



Micro Plasma Welding

MICROPAW 20

The MicroPAW 20 is well known for producing precision quality welds in many medical, aerospace, automotive and industrial applications.

ADVANTAGES

- Welding Amperages as low as 0.1 amp
- Consistent arc starting and stable cylindrical arc

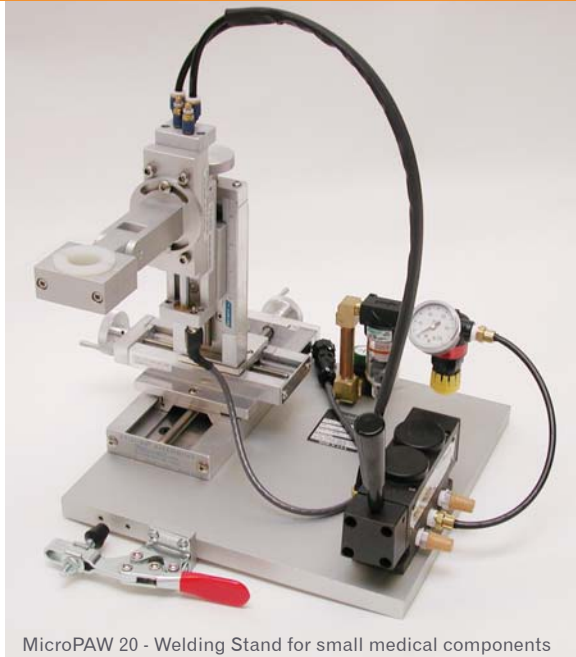
- High weld speeds
- Minimal heat affected zone and low part distortion
- Minimal high frequency arc start prevents interference with peripheral equipment
- Joins thin materials: .003" (0.08mm) thick sheets



Weld Quality Starts in the Arc

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MICROPAW 20



MicroPAW 20 - Welding Stand for small medical components



System Features

System includes the welding power supply, integral water cooling system, gas regulators, flow meters liquid cooled plasma torch and ground cable.

Front panel current programming for PULSING, SLOPING between pulsed levels and Weld Time.

Direct interface to external control systems and foot pedal connection.

Medical Applications

- Angiographic and Catheter Guide Wires
- Pacemaker Batteries and Enclosures
- X-ray
- Tubes
- Orthoscopic
- Cutting Tools
- Prosthetic Components

Aerospace Applications

- Microwave & Laser Devices
- Sensors
- Specialty Cabling
- Hermetic Sealing
- Laproscopic Assemblies

Industrial Applications

- Precision Instruments
- Pressure & Load Sensors
- Hermetically Sealed Canisters & Enclosures
- Batteries
- Metal Seals
- Fine Wires
- Hydraulic & Pneumatic Fittings
- Wire Mesh
- Bellows
- Thin Sheet & Tubing
- High Vacuum Assemblies
- Tool & Die Molds

Suitable Materials

- Stainless Steel
- Nickel-Base Alloys
- Heat Resistant Alloys
- Non-ferrous Metals
- Nickel Silver
- Constantan
- Nickel & Gold Alloys
- Silver
- Zircalloy
- Titanium

Specifications

Main Arc Current: 0.1 to 20.0 A, 100% duty cycle

Power Line Voltage: 230 V.A.C.

Main Arc Voltage: 15 V to 25 V (nominal)

Open Circuit Voltage: 110 V

Pilot Arc Current: 1.0 to 5.0 A. Set to 3.5 A (std).

Pilot Arc Voltage: 7V to 20V

Pulse Rate: 0.1 to 99.9 Hz (Low range)

1 to 999 Hz (High range)

Upslope/Downslope: 0.01 to 9.99 s (std)

0.001 to 0.999 s (calibration option)

Pilot Gas Flow: 0.1 to 1 liter/minute.

Shield Gas Flow: 1 to 8 liters/minute.

Weld Time: 0.01 to 9.99 s (std)

0.001 to 0.999 s (jumper option)

0.1 to 99.9 s (jumper option)

Dimensions: 23" W x 12.5" H x 25" D

(585 x 320 x 635 mm)

Weight (dry): 115 lbs. (52 kg)