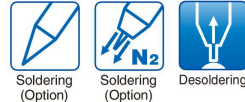


Desoldering Tool

HAKKO FM-204 ESD SAFE DESOLDERING TOOL

Composite-type Desoldering Tool Digital

Nozzle not included



- Vacuum pump built-in type desoldering tool
- Digital display ensures easy and reliable temperature control.
- Sleep function that works with iron holder prevents nozzle oxidation.

Packing List

FM-204	Station, Iron holder, Ceramic paper filter (10 pcs), Cleaning drill for heating element, Filter pipe assembly (1 pc), Control card, Power cord, Connecting cable, Nozzle remover, Desoldering tool (FM-2024), Handle for gun configuration, Instruction manual
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Option

Part No.	Name	Specifications
FM2027-04	HAKKO FM-2027 conversion kit	70 W (24 V)
FM2026-05	HAKKO FM-2026 conversion kit	70 W (24 V)

Specifications

Model No.	FM-204
Power consumption	120 W
Temperature range	FM-2024: 350 to 450°C FM-2026/2027: 200 to 450°C
Temperature stability	±5°C at idle temperature

• Station

Output voltage	AC 24 V
Vacuum generator	Vacuum pump, double cylinder type
Vacuum pressure	Max. 80 kPa (600 mmHg)
Suction flow*	15 L/min.
Dimensions	160 (W) × 120 (H) × 225 (D) mm
Weight	3.7 kg

• Desoldering Tool

Power consumption	70 W (24 V)
Nozzle to ground resistance	<2 Ω
Nozzle to ground potential	<2 mV
Heating element	Composite heater
Cord length	1.2 m
Total length**	180 mm (with ø1.0 mm nozzle)
Weight**	65 g (with ø1.0 mm nozzle)

* Measured at the filter case suction port of the station.

** Without cord and hose

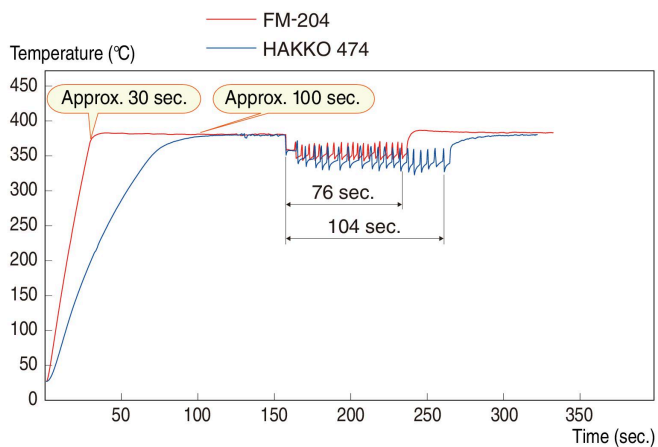
Optional Nozzles

Unit : mm

N1-06 Nozzle ø0.6 	N1-08 Nozzle ø0.8 	N1-10 Nozzle ø1.0 	N1-13 Nozzle ø1.3
N1-16 Nozzle ø1.6 	N1-20 Nozzle ø2.0 	N1-23 Nozzle ø2.3 	N1-L10 Nozzle ø1.0

Features

Excellent thermal recovery



Test criteria

Measurement method	The time until the soldered portion reaches 200°C is measured for 20 points.
Nozzle used	ø1.0 mm
Solder	Lead-free solder

Two way use of grip part

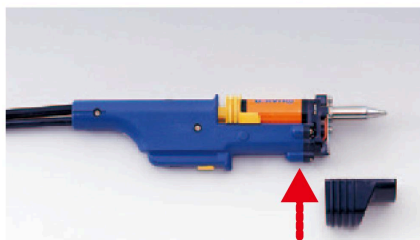


Gun configuration



Straight configuration

Simple and safe nozzle replacement by the nozzle remover



Sleep function and Auto Power Shut-off function



Connect the FM-204 station and FH-200 iron holder using a connecting cable.

Replacing the handpiece enables soldering.

■ Soldering



HAKKO FM-2027

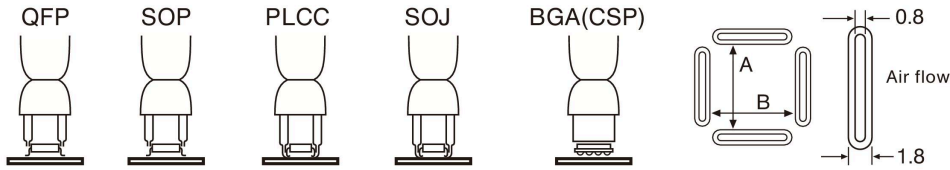
■ N₂ System



Set-up example
 HAKKO FM-204
 HAKKO FM-2026
 HAKKO FX-780
 HAKKO FX-791
















Optional Nozzles

Unit: mm














The size in each description indicates the size of the package.










QFP and BQFP

A1125B QFP 10 × 10  A: 10.2 B: 10.2	A1262B QFP 12 × 12  A: 12.2 B: 12.2	A1126B QFP 14 × 14  A: 15.2 B: 15.2	A1128B QFP 14 × 20  A: 15.2 B: 21.2	A1127B QFP 17.5 × 17.5  A: 19.2 B: 19.2
A1261B QFP 20 × 20  A: 20.2 B: 20.2	A1129B QFP 28 × 28  A: 29.7 B: 29.7	A1263B QFP 28 × 40  A: 27.7 B: 39.7	A1265B QFP 32 × 32  A: 32.2 B: 32.2	A1203B QFP 35 × 35  A: 35.2 B: 35.2
A1264B QFP 40 × 40  A: 40.2 B: 40.2	A1215B QFP 42.5 × 42.5  A: 42.5 B: 42.5	A1180B BQFP 17 × 17  A: 18.2 B: 18.2	A1181B BQFP 19 × 19  A: 19.2 B: 19.2	A1182B BQFP 24 × 24  A: 24.2 B: 24.2

SOP and TSOL

A1131* SOP 4.4 × 10  4.8	A1132* SOP 5.6 × 13  5.7	A1133* SOP 7.5 × 15  7.2	A1134* SOP 7.5 × 18  7.2	A1258B SOP 7.6 × 12.7  8.2
A1260B SOP 8.6 × 18  8.7	A1257B SOP 11 × 21  11.7	A1259B SOP 13 × 28  13.5	A1185B TSOL 13 × 10  11.9	A1186B TSOL 18 × 10  18.2
A1187B TSOL 18.5 × 8  18.5				

PLCC

A1188B PLCC 9 × 9 (20 pins)  A: 11 B: 11	A1140B PLCC 11.5 × 11.5 (28 pins)  A: 13 B: 13	A1141B PLCC 11.5 × 14 (32 pins)  A: 15 B: 13	A1139B PLCC 12.5 × 7.3 (18 pins)  A: 9 B: 14	A1135B PLCC 17.5 × 17.5 (44 pins)  A: 18.5 B: 18.5
A1136B PLCC 20 × 20 (52 pins)  A: 21 B: 21	A1137B PLCC 25 × 25 (68 pins)  A: 26 B: 26	A1138B PLCC 30 × 30 (84 pins)  A: 31 B: 31	A1189B PLCC 34 × 34 (100 pins)  A: 36.5 B: 36.5	

SOJ

A1214B SOJ 10 × 26 	A1183* SOJ 15 × 8 	A1184B SOJ 18 × 8
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BGA

A1470 BGA 8 × 8 	A1471 BGA 12 × 12 	A1472 BGA 13 × 13 	A1473 BGA 15 × 15 	A1474 BGA 18 × 18
A1475 BGA 27 × 27 	A1476 BGA 35 × 35 	A1477 BGA 38 × 38 	A1478 BGA 40 × 40 	

Single

A1124B* Single 2.5 	A1130* Single 4.4 	A1142B* Bent single 1.5 × 3 	A1190* Dual single 2.5 × 9.5 	A1325* Dual single ø1.5 × 5 to 10 Adjustable pitch
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SIP

A1191* SIP 25L 	A1192* SIP 50L
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* The vacuum function does not operate with these nozzles.
The vacuum function is not available on the FR-810.

Optional Nozzles for the FR-810

Unit: mm

N51-01 Single 2.5 	N51-02 Single 4 	N51-03 Single 5.5 	N51-04 Single 7 	N51-05 Bent single
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Single nozzle set (N51-01, N51-03, N51-04, and N51-05) is also available.

*N51-02 included with station



When using the FR-810 with a nozzle for the FR-803B, attach a conversion adapter No.B5058 (option).



配線補助器具

RoHS



ココが
特長

倍率約3倍の直径90mm2重焦点式レンズ採用

- 360度回転可能なフレキシブルアーム。安定性のよいベースで安全作業ができます。
- 寸法(mm)：横幅150×奥行245×高さ280
- 重量：1kg

EX

Example
使用方法



Delivery
納期

1個から注文OK!

出荷日

1~5個 3日目
6個~ 都度見積

非在庫品



Order
注文例

型式

ST-93

¥

型式	基準単価
ST-93	¥5,350

ワンタッチクランプ

RoHS



ココが
特長

ワークの着脱が瞬時に行けるワンタッチクランプです

- 丸、四角、多角形などワンタッチでクランプできます。
- バネ圧力：クランパーAとクランパーBに100mm角の物を挟んだときに2kg/mm²の力が加わります。
- 最大開口寸法：77(W)×25(H)mm
- 外形寸法：110(W)×131(H)×130(D)mm
- 重量：410g

EX

Example
使用方法



※写真はTEDASUKE-R
のものです。



Delivery
納期

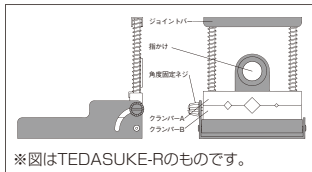
1個から注文OK!

出荷日

1~5個 翌日(当日)
6個~ 都度見積

当日出荷は、17時までに都度お申し付けください。

在庫品



※図はTEDASUKE-Rのものです。



Order
注文例

型式

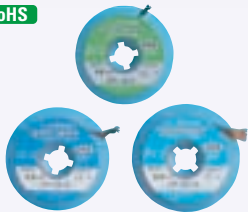
TEDASUKE-R2

¥

型式	基準単価
TEDASUKE-R2	¥5,200

ハンダ吸収線

RoHS



ココが
特長

非塩素系の特殊フラックスをしみこませました

- 無洗浄RMAフラックス(MIL-F-14256F)を使用していますので精密機器等にも安心してご使用いただけます。



Delivery
納期

1個から注文OK!

出荷日

1~5個 3日目
6個~ 都度見積

非在庫品



Order
注文例

型式

CP-1515

¥

型式	基準単価	線幅	長さ	重さ(g)	編組
CP-1515	¥300	約1.5mm	約1.5mm	11	袋編
CP-2515	¥300	約2.5mm	約1.5mm	16	袋編
CP-3515	¥300	約3.5mm	約1.5mm	22	袋編

ハンダ吸収器

RoHS



ココが
特長

スルーホール基板のハンダも一気に吸取れます

- 大容量シリンダー・強力スプリングにより、スルーホール基板のハンダも一気に吸取る強力設計です。
- セルフクリーニングシャフトにより、ノズルに残ったハンダガスをきれいに除去します。
- 静電気対策品(導電性プラスチック採用)
- 静電気防止ノズル採用



Delivery
納期

1個から注文OK!

出荷日

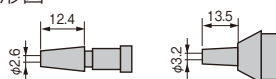
1~5個 3日目
6個~ 都度見積

非在庫品

¥

型式	基準単価	長さ(mm)	重さ(g)	径(mmφ)
GS-150	¥2,350	330	89	23
GS-154	¥1,810	275	65	18.9
GS-158	¥1,730	190	25	14

外形図



GS-158N
静電対策型

GS-150N
静電対策型

交換ノズル(静電気防止ノズル)

型式	対応商品	単価
GS-150N	GS-150、GS-154用	¥610
GS-158N	GS-158用	¥610



Order
注文例

型式

GS-150