



Tuned for Your Soldering

Simple and equipped with basic functionality Simple Soldering Operation



- Semi-automated robot for point to point soldering after the SMT process.
- Best suited for use in cellular manufacturing.
- Fully versatile robots can be easily adapted to production changes due to product modifications.
- Desktop robots take up less space. A table, a power supply and dry air are all that is needed.
- The tip and heater can be replaced with one-touch operation (patented).
- A wide variety of specifically made tips for soldering robots, perfect for any works.
- Experienced technical staff will support before and after installation.



Configurations

Desktop Robot JR3304S-BC

Iron Tip Cleaner	UJC-213
Switch Box	Simple Start Box
Teaching Pendant	(Option)
PC Software	JRC-Points (Option)
Blacket for USP5	

Soldering Controller USP5

Soldering Controller	USC-871
Soldering Head	UMC-093A (Linear) / 093AS (Point)
Heater	100BHS / 100BHL
Solder Feeder	UPM-023
Tube Set	PT**S-070 (**=Solder Diameter)

Specifications

Robot

Model		JR3304S-BC
Number of axes		4 axes simultaneous control
Range of operation	X-axis (Back and forth axis)	300mm
	Y-axis (Right and left axis)	320mm
	Z-axis	100mm
	R-axis	±360°
Maximum movable weight (Workpiece)		15kg
Maximum speed (PTP)	X,Y-axis	900mm/sec. (5 to 500mm/sec.)
	Z-axis	400mm/sec. (2.5 to 250mm/sec.)
	R-axis	900°/sec. (6 to 600°/sec.)
Repeatability accuracy	X,Y-axis	±0.01mm
	Z-axis	±0.01mm
	R-axis	±0.008°
Workpiece size	Maximum jig size)	300mm×275mm (X,Y)
X-axis table, Space between table and soldering tip (Z axis direction)		In case of UMC-093A : 85mm UMC-093AS : 85mm
Position teaching	g method	Remote teaching (MDI)
Teaching format		Direct teaching through teaching pendant Off-line teaching by personal computer (option)
Number of programs		255 programs
Point memory capacity		30000 points maximum *1
Drive system		5-phase stepping motor drive
Control system		PTP control, CP control
Interpolation function		3-dimensional linear, circular ark interpolation
External interface		RS232C 2channels (1channel for the PC and 1channel for USP5) RS422 1channel (dedicated for the teaching pendant) Ethernet
Exclusive input/output (Max.)		24 points for input, 24 points for output
Simplified PLC function		50 programs, 1000 steps per program
Outside dimensions (W×D×H)		432×435×783 (mm)
Power source		AC100 to 120V 50/60Hz 200W(VA) AC220 to 240V 50/60Hz 200W(VA)
Air		Dry air 4 to 5kg/cm²
Working temperature		0 to 40℃
Relative humidity		20 to 95% (non-condensing)
Weight		Approx.38kg

^{**1} The point memory area is shared with the point attribute data, point work data and sequence data. When such data amount increases, the maximum point data amount decreases.

Soldering Controller

Model	USP5
Number of soldering conditions	500
Tip temperture range	200-450°C maximum
Heater alarm value	±0 to 100°C variable
Heater element	250W Cross Heater
Applicable solder diameter	φ 0.3 to φ 1.6 (Standerd), φ 0.5 to φ 1.0(Clean Cut Type)
Solder feeding control	Stepping motor control
Alarms	Out of solder, solder jamming, heater alarm

High performance options with the latest features



Clean Cut Feeder

At a solder feed, cutting is performed for the resin flux cored solder to prevent an explosion of flux.



Lock-on Mechanism

Perfectly maintains the original supply



Nitrogen Gas Generator

UNX-200 Protection against oxidation and improves spread and wettability.



Iron Tip N2 Cap

Blows nitrogen gas from the end of the iron

Spare Parts



Heater

Needle

ND-※※GP

(Depending on the solder diameter, the ** section may change.)

100BHS-2510 (250W) 100BHL-2510 (250W)



Soldering Iron Tip Custom design and production also possible.



Solder Feed Tube Set PT**S-070 (**=Solder Diameter)



Heater Cable WHC-881BH-5

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