

**NARISHIGE**

# IM-401

## Electric Microinjector

### Touch-panel-controlled electric microinjector: Ideal for DNA injection

This electric microinjector allows for the precise injection of small liquid volumes. It is ideal for DNA/RNA injection, gene transfer, and other injection applications. The intuitive touch panel makes it easy to adjust the injection pressure, time, and balance. Injections can be performed using either the panel button or a foot switch.



**Touch panel control at your fingertips!**



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### Application

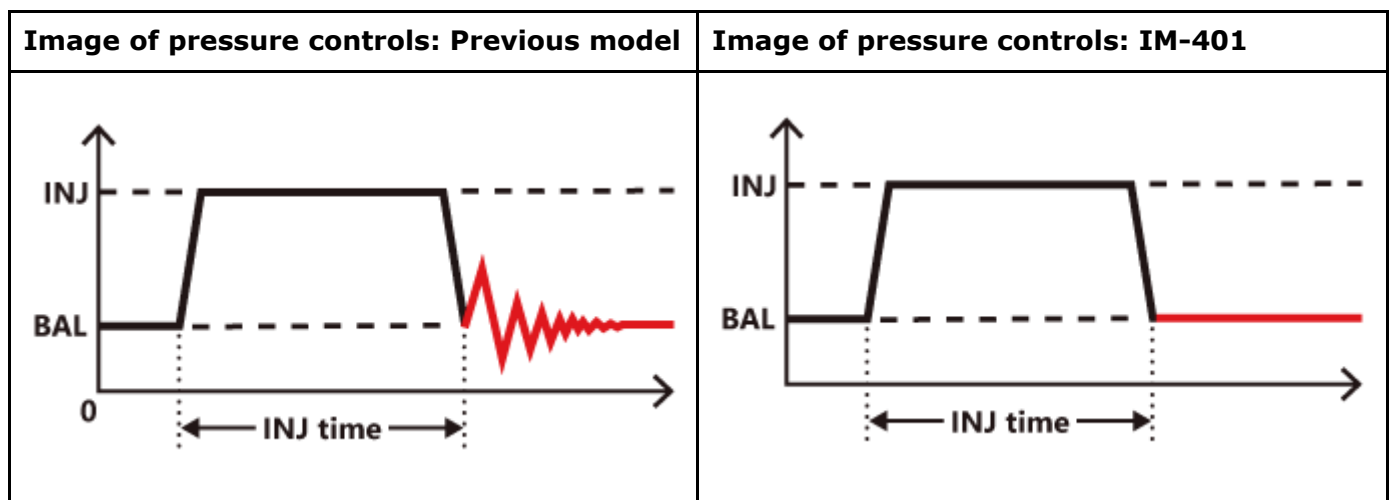
- Gene delivery (CRISPR/Cas9, DNA/RNA, etc)
- Sample solution injection
- Fluorescent dye injection
- Various other liquids injection, and more

### Improved Balance pressure control

The IM-401's balance pressure can be adjusted in 0.1kPa increments from 1 to 100kPa. This improved feature enables stable pressure control with micropipettes, including those with relatively thick tip diameters.

### High precision pressure control

The injection volume is now more stable due to reduced pressure fluctuations during the return to Balance pressure after injection.



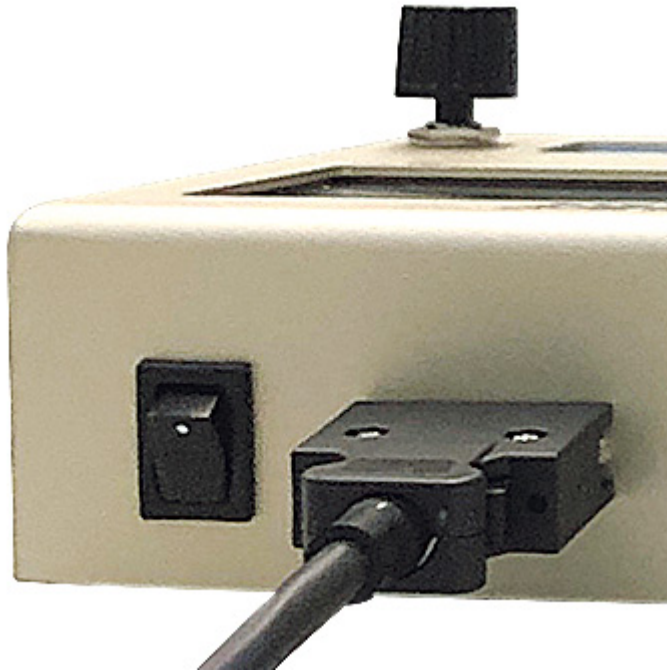
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### Added system switch

A new system switch has been added to the back of the touch panel display control unit for easy adjustment. Simply press the button to start (ON) or stop (SUSPEND) the system.



### Comfortable operation with footswitch




It features a dedicated foot switch for administering injections. This allows users to operate the manipulators hands-free before injections.



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**Compatible with various pipettes**

These optional attachments are sold separately and allow users to replace the cap on the included injection holder with different types of pipettes.

		
Third-party screw-type Tip *Please contact us.	<u>HIC-1.2</u> (For 1.2 mm OD pipette)	<u>HIC-1.5</u> (For 1.5 mm OD pipette)

**External pressure source**

- \* The IM-401 requires an external pressure source to operate.
- \* External pressure sources (gas tanks equipped with a regulator or the compressor) are sold separately.
- \* The tube fitting for the gas input hose is "KQ2H06-02AS" by SMC. When connecting a regulator or compressor, ensure that the connections are made appropriately according to this fitting.

**NARISHIGE****IM-401****Electric Microinjector****Specification**

<b>Accessories included</b>		Connecting cable for display control unit (1.5m) Injection holder ( <u>HI-9</u> ) Cleaning rod Tubing ( <u>CT-4</u> , $\varnothing 2\text{mm} \times 1.2\text{m}$ ) Gas input hose ( $\varnothing 6\text{mm} \times 2\text{m}$ , $\varnothing 6\text{mm} \times 1\text{m}$ ) Pipe fitting for gas input hose T-joint with a pressure relief valve Foot switch (connecting cable 2.9m) Power cord (1.5m) Silicone rubber gasket (HI01PK01)
<b>Gas input/output</b>	<b>Gas input port</b>	for $\varnothing 6\text{mm}$ diameter hose
	<b>Gas output port</b>	for $\varnothing 2\text{mm}$ diameter tube
<b>Supply pressure</b>		0.6 ~ 0.7MPa
<b>Gas pressure</b>	<b>Injection/Balance pressure</b>	0.001 ~ 0.5MPa
	<b>Flushing pressure</b>	0.6 ~ 0.7MPa
<b>Power supply</b>		AC100V ~ AC240V $\pm 10\%$ , 50/60Hz
<b>Power consumption</b>		15W
<b>Fuse rating</b>		T1A/250V (IEC60127-2 sheet3)
<b>Dimensions/Weight</b>	<b>Control box</b>	W120 × D264 × H220mm, 2.99kg
	<b>Display control unit</b>	W130 × D55 × H155mm, 0.79kg

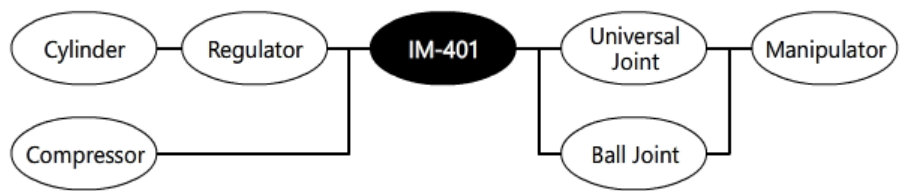
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### Consumables

Model	Product	Description
HI01PK01	Silicone Rubber Gasket	For 2.5mm (10 pcs)

### 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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