

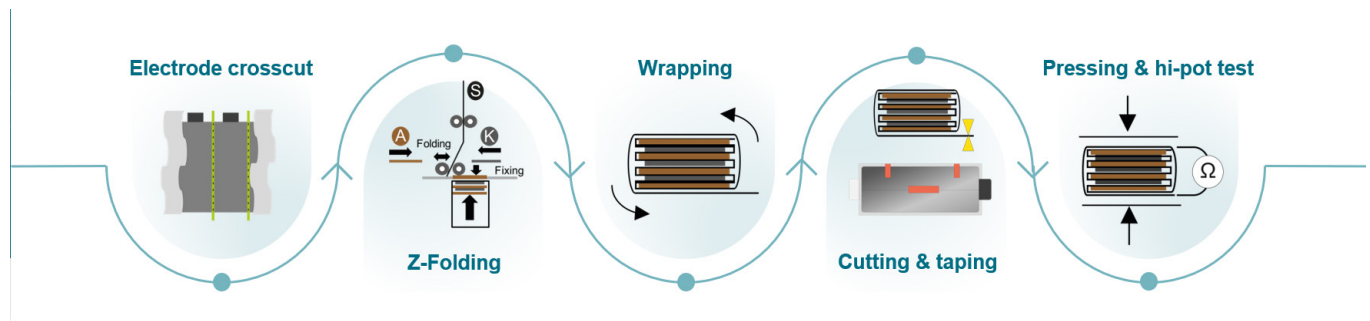


Innovative technology for Z-folding of electrode stacks

We are setting new standards in the mass production of battery cells

Technical specifications Z-folding system (BSZ)

Developed together with our cooperation partner Grob-Werke, the Z-Falter BSZ sets new standards in the mass production of battery cells and is specially tailored to the requirements of the automotive industry. The scalable machine concept is extremely flexible and can be adapted to individual, customer-specific production requirements.



Z-folding system (BSZ)

Applicationen	Prismatic, Pouch, Cylindrical
Dimensions (L x W x H)	Length depends on the number of stacking cells
Example: two unit Z-folder	16,600 mm x 3,000 mm x 2,900 mm
Electrode dimensions	
Length	70 - 350 mm
Width	65 - 250 mm
Accuracy	
Layer to layer	± 0,1 mm
Total cell stack	± 0,3 mm
Speed	< 0,5 s/sheet
Integrated Vision systems	Geometry check Surface inspection
EOL	HiPot DMC / QR-Code
Unwinding configuration	Single / Autosplice



✓ Integrated processes

- Unwinding with an output of ≤ 180 Electrode sheets
- Magazing with integrated camera and cleaning system
- Core process Z-folding suitable for axial and radial cell designs
- OL incl. HiPot tests, final taping and DMC labeling

→ Advantages Z-folder

- Machine for mass production:
- Optimized for the automotive industry
- Scalable machine concept: Up to six stacking stations possible
- High accuracy and sheet-to-sheet stacking speed
- Adaptable to customer requirements

