

DIGATRON TWU

TAB WELDING UNIT

Digatron Systems TWU, Tab Welding Unit, is an automatic electrode tab ultrasonic welding machine, designed for the production of lithium cells.

It is designed to trim the current collectors of the electrodes, weld them together and connect them to the cell tabs using an ultrasonic welding system.

The operator manually loads the machine with a tray containing the cell to be processed. The cell is automatically moved by a robot to the current collector welding station, where the electrodes of the same type are welded together.

The current collectors of the cell are then trimmed to the desired length and welded to the tabs. Positive and negative tabs are stored in two magazines and automatically fed to the welding heads by a double pick and place unit.



QUESTIONS?

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TECHNICAL DATA



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GENERAL DATA

Power supply AC input 400V 3ph+N 50Hz (others on request)

Power supply 20 A max

Compressed air 10 NI/m at 0,6 MPa – 12"

Weight 990 Kg

Dimensions (WxDxH) 1570 x 970 x 2100 mm

CURRENT COLLECTOR DIMENSIONS (mm)

Current collector length 70 Max

Current collector width 5.0 - 60.0

Thickness 0.10 - 0.30

CURRENT COLLECTOR PALLET (mm)

External length 80

External width 80

Height 25

Pallet weight (empty) 0.4 Kg

CELL PALLET (mm)

External length 350

External width 210

Height 75

Pallet weight (empty) 3.2 Kg

ULTRASONIC WELDER

Welding unit 20 kHz (up to 2500 W power)

1 Welding station for aluminium tab welding

1 Welding station for nickel tab welding

