

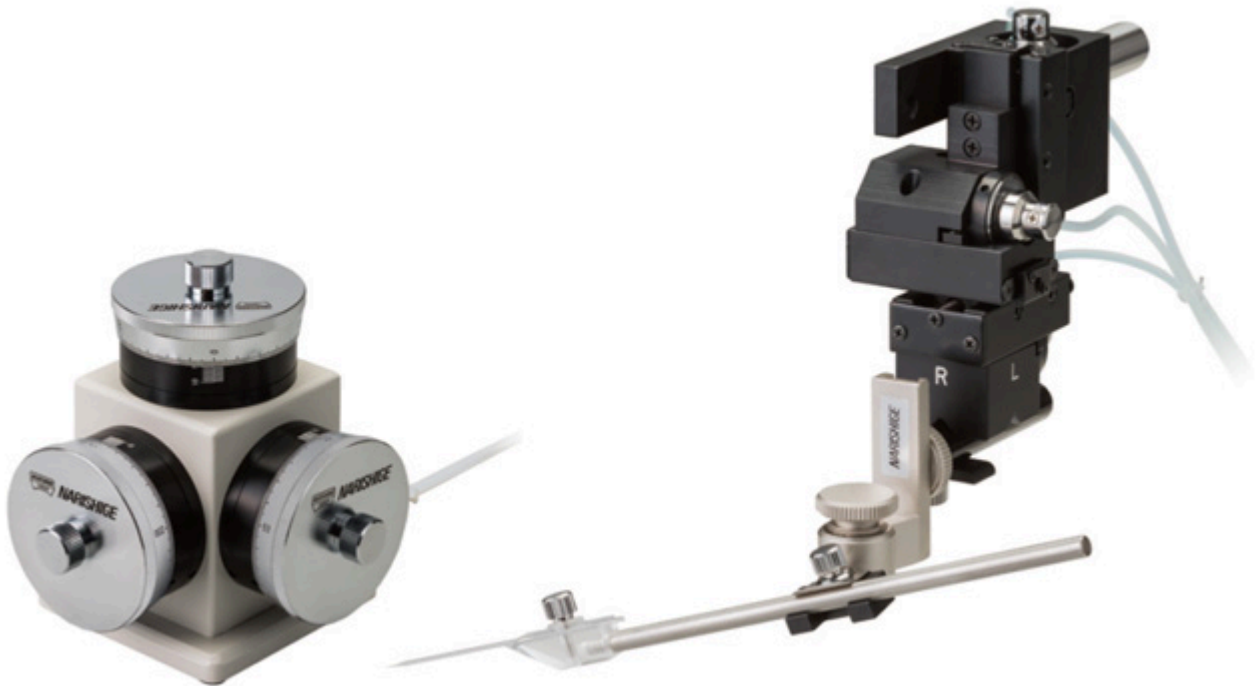
**NARISHIGE**

# MMO-203

## Three-axis Oil Hydraulic Micromanipulator

**Original hydraulic model with large knob offering excellent linearity.**

This micromanipulator's hydraulic drive system can be remotely controlled, and provides smooth, vibration-free movements. As successor to the vernier type, it features a big cylinder control unit which enables very fine operation. Another key feature is high reproduction of the linear position. Compared with the currently popular joystick method, this control unit has a long record of use among discerning customers because of its simple design and outstanding cost-efficiency. For microinjection systems, this model is recommended for use on the cell holding side, in combination with a joystick type manipulator.



- \* For attachment to the microscope, a coarse manipulator and suitable mounting adaptor are required (sold separately).
- \* Select TypeB adaptor for mounting this manipulator in combination with MMN-1 coarse manipulator.
- \* Changing the ball joint included with the micromanipulator to the double pipette holder HD-21 (sold separately) enables performance of embryo biopsy.
- \* Changing the ball joint included with the micromanipulator to MMO-220A one-axis oil hydraulic micromanipulator (sold separately) enables four-dimensional remote controlled movement.

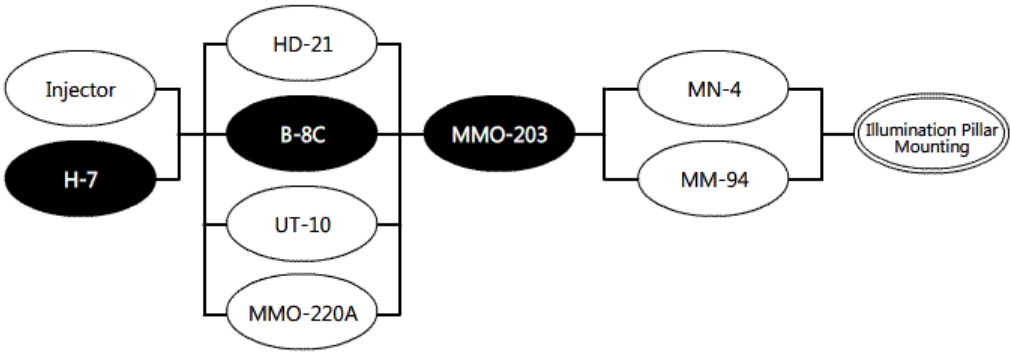
MMO-203

Three-axis Oil Hydraulic Micromanipulator

Specification

Accessories included		B-8C Ball Joint H-7 Pipette Holder
Movement range	Fine	X10mm, Y10mm, Z10mm Full rotation of knob 250μm Minimum graduation 1μm
Dimensions/Weight	Control unit	W115 × D115 × H132mm, 1.6kg
	Drive unit	W40 × D51 × H87mm, 180g
Hydraulic tube length		0.9 m

System Diagram



- refers to the model itself with standard attachments
- refers to attachable main accessories
- refers to types of mounting adaptors

Specifications are subject to change without notice.  
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