

Modular Automation for Assembling Power Tools

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

Bright Machines Microfactory



Configured with Brightware™

Benefits of using a Microfactory

- Produce more units per hour
- Reduce cost per unit
- Improve product quality

Skills that are factory-ready



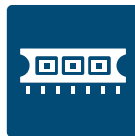
Screwdriving



Pick and place
part assembly



Heat sink
insertion



DIMM card
insertion



Bar code
scanning



Labeling



Soldering

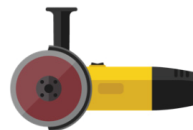


Dispensing



Inline testing

Ideal for product assembly and inspection of power tools



Example: Attach motor control circuit board to plastic mount

The motors used in power tools are controlled electronically by a circuit board. In this example, the process of attaching the motor control circuit board to a plastic mount was automated using a microfactory consisting of four stations each using a Bright Robotic Cell configured to perform a specific assembly step. Compared to using human operators, the microfactory was able to produce 17% more units per hour at 72% lower cost per unit. Quality was improved too due to the use of computer vision to check each step.

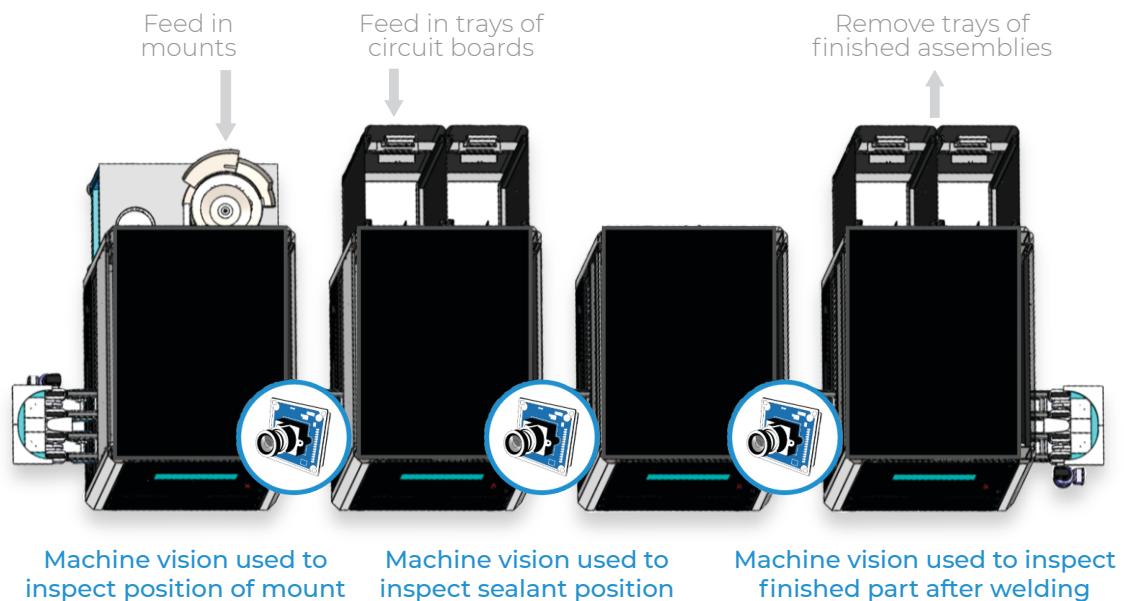
Microfactory work flow

Station 1
prepare mount

Station 2
dispense sealant
on back side
of circuit board

Station 3
weld circuit board
to mount

Station 4
pick finished
assembly from pallet
and place onto tray



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.

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