

SOLDER MEISTER®
Desktop Soldering Robot DF series | Digest

www.japanunix.com



JAPAN UNIX CO., LTD.

Headquarters | 2-21-25 Akasaka, Minato-ku, Tokyo 107-0052
Tel. +81-3-3588-0551 Fax. +81-3-3588-0554

•Korea Office •Shanghai Office •Shenzhen Office •Taiwan Office •Malaysia Office •Mexico Office

• This catalog reflect the products as of January 2016. The product appearance and specifications can change without notice.
• Be sure to carefully read the operating instructions included with the product before use.

Inquiry No.C00367
Printed in Japan 16011500 (Y-co)

Robotic soldering for everywhere

New soldering robot UNIX-DF series

Enhanced network functionalities for the future Industry 4.0 & IoT!

Expansion to Industry 4.0.
Connect to internal networks in factories and enable to monitor the status of production.

- A monitoring application achieves an effective remote monitoring of production status and enables data management & analysis, such temperature characteristics, motion, and error, to prevent occurrence of defects.
- Data export become much easier and faster with LAN port and memory port.

Simple and easy operation for everyone.
The new interface has improved the process of teaching robot and quicker program changes within 10 minutes.

- Up to 999 different soldering tips and product types programs can be programmed, which significantly reduce operation time for changing soldering points.
- New soldering feeder is equipped, which simplifies to change solder wire diameter as well as expanding to clean cut feeder to avoid flux dispersion.
- New specialized switch box enables implementation program easily changeover (2 channels).
- Temperature settings and control are available on the front panel.

3D soldering.
2 extra axes, up to 6 axes in total, can be simultaneously manipulated.
Complicated products, components and circuit boards are solderable without additional functions.

- 2 additional axes can be added and manipulated, in addition to the standard 4 XYZR axes. (Maximum 6 axes for soldering iron operation)
- Additional axes make flexible motion possible (component rotation, board flipping, angled inclination, rotation of cylindrical parts, holding cables, etc.).

Reducing operation time with increasing rigidity and processing speed

- Increased maximum work load from 11 to 15kg. (Only UNIX-DF303L/DF304S/DF403L/DF404S)
- Enhanced maximum acceleration/deceleration speed as the result of rigidity enhancement.



UNIX-DF404S



UNIX-DF204S

A compact model for space-saving, easy-to-use and high soldering reliability




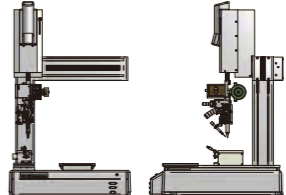
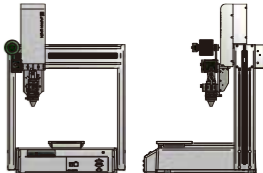
UNIX-DF404S

A superior model for wider working area, heavier work load and the best for soldering large circuit boards



UNIX-DF303L

A laser soldering model with new original software, which enable laser soldering quickly launch in your production lines.

Model number	UNIX-DF204S	UNIX-DF404S	UNIX-DF303L
			
Soldering methods	Contact soldering (iron tips)		Laser
Axes	4 axes (Simultaneous control)		3 axes (Simultaneous control)
Maximum speed (PTP operations)	XY axes	700mm/s	900mm/s
	Z axis	250mm/s	400mm/s
	R axis	600°/s	800°/s
Position repetition precision	XY axes	±0.01mm	
	Z axis	±0.01mm	
	R axis	±0.008°	
Work size Maximum fixture dimensions (X × Y)	200mm×210mm	400mm×365mm	300mm×275mm
Work load	7kg	15kg	
Heater power	200W : Cross heater 250W : New cross heater L 145W : Advanced heater		
Laser standard output	—		45W
Outer dimensions (W×D×H)*	413×387×706	584×635×934	560×575×816

*...Except for protrusions. (Unit: mm)