

# DIGATRON ZSU

## Z-FOLD STACKING UNIT

Digatron Systems ZSU, Z-Fold Stacking Unit, is an automatic electrode stacking and separator folding machine, designed for the production of lithium cells.

The operator manually loads the machine with anode and cathode electrodes, stored in specifically designed trays that bring them to the exact pick up position and starts the automatic cycle.

Anode and cathode are automatically placed onto an alignment system by a pick and place unit to ensure the correct position.

A second pick and place unit then takes the electrodes and places them on the stacking head. The electrodes are held at a precise position while the stacking operation is performed.

Once stacking is completed the cell is removed off the stacking head. The separator is cut and wound around the cell, sealing tape is automatically applied and the cell is moved to the exit position.



**QUESTIONS?**

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# TECHNICAL DATA



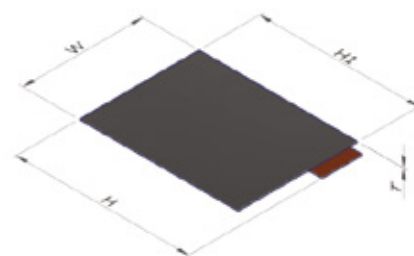
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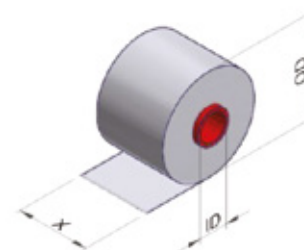
### GENERAL DATA

Power supply AC input	400V 3ph+N 50Hz (others on request)
Power supply	10 A max
Compressed air	12 NI/m at 0,6 MPa – 12"
Weight	950 Kg
Dimensions (WxDxH)	1770 x 1550 x 2100 mm



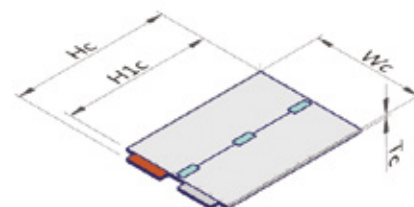
### ELECTRODE DIMENSIONS (mm)

Width	from 50 - 175
Height	from 60 to 245 (height of coated area)
Thickness	from 0.10 to 0.20 mm



### CELL DIMENSIONS (mm)

Width	from 50 to 180
Height	from 65 to 250
Thickness	from 3.0 to 15.0
Anode/Cathode positioning tolerance	±0,6 mm (ref. single sheet stacking)
Anode/Separator positioning tolerance	±0,25 mm (ref. single sheet stacking)



### SEPARATOR ROLL DIMENSIONS (mm)

External diameter	280 Max
Separator width	from 50 to 250
Core internal diameter	76.2 (3")
Core width	Max 270

