

Functions (series 164)

Origin point setting (ABS measurement system):
Resets the ABS origin at the current spindle position to the minimum value of the measuring range and switches to ABS mode.

Zero-setting (INC measurement system):
A brief press on the ZERO/ABS button sets display to zero at the current spindle position and switches to the incremental (INC) measuring mode. A longer press resets to the ABS measuring mode.

Data output:
Equipped with output port for transferring measurement data to a Statistical Process Control (SPC) and measurement system.

Auto power ON/OFF:
The reading on the display disappears after this instrument is idle for about 20 minutes, but the reading and measurement mode are retained. Turning the spindle causes the reading on the display to reappear.

Error alarm:
In case of an overflow on the display or a computing error, an error message appears on the display and the measuring function stops. This prevents an instrument from giving an erroneous reading. Also, when the battery voltage drops to a certain level, the low-battery indicator appears well before the micrometer becomes unusable.

Optional Accessories

Code No.	Type	Description
264-020	—	USB Input Tool Series USB Keyboard Signal Conversion Type IT-020U
05CZA662	B	Connection cable (1 m): for series 350 (IP65)
05CZA663	B	Connection cable (2 m): for series 350 (IP65)
959149	C	Connection cable for series 164 (1 m)
959150	C	Connection cable for series 164 (2 m)
06AFM380B	B	USB Input Tool Direct for series 350 (IP65) (2 m)
06AFM380C	C	USB Input Tool Direct for series 164 (2 m)
02AZD790B	B	Connection cable for U-WAVE-T (160 mm): for series 350 (IP65)
02AZE140B	B	Connection cable for U-WAVE-T For foot switch: for series 350 (IP65)
02AZD790C	C	Connection cable for U-WAVE-T (160 mm): for series 164
02AZE140C	C	Connection cable for U-WAVE-T For foot switch: for series 164
264-622	IP67	U-WAVE-TM
264-623	Buzzer	U-WAVE-TM
264-626	IP67	U-WAVE-TMB
264-627	Buzzer	U-WAVE-TMB
02AZF310	IP67	Connecting unit for U-WAVE-TM/TMB*

* Cannot be used with **164-163** and **164-164**

Digimatic Micrometer Heads SERIES 164, 350

- Easy-to-read digital display.

- All models support data output.



164-163



350-281-30 (IP65)

SPECIFICATIONS

Metric								
Code No.	Range (mm)	Resolution (mm)	Graduation (mm)	Stem	Stem dia. (mm)	Spindle end	Graduation features	Maximum permissible error J_{MPE} (μm)
164-163	0 - 50	0.001	—	Plain	18	Flat (carbide tip)	Standard	±3
350-251-30*1	0 - 25		0.01	W/clamp nut	10			Spherical (SR4) (carbide tip)
350-252-30*1				Plain				
350-253-30*1				W/clamp nut				
350-254-30*1				Plain				
350-281-30*2				W/clamp nut	12	Flat (carbide tip)		
350-282-30*2				Plain		Spherical (SR4) (carbide tip)		
350-283-30*2				W/clamp nut		Flat		
350-284-30*2				Plain				
350-261-30*2				W/clamp nut				
350-271-30*2				Plain				
350-272-30*1				W/clamp nut		Spherical (SR4) (carbide tip)		
350-273-30*2				Plain				
350-274-30*1				W/clamp nut				

Inch / Metric								
Code No.	Range (in)	Resolution	Graduation	Stem	Stem dia. (in)	Spindle end	Graduation features	Maximum permissible error J_{MPE} (in)
164-164	0 - 2	0.00005 in/ 0.001 mm	0.001 in/ 0.01 mm	Plain	0.709	Flat (carbide tip)	Standard	±0.00015
350-351-30*1	0 - 1			W/clamp nut	0.375	Spherical (SR4) (carbide tip)		
350-352-30*1				Plain				
350-353-30*1				W/clamp nut				
350-354-30*1				Plain				
350-357-30*1				0.5	Flat (carbide tip)			
350-381-30*2					Spherical (SR4) (carbide tip)			
350-382-30*2					Flat			
350-383-30*2								
350-384-30*2								
350-361-30*2								

- Power source for **series 350**: SR44 battery (1 pc.), **938882** included as standard (for operational checks)
- Power source for **series 164**: SR44 battery (2 pcs.), **938882** included as standard (for operational checks)

- Battery life: Approx. 2.4 years under normal use (for **350-XXX**)
Approx. 1.8 years under normal use (for **164-163, 164**)

- Measuring face: Material/Carbide tip, Hardness/90 HRA or more, Lapped

- Scale finishing: Satin-chrome plated

*1 These models are not water-proof.

*2 IP65 dust/water protection type. Stem diameter of IP65 type is 12 mm.

Note: For functional details of **series 350** refer to page 02-7. Origin setting is by presetting.

DIMENSIONS

Plain Stem

Unit: mm

164-163 Rotatable display Mass: 490 g
() : with spindle fully retracted.

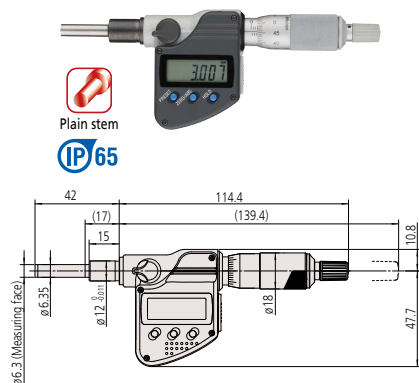
Micrometer Head

Digimatic Micrometer Heads SERIES 164, 350

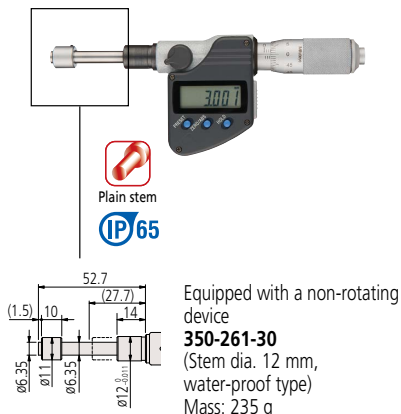
DIMENSIONS

Plain Stem

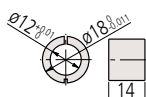
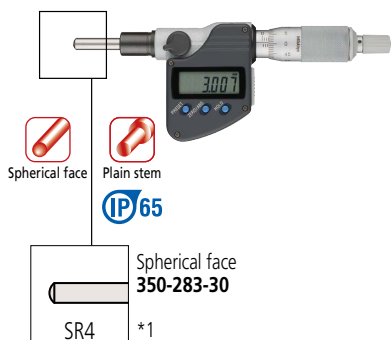
Unit: mm



350-281-30
(Stem dia. 12 mm, water-proof type) Mass: 230 g



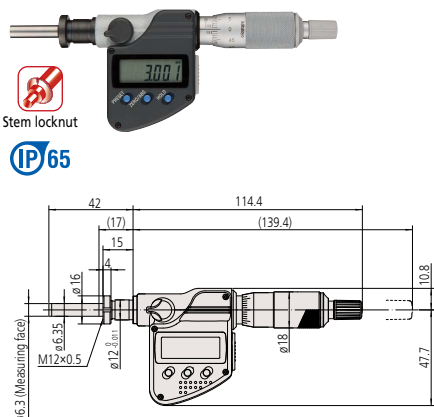
Equipped with a non-rotating device
350-261-30
(Stem dia. 12 mm, water-proof type)
Mass: 235 g



Bush (standard accessory)
350-261-30

*1 Other dimensions are the same as **350-281-30**.
(): with spindle fully retracted.

Stem locknut



• Fixture thickness: 11.5 mm
350-282-30 (Stem dia. 12 mm, equipped with locknut, water-proof type) Mass: 230 g

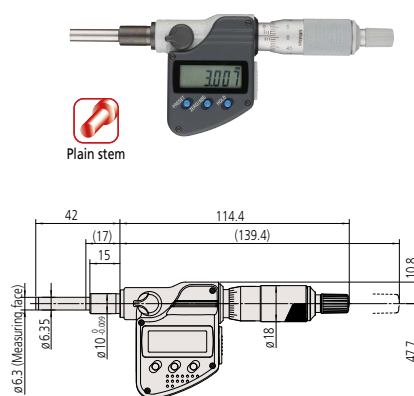


*2 Other dimensions are the same as **350-282-30**.
(): with spindle fully retracted.

DIMENSIONS

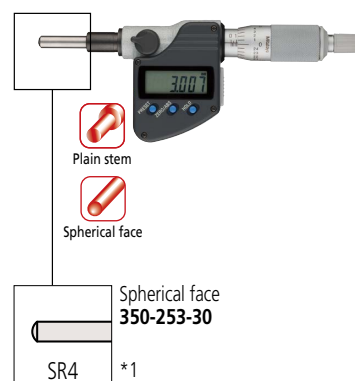
Plain Stem

Unit: mm



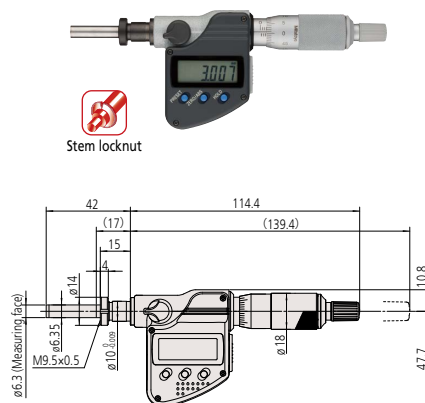
350-251-30

(Stem dia. 10 mm, for general use) Mass: 230 g

*1 Other dimensions are the same as **350-251-30**.

(): with spindle fully retracted.

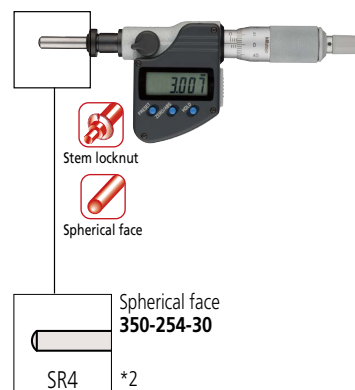
Stem Locknut



- Fixture thickness: 11.5 mm

350-252-30

(Stem dia. 10 mm, for general use) Mass: 230 g

*2 Other dimensions are the same as **350-252-30**.

(): with spindle fully retracted.