

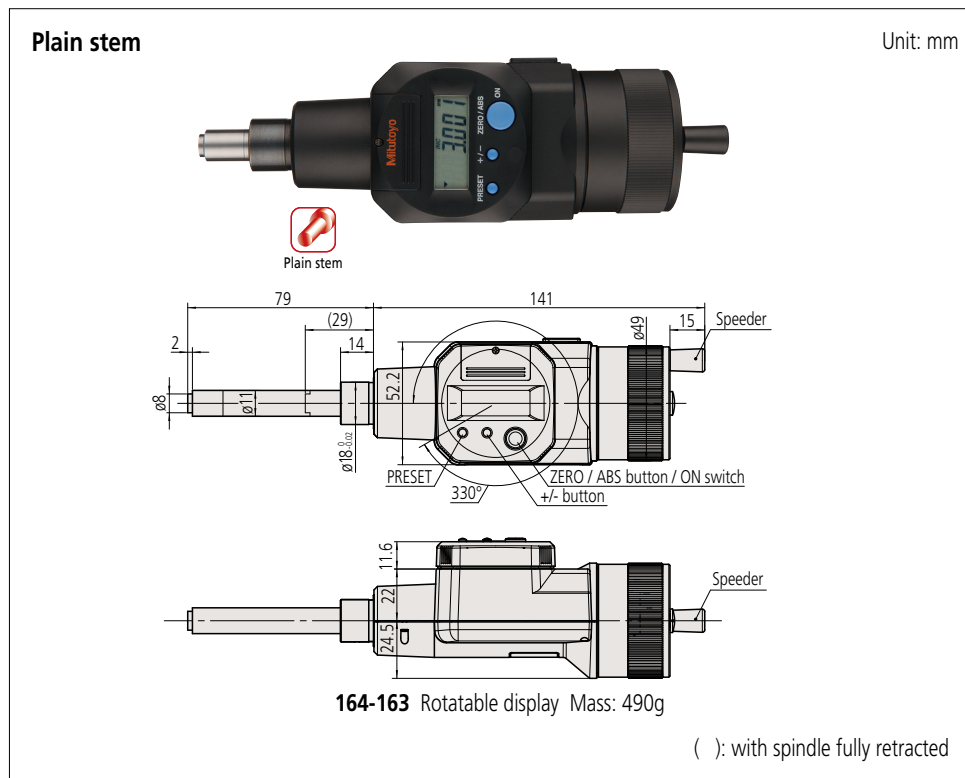
Micrometer Head

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

Digimatic Micrometer Heads Series 164/350

- Equipped with digital display and output.
- series 350 IP65 models: the Digimatic output port enables inclusion in a statistical process control or networked measurement system. (Refer to page A-3 for details).

DIMENSIONS



SPECIFICATIONS

Metric							
Order No.	Range	Resolution	Accuracy**	Stem	Stem dia	Spindle end	Graduation feature
164-163	0 - 50mm	0.001mm	±3µm	Plain	18mm	Flat (carbide tip)	Standard
350-251-30	0 - 25mm		±2µm	W/ clamp nut	10mm	Spherical (SR4) (carbide tip)	
350-252-30				Plain			
350-253-30				W/ clamp nut			
350-254-30				Plain	12mm	Flat (carbide tip)	
350-281-30*				W/ clamp nut		Spherical (SR4) (carbide tip)	
350-282-30*				Plain			
350-283-30*				W/ clamp nut			
350-284-30*				Plain		Flat	
350-261-30*				Plain		Flat	

* IP65 dust/water protection type
** Excluding quantizing error

Inch/Metric							
Order No.	Range	Resolution	Accuracy**	Stem	Stem dia	Spindle end	Graduation feature
164-164	0 - 2"	.00005"/ 0.001mm	±.00015"	Plain	0.709"	Flat (carbide tip)	Standard
350-351-30	0 - 1"		±.0001"	W/ clamp nut	0.375"	Spherical (SR4) (carbide tip)	
350-352-30				Plain			
350-353-30				W/ clamp nut			
350-354-30				Plain	0.5"	Flat (carbide tip)	
350-381-30*				W/ clamp nut		Spherical (SR4) (carbide tip)	
350-382-30*				Plain			
350-383-30*				W/ clamp nut			
350-384-30*				Plain		Flat	
350-361-30*				Plain		Flat	

* IP65 dust/water protection type
* Note: Stem diameter of IP65 type is 12mm.
** Excluding quantizing error



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 (series 350)

Level 6: Dustproof
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 350
SR44(1 pc), 938882 for initial operation checks (standard accessory)
Battery for series 164
SR44(2 pcs.), 938882 for initial operation checks (standard accessory)
Battery life: Approx. 2.4 years under normal use (for series 350-XXX)
Approx. 1.8 years under normal use (for series 164-163, 164)
Length standard: Electromagnetic rotary sensor
Standard accessories: Reference bar, 1 pc
Spanner (301336), 1 pc (for series 350-XXX)
Screwdriver (No.05CAA952), 1pc (for series 164-163, 164)

Functions (series 164/350)

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 the 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 LCD 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 LCD to reappear.

Error alarm:
In case of an overflow on the LCD or a computing error, an error message appears on the LCD 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-voltage alarm annunciator appears well before the micrometer becomes unusable.

Optional accessories

Connecting cables for **series 164**
1m: **959149**
2m: **959150**

USB Input Tool Direct
USB-ITN-C (2m): **06ADV380C**
02AZD790C 160mm
For foot switch: **02AZE140C**

Connecting cables for **series 350**
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 B-68 for details.