

SOLDER MEISTER®
SCARA type Soldering Robot UNIX-FR | Digest vol.1



JAPAN UNIX CO., LTD. <http://www.japanunix.com>

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• This catalog reflect the products as of September 2021. 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.C00507
Printed in Japan 21092000(P-BASIS)

Toward an Era of Fully Automated Lines

A New Generation of SCARA Type Soldering Robot

UNIX-FR

Features

Visualizing process management

Enhanced communication network functions for outputting and storing soldering-related data

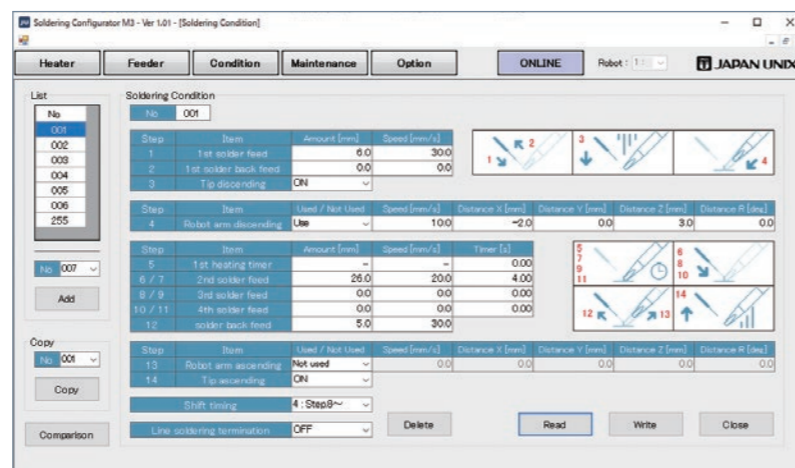
- Real-time monitoring and record keeping of soldering information.
- External command control for editing and setting soldering conditions, etc.



Speedy setting and adjustment of mass-produced motions

Comprehensive and user-friendly software that can be used regardless of operator skills

- Soldering conditions can be easily programmed using the PC-specific software "Soldering Configurator".
- Soldering-specific commands are used to make robot instruction easier to understand.



Reduces man-hours for manual maintenance

Automatic adjustment and maintenance functions

- Automatic calibration of iron tip position and temperature. (Only for iron tip soldering)



Standard Configurations

Iron tip / Laser common part



Robot



Robot Controller



Soldering Controller



Solder Feeder (Standard)



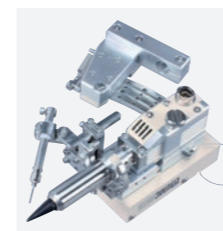
Clean Cut Feeder

Cutting into the solder during solder feeding prevents flux splattering and the generation of solder balls.

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Solder Feeder *Choose from 2 types

Iron tip part



Soldering Head / Heater

* Choose from 2 types

- UMC-090B-BHL/ Cross Heater L
- UMC-090B-BHS/ Cross Heater LS



Lock-on Mechanism (For iron tip)

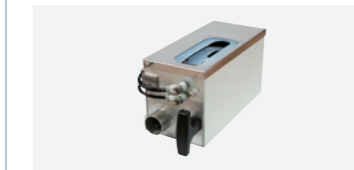
The angle block prevents misalignment of the solder supply position, which tends to occur during maintenance.

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* Can be changed to an angle setter with scale.



Iron Tip Cleaner (Standard) UJC-214



Iron Tip Cleaner (With air curtain mechanism) UJC-219

Reduces the scattering of solders and prevents them from accumulating locally, making maintenance easier.

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Iron Tip Cleaner (With vacuum function) * Choose from 2 types

Laser part



Laser Soldering Unit



Laser Head

Options

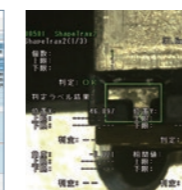
Iron tip option

Laser option



Soldering Manager

In addition to numerical information during the operation of the soldering robot, the videos captured by a small USB camera can be saved automatically. This information can be used for later analysis of defects.



Vision Position Correction Sensor

Detects target shape with a camera and automatically corrects misalignments in the workpiece.



Three-Axis Tip Position Corrector

Quickly and automatically corrects position gap due to tip erosion and/or thermal expansion.



Silicone Brush Cleaner UJC-218A

Two silicone brushes enable easier cleaning work and less tips wear and tear.



Soldering Iron Tester UNI-TESTER

Capable of measuring tip to ground potential, tip to ground resistance, and iron tip temperature of soldering robots. Data communication to external devices is possible via serial communication.



Lock-on Mechanism (For Laser)

The angle block prevents misalignment of the solder supply position, which tends to occur during maintenance.

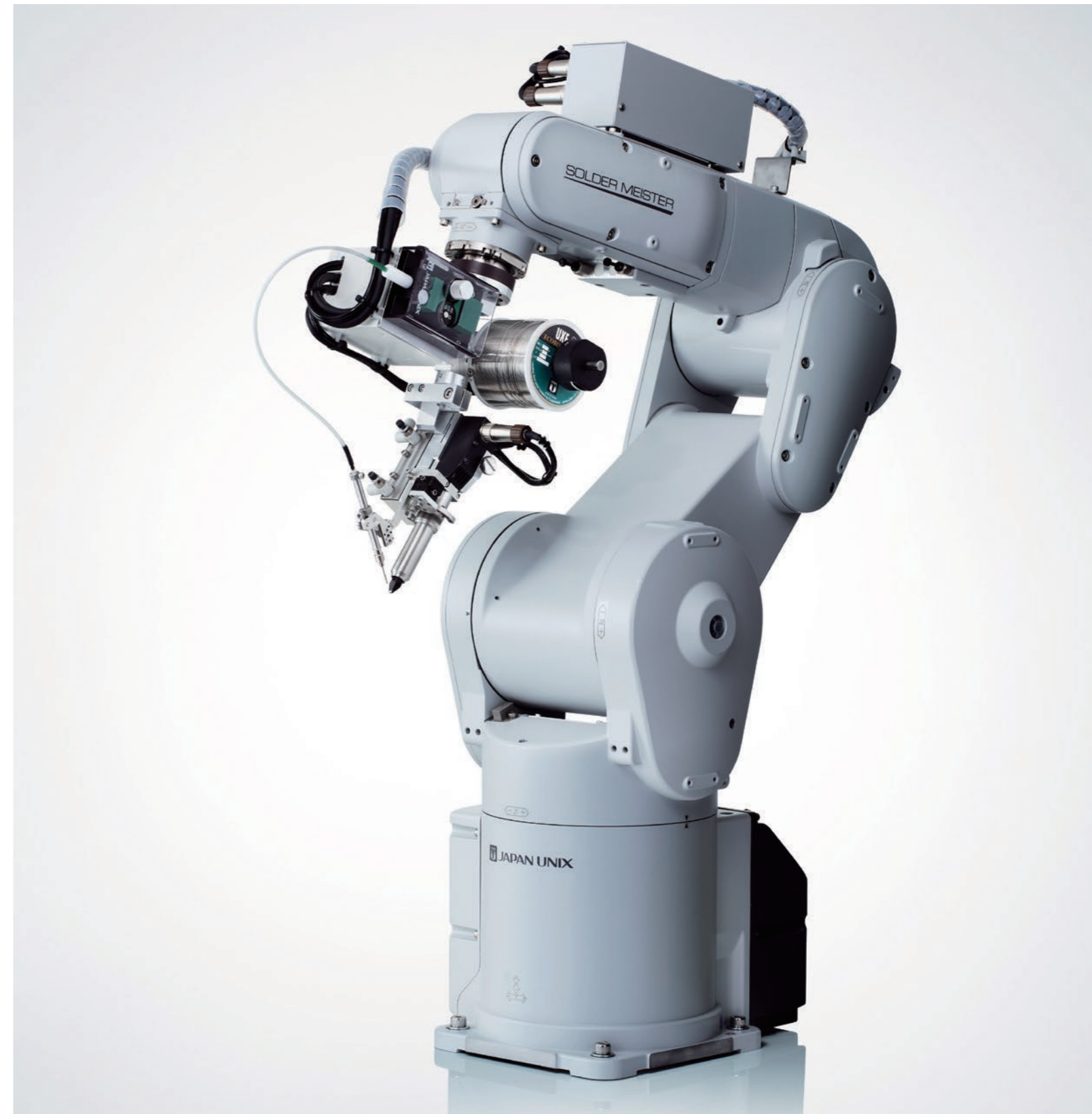


Remaining solder sensor

When solder is running out, the sensor detects its existence and alerts that it needs to be replaced.



SOLDER MEISTER®
Vertically Articulated Soldering Robot UNIX-FR | Digest vol.1



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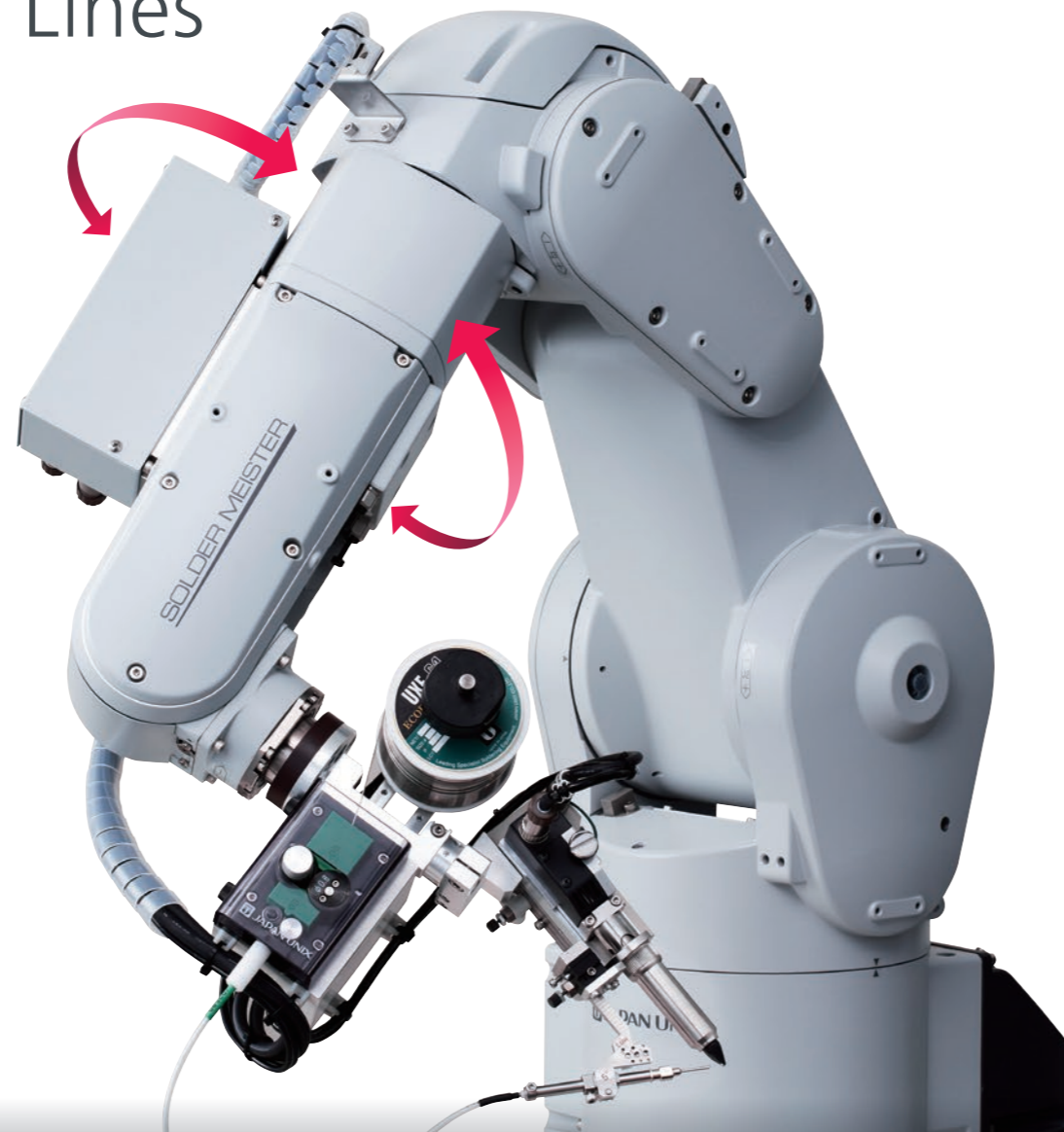
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Printed in Japan 22012000(P-BASIS)

Toward an Era of Fully Automated Lines

A New Vertically Articulated Soldering Robot



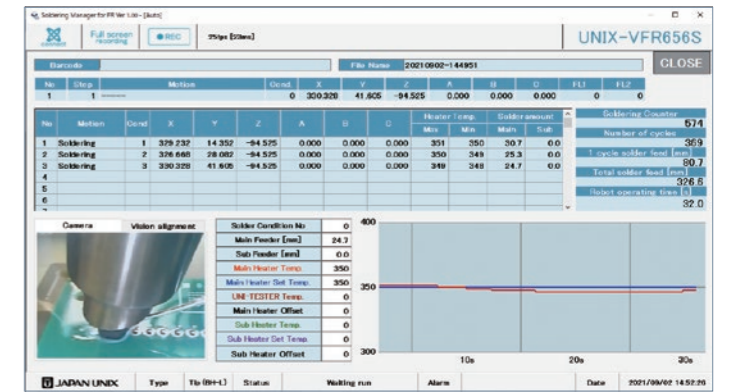
SOLDER MEISTER®
UNIX-FR

Features

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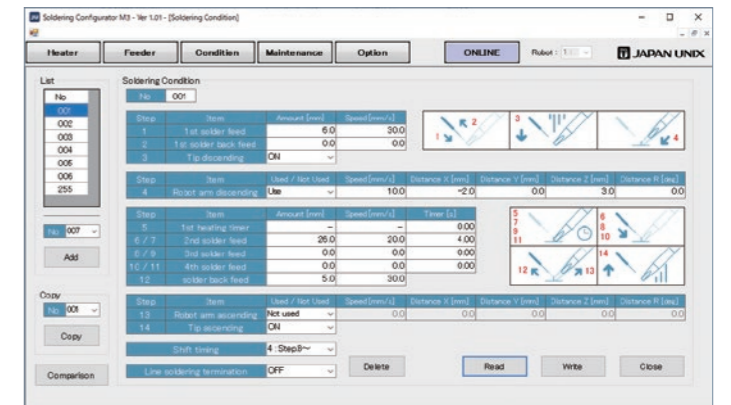
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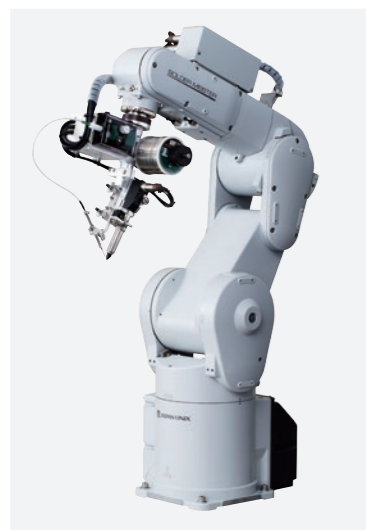


Accomplish complicated soldering for challenging applications

High flexible operation-teaching

- Multi-angle approach enables soldering for odd-shape workpieces.
- Space-saving as vertical articulation minimizes its operating range.

Standard Configurations



Robot



Robot Controller



Soldering Controller



Soldering Head / Heater

*Choose from 2 types

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- UMC-093A-BHS/ Cross Heater LS



Lock-on Mechanism (For iron tip)

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Iron Tip Cleaner (With vacuum function)
*Choose from 2 types



Iron Tip Cleaner (Standard)
UJC-214

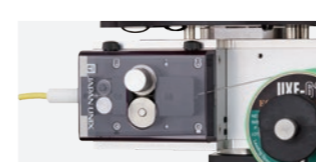


Iron Tip Cleaner (With air curtain mechanism)
UJC-219

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Solder Feeder
*Choose from 2 types



Solder Feeder (Standard)



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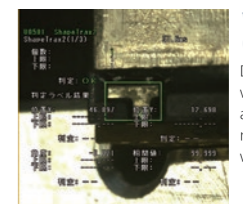
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