



Toward next generation in ICSI



- ☐ Improve operability of manipulator
- ☐ Flexible and easy pipette angle adjustment
- ☐ Reduce the risk of trouble during operation

□ Improve operability of manipulator



Joysticks

- Quicker operation time can be expected by double faster speed in motor drive Z axis moving.
- More stable response is achieved even in lighter torque in joystick.
- Stability of joystick during non-operation period is improved.



New universal joint

- Easier angle check in indicator is achieved by adoption of new universal joint.
- Instability of universal joint during angle adjustment is solved.

□ Flexible and easy pipette angle adjustment

- The pipette holding angle can be chosen from 3 positions (in the range of 15-40 degrees) by adoption of dedicated adapter. It is easy to bring the pipette tip in the optical axis.



Pipette angle 30 degrees



Pipette angle 15 degrees

□ Reduce the risk of trouble during operation

- Emergency position adjustment mechanism is available in motor drive unit. The operation can be continued by manual adjustment of pipette position even in case of motor drive unit stuck.
- Less risk of trouble in the system can be expected by adopting pneumatic microinjectors which is free from usage of mineral oil.



Manual emergency knobs



Pneumatic microinjector IM-11-2



Pneumatic injector IM-12

Specification

Movement range	Coarse	Maximum : 22mm
	Fine	Maximum : 10mm
	Joystick	Maximum : 2mm
Dimension/ Weight	Control unit	Fine : 70mm × 177mm × 178mm 1800g, Coarse : 70mm × 100mm × 120mm 530g
	Drive unit	Fine : 40mm × 57mm × 55mm 172g, Coarse : 62mm × 124mm × 79mm 510g
Working voltage		AC100V~240V ± 10%, 50/60Hz
Power consumption		Approx. 10W

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