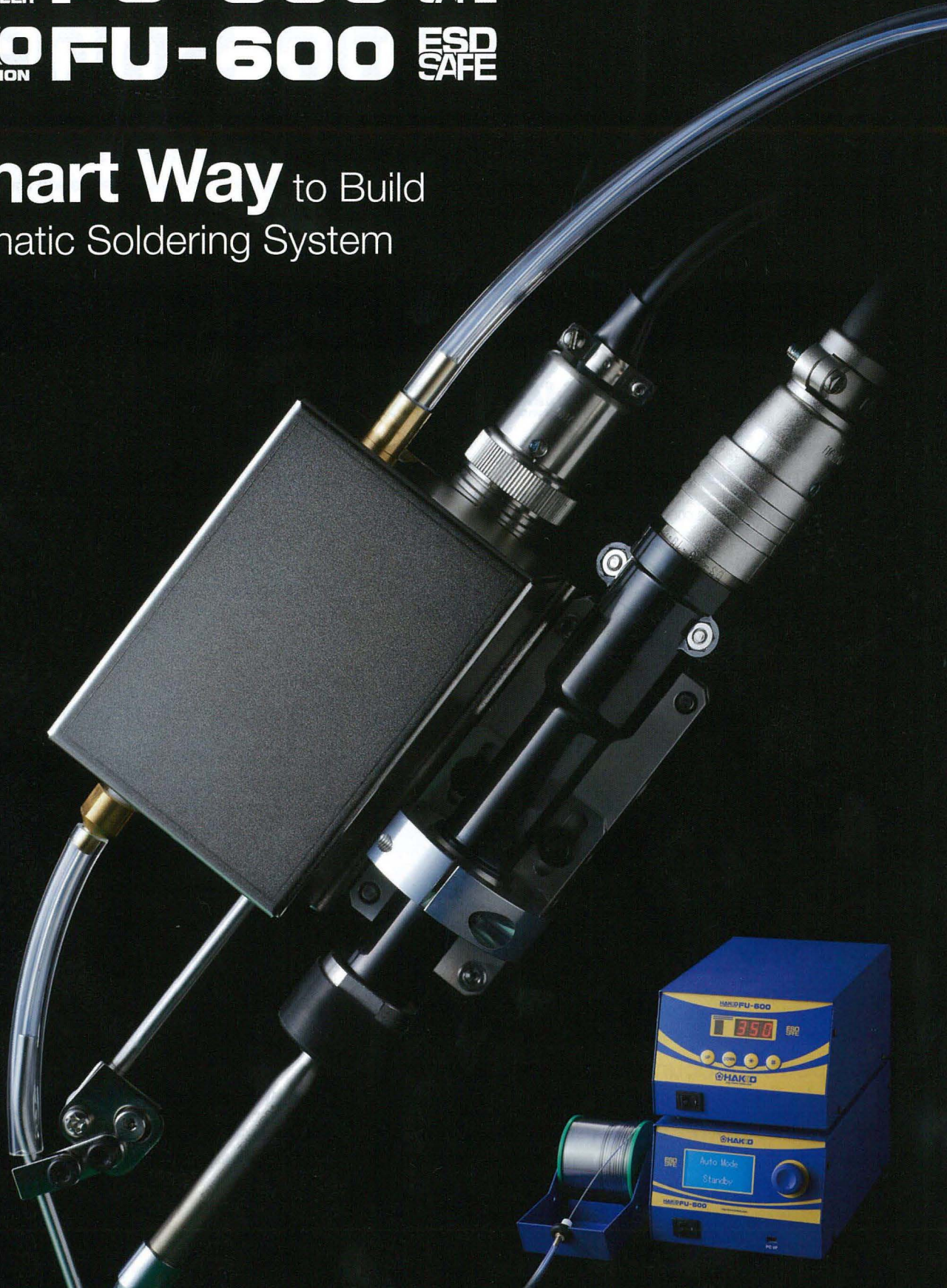




**HAKKO** FU-500 **ESD SAFE**  
FEEDER CONTROLLER

**HAKKO** FU-600 **ESD SAFE**  
SOLDERING STATION

**A Smart Way** to Build  
an Automatic Soldering System



Automatic Soldering System

**FU-500 Feeder controller for 0.3-1.6mm**  
**FU-600 Soldering station**

\* Part number depends on the requiring voltage and solder diameter.

\* FU-500 Feeder controller requires optional parts for different solder diameter.

## Packing list

	
<b>FU-500</b>	<b>FU-600</b>
<b>HAKKO FU-500 Feeder controller</b>	<b>HAKKO FU-600 Soldering station</b>
HAKKO FU-500, Feeder unit, Solder reel stand, Feeder cable, Tube unit, Power cord and Instruction manual	HAKKO FU-600, HAKKO FU-6001, Iron unit fixing assembly, Tip adjustment jig unit, Iron cable, Heat resistant pad, Connecting cable, Power cord, Flux protector, Feeder unit attachment screw and Instruction manual

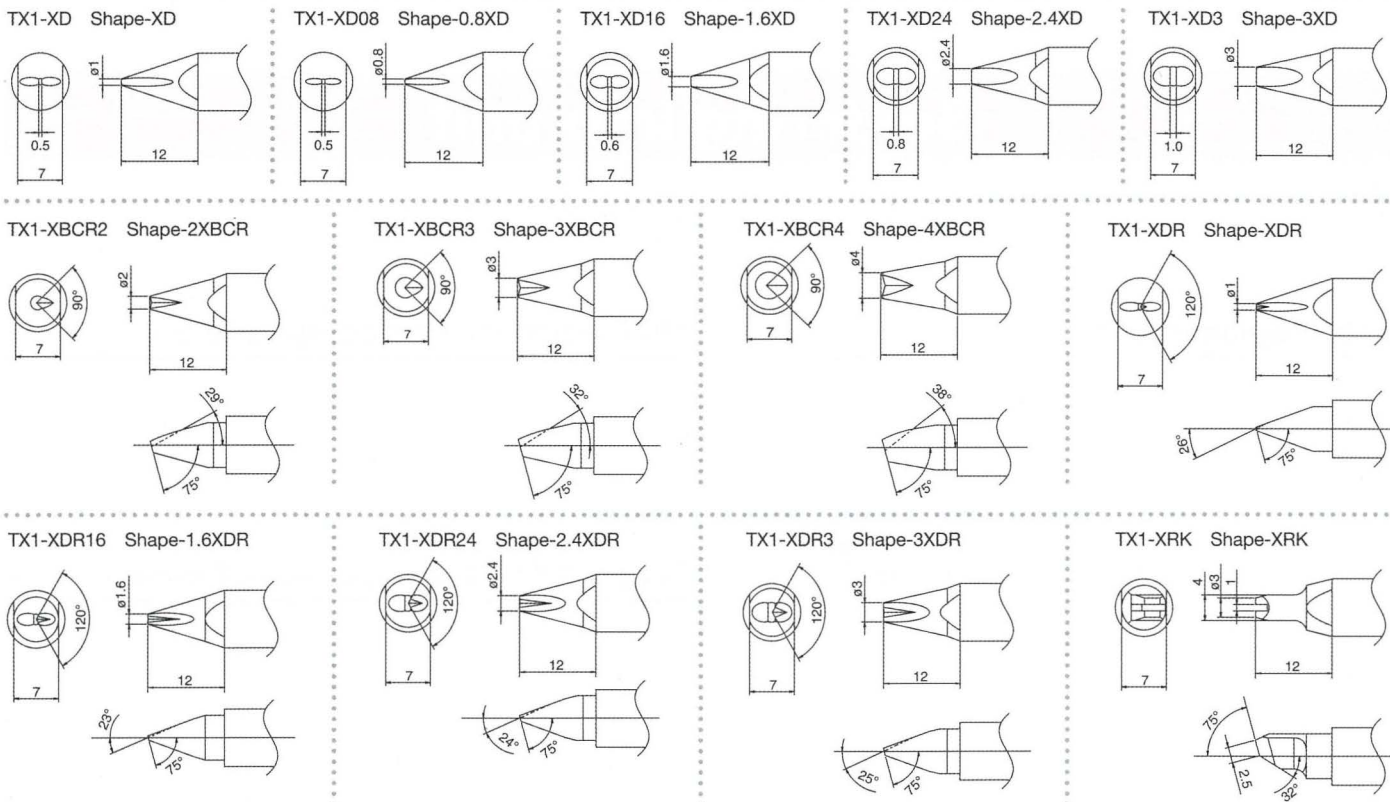
## Specifications

Model No.	<b>FU-500</b>
Power consumption	25W
Compatible solder diameters	0.3mm, 0.5mm, 0.6(0.65)mm, 0.8mm, 1.0mm, 1.2mm, 1.6mm
Dimensions	145mm(W) × 100mm(H) × 230mm(D)
Weight (not including cords)	2.3kg



Model No.	<b>FU-600</b>
Power consumption	140W
Temperature range	50-600°C
Preset temperature	6 settings
Dimensions	145mm(W) × 102mm(H) × 210mm(D)
Weight (not including cords)	2.8kg


## Replacement tip (Optional)



## Replacement Parts (Optional)

\*When purchasing the HAKKO FU-500 Feeder controller, it is also necessary to purchase the Solder feed pulley unit, Solder feed guide set, and Teflon tube.

Part No.	Part Name	Remarks
BX1000	Solder feed pulley unit/0.3 mm	
BX1001	Solder feed pulley unit/0.5 mm	
BX1002	Solder feed pulley unit/0.6 mm	
BX1003	Solder feed pulley unit/0.8 mm	
BX1004	Solder feed pulley unit/1.0 mm	
BX1005	Solder feed pulley unit/1.2 mm	
BX1006	Solder feed pulley unit/1.6 mm	
BX1007	Solder feed guide set/0.3 mm	
BX1008	Solder feed guide set/0.5-1.0 mm	
BX1009	Solder feed guide set/1.2-1.6 mm	
BX1010	Teflon tube/0.3 mm × 10	
BX1011	Teflon tube/0.5-0.6 mm × 10	
BX1012	Teflon tube/0.8 mm × 10	
BX1013	Teflon tube/1.0 mm × 10	
BX1014	Teflon tube/1.2 mm × 10	
BX1015	Teflon tube/1.6 mm × 10	

Part No.	Part Name	Remarks
BX1016	Tube unit/0.3-1.0 mm	
BX1017	Tube unit/1.2-1.6 mm	
BX1027	Flux protector	
BX1023	Adapter assembly	
BX1024	Nozzle assembly A	
BX1025	Nozzle assembly B	
BX1026	Nozzle assembly	
CX1000	Slide unit	
CX1001	Slide unit for drag soldering	
CX1002	Temperature probe for automatic models	
CX1003	Tip cleaner	

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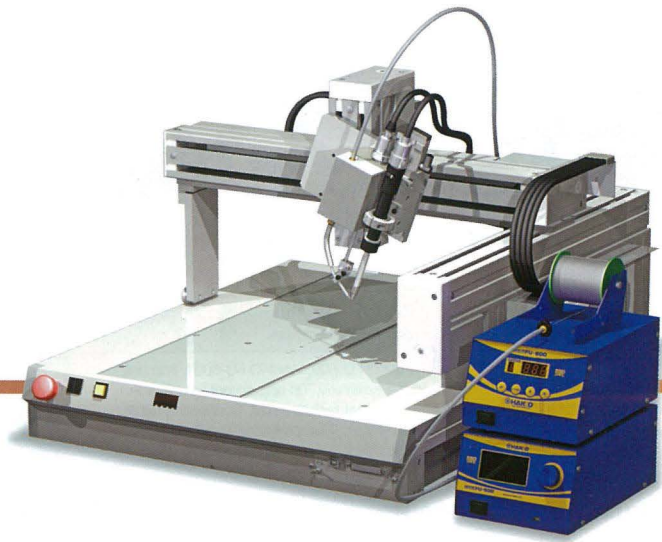
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**HAKKO** FU-500 **ESD SAFE**  
FEEDER CONTROLLER

**HAKKO** FU-600 **ESD SAFE**  
SOLDERING STATION

# System



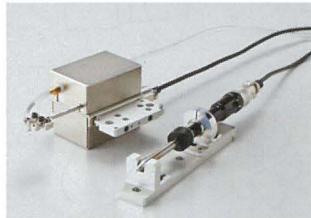
## Soldering iron unit

**HAKKO** FU-600 **ESD SAFE**  
SOLDERING STATION

### Easy tip replacement

The position of the tip end can be easily adjusted using the tip adjustment jig unit included with the FU-600. Work can be started just by removing the iron from the main unit by removing two screws, positioning the tip using the tip adjustment jig unit, and returning the iron to the main unit.

Using another iron (FU6001-01X) makes it possible to install a new tip in advance, minimizing equipment downtime.



### High performance composite tip

The FU-600 can provide excellent thermal recovery characteristic with a high performance composite tip, a tip integrated with a heating element and sensor.

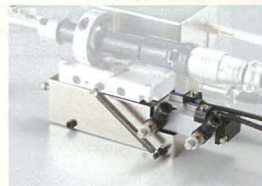
### Six presets tip-temperature function

Tip temperature can be preset in six settings. Preset temperatures can be called from soldering conditions in the solder feed unit.

### Optional parts & accessories

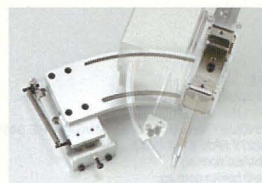
#### ● Slide unit

The slide unit allows the FU-600's iron vertical movement. As the solenoid valve comes pre-wired, the unit can be used by simply connecting to the FU-500 via special connector and supplying compressed air externally.



#### ● Slide unit (for drag soldering)

If height varies during drag soldering due to the angle or other conditions of the sample, height variations can be absorbed by attaching this slide unit to the FU-600's iron.



#### ● N2 adapter assembly

Simply attach the optional N2 adapter to the iron and install a nozzle assembly that matches the tip to perform N2 soldering.



#### ● Tip cleaner

The tip cleaner's rotating brush can remove not only excess solder but also flux carbides, which are difficult to remove from tips by compressed air. It is possible to turn the brush on and off via an external signal.



#### ● Temperature probe

The tip thermometer unit can be placed on the tip to measure the tip temperature of an automatic soldering unit.

(Supported thermometers: FG-100, FG-101 and FG-102)



# A Smart Way to Build an Automatic Soldering

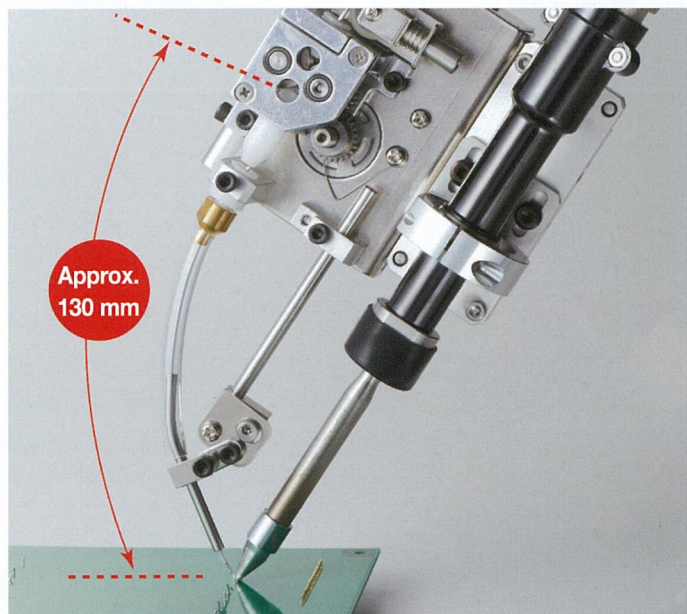
HAKKO FU-500 & FU-600 can be integrated with a variety of robots and actuators to build an automatic soldering system. The automatic soldering system can help to produce consistency of soldering process to enhance the reliability of solder joint by solving the problem of individual difference in manual soldering.

## Solder feed unit

**HAKKO FU-500** FEEDER CONTROLLER **ESD SAFE**

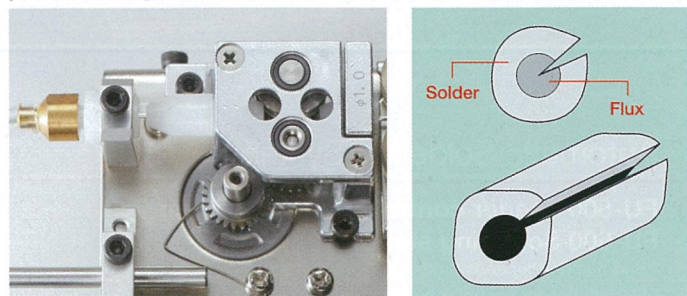
### Accurate solder feeding

The HAKKO FU-500 features a compact drive unit that allows the solder feed unit to be brought closer to the iron. This adaptation makes it possible to increase the accuracy of amount of solder feeding.



### Equipped with countermeasures against solder ball splash as standard

As countermeasure against flux and solder ball splash, the unit is equipped with a mechanism that cuts a V-shaped groove into the solder wire as standard. It is also possible to change solder wire diameter by simply replacing the pulley unit.



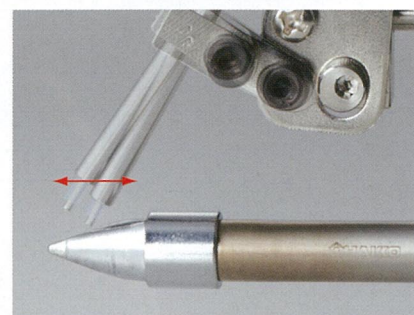
### Supports solder diameters of 0.3 mm and up

As the unit is capable of handling extremely small solder diameters of 0.3 mm, it can be used for delicate soldering jobs.

Supported solder diameter  $\varnothing 0.3\text{mm} - \varnothing 1.2\text{mm}$

### Easy adjustment of solder feeding position

Adjustment of the position of solder feeding to the tip is critical for automatic soldering systems. The HAKKO FU-500 lets you adjust the solder feeding position just by turning an adjustment screw with a wrench.



### Solder feed error detection

With an optional sensor for solder movement, the HAKKO FU-500 can detect solder clogging, slipping and the end of the roll.

