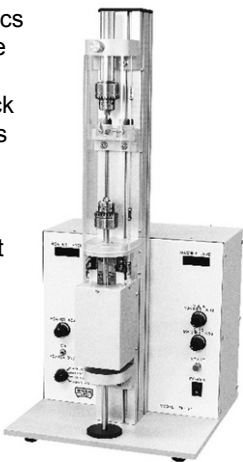


# PN-21 Puller

Producing multibarreled electrodes, thick glass tubes and other special microneedles

The PE-21 is an updated version of the former model PE-2, long established as the Eccles and tower type, featuring new electrical characteristics for greater safety and stability. Like the conventional type, it stretches the glass capillary vertically, by using the gravitational force of its own weight and that of the magnet. The glass capillary is fixed by the drill check method, and capillary sizes ranging from O.D.2 to O.D.4mm can be used. From capillaries O.D.2 to O.D.4mm thick, the PE-21 can produce the long, comparatively firm electrodes used for nerve center experiments, or multibarreled electrodes combining three, four and seven O.D.1mm glass capillaries. The magnet and heater are adjusted from the digital display, where the maximum output of each is represented as 100: this makes adjustment easy and contributes to greater accuracy in mass production. By combining two conventionally separated units into one, this model saves a considerable amount of space.



## Specification

|                      |                                                                                                                             |
|----------------------|-----------------------------------------------------------------------------------------------------------------------------|
| Accessories included | G-2 Glass Capillary, G-3 Glass Capillary, Spare Heater, Chuck Handle, Power supply cable<br>PE-21HC (for 3mm) is integrated |
| Power source         | AC100V(+5%), 50/60Hz<br>AC120V(+5%), 50/60Hz<br>AC220V(+5%), 50/60Hz<br>AC240V(+5%), 50/60Hz                                |
| Power consumption    | Approx. 500W at max                                                                                                         |
| Heater Current       | Approx. 17A                                                                                                                 |
| Heater Voltage       | Approx. 6V                                                                                                                  |
| Dimensions/Weight    | W280 x D280 x H600mm, 20.5kg                                                                                                |

## Consumable

| Model   | Product                     | Description                |
|---------|-----------------------------|----------------------------|
| PE-21HA | Straight heater for PE-2/21 | Straight Kanthal wire (x5) |
| PE-21HB | Coil heater for PE-21       | For 2mm Kanthal wire (x5)  |
| PE-21HC | Coil heater for PE-21       | For 3mm Kanthal wire (x5)  |
| PE-21HD | Coil heater for PE-21       | For 6mm Kanthal wire (x5)  |