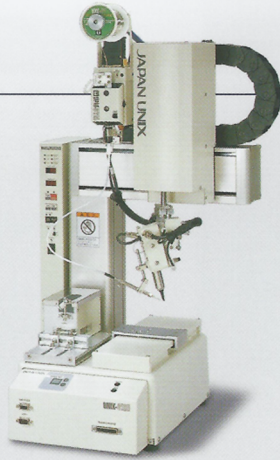


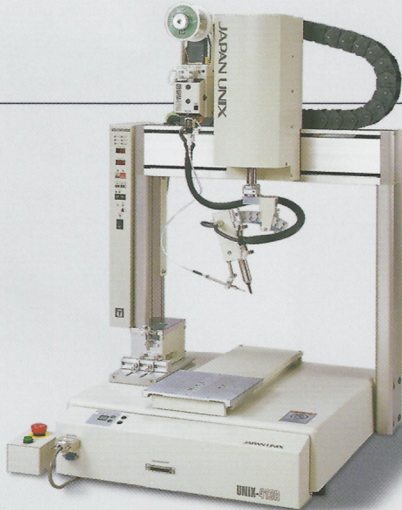
Select from Three Standard Types to Suit Work Size and Work Environment.



UNIX-412R

Standard Configurations

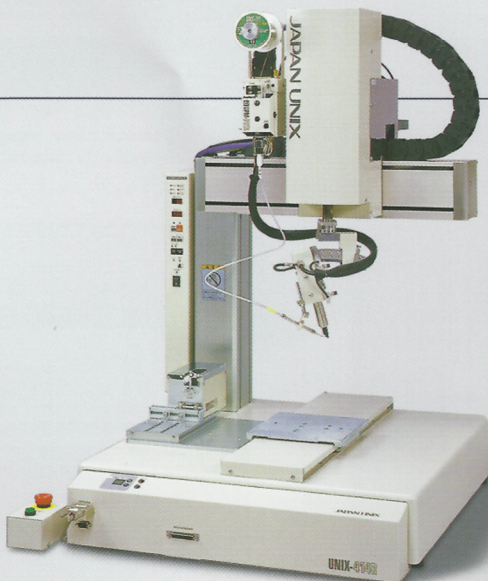
- ① Robot body
- ② Soldering controller (UP-05)
- ③ Teaching pendant (RK-TP)
- ④ Iron tip cleaner (UJC-214)
- ⑤ Soldering head (UMC-086A)
- ⑥ Solder feeder (UPM-011A)
- ⑦ Solder feed tube set (PT Series)
- ⑧ Switch box (RK-SWB)



UNIX-413R

Standard Configurations

- ① Robot body
- ② Soldering controller (UP-05)
- ③ Teaching pendant (RK-TP)
- ④ Iron tip cleaner (UJC-214)
- ⑤ Soldering head (UMC-087A)
- ⑥ Solder feeder (UPM-011A)
- ⑦ Solder feed tube set (PT Series)
- ⑧ Switch box (RK-SWB)



UNIX-414R

Standard Configurations

- ① Robot body
- ② Soldering controller (UP-05)
- ③ Teaching pendant (RK-TP)
- ④ Iron tip cleaner (UJC-214)
- ⑤ Soldering head (UMC-087A)
- ⑥ Solder feeder (UPM-011A)
- ⑦ Solder feed tube set (PT Series)
- ⑧ Switch box (RK-SWB)

● Main body of Robot

Model		UNIX-412R	UNIX-413R	UNIX-414R
Number of axes		4 axes simultaneous control		
Range of operation	X-axis (Back and forth axis)	200mm	300mm	400mm
	Y-axis (Right and left axis)	250mm	320mm	400mm
	Z-axis	50mm	100mm	150mm
	R-axis	±360°		
Maximum movable weight (Workpiece)		7kg	11kg	11kg
Maximum speed(PTP)	X,Y-axis	500 mm/sec. (5 to 500 mm/sec.)	800 mm/sec.(8 to 800 mm/sec.)	800 mm/sec.(8 to 800 mm/sec.)
	Z-axis	250 mm/sec.(2.5 to 250 mm/sec.)	320 mm/sec.(3.2 to 320 mm/sec.)	320 mm/sec.(3.2 to 320 mm/sec.)
	R-axis	600°/sec.(6 to 600°/sec.)	800°/sec.(8 to 800°/sec.)	800°/sec.(8 to 800°/sec.)
Repeatability accuracy	X,Y-axis	±0.01mm		
	Z-axis	±0.01mm		
	R-axis	±0.02°		
Workpiece size (Maximum jig size)		200mm×210mm (X,Y)	300mm×275mm (X,Y)	400mm×365mm (X,Y)
X-axis table, Space between table and soldering tip (Z axis direction)		In case of UMC-086:85mm	In case of UMC-087:145mm	In case of UMC-087:145mm
Position teaching 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 arc interpolation		
External interface		RS-232C 2channels (1channel for the PC and 1channel for an option unit) RS-422 1channel (dedicated for the teaching pendant)		
Exclusive input/output (Max.)		24 points for input, 24 points for output		
Simplified PLC function		50 programs, 1000 steps per program		
Outside dimensions		W:432×D:435×H:783 (mm)	W:615×D:581×H:861 (mm)	W:611×D:641×H:890 (mm)
Power source		AC90 to 120V 50/60Hz 450VA		
Air		Dry air 4 to 5kg/cm ²		
Working temperature		0 to 40°C		
Relative humidity		20 to 95% (non-condensing)		
Weight		Approx.22kg	Approx.39kg	Approx.47kg

※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.