



Pure Innovation: E-filling Technology

Precise, reliable and efficient

Scalable and flexible electrolyte filling technology for hardcase cells

Technical Specifications BFH (Battery Filling Hardcase)

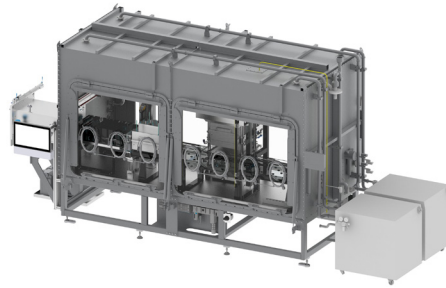
Our BFH battery filling machine grows with your requirements and can be seamlessly expanded with upstream and downstream processes. Manz's unique filling unit guarantees precise filling of the battery cell with electrolyte, resulting in improved product quality and cost efficiency. And that for the first and second filling.



Lab Tool

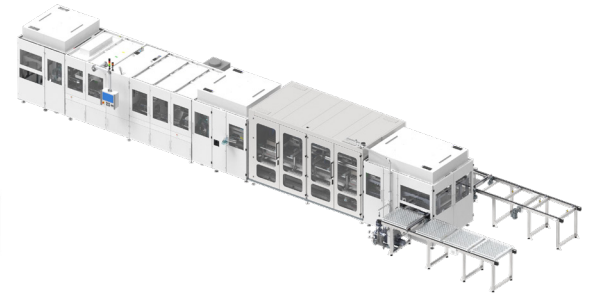
- Research and laboratory filling systems
- Full flexibility: Same process equipment from development to series production
- L x W x H (in mm): 890 x 1,650 x 2,040*

*Small footprint



Small Series

- Production systems on a laboratory scale
- Integration of additional processes possible (weighing, cleaning...)
- Enabler from research to mass production



MP Tool

- Modular and scalable mass production systems
- Customized material supply and removal
- Individual process steps depending on customer requirements

Battery Filling Machine (BFH)

Filling services	
Process	1. and 2. Filling with electrolyte
Filling quantity	from 5 – 700 g
Filling accuracy	≤ 1 %
Speed	cylindrical cells: ≤ 50 ppm prismatic cells: ≤ 10 ppm
Vacuum	≥ 1 mbar
Overpressure	≤ 15 bar



Your benefits

- Unique filling unit from Manz patented
- The same filling system from process development to mass production
- Integration of upstream and downstream processes
- Modular, scalable and maximum flexible machine concept with the highest degree of individualization and integration capability
- Integration of numerous processes in one process possible (weighing, HiPot tests, visual inspection, laser welding, and so on)

