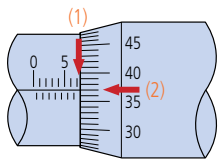


Micrometers

How to Read the Scale

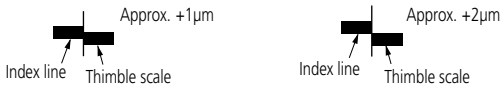
Micrometer with standard scale (graduation: 0.01mm)



(1) Sleeve scale reading 7 mm
 (2) Thimble scale reading + 0.37 mm
 Micrometer reading 7.37 mm

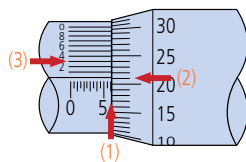
Note) 0.37 mm (2) is read at the position where the sleeve fiducial line is aligned to the thimble graduations.

The thimble scale can be read directly to 0.01mm, as shown above, but may also be estimated to 0.001mm when the lines are nearly coincident because the line thickness is 1/5 of the spacing between them.



Micrometer with vernier scale (graduation: 0.001mm)

The vernier scale provided above the sleeve index line enables direct readings to be made to within 0.001mm.

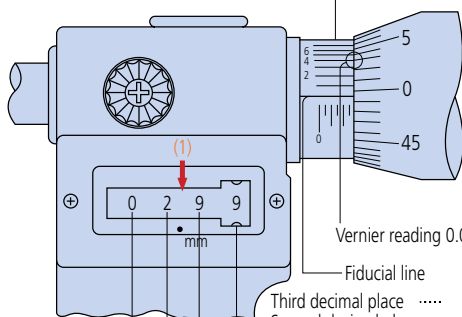


(1) Sleeve scale reading 6 mm
 (2) Thimble scale reading .21 mm
 (3) Reading from the vernier scale marking and thimble graduation line + .003 mm
 Micrometer reading 6.213 mm

Note) 0.21 mm (2) is read at the position where the index line is between two graduations (21 and 22 in this case). 0.003 mm (3) is read at the position where one of the vernier graduations aligns with one of the thimble graduations.

Micrometer with mechanical-digit display (digital step: 0.001mm)

Third decimal place on vernier scale (0.001 mm units)



Vernier reading 0.004 mm (2)

Fiducial line

Third decimal place004 mm (2)

Second decimal place09 mm

First decimal place9 mm (1)

Millimetres 2. mm

+ Tens of mm 00. mm

Counter reading 2.994 mm

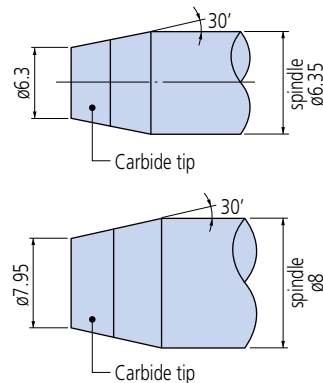
*Indicates four digits.

Note) 0.004 mm (2) is read at the position where a vernier graduation line corresponds with one of the thimble graduation lines.

Measuring Force Limiting Device

	Audible in operation	One-handed operation	Remarks
Ratchet stop	Yes	Unsuitable	Audible clicking operation causes micro-shocks
Friction thimble (F type)	No	Suitable	Smooth operation without shock or sound
Ratchet thimble (T type)	Yes	Suitable	Audible operation provides confirmation of constant measuring force
Ratchet thimble	Yes	Suitable	Audible operation provides confirmation of constant measuring force

Measuring Face Detail



These drawings above are for illustration only and are not to scale