"	±.0001"	
148-354	0–.25"	.001"	±.0001"	with Clamp Nut
148-355	0–.25"	.001"	±.0001"	
148-356	0–.25"	.001"	±.0001"	with Clamp Nut
148-357	0–.5"	.001"	±.0001"	
148-358	0–.5"	.001"	±.0001"	with Clamp Nut
148-359	0–.5"	.001"	±.0001"	
148-360	0–.5"	.001"	±.0001"	with Clamp Nut
148-361	0–.5"	.001"	±.0001"	
148-362	0–.5"	.001"	±.0001"	with Clamp Nut

Metric

Order No.	Range	Resolution	Accuracy	Remarks
148-301	0–6.5mm	0.01mm	±0.002mm	
148-302	0–6.5mm	0.01mm	±0.002mm	with Clamp Nut
148-303	0–6.5mm	0.01mm	±0.002mm	
148-304	0–6.5mm	0.01mm	±0.002mm	with Clamp Nut
148-305	0–6.5mm	0.01mm	±0.002mm	
148-306	0–6.5mm	0.01mm	±0.002mm	with Clamp Nut
148-307	0–13mm	0.01mm	±0.002mm	
148-308	0–13mm	0.01mm	±0.002mm	with Clamp Nut
148-309	0–13mm	0.01mm	±0.002mm	
148-310	0–13mm	0.01mm	±0.002mm	with Clamp Nut
148-311	0–13mm	0.01mm	±0.002mm	
148-312	0–13mm	0.01mm	±0.002mm	with Clamp Nut, Reverse Reading type

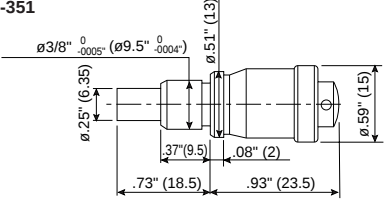
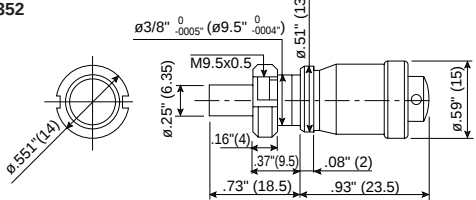
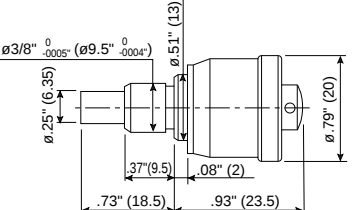
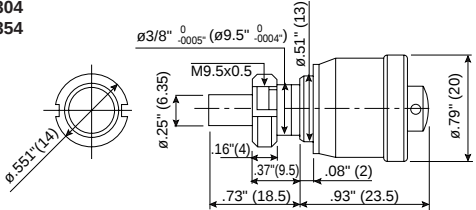
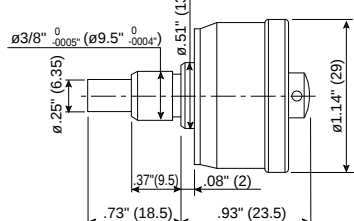
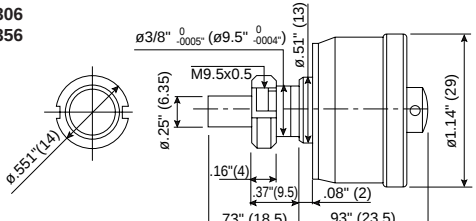
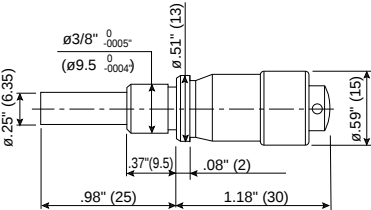
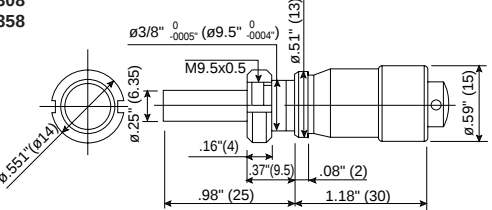
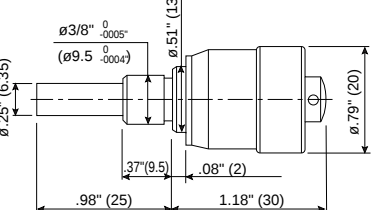
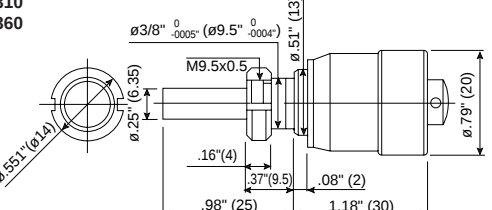
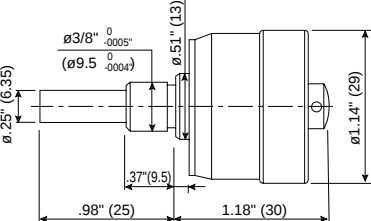
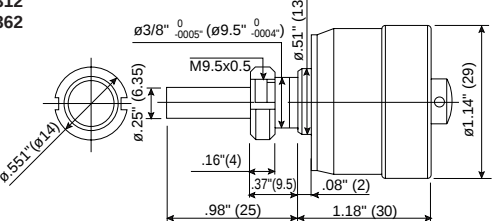
MICROMETER HEADS

MHC Micrometer Heads

Series 148

Large Thimble Diameter for Easy Reading

Note: () METRIC MODEL

148-301 148-351 	148-302 148-352 
148-303 148-353 	148-304 148-354 
148-305 148-355 	148-306 148-356 
148-307 148-357 	148-308 148-358 
148-309 148-359 	148-310 148-360 
148-311 148-361 	148-312 148-362 

MICROMETER HEADS

Micrometer Heads Series 148



148-112



148-822



148-811

Features

- Ratchet stop (950700) is available.

Specifications

Micrometer Heads (without Spindle Lock)

Inch

Order No.	Range	Resolution	Accuracy	Remarks
148-112	0–.5"	.001"	±.0001"	
148-402	0–.5"	.001"	±.0001"	
148-462	0–.5"	.001"	±.0003"	
148-111	0–.5"	.001"	±.0001"	with Clamp Nut
148-811	0–.5"	.001"	±.0001"	Spherical Face type
148-812	0–.5"	.001"	±.0001"	Spherical Face type, with Clamp Nut
148-831	0–.5"	.001"	±.0001"	Reverse Reading type
148-832	0–.5"	.001"	±.0001"	Reverse Reading type, with Clamp Nut

Metric

Order No.	Range	Resolution	Accuracy	Remarks
148-104	0–13mm	0.01mm	±0.002mm	
148-461	0–13mm	0.01mm	±0.007mm	
148-401	0–13mm	0.01mm	±0.002mm	
148-103	0–13mm	0.01mm	±0.002mm	with Clamp Nut
148-801	0–13mm	0.01mm	±0.002mm	Spherical Face type
148-802	0–13mm	0.01mm	±0.002mm	Spherical Face type, with Clamp Nut
148-821	0–13mm	0.01mm	±0.002mm	Reverse Reading type
148-822	0–13mm	0.01mm	±0.002mm	Reverse Reading type, with Clamp Nut

Micrometer Heads (with Spindle Lock)

Inch

Order No.	Range	Resolution	Accuracy	Remarks
148-123	0–.5"	.001"	±.0001"	
148-404	0–.5"	.001"	±.0001"	
148-122	0–.5"	.001"	±.0001"	with Clamp Nut
148-813	0–.5"	.001"	±.0001"	Spherical Face type
148-814	0–.5"	.001"	±.0001"	Spherical Face type, with Clamp Nut
148-833	0–.5"	.001"	±.0001"	Reverse Reading type
148-834	0–.5"	.001"	±.0001"	Reverse Reading type, with Clamp Nut

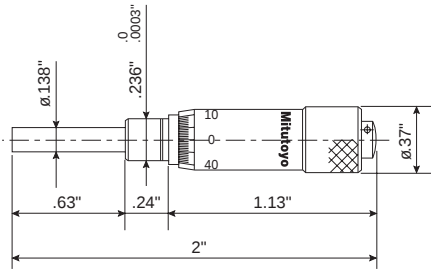
Metric

Order No.	Range	Resolution	Accuracy	Remarks
148-121	0–13mm	0.01mm	±0.002mm	
148-403	0–13mm	0.01mm	±0.002mm	
148-120	0–13mm	0.01mm	±0.002mm	with Clamp Nut
148-803	0–13mm	0.01mm	±0.002mm	Spherical Face type
148-804	0–13mm	0.01mm	±0.002mm	Spherical Face type, with Clamp Nut
148-823	0–13mm	0.01mm	±0.002mm	Reverse Reading type
148-824	0–13mm	0.01mm	±0.002mm	Reverse Reading type, with Clamp Nut

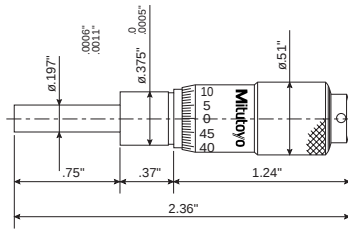
MICROMETER HEADS

Micrometer Heads

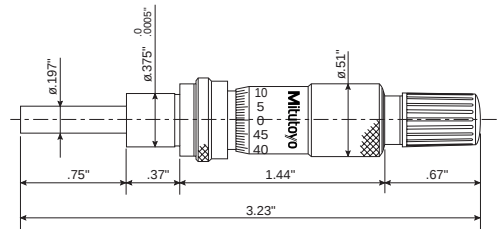
148-461
148-462



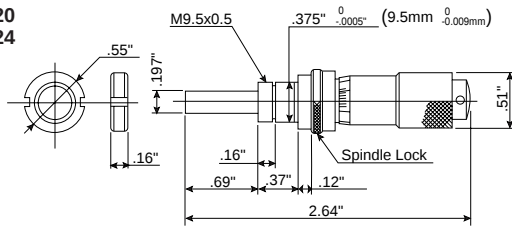
148-401
148-402



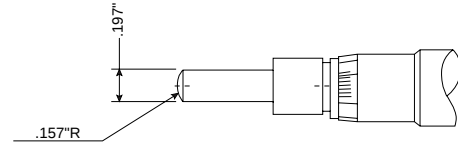
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148-404



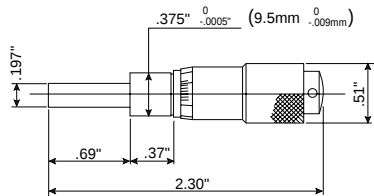
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148-834
148-120
148-824



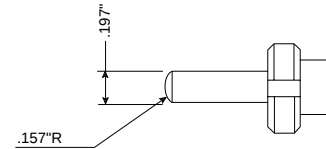
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148-801



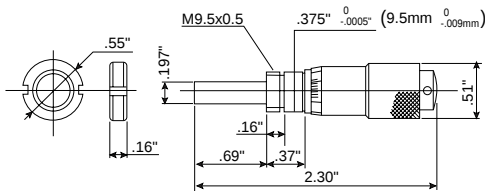
148-112
148-831
148-104
148-821



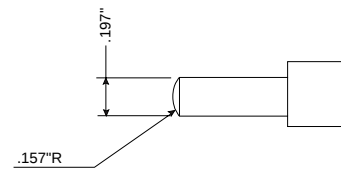
148-812
148-802



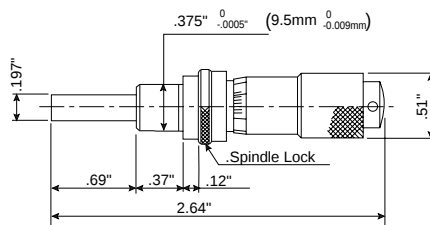
148-111
148-832
148-103



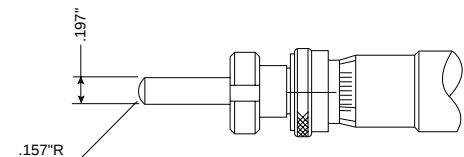
148-813
148-803



148-123
148-833
148-121
148-823



148-814
148-804



MICROMETER HEADS

Micrometer Heads Series 148



148-501*
Clamp Nut



148-862



148-502*
Spindle Lock

*The thimble freely rotates when a hex screw is released. This resettable feature allows easy zero reposition after the mike head is installed.

Note: () METRIC MODEL

Specifications

Micrometer Heads (with Spindle Lock)

Inch

Order No.	Range	Resolution	Accuracy	Remarks
148-502	0-.5"	.001"	±.0001"	with Clamp Nut
148-505	0-.5"	.001"	±.0001"	
148-852	0-.5"	.001"	±.0001"	with Clamp Nut Spherical Face type
148-862	0-.5"	.001"	±.0001"	with Clamp Nut Reverse Reading type

Metric

Order No.	Range	Resolution	Accuracy	Remarks
148-506	0-13mm	0.01mm	±0.002mm	
148-504	0-13mm	0.01mm	±0.002mm	with Clamp Nut
148-854	0-13mm	0.01mm	±0.002mm	with Clamp Nut Spherical Face type
148-864	0-13mm	0.01mm	±0.002mm	with Clamp Nut Reverse Reading type

Micrometer Heads (without Spindle Lock)

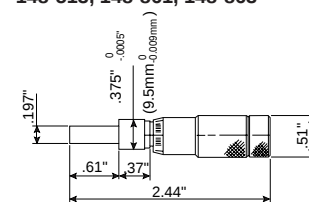
Inch

Order No.	Range	Resolution	Accuracy	Remarks
148-507	0-.5"	.001"	±.0001"	with Clamp Nut
148-501	0-.5"	.001"	±.0001"	
148-851	0-.5"	.001"	±.0001"	Spherical Face type
148-861	0-.5"	.001"	±.0001"	Reverse Reading type
148-511	0-.5"	.001"	±.0001"	All Stainless Steel

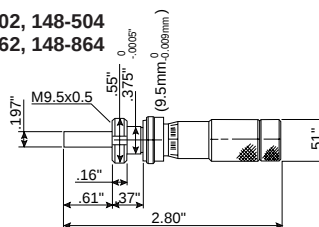
Metric

Order No.	Range	Resolution	Accuracy	Remarks
148-503	0-13mm	0.01mm	±0.002mm	
148-508	0-13mm	0.01mm	±0.002mm	with Clamp Nut
148-853	0-13mm	0.01mm	±0.002mm	Spherical Face type
148-863	0-13mm	0.01mm	±0.002mm	Reverse Reading type
148-513	0-13mm	0.01mm	±0.002mm	All Stainless Steel

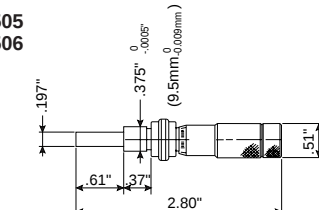
148-501, 148-503, 148-511
148-513, 148-861, 148-863



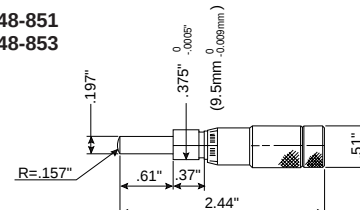
148-502, 148-504
148-862, 148-864



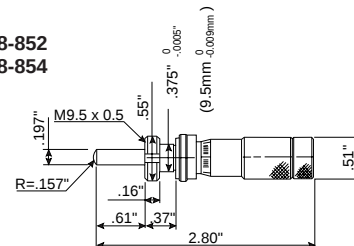
148-505
148-506



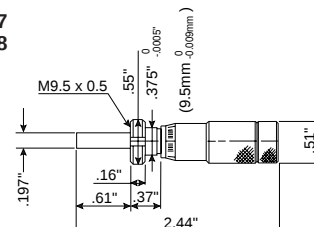
148-851
148-853



148-852
148-854



148-507
148-508



MICROMETER HEADS

Micrometer Heads

Series 149



149-131



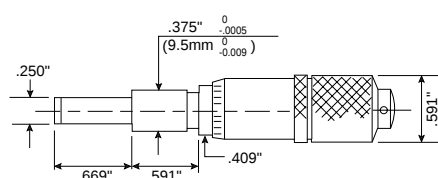
149-812



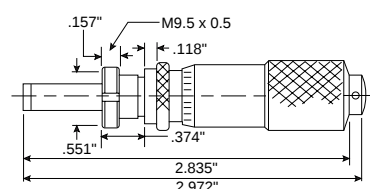
149-801



149-148



No Spindle Lock
No Clamp Nut



With Spindle Lock
With Clamp Nut

Note: () Metric Model

Features

- Carbide-tipped measuring face
- Optional Ratchet stop (950700) is available.

Specifications

Micrometer Heads

Inch

Order No.	Range	Resolution	Accuracy	Remarks
149-147	0–.5"	.001"	±.0001"	with Clamp Nut
149-148	0–.5"	.001"	±.0001"	
149-182	0–.5"	.001"	±.0001"	with Spindle Lock/with Clamp Nut
149-185	0–.5"	.001"	±.0001"	with Spindle Lock
149-811	0–.5"	.001"	±.0001"	Spherical Face Type
149-812	0–.5"	.001"	±.0001"	Spherical Face Type with Clamp Nut
149-831	0–.5"	.001"	±.0001"	Reverse Reading type
149-832	0–.5"	.001"	±.0001"	Reverse Reading type with Clamping Nut

Metric

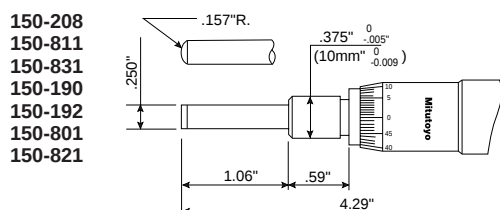
Order No.	Range	Resolution	Accuracy	Remarks
149-131	0–15mm	0.01mm	±0.002mm	with Clamp Nut
149-132	0–15mm	0.01mm	±0.002mm	
149-183	0–15mm	0.01mm	±0.002mm	with Spindle Lock
149-184	0–15mm	0.01mm	±0.002mm	with Spindle Lock/with Clamp Nut
149-801	0–15mm	0.01mm	±0.002mm	Spherical Face type
149-802	0–15mm	0.01mm	±0.002mm	Spherical Face type with Clamp Nut
149-821	0–15mm	0.01mm	±0.002mm	Reverse Reading type
149-822	0–15mm	0.01mm	±0.002mm	Reverse Reading type with Clamp Nut

MICROMETER HEADS

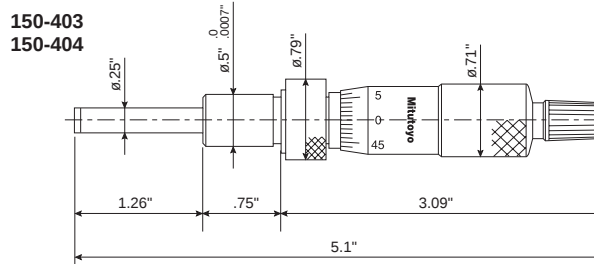
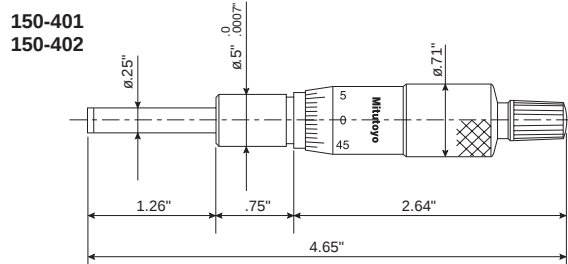
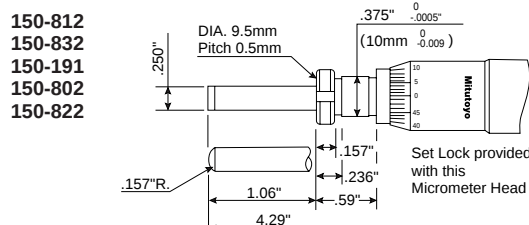
Micrometer Heads Series 150



150-832



150-208



Features

- Carbide-tipped measuring face

Note: () METRIC MODEL

Specifications

Micrometer Heads

Inch

Order No.	Range	Resolution	Accuracy	Remarks
150-208	0–1"	.001"	±.0001"	
150-402	0–1"	.001"	±.0001"	
150-404	0–1"	.001"	±.0001"	with Spindle Lock
150-811	0–1"	.001"	±.0001"	Spherical Face type
150-812	0–1"	.001"	±.0001"	Spherical Face type with Clamp Nut
150-831	0–1"	.001"	±.0001"	Reverse Reading
150-832	0–1"	.001"	±.0001"	Reverse Reading with Clamp Nut

Metric

Order No.	Range	Resolution	Accuracy	Remarks
150-190	0–25mm	0.001mm	±0.002mm	
150-401	0–25mm	0.001mm	±0.002mm	
150-403	0–25mm	0.001mm	±0.002mm	with Spindle Lock
150-191	0–25mm	0.01mm	±0.002mm	with Clamp Nut
150-192	0–25mm	0.01mm	±0.002mm	
150-801	0–25mm	0.01mm	±0.002mm	Spherical Face type
150-802	0–25mm	0.01mm	±0.002mm	Spherical Face type with Clamp Nut
150-821	0–25mm	0.01mm	±0.002mm	Reverse Reading
150-822	0–25mm	0.01mm	±0.002mm	Reverse Reading with Clamp Nut

All Series 150 Micrometer Heads are supplied with carbide measuring face and ratchet stop.

MICROMETER HEADS

Micrometer Heads Series 151

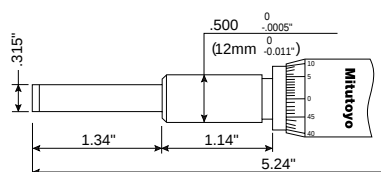


151-238

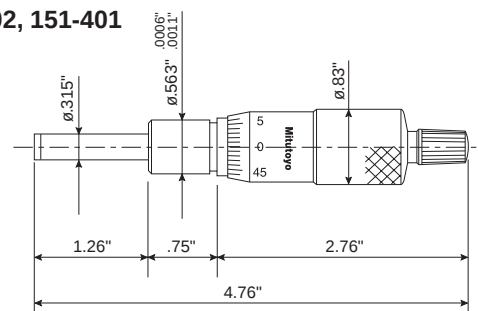


151-237

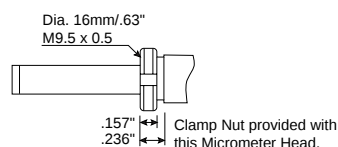
151-238, 151-240, 151-222, 151-224



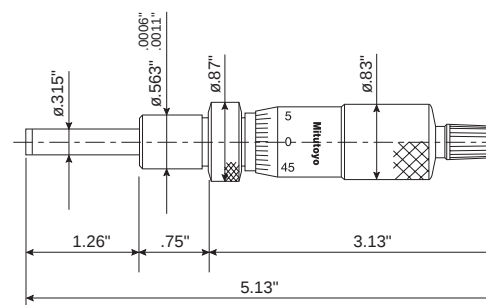
151-402, 151-401



151-237, 151-239, 151-221, 151-223



151-404, 151-403



Features

- Carbide-tipped measuring face.

Specifications

Micrometer Heads

Inch

Order No.	Range	Resolution	Accuracy	Remarks
151-237	0–1"	.0001"	±.0001"	with Clamp Nut
151-238	0–1"	.0001"	±.0001"	
151-239	0–1"	.001"	±.0001"	with Clamp Nut
151-240	0–1"	.001"	±.0001"	
151-402	0–1"	.001"	±.0001"	
151-404	0–1"	.001"	±.0002"	with Spindle Lock

Metric

Order No.	Range	Resolution	Accuracy	Remarks
151-221	0–25mm	0.001mm	±0.002mm	with Clamp Nut
151-222	0–25mm	0.001mm	±0.002mm	
151-223	0–25mm	0.01mm	±0.002mm	with Clamp Nut
151-224	0–25mm	0.01mm	±0.002mm	
151-401	0–25mm	0.01mm	±0.002mm	
151-403	0–25mm	0.01mm	±0.002mm	with Spindle Lock

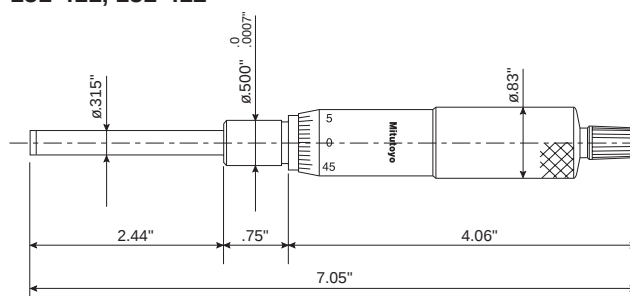
MICROMETER HEADS

Micrometer Heads Series 151

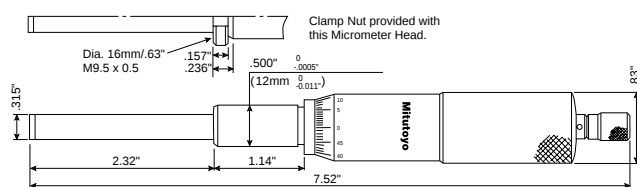


151-271

151-411, 151-412

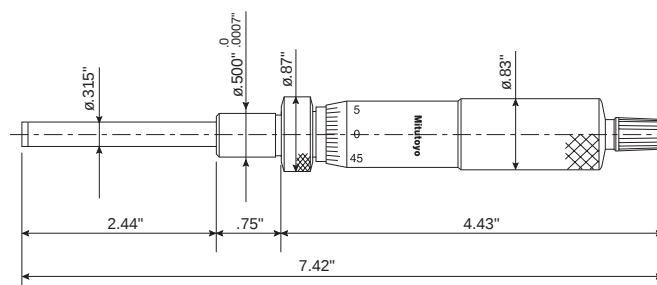


151-271, 151-272, 151-255, 151-256



NOTE:() Metric Model

151-413, 151-414



Features

- Carbide-tipped measuring face.

Specifications

Micrometer Heads

Inch

Order No.	Range	Resolution	Accuracy	Remarks
151-271	0–2"	.001"	$\pm .0002$ "	with Clamp Nut
151-272	0–2"	.001"	$\pm .0002$ "	
151-412	0–2"	.001"	$\pm .0002$ "	
151-414	0–2"	.001"	$\pm .0002$ "	with Spindle Lock

Metric

Order No.	Range	Resolution	Accuracy	Remarks
151-255	0–50mm	0.01mm	± 0.004 mm	
151-256	0–50mm	0.01mm	± 0.004 mm	
151-411	0–50mm	0.01mm	± 0.004 mm	
151-413	0–50mm	0.01mm	± 0.004 mm	with Spindle Lock

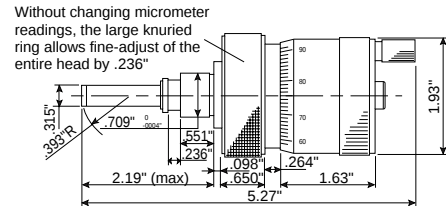
All 151 Series Micrometer Heads are supplied with carbide measuring face and ratchet stop.

MICROMETER HEADS

Zero Adjustable Micrometer Heads Series 152



152-401



Features

- Fine-adjust mechanism allows spindle to be moved with the thimble fixed at any position.
- Carbide-tipped spherical measuring face.

Zero Adjustable Micrometer Head

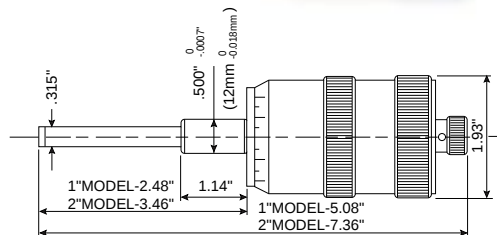
Metric

Order No.	Range	Resolution	Accuracy	Remarks
152-401	0–25mm	0.001mm	±0.002mm	For Y axis
152-402	0–25mm	0.001mm	±0.002mm	For X axis

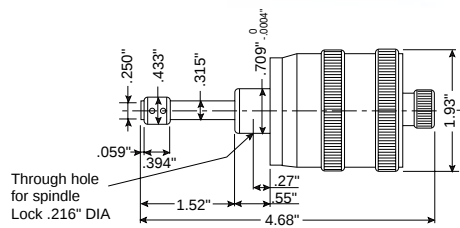
Micrometer Heads Series 152



152-372



152-391



Features

- Carbide-tipped measuring face.
- Floating thimble can be rotated with the spindle fixed, allowing zero setting at any position.

- Non-rotating device is attached to the spindle tip. (See “Technical Information” of this section.)
- Bidirectional graduation.

Specifications

Micrometer Heads

Inch

Order No.	Range	Resolution	Accuracy	Remarks
152-372	0–1"	.0001"	±.0001"	
152-388	0–2"	.0001"	±.0002"	

Metric

Order No.	Range	Resolution	Accuracy	Remarks
152-348	0–25mm	0.002mm	±0.002mm	

Inch

Order No.	Range	Resolution	Accuracy	Remarks
152-391	0–1"	.0001"	±.0001"	For Y axis
152-392	0–1"	.0001"	±.0001"	For X axis

Metric

Order No.	Range	Resolution	Accuracy	Remarks
152-389	0–25mm	0.005mm	±0.002mm	For Y axis
152-390	0–25mm	0.005mm	±0.002mm	For X axis

MICROMETER HEADS

Non-Rotating Micrometer Heads Series 153



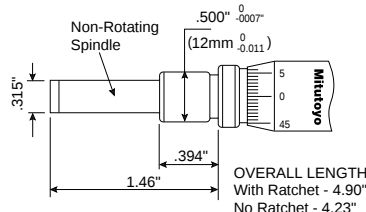
153-205



153-208

Features

- Carbide-tipped measuring face
- .001" (0.01mm) reading type and .0001" (0.001mm) reading type with vernier.



NOTE: () METRIC MODEL

Specifications

Non-Rotating Spindle Micrometer Heads

Inch

Order No.	Range	Resolution	Accuracy	Remarks
153-207	0–1"	.001"	±.00015"	
153-205	0–1"	.001"	±.00015"	with Ratchet stop
153-208	0–1"	.0001"	±.00015"	
153-206	0–1"	.0001"	±.00015"	with Ratchet stop

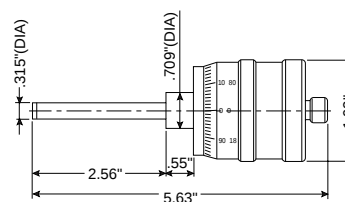
Metric

Order No.	Range	Resolution	Accuracy	Remarks
153-203	0–25mm	0.01mm	±0.003mm	
153-201	0–25mm	0.01mm	±0.003mm	with Ratchet stop
153-204	0–25mm	0.001mm	±0.003mm	
153-202	0–25mm	0.001mm	±0.003mm	with Ratchet stop

Micrometer Heads Series 197



197-201



Features

- Carbide-tipped measuring face
- Non-rotating spindle

Micrometer Heads

Inch

Order No.	Range	Resolution	Accuracy
197-201	0–2"	.0002"	±.0002"

Metric

Order No.	Range	Resolution	Accuracy
197-101	0–50mm	0.005mm	±0.005mm

MICROMETER HEADS

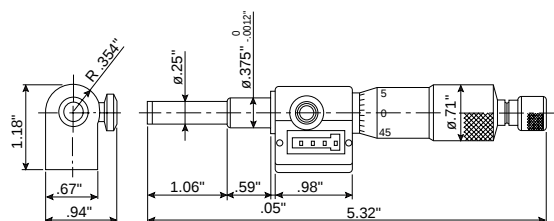
Digit Micrometer Heads

Series 250

with Mechanical Counter Outside Thimble



250-312



Features

- Spindle locking clamp
- Carbide-tipped measuring face
- Ratchet stop for constant force.

Specifications

Digit Micrometer Heads with Mechanical Counter Outside Thimble

Inch

Order No.	Range	Resolution	Accuracy	Remarks
250-312	0–1"	.0001"	±.0001"	with Spindle Lock

Metric

Order No.	Range	Resolution	Accuracy	Remarks
250-301	0–25mm	0.01mm	±0.002mm	with Spindle Lock

Micro Jack

Series 7



7850

Features

- Used for accurate leveling of machines, surface plates, and other precision instruments.
- Easy adjustment under heavy load.

Specifications

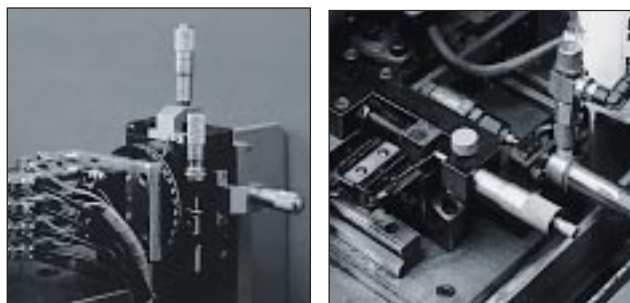
Metric

Height adjustment	Order No.	Graduation	Maximum load
60 - 75mm	7850	0.01mm	400kgf

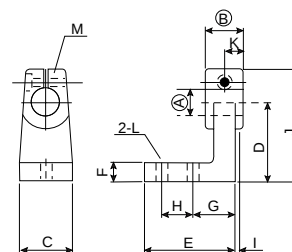
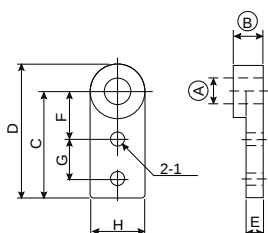
Accessories for Micrometer Heads

Features

- The act of fabricating brackets to mount micrometer heads for each particular application can be laborious and costly. Mitutoyo offers various types of fixtures for micrometer heads to meet a wide range of applications. These fixtures are made of nickel-plated cast iron.



Note: Fixtures are not used in these examples.



Fixtures for Micrometers with Clamping Nut

No.	303563	303572	303582
A	ø.374"(9.5mm)	ø.374"(9.5mm)	ø.394"(10mm)
B	.236"(6mm)	.453"(11.5mm)	.453"(11.5mm)
C	1.181"(30mm)	1.575"(40mm)	1.575"(40mm)
D	1.476"(37.5mm)	1.969"(50mm)	1.969"(50mm)
E	.177"(4.5mm)	.256"(6.5mm)	.256"(6.5mm)
F	.591"(15mm)	.709"(18mm)	.709"(18mm)
G	.394"(10mm)	.591"(15mm)	.591"(15mm)
H	.591"(15mm)	.787"(20mm)	.787"(20mm)
I	ø.134"(3.4mm)	ø.177"(4.5mm)	ø.177"(4.5mm)

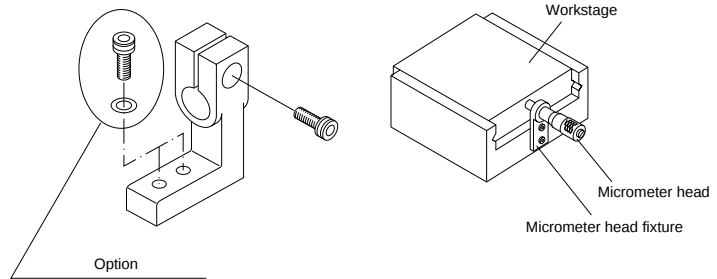
Fixtures for Micrometers without Clamping Nut

No.	303560	303569	303579
A	ø.374"(9.5mm)	ø.374"(9.5mm)	ø.394"(10mm)
B	.354"(9mm)	.571"(14.5mm)	.571"(14.5mm)
C	.591"(15mm)	.787"(20mm)	.787"(20mm)
D	.787"(20mm)	1.181"(30mm)	1.181"(30mm)
E	.906"(23mm)	1.378"(35mm)	1.378"(35mm)
F	.197"(5mm)	.276"(7mm)	.276"(7mm)
G	.433"(11mm)	.63"(16mm)	.63"(16mm)
H	.315"(8mm)	.472"(12mm)	.472"(12mm)
I	.06"(1.5mm)	.128"(3.25mm)	.128"(3.25mm)
J	1.28"(32.5mm)	1.673"(42.5mm)	1.673"(42.5mm)
K	.177"(4.5mm)	.285"(7.25mm)	.285"(7.25mm)
L	ø.134"(3.4mm)	ø.177"(4.5mm)	ø.177"(4.5mm)
M	M3x0.5	M3x0.5	M3x0.5

Accessories for Micrometer Heads

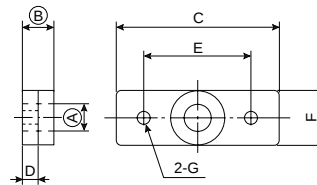
• Standard Accessories

Fixing screw for stem without clamp nut
(Socket head screw: M3X0.5X12mm)



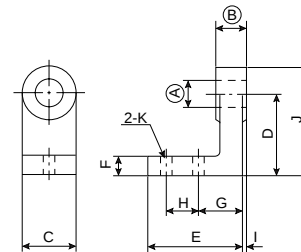
Fixtures for Micrometers with Clamping Nut

No.	303561	303570	303580
A	ø.374"(9.5mm)	ø.374"(9.5mm)	ø.394"(10mm)
B	.236"(6mm)	.453"(11.5mm)	.453"(11.5mm)
C	1.575"(40mm)	2.362"(60mm)	2.362"(60mm)
D	.138"(3.5mm)	.217"(5.5mm)	.217"(5.5mm)
E	1.181"(30mm)	1.575"(40mm)	1.575"(40mm)
F	.591"(15mm)	.787"(20mm)	.787"(20mm)
G	ø.134"(3.4mm)	ø.177"(4.5mm)	ø.177"(4.5mm)



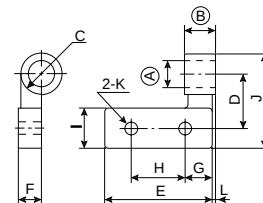
Fixtures for Micrometers with Clamping Nut

No.	303559	303568	303578
A	ø.374"(9.5mm)	ø.374"(9.5mm)	ø.394"(10mm)
B	.236"(6mm)	.453"(11.5mm)	.453"(11.5mm)
C	.591"(15mm)	.787"(20mm)	.787"(20mm)
D	.787"(20mm)	1.181"(30mm)	1.181"(30mm)
E	.945"(24mm)	1.378"(35mm)	1.378"(35mm)
F	.197"(5mm)	.276"(7mm)	.276"(7mm)
G	.433"(11mm)	.63"(16mm)	.63"(16mm)
H	.315"(8mm)	.472"(12mm)	.472"(12mm)
I	.02"(0.5mm)	.069"(1.75mm)	.069"(1.75mm)
J	1.083"(27.5mm)	1.575"(40mm)	1.575"(40mm)
K	ø.134"(3.4mm)	ø.177"(4.5mm)	ø.177"(4.5mm)



Fixtures for Micrometers with Clamping Nut

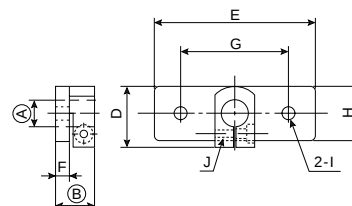
No.	303565	303574	303584
A	ø.374"(9.5mm)	ø.374"(9.5mm)	ø.394"(10mm)
B	.236"(6mm)	.453"(11.5mm)	.453"(11.5mm)
C	ø.591"(15mm)	ø.591"(15mm)	ø.591"(15mm)
D	.591"(15mm)	.787"(20mm)	.787"(20mm)
E	.984"(25mm)	1.575"(40mm)	1.575"(40mm)
F	.335"(8.5mm)	.335"(8.5mm)	.335"(8.5mm)
G	.295"(7.5mm)	.394"(10mm)	.394"(10mm)
H	.394"(10mm)	.787"(20mm)	.787"(20mm)
I	.394"(10mm)	.591"(15mm)	.591"(15mm)
J	1.083"(27.5mm)	1.378"(35mm)	1.378"(35mm)
K	ø.134"(3.4mm)	ø.177"(4.5mm)	ø.177"(4.5mm)
L	.03"(0.75mm)	.05"(1.25mm)	.05"(1.25mm)



Accessories for Micrometer Heads

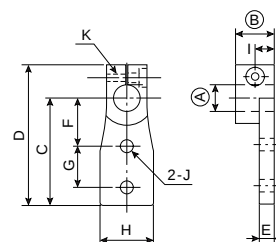
Fixtures for Micrometers without Clamping Nut

No.	303562	303571	303581
A	ø.374"(9.5mm)	ø.374"(9.5mm)	ø.394"(10mm)
B	.354"(9mm)	.571"(14.5mm)	.571"(14.5mm)
C	.591"(15mm)	.591"(15mm)	.591"(15mm)
D	.787"(20mm)	.886"(22.5mm)	.886"(22.5mm)
E	1.575"(40mm)	2.362"(60mm)	2.362"(60mm)
F	.118"(3mm)	.197"(5mm)	.197"(5mm)
G	1.181"(30mm)	1.575"(40mm)	1.575"(40mm)
H	.591"(15mm)	.787"(20mm)	.787"(20mm)
I	ø.134"(3.4mm)	ø.177"(4.5mm)	ø.177"(4.5mm)
J	M3x0.5	M3x0.5	M3x0.5



Fixtures for Micrometers without Clamping Nut

No.	303564	303573	303583
A	ø.374"(9.5mm)	ø.374"(9.5mm)	ø.394"(10mm)
B	.354"(9mm)	.571"(14.5mm)	.571"(14.5mm)
C	1.181"(30mm)	1.575"(40mm)	1.575"(40mm)
D	1.673"(42.5mm)	2.067"(52.5mm)	2.067"(52.5mm)
E	.157"(4mm)	.236"(6mm)	.236"(6mm)
F	.591"(15mm)	.709"(18mm)	.709"(18mm)
G	.394"(10mm)	.591"(15mm)	.591"(15mm)
H	.591"(15mm)	.787"(20mm)	.787"(20mm)
I	.177"(4.5mm)	.285"(7.25mm)	.285"(7.25mm)
J	ø.134"(3.4mm)	ø.177"(4.5mm)	ø.177"(4.5mm)
K	M3x0.5	M3x0.5	M3x0.5



Fixtures for Micrometers without Clamping Nut

No.	303566	303575	303585
A	ø.374"(9.5mm)	ø.374"(9.5mm)	ø.394"(10mm)
B	.354"(9mm)	.571"(14.5mm)	.571"(14.5mm)
C	.591"(15mm)	.591"(15mm)	.591"(15mm)
D	.591"(15mm)	.787"(20mm)	.787"(20mm)
E	.984"(25mm)	1.575"(40mm)	1.575"(40mm)
F	.335"(8.5mm)	.335"(8.5mm)	.335"(8.5mm)
G	.295"(7.5mm)	.394"(10mm)	.394"(10mm)
H	.394"(10mm)	.787"(20mm)	.787"(20mm)
I	.394"(10mm)	.591"(15mm)	.591"(15mm)
J	1.28"(32.5mm)	1.575"(40mm)	1.575"(40mm)
K	.177"(4.5mm)	.285"(7.25mm)	.285"(7.25mm)
L	ø.134"(3.4mm)	ø.177"(4.5mm)	ø.177"(4.5mm)
M	M3x0.5	M3x0.5	M3x0.5

