MICROMETER

The micrometer is found when you look in the microscope on microforges. It is sophisticated-looking, but easy to read. Do you know how to read the micrometer? In this Narishige Web News, we will focus on the micrometer.

What is the Micrometer?

It is a combined measure with 100-graduation scale and a 90-degree protractor found in the eyepiece which is used to facilitate shaping of a pipette tip.

For instance, it is useful for cutting a pipette tip at a desired point or bending it at a desired angle.

How to Read the Measure

The protractor is read as it is. We will discuss how to read the scale that you may feel is difficult to work with.

"what does the size of a graduation represent?"
The answer is "It depends on the magnification of objective lens!"

The scale has minimum graduation of 100 μm in absolute size. When it is used with 10 times objective lens, the graduation is calculated 100 μm × 10 = 1 μm. If 5 times objective lens is used, 20 μm is calculated. If 35 times objective, about 2.8 μm is calculated.

< POINT >
Since the measure is situated inside the eyepiece, it is not magnified with the eyepiece. Thus, changing magnification of eyepiece does not effect minimum graduation.

< Bit of Knowledge ! >
For those of you who are interested in other magnifications available for the MF-900 Microforge, Narishige sells optional lenses.

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