



DMF1000

Microforging, Micropipette Calibration and Microinjection -- in a single device



Typical applications

- Polishing Patch Pipettes
- Microforging Beveled Injection Pipettes
- Pipette Tip Calibration & Microinjection

Microprocessor-controlled Microforge

The DMF1000 is a 'state-of-the-art' microprocessor-controlled microforge offering unmatched performance. Designed for fabrication of both small patch clamp glass pipettes and larger injection pipettes, the DMF1000 should find many uses in the laboratory. The DMF1000 is based on a design similar to that first used in WPI's extremely popular microforge model, the MF200. The extensive improvements incorporated into the DMF1000 greatly increase its versatility and performance, making it one of the most powerful microforges on the market

Digital Signal Processor Technology

The DMF1000 is powered by the latest digital signal processor (DSP) technology. A digital timer is used to precisely control the polish heating time. Ten memories can be used to store settings of the heating power and heating duration. All of the settings are controlled and displayed digitally for better accuracy and reproducibility. Two different operating modes are provided: Manual and Auto. In the Manual mode, the DSP will memorize the duration of the time that is used to achieve a desired polishing. In Auto mode, the heat will be applied for the duration of the timer setting.

World Precision Instruments



DMF1000

**Filament Holder
mounts directly to
objective to
provide precise
control of heating
element position.**

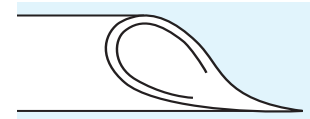


DMF1000 SPECIFICATIONS

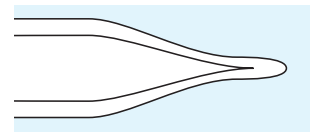
AC POWER MODULE	100-240 VAC 50/60 Hz
TIMER RANGE (for heater & timer)	0.01 to 360 sec
NUMBER OF MEMORYS	10
PRESSURE ADJUSTING RANGE	0.5 – 60 PSI (3.5 – 414 kPa)
PRESSURE RESOLUTION	0.1 PSI (0.7 kPa)
FILAMENTS	H4 – Small filament for working with 40× long working distance objective. H5 – Large filament for working with 10× objective. Filament adjustment assembly provided for both objectives.
HEATER AND TIMER CONTROL	Auto or Manual via Pushbutton, TTL, or Optional Foot switch.
OBJECTIVE	40× Long-Working Distance (3 mm)
EYEPiece	10× (pair) 15× (pair) optional
RETICLE (10x eyepiece only)	1.25 μm/division (at 40×) 0 – 90° angle at 5°/division
DIMENSIONS: Control Unit	10.2 × 17.8 × 4.8 cm (4 × 7 × 1 7/8 in.)
SHIPPING WEIGHT	1.8 kg (4 lb.)
MICROSCOPE	See H602, page 209
SHIPPING WEIGHT	7.3 kg (16 lb.)



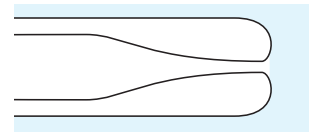
Fire Polishing



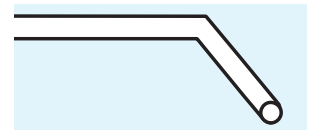
Large Tip Sharpening



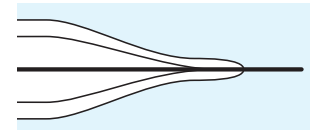
Tip Sealing



Tip Reducing (holding pipettes)



Tip Bending



Carbon Fiber Sealing in Plastic

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