



OPTO-EDU A54.0720 Micromanipulator for Inverted Microscope

Basic Information

- Place of Origin: China
- Brand Name: CNOEC, OPTO-EDU
- Certification: CE, Rohs
- Model Number: A54.0720
- Minimum Order Quantity: 1 pc
- Price: FOB \$1~1000, Depend on Order Quantity
- Packaging Details: Carton Packing, For Export Transportation
- Delivery Time: 5~20 Days
- Payment Terms: T/T, West Union, Paypal
- Supply Ability: 5000 pcs/ Month



Product Specification

- Single Axis Moving Distance: $\geq 20\text{mm}$
- Weights: 3.5 Kg
- Movement Speed: 0~13000 $\mu\text{m/s}$
- Mechanical Adjustment Distance: 0~105 Mm
- Rotary Axis Offset Angle: $'-45^{\circ}\sim 110^{\circ}$
- Speed Control: Proportional And Dynamic Force Feedback Control
- Highlight: **Inverted Microscope Micromanipulator, OPTO-EDU Micromanipulator, Micromanipulator for Inverted Microscope**



Product Description

For Cell Microinjection Operations, Intracytoplasmic Sperm Injection (ICSI)
 Equipped With Single-axis Motion And Three-axis Locking Functions
 Step Motor, X/Y/Z Moving Range >20mm, Step Moving <20nm, Moving Speed 0~10mm/s,
 Oil Pressure Microinjector 1000ul, Coarse Rotate 10ul, Fine Rotate 1ul, Air Pressure Microinjector 10ml, Coarse Rotate 600ul, Fine Rotate 60ul
 Support YZ One Key Lock, , Z One Key Limit, One Key Release Control, One Key Zero, One Key Move to Memory Position



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A54.0720

Micromanipulator for Inverted Microscope

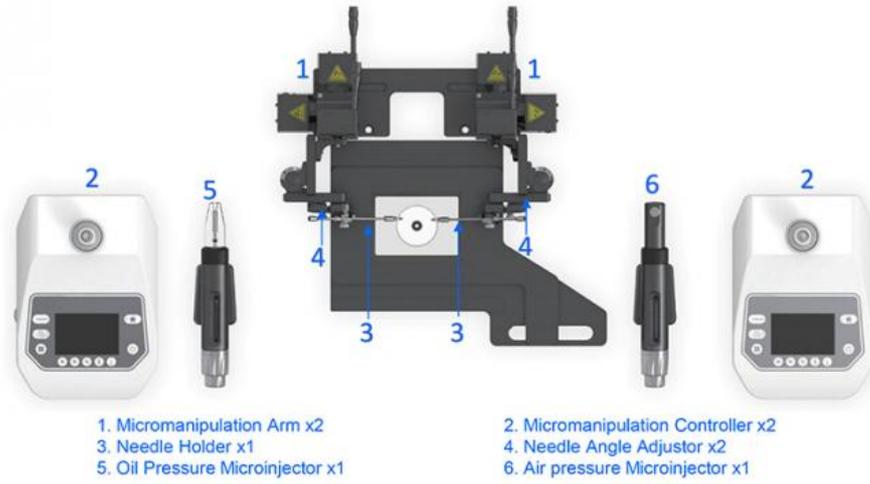


A54.0720 Micromanipulation Operating System

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The A54.0720 micromanipulation operating system has a Chinese/English bilingual interface. By controlling the rocking bar, cell microinjection operations can be carried out accurately and quickly, maximumly improving the success rate. A54.0720 is equipped with single-axis motion and three-axis locking functions, providing greater flexibility and convenience for Intracytoplasmic Sperm Injection (ICSI)

- Equipped with a Chinese/English bilingual interface.
- Good stability, no vibration during operation
- Adjustable microscope needle pitch and horizontal angle by knob
- The attachment functions can be selected and set.(Single-axis motion or locking, step injection)
- The Z-axis limit position can be set to prevent capillary breakage

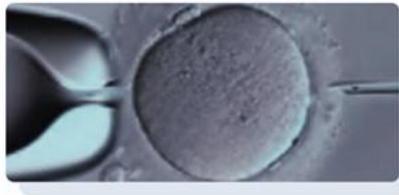


► Suspension cell injection

Prokaryotic or cytoplasmic injection
 Assisted Reproductive Technology ICSI operations
 (intracytoplasmic single sperm injection)

► Suspension cell manipulation

Cell transplantation
 Single-cell separation



A54.0720 Micromanipulation Controller

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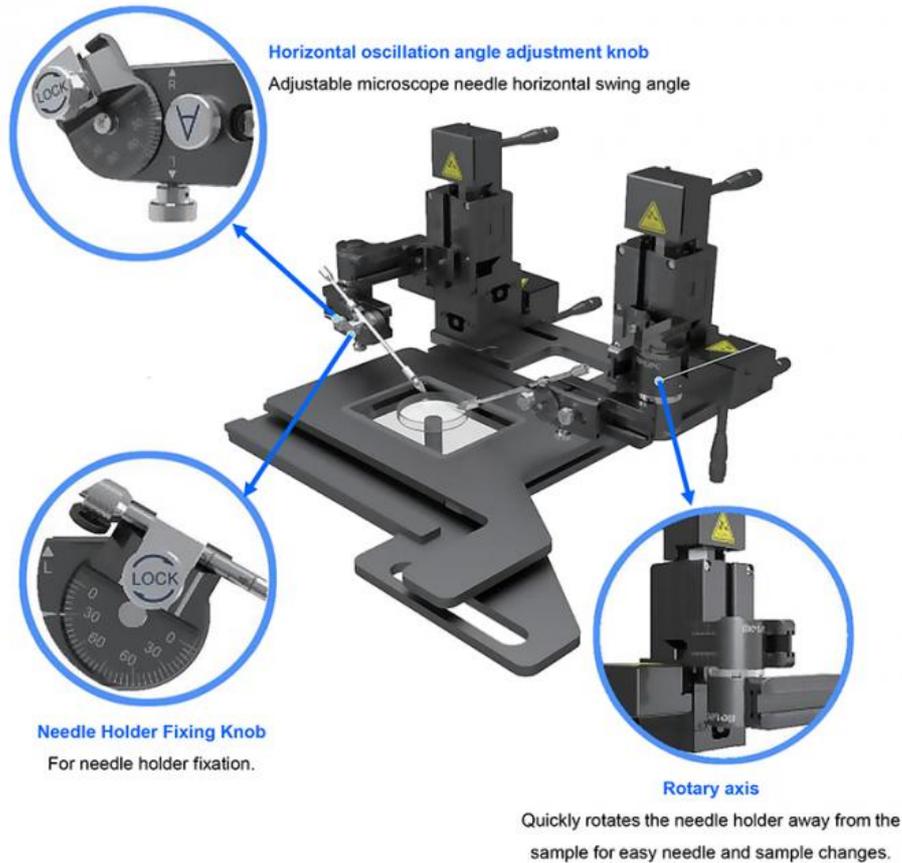
► A54.0720 Micromanipulation Controller

Buttons, display, joystick and side dial are included. The movement direction and speed of the joystick are transmitted to the micromanipulation side through the control board. The movement speed and working range size can be predefined in the software. The working scope can be selected and changed individually on the control panel.

Micromanipulation controller	A joystick can be moved to control the movement distance and direction of the X, Y, and Z axes
Speed control	Proportional and dynamic force feedback control
Work mode	Coarse/Fine /X-Fine
Size (L*W*H)	200*290*145 mm



Move smoothly without jitter or delay in the X, Y, Z three-dimensional.



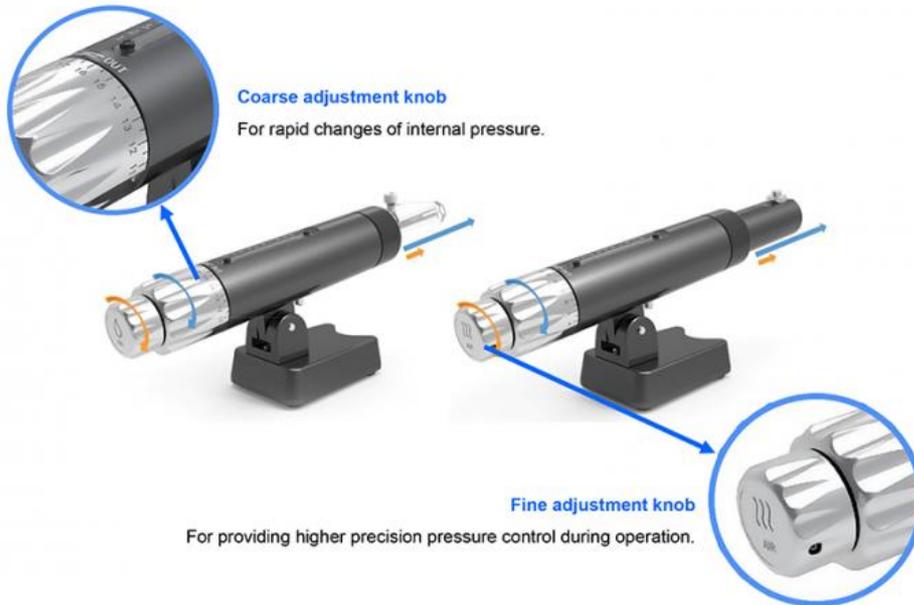
Micromanipulation manipulator:

X, Y, Z three-axis motion mechanism, rotating connector and angle adjustment are included which is used to move and position the micromanipulation side in three-dimensional space.

Single axis moving distance	≥20mm
Weights	3.5 kg
Movement speed	0~13000 um/s
Mechanical adjustment distance	0~105 mm
Size(L*W*H)	140*100*240 mm
Rotary axis offset angle	-45°~110°

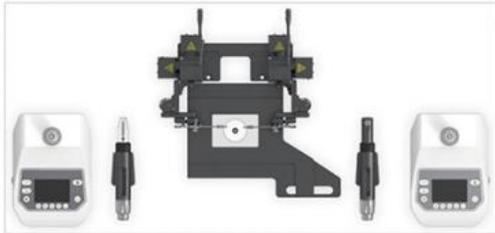
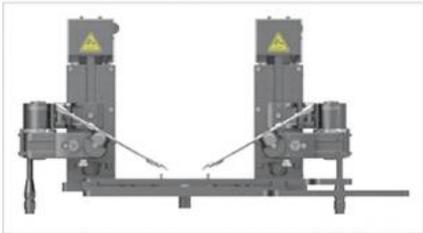
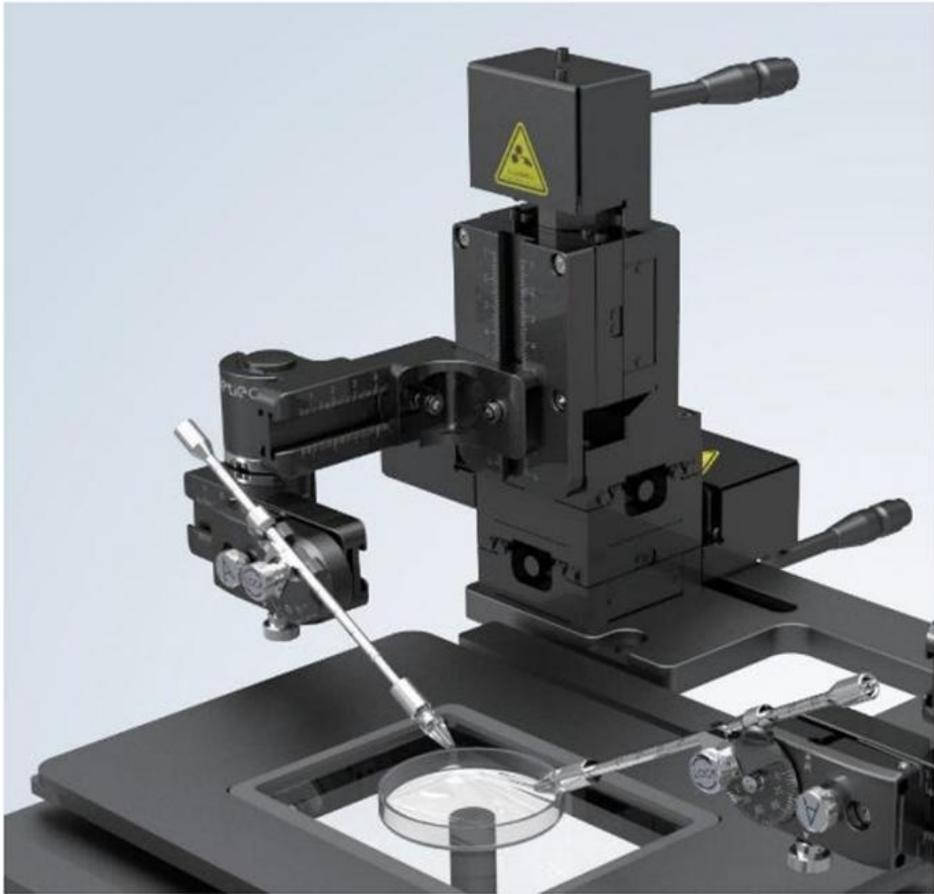
With good sealing performance, operations such as suspension positioning and cell removal of embryos can be carried out using air and oil.

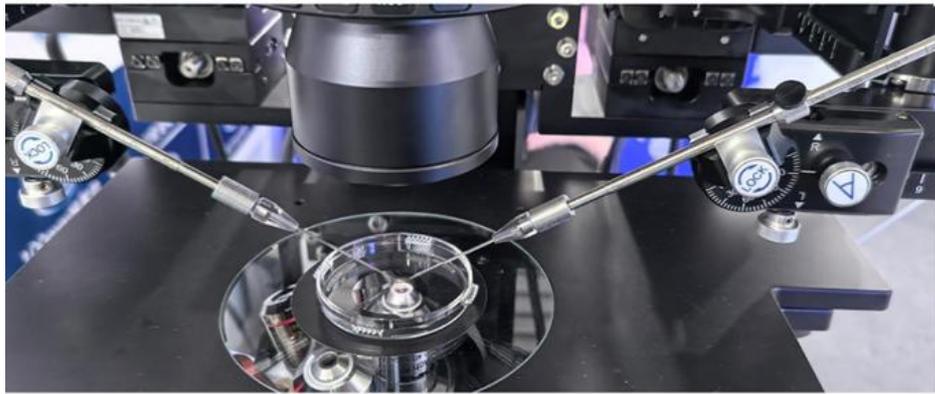
Oil pressure microinjector and air pressure microinjector: for manual micro-volume high-precision injection, micro-volume liquid distribution injection and gas pressure control. Oil pressure microinjector is applied in complex scenarios with high resolution and high sensitivity (embryo biopsy and cell implantation, etc. Air pressure microinjector is a micro-transfer pneumatic micro-syringe, which is widely applied in scenarios like suspending cells, embryo maintenance, or transferring smaller volumes of liquid.



Oil pressure microinjector	
Function	Aspiration and dispensing of microcells Manual microinjection Cell removal
Medium	Paraffin oil
Volume change per revolution	1uL/10uL
Maximum volume	1000uL
Injection tube	1.3 meters long, inner diameter 1.0 mm, outer diameter 2.0 mm

Air pressure microinjector	
Function	Microcell suspension maintenance Aspiration and dispensing of microcell Small volumes of liquids trace dispensing
Pressure generation	Air
Volume change per revolution	60uL/600uL
Maximum volume	10mL
Injection tube	1.3 meters long, inner diameter 1.0 mm, outer diameter 2.0 mm





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