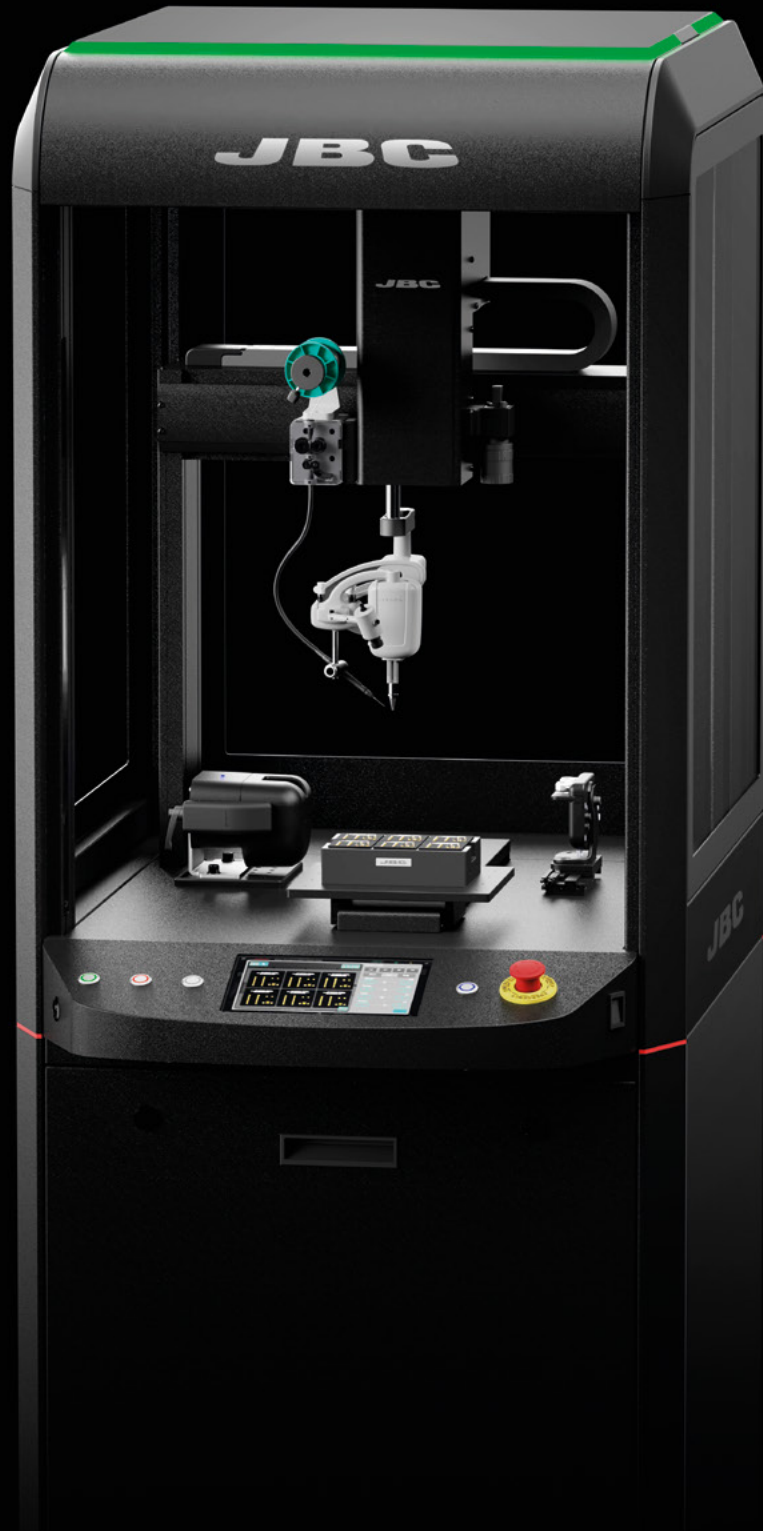


JBC

The Soldering Co.



Smart Desktop Robot

Best solution for automation processes with
no programming knowledge

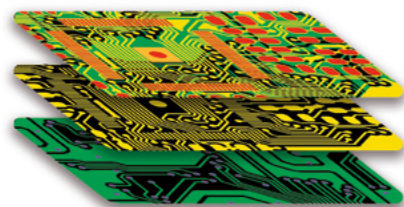
SDR Smart Desktop Robot

This turnkey solution can be easily implemented into a current soldering production line

A complete system with everything necessary for optimal and quality soldering for automated processes that require an increase in production.

How does it work?

SDR features an artificial vision, which works with gerber files and detects the PCB position and pads with great accuracy.



Gerber files

Features



Artificial vision detects the PCB position and pads of gerber files.



Easy to use, thanks to the touch screen and the intuitive software provided.



JBC technology allows anyone to operate it without prior training.



Hand-held motion detector sensor for added security.

SFR

Solder Feeder for Robot

Automatic solder wire feeding according to customized speed and length, featuring a wire detector sensor.



GSFR

Guide Kit

Available with or without solder wire perforation and different solder wire diameters.



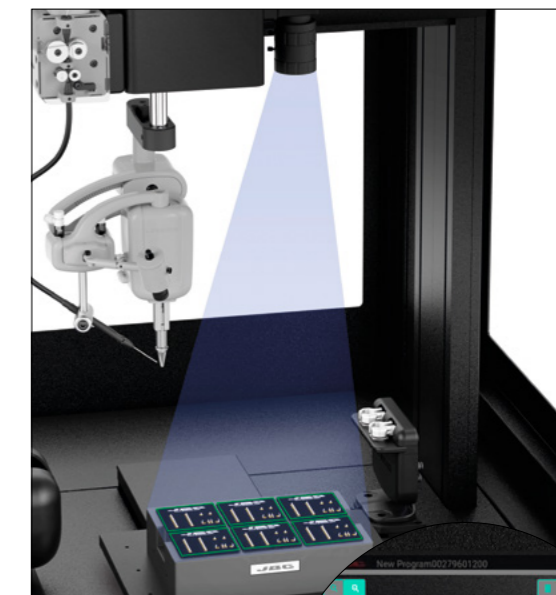
CLMRP

Tip Cleaner with Fiber Brushes

Non-metal Brush Tip Cleaner with a large capacity tank with easy extraction and adjustable position.



PCB position detection allows the robot to auto-recalibrate and the soldering position without editing the program.



6 PCBs detected

TRA

Automatic Soldering Tool

Actuates by compressed air allowing fast and automatic cartridge exchange.



CSR

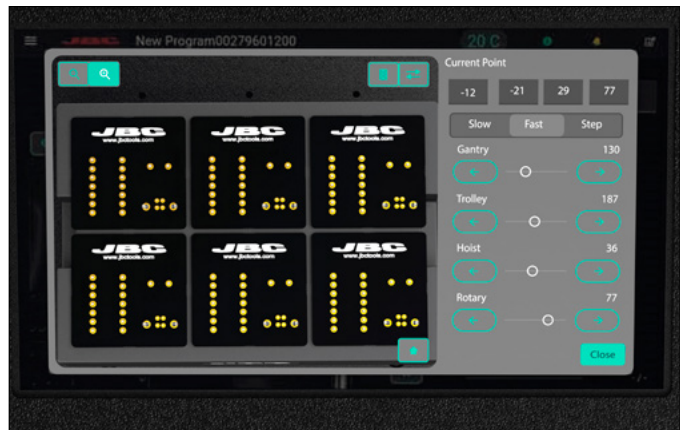
Automatic Cartridge Exchanger

Works with compressed air to automatically fix and release the cartridges.



Robot screen

- Interactive user-friendly interface
- Data transfer function between robots
- PDB detection and robot autocalibrating
- Configuration of soldering point parameters:
Tip temperature, solder amount, soldering time, etc.
- Information shown on the screen:
 - Product processing status
 - Camera detail
 - Tip temperature in realtime
 - X,Y,Z,R-axis positioning
- Configuration of I/O ports
- Configuration of system parameters:
Home position, safety high, cleaning, speed
- Button functions:
 - Play, pause, configure and restart.



Robot screen

Cartridge Range

More than 46 different tip shapes. Desktop Robot is fully compatible with **R245** and **R470** Cartridge Range.



Specifications

Ref.		SDR
		SDR-5A
Number of axes		4 axes
Travel range	X, Y axes	400 mm
	Z axis	95 mm
	R axis	±360°
Operation speed	X, Y axes	500 mm/s
	Z axis	500 mm/s
	R axis	200 mm/s
Repetitive XYZ axis positioning accuracy		±0.05 mm / ±0.002 in
Transportable weight	X, Y axis	10 Kg
	Z axis	3 Kg
Power supply		AC 100V - 240V 50/60 Hz
External dimensions	W	780 mm / 30.7 in
	D	1100 mm / 43.3 in
	H	2020 mm / 79.5 in
Weight		150 Kg

Ref.	UCR245	UCR470
	UCR245-5A	UCR470-5A
Tool	TR245-B	TR470-B
Cartridge range	R245	R470
Output peak power	160 W	250 W
Tip-to-ground resistance	<2 Ω	<2 Ω
Selectable temperature	90 to 450 °C	90 to 500 °C
Solder feeder	SFR-B	
Solder wire diameter	0.5 to 1.5 mm / 0.02 to 0.06 in	
Solder wire feeding length	0.5 to 250 mm / 0.02 to 9.84 in	
Solder wire feeding speed	0.5 to 120 mm/s	
Cleaning system	CLMR-PA	

