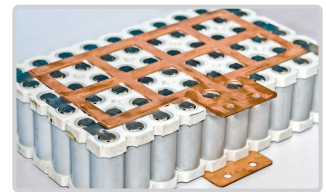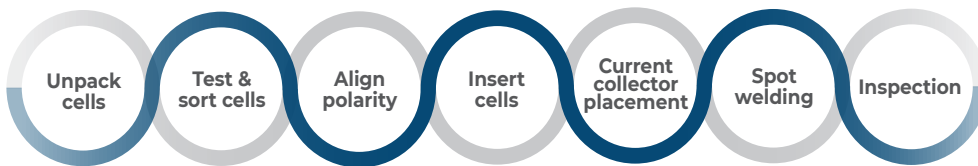# Modular Automation for Assembling Battery Modules

Increase capacity with predictable output by quickly automating error prone repetitive assembly and inspection tasks on your battery module assembly line. Bright Machines Microfactories leverage pre-built, production-ready hardware building blocks which can be easily programmed and operated using pre-integrated software.

Battery module assembly process

Unpack cells → Test & sort cells → Align polarity → Insert cells → Current collector placement → Spot welding → Inspection

Bright Machines Microfactory

Configured with Brightware™

Benefits of using a Microfactory

• Produce more units per hour

• Reduce cost per unit

• Improve workplace safety

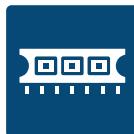## Skills that are factory-ready

| Screwdriving | Pick and place part assembly | Heat sink insertion | DIMM card insertion | Bar code scanning | Labeling | Soldering | Dispensing | Inline testing |

Ideal for product assembly and inspection of battery modules

The traditional way of automating an assembly line involves many manual steps to implement. With Bright Machines, deployment time can be cut in half by using standardized hardware supported by pre-integrated software. Scaling up is made easier too by simply replicating another microfactory and deploying the same Brightware design and program recipes to it. And when it comes time to change products, the building blocks of the microfactory can be reused to build another line with at least twice the reuse rate versus traditional hard automation which drives down the total cost of ownership. The modular design of the platform grows with your business.

Bright Machines Way

| Analyze | Configure | Deploy | **50%** faster deployment time *on average |

Current Automation

| Analyze | Design | Fabricate | Assemble | Program | Integrate | Deploy |

About Bright Machines

Bright Machines was born out of the desire to help manufacturers effortlessly and autonomously build the next generation of smart electronic products. Our global team consists of leading experts in applied science, software, automation, process engineering and factory operations, with deep experience in computer vision, machine learning and adaptive robotics. Together we are re-imagining what manufacturing will be in the future, grounded in the reality that exists on today's factory floors. We're proud to have been recognized by Forbes as one of America's most promising AI companies, by CRN as a top 10 Robotics startup, by IOT Analytics as a top 10 IoT startup, and by World Economic Forum as a Technology Pioneer.

Reach out to us at **sales@brightmachines.com**.

Visit us at **brightmachines.com**.