

MINI-WELD

The MINI-WELD is a miniaturised capacitor – discharge welder for rapid attachment of thermocouple wires to work-pieces. Although the MINI-WELD is very small and lightweight, it has all the capabilities of units many times larger and heavier. It is supplied in a durable pouch and can conveniently be carried about and operated while clipped to the operators' belt.

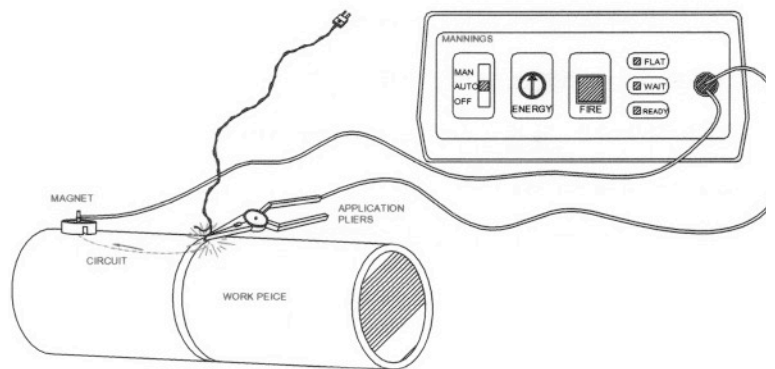
Technical Description:

The MINI-WELD causes a brief pulse of high current to flow through the circuit, and welds the thermocouple wire to the work piece. The electrical energy comes from the batteries. The unit converts the low-voltage, low current power to a high-voltage charge on an energy storage capacitor. The conversion and sequencing is supervised by a microprocessor. The MINI-WELD takes a few seconds to build up the charge to the level selected. When the unit is fixed, the stored energy is released. Because the electrical resistance of wires is so low, the stored energy can deliver a brief pulse of current in excess of 1,000 amps to the weld.

The weld penetration on the work piece is minimal – only 0.18mm. The Heat Affected Zone (HAZ) is only 0.28mm causing no damage to the work piece other than a small blemish, which can easily be removed.



REF: 43410



SIZE:-	157mm (H) x 95mm (W) x 45mm (D)
WEIGHT:-	740 g
BATTERIES:-	4 off AA 1.5V single use disposable alkaline cells
WELD VOLTAGE:-	Adjustable between 65 and 100V (equivalent of 20 to 50 joules)
CYCLE TIME:-	Approximately 15 seconds per weld at 30 joules
ENDURANCE:-	Approximately 250 welds of 30 joules from new batteries
PROTECTION:-	IP30. The mini-weld is not waterproof and should be protected in wet conditions
SAFETY:-	BSEN 1010-1:1983
EMC:-	BSEN 50081-1:1992 BSEN 50082-1:1998

REMEMBER THAT THIS IS A PIECE OF ELECTRICAL EQUIPMENT AND IT SHOULD BE TREATED WITH THE RESPECT THAT ELECTRICAL UNITS DESERVE. NORMAL ELECTRICAL SAFETY STANDARDS APPLY.