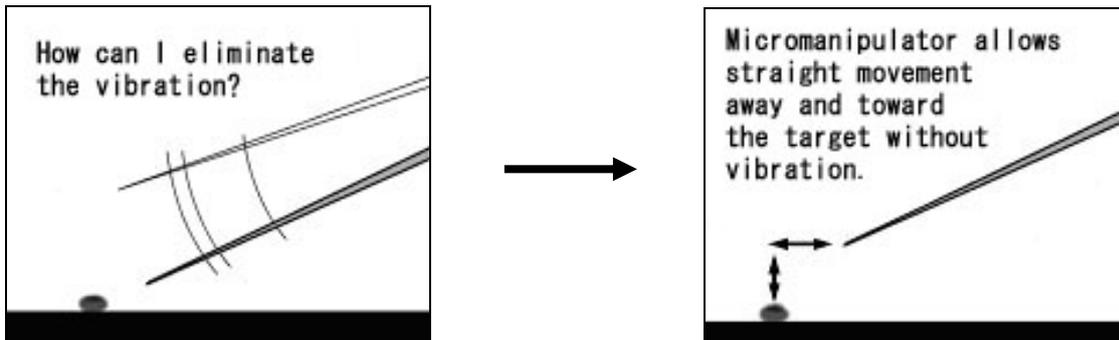


Industrial Applications

Narishige manipulators are versatile enough to explore industrial and analytical fields

Narishige is well known in the field of microinjection and electrophysiology. In recent years, applications have also developed in the industrial fields, such as FIB sample collection or sample collection for TF-IR analysis. In this news, we will discuss how Narishige products are utilized in the industrial fields.

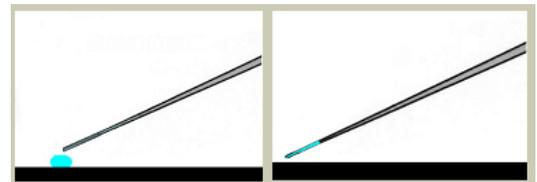
When working with a micropipette to pick up small samples under a microscope, without the aid of a micromanipulator, hand vibration is observed and causes excessive movement during the procedure. Remote-controlled micromanipulators eliminate annoying hand vibration and allow quick and comfortable access to the sample to be picked up.



◆ Example 1. Collection of Small Amounts of Fluid

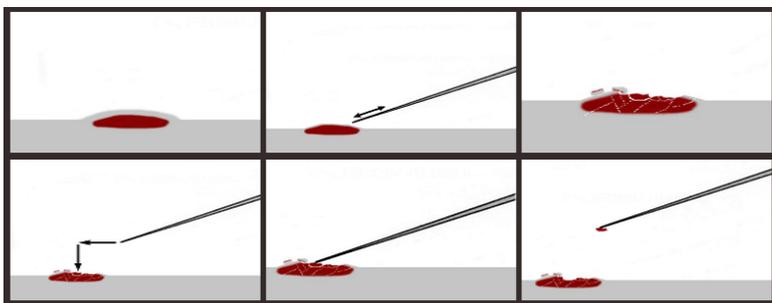
When collecting a very small amount of fluid from a sample to analyze, the micromanipulator and microinjector are used to collect the targeted droplet.

- Put a pipette into the droplet and draw in fluid with the aid of a microinjector.



◆ Example 2. Collection of Foreign Matter in Sample

When collecting foreign matter from a sample to analyze, the micromanipulator is used to collect the foreign matter.



- Scrape or remove surface using the manipulator to reveal the foreign matter.

- Attract the foreign matter on the micropipette (glass needle) by static electricity.

* A micropipette is made of glass, thus it can break. A metal needle or micro-knife is sometimes utilized as an alternative.

Narishige micromanipulation products are also available for other experiments or operations, such as scraping or various ways of cutting for samplings or dropping tiny amounts of fluid in an intended location, etc. If you bring your sample to our showroom, you can see how it works by operating actual products. Please visit our showroom and get some hands-on experience with our manipulators.

NARISHIGE Customer Support Center

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