

**BLA SERIES**

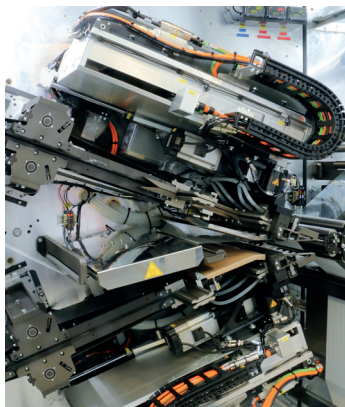
LAMINATION AND STACKING MACHINE FOR LITHIUM-ION CELL ASSEMBLY



# BLA Series

Lamination and Stacking Machine for Lithium-Ion Cell Assembly





Intro cut



Lamination unit



Separator cutting



Exit

## TECHNICAL SPECIFICATIONS

### BLA SERIES

Dimensions (L x W x H)	13,300 mm x 2,150 mm x 2,200 mm
Weight	15,000 kg
Production rate	up to 240 mono-cells per minute and a maximum speed of 400 mm/s whichever comes first
Mono-Cell total width/length	$\pm 0.30$ mm
Mono-Cell stacking accuracy	$\pm 0.40$ mm
Machine setup time	4 hours approx.
Safety	CE

### PRODUCT DIMENSIONS

Mono-Cell width	80 to 180 mm
Mono-Cell length (including tabs)	80 to 360 mm
Cell thickness	3 to 28 mm

### BASIC MACHINE FOR PILOT APPLICATION

Frame, machine main plate, safety cover
Unwinding of electrodes from reel with manual splice (one anode and one cathode), autosplice as optional
Unwinding of separator from reel with manual splice
Web alignment system
Electrode cutting and feeding group
Belt protector unwinding from reel
Belt protector rewinding to reel
Lamination unit with four pre-heating stations
One buffer unit with dancing roller
Mono-cell strip feeding belt
Mono-cell cut
Mono-cell inspection (Vision system)
Mono-cell short circuit test
NG reject station
Mono-cell stacking into work piece carrier
Pallet loading/unloading
Reel bar code reader
One set of size part

### FEATURES

- *This machine has been designed based on Manz modular platform that allows to configure it from the pilot up to mass production application.*
- *Multiple independent modules are connected in line to perform several processes, such as: unwinding of pre-notched rolls of electrodes (anode and cathode), electrodes cut and placement between a porous separator to form mono-cell or half-cell, heat and press lamination, mono-cell individual cut, mono-cell inspection and testing and stacking into a work-piece carrier.*

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