



American Hakko Products, Inc.

# PRODUCT BULLETIN

**Bulletin No:** PB413  
**Issue Date:** 1-23-2018  
**Effective Date:** 2-1-2018

**Description/Title:**  
 NEW HAKKO FU500 Solder feed unit

**Part No:**  
 FU500-21X, FU500-71X



**Specification:**

<b>Model</b>	FU-500
<b>Part No. (Feeder Type)</b>	FU500-21X (L Type) FU500-71X (Straight Type)
<b>Input Voltage</b>	127 VAC 50/60 Hz
<b>Power Consumption</b>	35W
<b>ESD Safe</b>	Yes

**Contents:**

FU500-21X		FU500-71X	
Part No.	Description	Part No.	Description
--	FU-500 Solder Feed Unit	--	FU-500 Solder Feed Unit
<b>CX1010</b>	Feeder Unit (L type)	<b>CX5006</b>	Feeder Unit (Straight Type)
<b>BX1041</b>	Tube Unit (0.3-1.0mm)	<b>BX1041</b>	Tube Unit (0.3-1.0mm)
<b>BX1042</b>	Tube Unit (1.2-1.6mm)	<b>BX1042</b>	Tube Unit (1.2-1.6mm)
<b>BX1036</b>	Feeder Cable	<b>BX1036</b>	Feeder Cable
<b>B3508</b>	Power Cord	<b>B3508</b>	Power Cord
<b>BX1057</b>	Solder Reel Stand	<b>BX1057</b>	Solder Reel Stand
--	Instruction Manual	--	Instruction Manual

\*Solder feed pulley unit, solder feed guide set and Teflon tube sold separately based on the required solder diameter (See parts list on page 2).

**Station**

<b>Outer Dimension (W x H x D)</b>	145 x 100 x 230 mm (5.7 x 3.9 x 9.1 in.)
<b>Weight (w/o Cord)</b>	2.3kg (5.1 lb.)

**Feeder unit**

For Part No.	CX1010 (L Type)	CX5006 (Straight Type)
<b>Compatible Solder Diameter</b>	Ø0.3 – 1.6mm	Ø0.3 – 1.6mm
<b>Weight</b>	800g (1.8 lb.)	800g (1.8 lb.)



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### **Additional Parts List**

<b>Part No.</b>	<b>Description</b>
BX1000	Solder feed pulley unit/0.3mm
BX1001	Solder feed pulley unit/0.5mm
BX1002	Solder feed pulley unit/0.6mm
BX1003	Solder feed pulley unit/0.8mm
BX1004	Solder feed pulley unit/1.0mm
BX1005	Solder feed pulley unit/1.2mm
BX1006	Solder feed pulley unit/1.6mm
BX1007	Solder feed guide set/0.3mm
BX1008	Solder feed guide set/0.5 - 1.0mm
BX1009	Solder feed guide set/1.2 - 1.6mm
BX1010	Teflon tube insert/0.3mm
BX1011	Teflon tube insert/0.5 - 0.6mm
BX1012	Teflon tube insert/0.8mm
BX1013	Teflon tube insert/1.0mm
BX1014	Teflon tube insert/1.2mm
BX1015	Teflon tube insert/1.6mm
BX1016	Tube Unit/0.3-1.0mm, 1000mm
BX1017	Tube Unit/1.2-1.6mm, 1000mm
BX1018	Guide tube
BX1019	Guide pipe/0.3mm
BX1020	Guide pipe/0.5 - 1.0mm
BX1021	Guide pipe/1.2 - 1.6mm
BX1022	Tube Unit Grommet
BX1035	Feeder Cable, 3m
BX1037	Feeder Cable, 8m
BX1038	Teflon tube insert for BX1016
BX1039	Teflon tube insert for BX1017

### **Comments:**

HAKKO FU-500 is an intelligent solder feeding unit that, together with the HAKKO FU-601 soldering station, can be integrated with various robotic system to achieve low cost intelligent soldering automation.

The FU-500 supports solder diameter 0.3mm to 1.2mm and it allows easy adjustment of solder feed position which is critical for automatic soldering systems. System also features a compact driver unit that allows the solder feed unit to be brought closer to the iron, increase the accuracy of amount of solder feeding. Two types of feeder orientations can be chosen to adapt to different robot style.

With an optical sensor for solder movement, FU-500 can detect solder clogging, slipping and the end of the roll. The unit is also equipped with mechanism that perforates into the solder wire as countermeasure against flux and solder ball splash, and the acceptable solder wire diameter can be changed by simply replacing the pulley unit.