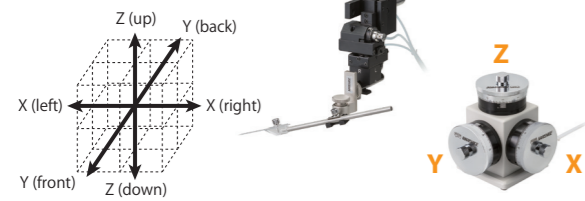


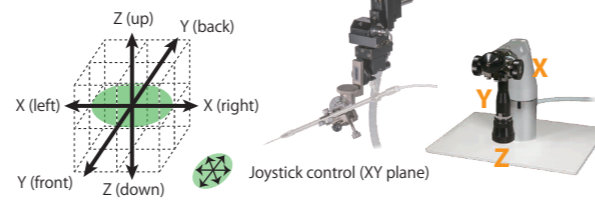
Micromanipulator and microinjector are chosen from models below:

MMO-203 Three-axis Oil Hydraulic Micromanipulator



Precise positioning is easy with large 3D control knobs
 • Approach and retract from target without colliding/touching surrounding objects

MMO-4 Three-axis Hanging Joystick Oil Hydraulic Micromanipulator



Flexible Movement with Joystick Controller
 • For repetitive point-to-point and diagonal movements (Suitable for scratching the surface; collecting sample in liquids)

IM-11-2 Pneumatic Microinjector

Injector for picking-up (vacuum) micro-sample in liquids

Note: if the sample size is as small as a few μm , the oil-filling type IM-21 is also recommended.



Questions? Need a recommendation?

We are happy to help you choose the right equipment according to your application, microscope model and size of the sample.

Please contact us at: USA office: info@narishige-usa.com
 UK office: eurosales@narishige.co.uk
 Japan office: sales@narishige.co.jp

Glass Probe Production Tool

Static electricity-prone glass probe makes pick-up work much easier.

Complete listing of products are available on our website.

G-1000 Glass Rods



Glass rods for probe production (200 pieces/pack)

PC-100 Puller



Make a probe by applying heat and pull.

MF2 Microforge

*Lens is optional.



Cut in a desired thickness (Bending and Fire polish possible.)

Model	Product name	Model	Product name
B-8B	Ball joint	NN-Q-2/L	Mounting adaptor for Nikon FN1
GJ-8	Magnetic stand	NO-Q	Mounting adaptor for Olympus BX53M
HI-9	Injection holder (for pneumatic injector)	P-12	Manipulator attachment
IM-11-2	Pneumatic injector	UMM-3FC	Micromanipulator
IP	Iron plate	G-1000	Glass rods
MMN-1	Manipulator (Coarse)	PC-100	Puller
MMO-203	Three-axis oil hydraulic micromanipulator	MF2	Microforge
MMO-220A	One-axis oil hydraulic micromanipulator	MF2-LS1	Lens set 50x/ 100x
MMO-4	Three-axis hanging joystick oil hydraulic micromanipulator	MF2-LE15	15x eyepiece set
MN-4	Manipulator (Coarse)		Custom-made mounting adaptor (to microscope)
			Custom-made magnetic stand



<https://narishige-group.com>



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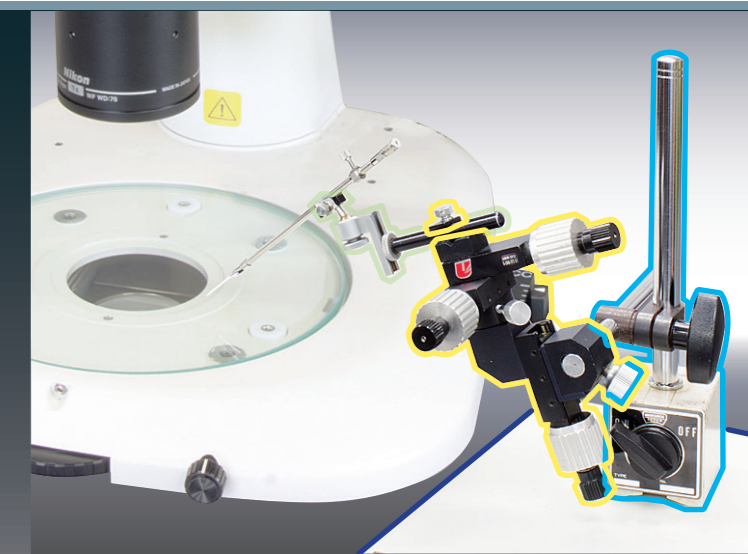
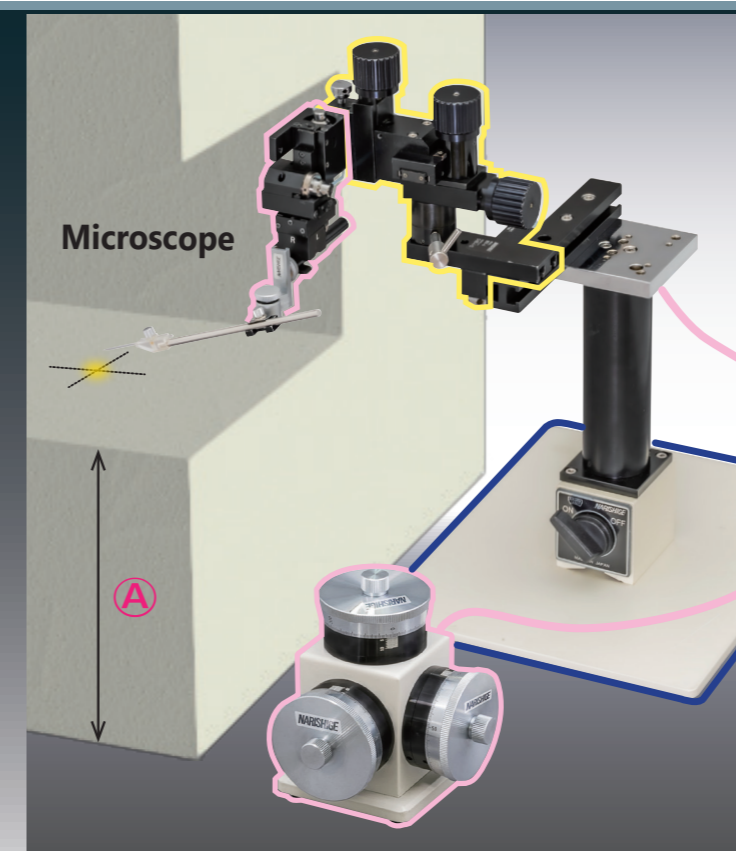
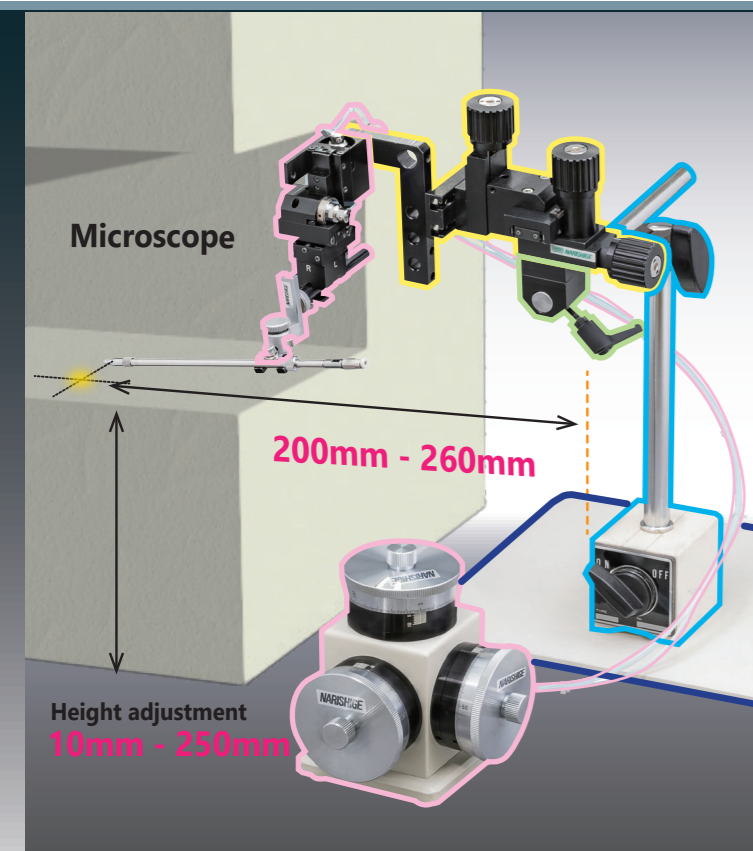
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**Microsampling/
Pick-up Micromanipulation**



**Microsampling/
Pick-up Micromanipulation**



Stereo Microscope Set

Total magnification	x40 to x100
Sample size	100µm to 1,000µm (1mm)

Model	Product name
● UMM-3FC	Micromanipulator
● B-8B	Ball joint
● GJ-8	Magnetic stand
● IP	Iron plate
MMO-220A	One-axis Oil Hydraulic Micromanipulator
HI-9	Injection holder (for Pneumatic Injector)
IM-11-2	Pneumatic microinjector

Optional items for each set



Height-adjustable Magnetic Stand Set

Total magnification	x100 to x500
Sample size	1 to 10µm

Model	Product name
● MMO-203	Three-axis Oil Hydraulic Micromanipulator
● MMN-1	Manipulator (Coarse)
● P-12	Manipulator attachment
● GJ-8	Magnetic stand
● IP	Iron plate
HI-9	Injection holder (for Pneumatic Injector)
IM-11-2	Pneumatic microinjector

Fixed-stage Microscope Set

Total magnification	x100 to x500
Sample size	1 to 10µm

Model	Product name
● MMO-203	Three-axis Oil Hydraulic Micromanipulator
● MN-4	Manipulator (Coarse)
Mounting adaptor	Please see the mounting adaptor available on the list on reversed page, or contact us with the model name of microscope.
HI-9	Injection holder (for Pneumatic Injector)
IM-11-2	Pneumatic microinjector

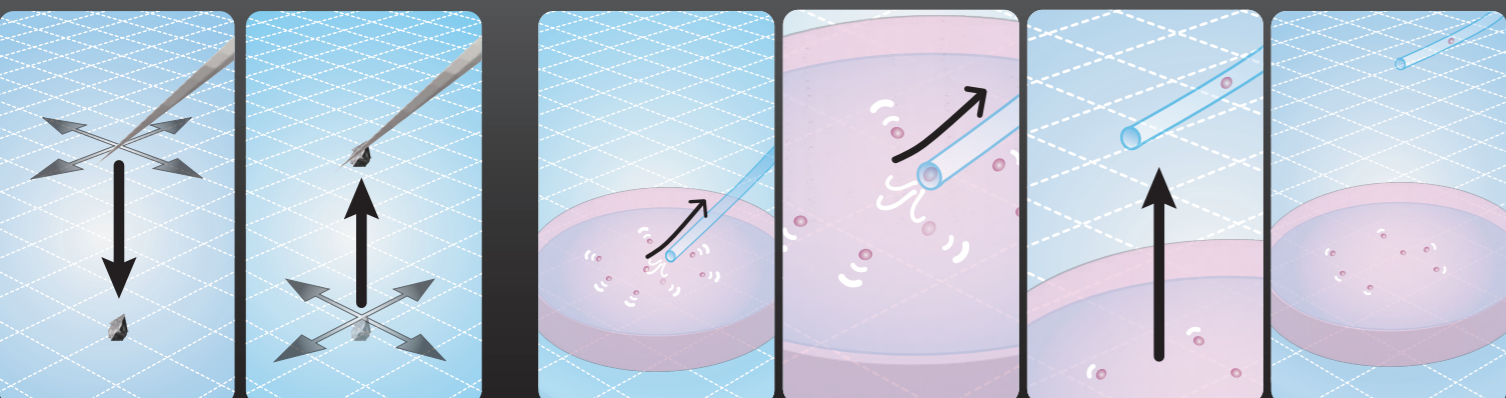
Desktop Set - Custom-made Magnetic Stand

Total magnification	x100 to x500
Sample size	1 to 10µm

Model	Product name
● MMO-203	Three-axis Oil Hydraulic Micromanipulator
● MN-4	Manipulator (Coarse)
● IP	Iron plate
Custom-made Magnetic stand	Please contact us with the height (A), and the model name of microscope.
HI-9	Injection holder (for Pneumatic Injector)
IM-11-2	Pneumatic microinjector

Easy micro-sampling system for everyone at reasonable price!

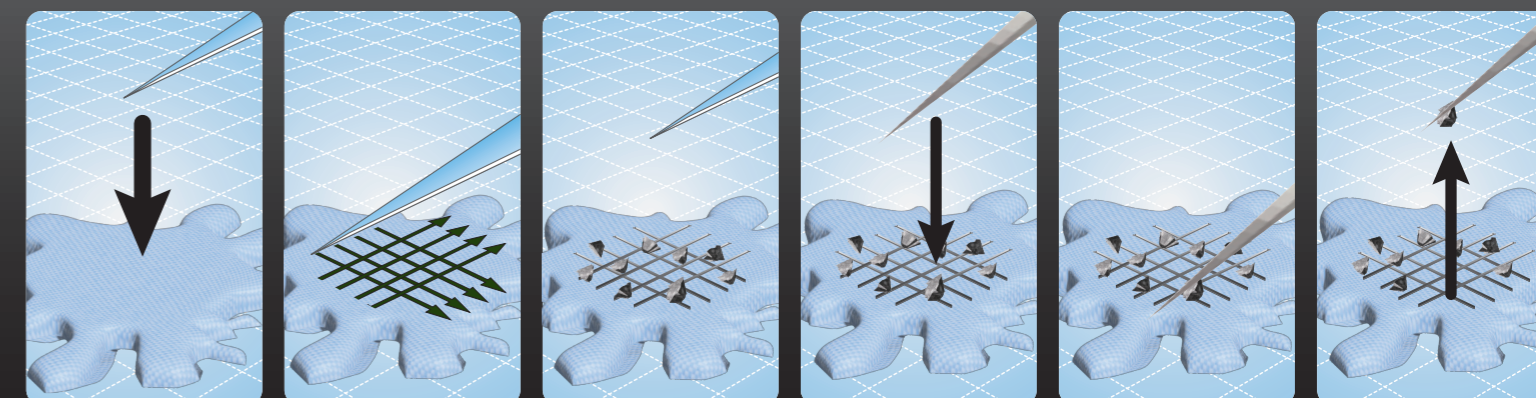
Micro-sampling Samples can be picked up with the static electricity on the probe. The sample floating in the liquid can be sucked and ejected by using the pneumatic injector.



Pick up Move Pick up the sample by suction of injector Lift the pipette away from the liquid

Oil Hydraulic Micromanipulation System

Contaminants pick up/ analysis **FIB Lift-out with TEM Analysis** Using the knife or metal probe to cut and excavate buried sample, and then pick up.



Scratch/Scrape with the knife or metal probe Check if the sample is excavated Change the knife to metal/glass probe Pick up Move