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PUL-1000

Microprocessor-controlled 4-step micropipette puller



PUL-1000 is a microprocessor controlled horizontal puller for making glass micropipettes or microelectrodes used in intracellular recording, microperfusion or microinjection. The puller was designed with tighter mechanical specifications and precision electronics for complete control of the pulling process and accurate

reproducibility. It offers programmable sequences of up to four steps with heating, force, movement and cooling time. This allows graduated cycles for applications like patch clamp recording.

This puller is a reasonably priced, compact, versatile and reliable workhorse. The microprocessor, combined with the LCD display, makes the **PUL-1000** easy to use.

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Pipettes

PUL-1000 can produce pipettes with tip diameters from less than 0.1 μ m to 10+ μ m. Microprocessor settings control the pulling automatically.

Programming

Up to 30 user-selectable programs can be stored for later recall. The instrument contains factory installed and tested programs. Choose from the factory installed programs or create your own.

Construction

The cover of pulling chamber is made with tempered glass to minimize the humidity effect on the reproducibility of pulled pipettes.

Power Supply

PUL-1000 has a high quality switching power supply for use anywhere in the world without worry about the line voltage differences. Pulling reproducibility is unaffected by line voltage fluctuation. Heating voltage can be controlled to within 0.1% accuracy even when line voltage fluctuates from 90 to 240VAC.

SPECIFICATIONS

Heater Element.....	Platinum/Iridium Filament
Pulling Force.....	(100–400) Solenoid, adjustable
Taper Length.....	1–10mm
Capillary OD Range.....	1.0–2.0mm
Maximum Capillary Length.....	170mm
Minimum Capillary Length.....	55mm
Permanent Memory Set.....	99
Auto Shut-off Time.....	90 s
Memory sets.....	30
Power.....	90–240VAC, 50/60 Hz, Max. 70W
Dimensions.....	30 x 25 x 15cm
Shipping Weight.....	20 lb.
Replacement Filaments.....	13834 2.5mm Square Box Filament, 2.5mm wide



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