

Microgripper



Microgripper Body

The microgripper body holds the various microgripper tips and has two knurled knobs for aligning the tips in two planes. This housing has a rod for mounting onto a micromanipulator holder. It receives its power from the microgripper controller. The microgripper body measures 5 x 2.2 x 2.2 cm (2 x 7/8 x 7/8 in). It mounts on any micromanipulator for exact positioning.

Catalog No.	Product
CGS 8114.38	Microgripper Body

- For precise, controlled microgripping of ultra-small specimens; forces from 0 to 400 mg insure delicate touch with sensitive specimens
- Manual control remotely by hand or foot actuated switch; or computer controlled with resolution up to 1 μm and displacement of 0 to 2 mm
- Activated by piezo polymer element
- Complete selection of interchangeable stainless steel gripper tips ranging from 5 to 1900 μm (75 mm) dia. to meet most demanding applications; all tips removable for sterilization

Microgripper Controller

The controller provides the opening and closing of the microgripper tips and control the gripping pressure. Both the local and remote control provides a linear grip/release control of the gripper tips by manually turning the control knob. One complete turn of the knob provides 200 microns of tip displacement. This high resolution enables the microgripper to gently hold even the smallest of microscopic specimens. This controller can utilize a foot actuated variable speed pedal for truly 'hands-off' gripping while viewing the specimen under a microscope.

Catalog No.	Product
CGS 8115.38	Microgripper Controller, 115 VAC, 60 Hz
CGS 8116.38	Microgripper Controller, 220 VAC, 50 Hz



Microgripper Tips

These stainless steel gripper tips are held by the 60-4614 microgripper body. They permit grasping of microscopic size objects. They can be removed

from the microgripper body for sterilizing or autoclaving. Three specialized gripper tips are available. One is for holding cells. The second is for gripping micro-spheres and beads. The third specialized tip is angled for difficult-to-approach specimens. The standard tweezer tips are available in two lengths with tip diameters ranging from 12.7 microns (0.5 mils) to 1900 microns (75.0 mils).

- Available in two styles:
 - Specialized gripper tips
 - Standard gripper tips

Microgripper Gripper Tips			
	Length	Thickness	Tip
Specialized Gripper Tips			Specialized Tip
CGS 8117.38	2.5 cm	12.7 μm	12.7 μm (0.5 mils) for holding cells
CGS 8118.38	2.5 cm	64 μm	With 25.4 μm (1 mil) hole for gripping micro-spheres/beads
CGS 8119.38	2.5 cm	64 μm	75 μm (3.0 mils), angled tip
Standard Gripper Tips			Tip Diameter
CGS 8120.38	2.5 cm	12.7 μm	12.7 μm (0.5 mils)
CGS 8121.38	2.5 cm	64 μm	37 μm (1.5 mils)
CGS 8122.38	2.5 cm	64 μm	75 μm (3.0 mils)
CGS 8123.38	2.5 cm	64 μm	254 μm (10.0 mils)
CGS 8124.38	2.5 cm	64 μm	760 μm (30.0 mils)
CGS 8125.38	2.5 cm	64 μm	1900 μm (75.0 mils)
CGS 8126.38	5.1 cm	64 μm	50 μm (2.0 mils)
CGS 8127.38	5.1 cm	64 μm	127 μm (5.0 mils)