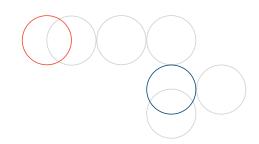
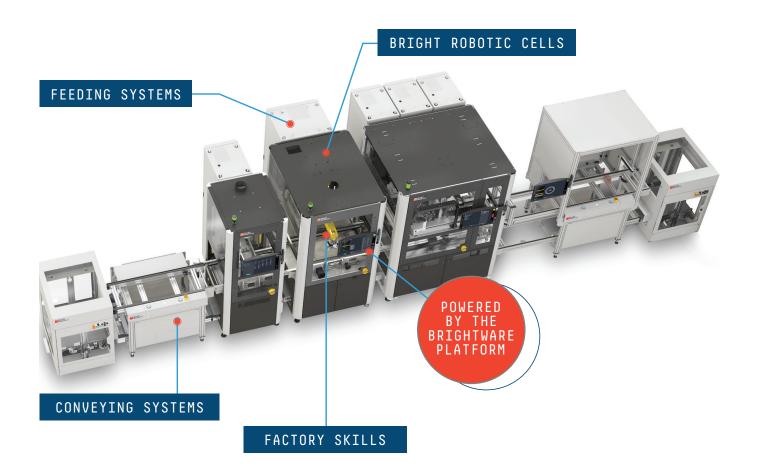
# **Bright Machines<sup>®</sup> Microfactory**





## Intelligent Automated Assembly

Powered by the Brightware® Platform, Bright Machines Microfactories leverage programmable building blocks that can be quickly configured to form flexible, scalable assembly lines.



Assemble electronic products and subassemblies

Build multiple SKUs on the same line with fast changeover

Run continuously for hours with automated material feeding

Inspect results using machine vision and machine learning



Bright Machines Microfactories use one or more robotic cells to form an automated assembly line.

### STANDARD CONFIGURATION

BRC35 BRC70 BRC100







Internal volume of chassis (excluding electrical cabinet)			
35 cubic feet	70 cubic feet	100 cubic feet	
External	dimensions of chassis (excluding embedded c	conveyor)	
850 x 1000 x 2200 mm	1206 x 1505 x 2200 mm	1700 x 1505 x 2200 mm	
	Weight		
450 kg	900 kg	1150 kg	
	Maximum pallet size		
700 x 450 mm	700 x 600 mm	1200 x 600 mm	
	Robot manipulators		
Nachi EZ06 4-axis, 5 kg payload	Fanuc LR Mate 200iD/7L 6-axis, 7 kg payload	Dual gantries	

There are three sizes of cells available. The BRC35, BRC70, and BRC100 have internal volumes of 35,70, and 100 cubic feet. The three cells can be used together on the same line to assemble products with heights up to 220 mm and weights up to 30 kg. Each BRC has a standard configuration which includes the chassis, electrical cabinet, robot manipulators, 200-230VAC power supply, and 21" touch screen display.



Bright Machines Microfactories support automated material feeding, enabling the assembly line to run for extended periods of time without requiring human operators to load materials into it.

### STANDARD CONFIGURATION

TRAY FEEDER 305

TRAY FEEDER 600





External dimensions of chassis			
1360 x 490 x 2246 mm	1360 x 780 x 2246 mm		
We	ight		
450 kg (no cart) 650 kg (cart with max payload)	530 kg (no cart) 680 kg (cart with max payload)		
Maximui	n payload		
10 kg per tray 250 kg per cart	10 kg per tray 250 kg per cart		
Maximun	n part size		
280 x 380 x 200 mm	560 x 380 x 200 mm		

The Tray Feeder 600 and Tray Feeder 305 each support 25 trays with a cycle time of 6 seconds to switch trays and are compatible with the BRC70 and BRC100 fitting onto the back side of the cell.



Bright Machines Microfactories support conveyance of payloads up to 30 kg. Embedded conveyors move pallets from cell to cell for processing a sequence of operations. Return conveyors bring pallets back to the start of the line.

#### STANDARD CONFIGURATION

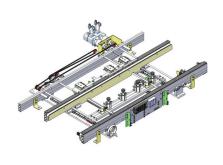
PALLET ELEVATOR

CONVEYOR STATION

ADJUSTABLE WIDTH CONVEYOR







External dimensions of chassis		
1119 x 921.5 x 1274 mm	1400 x 1100 x 1040 mm	Adjustable width
Weight		
220 kg	130 kg	Supports PCBs of various sizes

Pallet elevators are used in the line to transport pallets vertically between the embedded conveyor and return conveyor.

Conveyor Stations can be placed in the line where needed to accommodate human operator run stations or automated stations which don't require a cell, and adjustable width conveyors can be configured to support a variety of PCB sizes.



Bright Machines Microfactories are configured with end of arm tools to enable them with factory skills for electronics product assembly.

