

# Modular Automation for Assembling Smart Meters

Reduce cost per unit produced by quickly automating error-prone repetitive assembly and inspection tasks on your smart meters 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

**Modular, flexible system**



Automated assembly lines

**Operated using Brightware™**



### Skills that are factory-ready



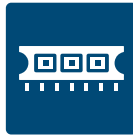
Pick and place  
part assembly



Screwdriving



Heat sink  
insertion



DIMM card  
insertion



Bar code  
scanning



Labeling



Dispensing



and more

### Manufacture Smart Meters



## Example: Single phase electricity meter

One of the assembly steps involved in manufacturing single phase electricity meters, is the assembly of the display board. This involves multiple pick and place component assembling of the circuit board, LCD, support bracket, connector and antenna. Using a Bright Machines Microfactory consisting of one robotic cell along with supporting material feeding and conveying systems, it was possible to automate the assembly of the display board and in doing so **reduce the cost per unit** from \$0.05 to **\$0.02**. The capacity and yield were also both increased as a result of automating these assembly steps.

Production metric	Human assembly	Automated assembly
Headcount	1	<b>0</b>
Units produced per hour	135	<b>300</b>
Cost per unit produced	\$0.05	<b>\$0.02</b>
Production yield	95%	<b>98%</b>

## About Bright Machines

Bright Machines helps companies manufacture more products, at a higher-quality and lower cost. Our software and robotic cells intelligently automate product assembly and inspection, helping solve the capacity needs and labor challenges of modern factories. Our global team consists of leading experts in software, robotics and manufacturing. 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 Bloomberg as one of their NEF Pioneers and by the World Economic Forum as a Technology Pioneer.

Reach out to us at [sales@brightmachines.com](mailto:sales@brightmachines.com)

Visit us at [brightmachines.com](http://brightmachines.com)