

SOLDER MEISTER®
Gantry Soldering Platform GF Series vol.3



CAUTION

Each axis will be delivered separately.
This product requires assembly work when delivered.

*Axis fixing brackets and mounting bases are not included.

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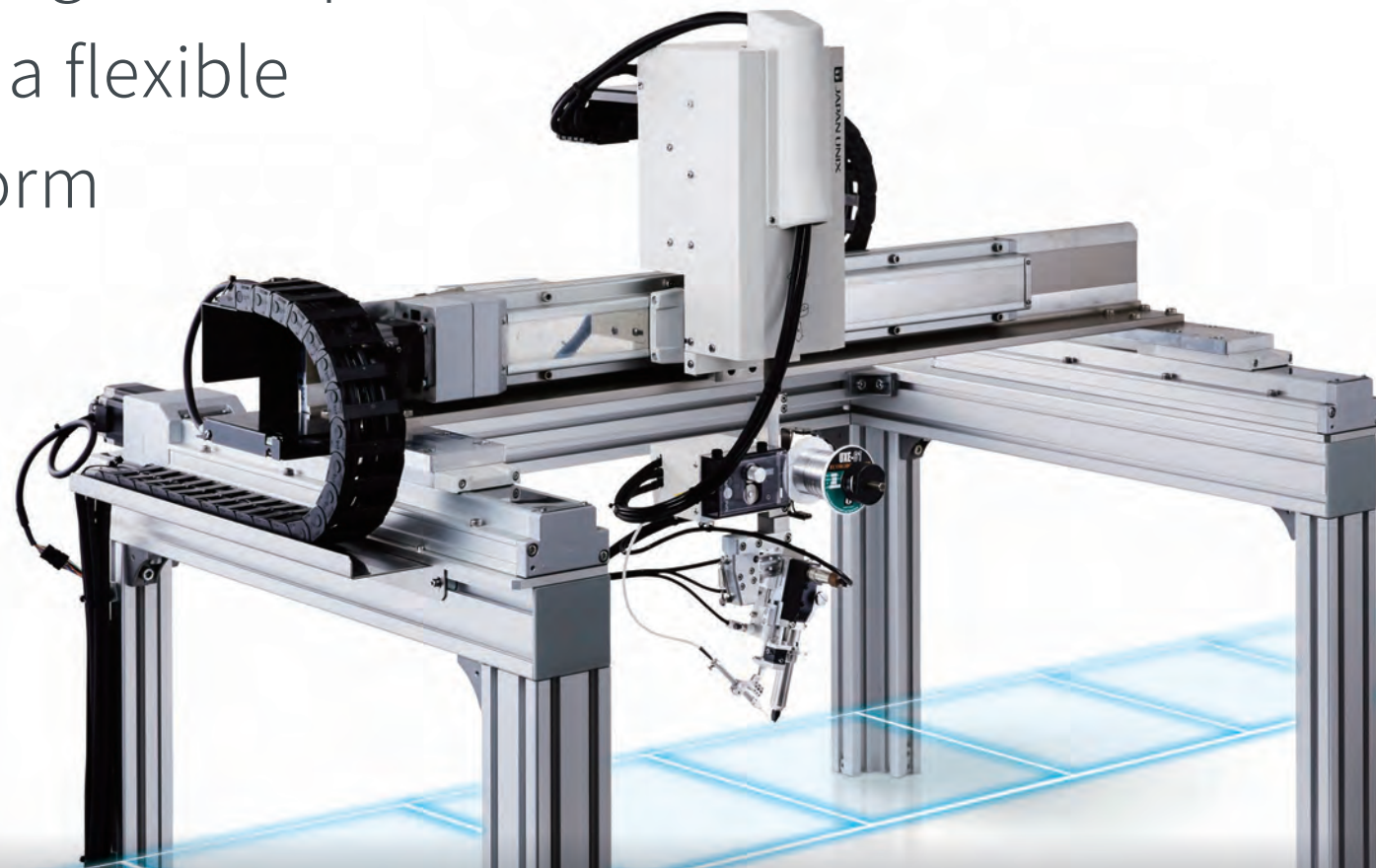
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• This catalog reflect the products as of April 2023. The product appearance and specifications can change without notice.
• Read the operating instructions attached to the product carefully before you use it.

Inquiry No. C00525
Printed in Japan 23041000(P-BASIS)

Maintaining user-friendliness,
the best-selling desktop robot
evolved into a flexible
gantry platform

Gantry Soldering Platform
UNIX-GF



Features

Equipped with 4-axis/3-axis gantry robot

The inline robot can operate with the same intuitive teaching method as the DF series.

- Follows the functions of the DF series of desktop automated soldering robots
- Feeder and optional units used in the desktop-type DF series can be used as is
- Compatible with both iron soldering and laser soldering methods
- Up to 2 additional axes can be added (option)

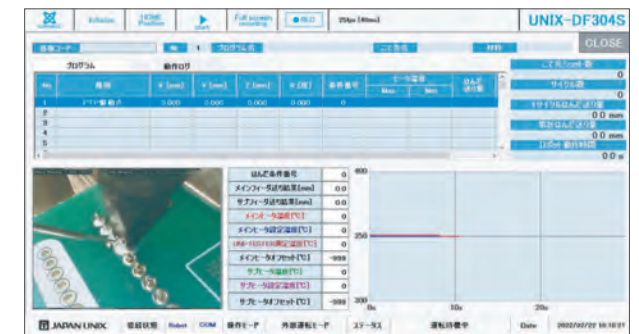


The operation is the same as the DF series robots

Visualizing process management

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

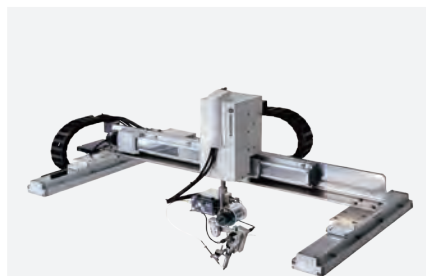
- Real-time monitoring and record keeping of soldering information.
- External command control for editing and setting soldering conditions, etc.



Soldering Manager

Standard Configuration

Common Components for Soldering Irons/Lasers



Main Body of Robot

* Please note that the base and axis mounting brackets are not included.



Robot Controller



Soldering Controller

Solder Feeders *Choose from 2 types



Solder Feeder (Standard)



Clean Cut Feeder **PATENTED**

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

Iron Tip Components



Soldering Head/Heater

- * Available in two different types
- UMC-090B-BHL/ Cross Heater L
- UMC-090B-BHS/ Cross Heater LS



Lock-on Mechanism (For iron tip) **PATENTED**

The angle block prevents misalignment of the solder supply position, which tends to occur during maintenance.
* Can be changed to an angle setter with scale.

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



Iron Tip Cleaner (Standard) UJC-214



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

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

Laser Components



Laser Unit



Laser Head

Options

Soldering iron options

Laser options



Soldering Manager

Numerical information and video captured by a USB camera during the operation of the robot are automatically saved, which can be utilized for analysis of defects.



Vision Position Correction Sensor

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



PATENTED Three-Axis Tip Position Corrector

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



Brush Cleaner UJC-217A

Rotate two brushes to remove stubborn carbides and oxides attached to the tip end.



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.



PATENTED Lock-On Mechanism (for laser)

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



Residual Solder Sensor

When solder is running out, the sensor detects and alerts for replacement.



PATENTED Thermo Pro™

It is a collective term for laser soldering systems using pyrometer. Temperature can be controlled and managed during soldering.



Switch Box

You can quickly start, initialize and perform an emergency stop at your fingertips.