

Xenopus oocytes, Zebrafish eggs, etc.

Recommended Models for Microinjection under Low Magnification

For use with Leica MZ series

For performing microinjection under low magnifications, a combination of a three-axis coarse manipulator and a single-axis fine micromanipulator to advance in the same direction as the micropipette is typically used. To advance in the same direction as the micropipette by the fine micromanipulator, two types are available for use: Manual Control type and Hydraulic Control type. Select a micromanipulator model best-suited to the intended use.

Manual + Oil Hydraulic

M-152 + MMO-220A

A combination of a compact and lightweight three-axis manual manipulator and a single-axis oil hydraulic micromanipulator permits rapid positioning in three dimensions and vibration-free movement in the same direction as the micropipette by remote control.

Manual

YOU-1

A three-dimensional coarse manipulator permits initial rapid positioning and a fine micromanipulator allows final precision approach. The fine micromanipulator permits independent angle adjustments allowing movements in the same direction as the injection holder without having to tilt the three-dimensional coarse manipulator.

Typical Combinations

	Example 1	Example 2	YOU-1 configuration
Mounting Adaptor (Magnetic Stand)	NL-10-2+NR2	GJ-1	GJ-1
Three-axis Coarse Manipulator	M-152	M-152	UM-3C
Single-axis Fine Micromanipulator	MMO-220A	MMO-220A	UM-1PF
Iron Plate	—	IP	IP

IP (Iron Plate) is not included in YOU-1 Manipulator Set. It is available as an option.

NL-10-2

Manipulator Mounting Adaptor secured to the microscope simply by two mounting screws.

MMO-220A

Its compact drive unit can be used in combination with a manually operated manipulator. This model allows the drive unit to advance in the same direction as the micropipette points without vibration.

M-152

Compact, lightweight, simple coarse manipulator. A bar-mount system permits installation onto a mounting adaptor or magnetic stand.

YOU-1

A combination of a three-axis coarse manipulator and a single-axis fine micromanipulator capable of versatile operation. Comes standard with a magnetic stand and an injection holder.

MMO-220A Controller

Remote-control system. The controller can be placed in an easy-to-operate position. Permits vibration-free operation without having to touch the microscope.

NR2

Serves as a side mounting adaptor.

