# SR-LYRA Ⅱ

## Iron Tip Soldering Robot

## In-Line type

An in-line soldering device that combines a SCARA robot with the soldering unit "LYRAⅡ". You can choose from two types of SCARA robots according to your application.

LYRAⅡ & SR controller

### Compact body and controller

The weight of the robot body is 19kg (in the case of SR400-LYRA Ⅱ), which is lightweight and compact. The robot controller and LYRA Ⅱ controller have also become compact, greatly increasing the degree of freedom for in-line design.

### High-speed, high-reliability robot

By adopting a high-speed and highly reliable SCARA robot from FANUC, you can use the robot continuously.

■Common features of the LYRAⅡ controller

### Localized iron tip temperature control

The iron tip temperature can be set for each point according to the work needs, e.g.: in heat capacity, solder through-hole filling rate, back fillet, etc.

| Type | | SR400-LYRA Ⅱ | SR650-LYRA Ⅱ |
|---|---|---|---|
| Operation Mode | | Horizontal Articulated Robot | |
| Controlled Axes | | 4-axes (J1、J2、J3、J4) | |
| Motion Range | | 400mm | 650mm |
| Operation Range (Max operation speed) | J1 axis | ±142° (720°/s) 2.48rad (12.57rad/s) | ±148° (440°/s) 2.58rad (7.68rad/s) |
| | J2 axis | ±145° (780°/s) ±2.53rad (13.61rad/s) | ±150° (700°/s) ±2.62rad (12.22rad/s) |
| | J3 axis stroke | 200mm (1,800mm/s) | 210mm (2,000mm/s) |
| | J4 axis | ±360° (3,000°/s) 6.28rad (52.36rad/s) | ±360° (2,500°/s) 6.28rad (43.63rad/s) |
| Wrist Part Portable Weight | | 3kg | 6kg |
| Repeatability* | J1 + J2 axis | ±0.01mm | ±0.01mm |
| | J3 axis | ±0.01mm | ±0.01mm |
| | J4 axis | ±0.004° | ±0.004° |
| Weight of Robot (The controller unit is not included) | | 19kg | 30kg |
| Solder Condition | | Point and Slide Total : 500 conditions | |
| Setting Temperature | | 0～500℃ | |
| Solder Feeding Speed | | 1.0～50.0mm/sec | |
| Solder Feeding Amount Resolution | | 0.1mm | |
| Solder Wire Diameter | Using ZSB Feeder | Φ0.4～1.0mm (Option Φ0.3mm) | |
| | Using Normal Roller | Φ0.3～1.0mm | |
| | Using Large Diameter Feeder | Φ1.2～2.0mm | |
| Heater Capacity | | 200W(Max.) | |
| Air Supply | | 0.4～0.5MPa (Dry & Clean Air) | |
| Power Source | | AC200～240V (Single Phase) | |
| Power Consumption | | 2,000W | |

* Position repeatability is not a guarantee of absolute precision. With usage conditions, it may exceed the above value.