**FU-500**

**Soldering iron unit**

- Main unit, Feeder unit, 5-10 x 6,000 K, Soldering stand, Feeder cable
- Tube units, Power cord, Instruction manual

### Specifications

- **Power consumption**: 35 W
- **Compatible solder diameters**: 0,4 mm, 0,5 mm, 0,6 mm, 0,8 mm, 1,0 mm, 1,2 mm, 1,6 mm
- **Dimensions**: 145 (W) x 100 (D) x 330 (H) mm
- **Weight**: 2,5 kg

### Setup option

The accessories are required for initial setup, such as a solder feed pulley unit, solder-lead guide set, and teflon tube are not included. They must be ordered separately and adapted to use with the soldering iron and solder wire diameter.

**FU-601**

**Soldering iron unit**

- Soldering iron (FU-601), Soldering iron (FU-602)
- Handpiece (FU-601) or (FU-602), Iron unit fixing assembly, Teflon tube (set of 10) + 1,6 mm, 1,8 mm, 2,0 mm, 2,2 mm, 2,5 mm, 2,8 mm, 3,2 mm, 3,8 mm, 4,5 mm, 5,0 mm

### Specifications

- **Power consumption**: 140 x 360 W
- **Temperature range**: 150-500°C
- **Pressure temperature**: 6 electrodes
- **Dimensions**: 145 (W) x 207 (D) x 211 (H) mm
- **Weight**: 4 kg

**Replacement and optional parts**

<table>
<thead>
<tr>
<th>Part No.</th>
<th>Name / Specifications</th>
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| EX-101  | Teflon tube 1.0 mm  
| EX-102  | Teflon tube 1.2 mm  
| EX-103  | Teflon tube 1.4 mm  
| EX-104  | Teflon tube 1.6 mm  
| EX-105  | Teflon tube 1.8 mm  
| EX-106  | Teflon tube 2.0 mm  
| EX-107  | Teflon tube 2.2 mm  
| EX-108  | Teflon tube 2.4 mm  
| EX-109  | Teflon tube 2.5 mm  
| EX-110  | Teflon tube 2.8 mm  
| EX-111  | Teflon tube 3.2 mm  
| EX-112  | Teflon tube 3.5 mm  
| EX-113  | Teflon tube 4.0 mm  
| EX-114  | Teflon tube 4.5 mm  
| EX-115  | Teflon tube 5.0 mm  
| EX-116  | Teflon tube 6.0 mm  
| EX-117  | Teflon tube 7.0 mm  
| EX-118  | Teflon tube 8.0 mm  
| EX-119  | Teflon tube 9.0 mm  
| EX-120  | Teflon tube 10 mm  |

**FU-500**

**FU-601**

**Smart Way to build an Auto-Soldering System**
Solder Feed Unit FU-500

**Accurate solder feeding**
The solder feed unit is designed to be set beside the iron part for superior repeat accuracy of solder feeding due to the short distance from feeder to tip.

**Countermeasure for solder ball splash**
Countermeasure for solder ball and flux splash is equipped as standard.

**Solder feed error detection**
Solder clogging and run-out can be detected with an optical sensor for solder movement.

**Solder diameter supported from 0.3 mm**
Use of DIA 0.3 mm solder wire makes micro soldering possible.

**Easy adjustment of solder feeding position**
Solder feeding position, which is a critical point for auto-soldering, can be easily adjusted by turning the screw.

**2 types of feeder units**
Select the one according to your robotic system.

Soldering Iron Unit FU-601 (140 W / 300 W)

**300 W power for better soldering quality and productivity**
300 W power can be the solution for issues such as "Insufficient solder wetting due to lack of heat" and "Insufficient through-hole fill". It can also shorten soldering time on what requires long heating time.

**High performance composite tip**
FU-601 accepts 2 types of tips, TX1 series for 140 W and TK1 series for 300 W. Refer to the optional tips.

**N2 adapter assembly**
Soldering with N2 is possible with the adapter. The use of N2 improves solderability.

**2 types of soldering irons**
There are 2 types of soldering irons to choose from. One is straight type and another is L-shaped type.

**Long iron cables are available as option parts**

**Quick and easy tip replacement by the tip adjustment jig unit**
If one more handpiece is prepared, another soldering tip can be mounted on the spare handpiece during operation of the robot.

**6 preset temperatures function**
Tip temperature can be preset up to 6 preset temperatures can be called for each soldering program. Call higher temperature for where it requires more heat and call lower temperature where it requires less heat.
Optional Tips

TX1 series

For 140 W

TX1-XD
TX1-XD9
TX1-XD16
TX1-XD24
TX1-XD3

Shape XD

TX1-XD9
TX1-XD16
TX1-XD24
TX1-XD3

Shape XD w/ groove

TX1-XBCR2
TX1-XBCR3
TX1-XBCR4
TX1-XBCR5

Shape XBC w/ groove

Shape XDR w/ groove

Slide Units and Tip Cleaner

CX1000

Slide unit
This unit can give vertical movement to a soldering iron part.

CX1001

Slide unit
(for drag soldering)
This unit can absorb height variations during drag soldering.

A brush-type cleaner as standard
A brush-type tip cleaner is employed. This brush type cleaner can remove not only residual solder but also carbide generated from burned flux.

CX1002

Temperature probe
Temperature probe can make it easy to measure the temperature of tip used in an auto-soldering system.

TX2 series

For 200 W

# TX2 series tips are not compatible with TU-400, which is already discontinued.

TX2-XD28
TX2-XD289
TX2-XD28916
TX2-XD2824
TX2-XD3

TX2-XDR
TX2-XDRF16
TX2-XDRF24
TX2-XDRF32

TX2-XDRF16
TX2-XDRF24
TX2-XDRF32

TX2-XRKR16
TX2-XRKR24
TX2-XRKR32

For TX2 X2023

Adapter assembly and Nozzle assembly are required to perform Ns soldering.

* Adapter assembly and Nozzle assembly are required to perform Ns soldering.

Slide unit

Sliding mechanism

Temperature probe

Solder scapless needle