



勝特力材料 886-3-5753170  
勝特力电子(上海) 86-21-54151736  
勝特力电子(深圳) 86-755-83298787  
[Http://www.100y.com.tw](http://www.100y.com.tw)

# CATALOG

Quality Tools for the electronics Industry

HAKKO FX-951 ESD SAFE  
SOLDERING STATION



- Soldering
- Rework
- Desoldering
- Smoke Absorber
- Static Control
- Heating Gun
- Glue Gun
- Other Tools

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**“To deliver excitement to our customers”  
This statement reflects Hakko’s ideal.**

In creating products, we not only make products as a manufacturer, but also add hospitality, in order to express our ideal of delivering excitement to our customers. The ideal is also our basis for continuing to meet the challenges of creating new possibilities.

Hakko’s products offer the best soldering for any component, in any environment, from the latest electronics to hobbies and crafts. Each genre is expanding without limits as the 21st century technology continues to advance and the world becomes increasingly borderless.

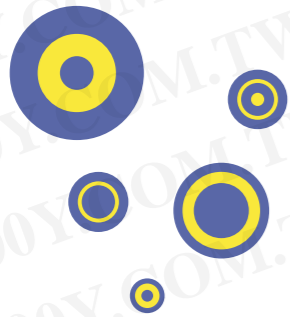
We give form to ideas beyond the norm by facing the user’s true needs with a welcoming feeling. Hakko confidently introduces soldering irons and related equipment with world class quality, starting with the new products designed in Blue & Yellow.



The Blue which inherited from the HAKKO corporate blue, this expresses both the tradition that we continue and the beauty of the global environment.

The Yellow which is resonating with HAKKO corporate blue, this yellow express the imagination of every single employee and our team spirit.

# HAKKO BLUE & YELLOW



## FRIENDLY innovation

Not only has Hakko been approved by ISO 9001 & 14000, but we are also conducting our own campaigns. We are involved in improving quality through 3 “friendlies.”

### “Hakko is friendly to customers”

We always strive to take on the perspective of our customers and think outside the normal frameworks to deliver products that amaze and excite customers.

### “Hakko is friendly to society”

We take the environment into careful consideration when creating the products so that people and nature co-exist. In addition, each individual carries out activities that are valuable to the society.

### “Hakko employees are friendly to each other”

Teamwork is very important in order to deliver the products that excite the customers. Creative power stems from the relations among the employees as well as between the Hakko international groups.



## Blue meets yellow GREEN PROJECT

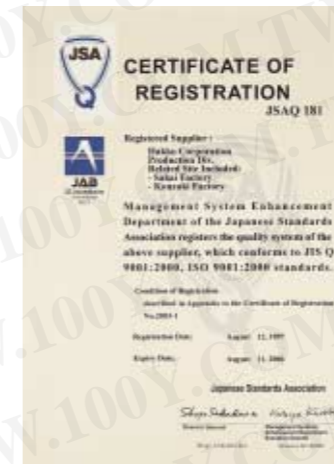
Hakko, as a specialized manufacturer of soldering irons, has established the Green Project.

We promote the development of products that are friendly to the environment (e.g., conforming to the EU RoHS directives, etc.), starting with products compatible with lead-free soldering.

We rapidly respond to the latest needs of our customers. Our lineup of products, including new products designed in Blue & Yellow and products compatible with lead-free soldering (e.g., soldering irons for various purposes, desoldering stations, etc.), could only be offered by a specialized manufacturer like Hakko.

Furthermore, our Green Project not only eliminates the hazardous materials from the products, but also aims to expand our activities so that our business is friendly to the people and the society. Hakko is always moving forward with our eyes on the future to deliver products that excite customers throughout the world.

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Our company has been certified under ISO 9001 (JIS Z 9901), the international quality system standards. We are also certified under ISO 14001 (JIS Q 14001) and are actively involved in preserving the global environment.

# Quality Tools for the electronics Industry

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**FM series**  
**HAKKO** MODEL **FM-202** **ESD SAFE**  
 SOLDERING STATION



**A single station plays all roles of soldering, desoldering and SMD rework.**

- Powerful thermal recovery.
- Easy thermal adjustment; Just inserting the tip into the process gate located on the left side of the front panel, automatically adjusts the accurate temperature setting.
- Auto power shut-off.
- Indicates by buzzer and/or display when various errors occur.
- ESD safe by design.

**Soldering**



**HAKKO** MODEL **FM-2021** **ESD SAFE**  
 SOLDERING STATION

- Light weight grip provides fatigueless work even for extended jobs.
- New colored antibacterial sleeves can be replaced more easily than conventional ones.
- Three colored sleeves are provided. Using color classification for tip shape enables convenient work.

**SMD Rework**

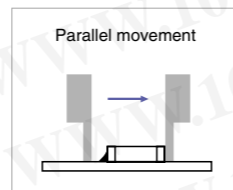


**HAKKO** MODEL **FM-2022** **ESD SAFE** • **HAKKO** MODEL **FM-2023** **ESD SAFE**  
 PARALLEL REMOVER

- Unique parallel movement of tips allows easy removal.
- Direct heating prevents damage to neighboring sensitive components comparing with hot air.



- FM-2022:-**
- Can be used for chips and flat packages up to 25mm in size.
- FM-2023:-**
- Standard or reverse tweezers action can be selected with a switch lever.
  - Equipped with a small ergonomic grip.



**Desoldering**



**HAKKO** MODEL **FM-2024** **ESD SAFE**  
 DESOLDERING TOOL

- Small ergonomic style grip with light weight provides fatigueless work.
- New design with reduced distance between the nozzle end and filter pipe prevents clogging by sucked solder.
- Easy maintenance:-  
 Uses disposable paper filter pipes.  
 One-touch nozzle replacement.
- Detachable handle allows two-way use:-  
 gun type or straight type.
- Safe design:-  
 Equipped with a nozzle lock function.  
 Nozzles can be safely replaced with the nozzle remover.



\*Desoldering Control Box (DCB) for MODEL FM-2024

\*Before using the FM-2024 unit, connect to a compressor.

**N<sub>2</sub> System**



- Combination sample with the N<sub>2</sub> system  
 HAKKO MODEL FM-202, HAKKO FM-2026, HAKKO FX-780, HAKKO FX-791
- \*For further details, refer to page 14-15.

**Specifications**

| MODEL FM-202          |                           |
|-----------------------|---------------------------|
| Model No.             | FM-202                    |
| Power Consumption     | 140W                      |
| Temperature Range     | 200-450°C                 |
| Temperature Accuracy  | ± 10°C of set temperature |
| Temperature Stability | ± 5°C at idle temperature |

| Station           |                                |
|-------------------|--------------------------------|
| Output Voltage    | 24V                            |
| Dimensions        | 119 (W) x 117 (H) x 178 (D) mm |
| Weight (w/o cord) | 2.7kg                          |

| MODEL FM-2021            |                     |
|--------------------------|---------------------|
| Model No.                | FM-2021             |
| Power Consumption        | AC 24V/70W          |
| Tip to Ground Resistance | < 2                 |
| Tip to Ground Potential  | < 2mV               |
| Total Length (w/o cord)  | 188mm with 2.4D tip |
| Weight (w/o cord)        | 30g with 2.4D tip   |
| Cord                     | 1.2m                |

| MODEL FM-2022 / MODEL FM-2023 |                      |                |
|-------------------------------|----------------------|----------------|
| Model No.                     | FM-2022              | FM-2023        |
| Power Consumption             | AC 24V/140W          |                |
| Temperature Range             | 200-400°C            |                |
| Tip to Ground Resistance      | < 2                  |                |
| Tip to Ground Potential       | < 2mV                |                |
| Cord                          | 1.2m                 |                |
| Total Length (w/o cord & tip) | 110mm                | 75mm           |
| Weight (w/o cord)             | 64g with SOP 25L tip | 37g with I tip |

| MODEL FM-2024               |            |
|-----------------------------|------------|
| Model No.                   | FM-2024    |
| Power Consumption           | AC 24V/70W |
| Temperature Range           | 350-450°C  |
| Nozzle to Ground Potential  | < 2mV      |
| Nozzle to Ground Resistance | < 2        |
| Total Length (w/o cord)     | 180mm      |
| Weight (w/o cord & hose)    | 65g        |
| Cord                        | 1.2m       |

| Desoldering Control Box    |  |
|----------------------------|--|
| Power Consumption          | 12W  |
| Output Voltage             | 24V  |
| Vacuum Generator           | Ejector type   |
| Vacuum Pressure (Max.)     | 93KPa (70mmHg)   |
| Suction Flow               | 2.8ℓ/min.  |
| Nozzle to Ground Potential | < 2mV  |
| Applied Air Pressure       | 490KPa (5.0kgf/cm <sup>2</sup> ) when in use (Trigger or button is pressed.) |
| Compressed Air Consumption | 1.62 c.f.m (46ℓ/min.)  |
| Dimensions                 | 119(W) x 45(H) x 172(D)mm  |

**Packing List**

| Model Name                   | Contents  |
|------------------------------|---|
| HAKKO MODEL FM-202           | Station ..... 1   |
|                              | Soldering iron (MODEL FM-2021) ..... 1                        |
|                              | Power cord ..... 1  |
|                              | Iron holder with HAKKO 599B tip cleaner (No.FH100-01) ..... 1 |
|                              | Control card ..... 1  |
|                              | Tip tray ..... 1  |
| HAKKO MODEL FM-2022          | Heat resistant pad ..... 1                                    |
|                              | *Tip is an optional part.                                     |
|                              | Parallel remover (MODEL FM-2022) ..... 1                      |
|                              | Holder clip ..... 1   |
|                              | Heat resistant pad ..... 1                                    |
|                              | Cleaning sponge ..... 1                                       |
| HAKKO MODEL FM-2023          | *Tips are optional parts.                                     |
|                              | Mini parallel remover (MODEL FM-2023) ..... 1                 |
|                              | Tips (T9-I/2pcs of set) ..... 1                               |
|                              | Holder clip ..... 1   |
|                              | Component bed ..... 1   |
|                              | Tip ID number key ..... 1                                     |
| HAKKO MODEL FM-2024          | Heat resistant pad ..... 1                                    |
|                              | Cleaning sponge ..... 1                                       |
|                              | Desoldering tool (MODEL FM-2024) ..... 1                      |
|                              | Desoldering control box (DCB) ..... 1                         |
|                              | Iron holder assembly ..... 1                                  |
|                              | Handle for gun configuration ..... 1                          |
| HAKKO MODEL FM-2024          | Cleaning sponge ..... 1                                       |
|                              | Nozzle remover ..... 1  |
|                              | Filter pipe assembly ..... 1                                  |
|                              | Cleaning drill for heating element ..... 1                    |
| *Nozzle is an optional part. |   |

**Replacement Tips and Nozzles**

Please refer to page 8-9.

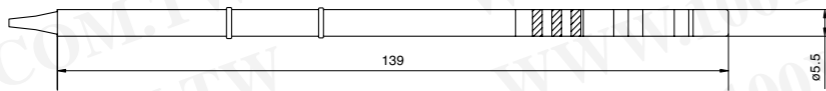
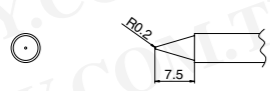
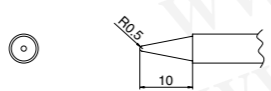

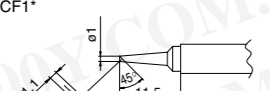
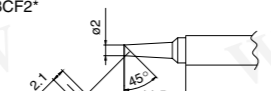
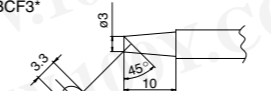
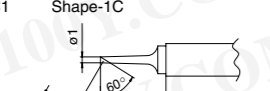
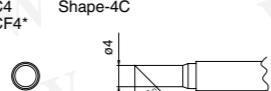
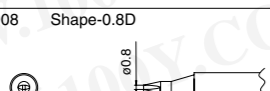
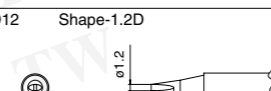
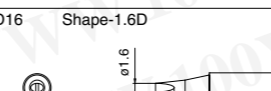
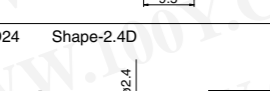
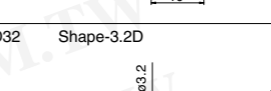
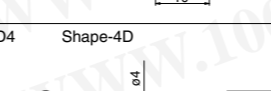
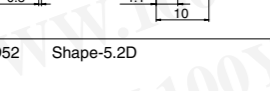
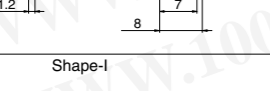
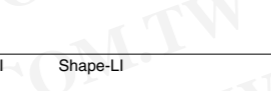

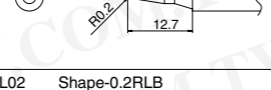
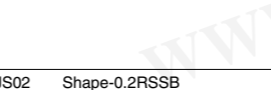
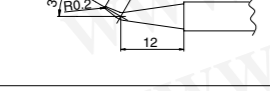
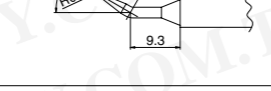
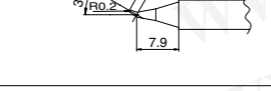
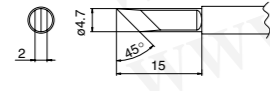
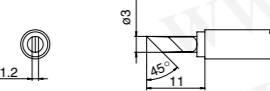

**Replacement Parts**

| Part No. | Name/Description        |
|----------|-------------------------|
| B2765C   | Sleeve assembly, yellow |
| B2768C   | Sleeve assembly, orange |
| B2769C   | Sleeve assembly, blue   |

Replacement Tips and Nozzles

Unit : mm



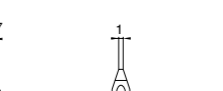
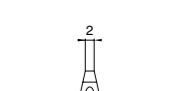


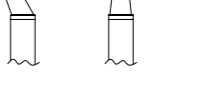
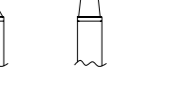

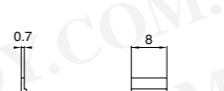
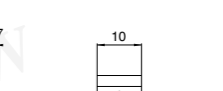
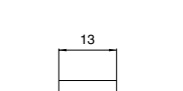
T7 Series For MODEL FM-2021

|  |   |   |   |          |   |
|--|---|---|---|----------|---|
|  <p>139<br/>ø3.5</p> |   |   |   |          |   |
| T7-B   | Shape-B   | T7-B2   | Shape-0.5B  | T7-LB    | Shape-LB  |
| SHAPE B  |    |      |  |          |   |
| T7-BC1   | Shape-1BC   | T7-BC2  | Shape-2BC   | T7-BC3   | Shape-3BC   |
| T7-BCF1*   |    | T7-BCF2*  |    | T7-BCF3* |  |
| SHAPE BC   |   |   |   |          |   |
| T7-C1  | Shape-1C  | T7-C4   | Shape-4C  |          |   |
| T7-CF4*  |    | T7-CF4*   |    |          |   |
| SHAPE C  |   |   |   |          |   |
| T7-D08   | Shape-0.8D  | T7-D12  | Shape-1.2D  | T7-D16   | Shape-1.6D  |
|                       |    |    |   |          |   |
| T7-D24   | Shape-2.4D  | T7-D32  | Shape-3.2D  | T7-D4    | Shape-4D  |
|                      |   |   |   |          |   |
| SHAPE D  |   |   |   |          |   |
| T7-D52   | Shape-5.2D  |   |   |          |   |
|                     |   |   |   |          |   |
| T7-I   | Shape-I   | T7-LI   | Shape-LI  |          |   |
|                     |  |   |   |          |   |
| SHAPE I  |   |   |   |          |   |
| T7-J2  | Shape-0.2RSB  | T7-JL02   | Shape-0.2RLB  | T7-JS02  | Shape-0.2RSSB   |
|                     |  |  |   |          |   |
| SHAPE J  |   |   |   |          |   |
| T7-K   | Shape-K   | T7-KF   | Shape-KF  | T7-KL    | Shape-KL  |
|                     |  |  |   |          |   |
| SHAPE K  |   |   |   |          |   |
| T7-KU  | Shape-KU  |   |   |          |   |
|                     |   |   |   |          |   |
| T7-1401  | Spatula 15.7  | T7-1404   | Spatula 40  |          |   |
|                     |  |   |   |          |   |
| SMD TYPE SPATULA   |   |   |   |          |   |

\* These tips are tinned on the soldering surface only.

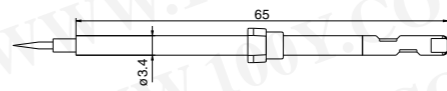
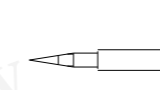
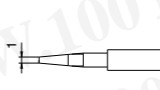
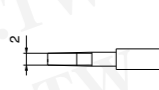
T8 Series For MODEL FM-2022

\* 1set: 2pcs.

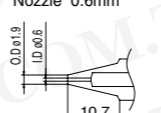
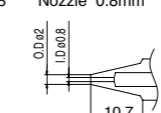
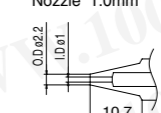
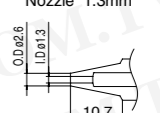
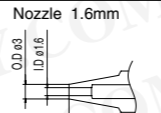
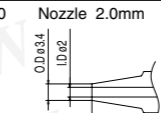
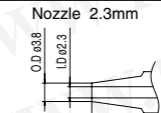
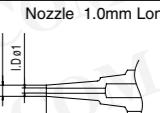
|   |   |   |   |         |         |         |         |
|---|---|---|---|---------|---------|---------|---------|
| T8-1001   | Chip 0.5I   | T8-1002   | Chip 0.5C   | T8-1003 | Chip 1L | T8-1004 | Chip 2L |
|  |  |  |  |         |         |         |         |
| CHIP  |   |   |   |         |         |         |         |
| T8-1005   | SOP 6L  | T8-1006   | SOP 8L  | T8-1007 | SOP 10L | T8-1008 | SOP 13L |
|  |  |  |  |         |         |         |         |
| SOP   |   |   |   |         |         |         |         |
| T8-1009   | SOP 16L   | T8-1010   | SOP 20L   | T8-1011 | SOP 25L | T8-1012 | SOP 18L |
|  |  |  |  |         |         |         |         |

T9 Series For MODEL FM-2023

\* 1set: 2pcs.

|  |   |   |         |       |         |
|--|---|---|---------|-------|---------|
|  <p>65<br/>ø3.4</p> |   |   |         |       |         |
| T9-I   | Chip I  | T9-L1   | Chip 1L | T9-L2 | Chip 2L |
|                     |  |  |         |       |         |
| CHIP   |   |   |         |       |         |

N1 Series For MODEL FM-2024

|   |   |   |   |       |              |       |                   |
|---|---|---|---|-------|--------------|-------|-------------------|
| N1-06   | Nozzle 0.6mm  | N1-08   | Nozzle 0.8mm  | N1-10 | Nozzle 1.0mm | N1-13 | Nozzle 1.3mm      |
|  |  |  |  |       |              |       |                   |
| N1-16   | Nozzle 1.6mm  | N1-20   | Nozzle 2.0mm  | N1-23 | Nozzle 2.3mm | N1-10 | Nozzle 1.0mm Long |
|  |  |  |  |       |              |       |                   |

# HAKKO FX-951 · 952

SOLDERING STATION ESD SAFE



No. FX-951

- Excellent thermal recovery.
- Suitable for various kinds of applications from touch up to heavy duty application.
- Informs you of errors via a warning buzzer or display.
- "Control Card" can lock the temperature settings.
- Quick and easy offsetting of tip temperature by the digital offset function.
- Low temperature alarm function is provided.
- Sleep function prevents the tip from being oxidized and extends the tip life.
- Energy-saving automatic power shut-off function.
- Space-saving compact design.
- Antibacterial color sleeve enables the tip replacement to be easier and more comfortable.
- ESD safe by design.



No. FX-952

- FX-952:-
- Two soldering irons can be controlled by one station.
  - Allows use of different tips and temperature settings for different application.

## Specifications

|                       |           |        |
|-----------------------|-----------|--------|
| Model No.             | FX-951    | FX-952 |
| Power Consumption     | 75W       | *140W  |
| Temperature Range     | 200-450°C |        |
| Temperature Stability | ± 5°C     |        |

\*Wattage would be different value according to the standard.

## Station

|                   |                               |                                |
|-------------------|-------------------------------|--------------------------------|
| Model No.         | FX-951                        | FX-952                         |
| Output Voltage    | 24V                           |                                |
| Dimensions        | 80 (W) x 130 (H) x 131 (D) mm | 113 (W) x 106 (H) x 206 (D) mm |
| Weight (w/o cord) | 1.2kg                         | 2.6kg                          |

## Iron

|                          |                     |
|--------------------------|---------------------|
| Model No.                | FM-2026             |
| Power Consumption        | AC 24V/70W          |
| Tip to Ground Resistance | < 2                 |
| Tip to Ground Potential  | < 2mV               |
| Cord                     | 1.2m                |
| Total Length (w/o cord)  | 188mm with 2.4D tip |
| Weight (w/o cord)        | 30g with 2.4D tip   |

## Packing List

| Model Name                | Contents  |
|---------------------------|---|
| HAKKO FX-951              | Station .....1  |
|                           | Iron (FM-2025) .....1                                 |
|                           | Power cord .....1                                     |
|                           | Iron holder with cleaning sponge (No.FH100-02) .....1 |
|                           | Control card .....1                                   |
| HAKKO FX-952              | Station .....1  |
|                           | Iron (FM-2025) .....2                                 |
|                           | Power cord .....1                                     |
|                           | Iron holder with cleaning sponge (No.FH100-04) .....1 |
|                           | Control card .....1                                   |
| Heat resistant pad .....1 |   |

\*Tips are optional parts.

## Replacement Tips

Please refer to page 12-13.

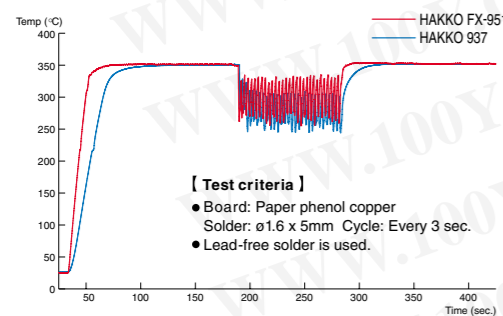
## Optional Parts

| Part No. | Name/Description        |
|----------|-------------------------|
| B2756    | Tip tray                |
| B2765C   | Sleeve assembly, yellow |
| B2768C   | Sleeve assembly, orange |
| B2769C   | Sleeve assembly, blue   |

## Sleeve Assemblies



## Thermal Recovery Graph



## Tip Tray



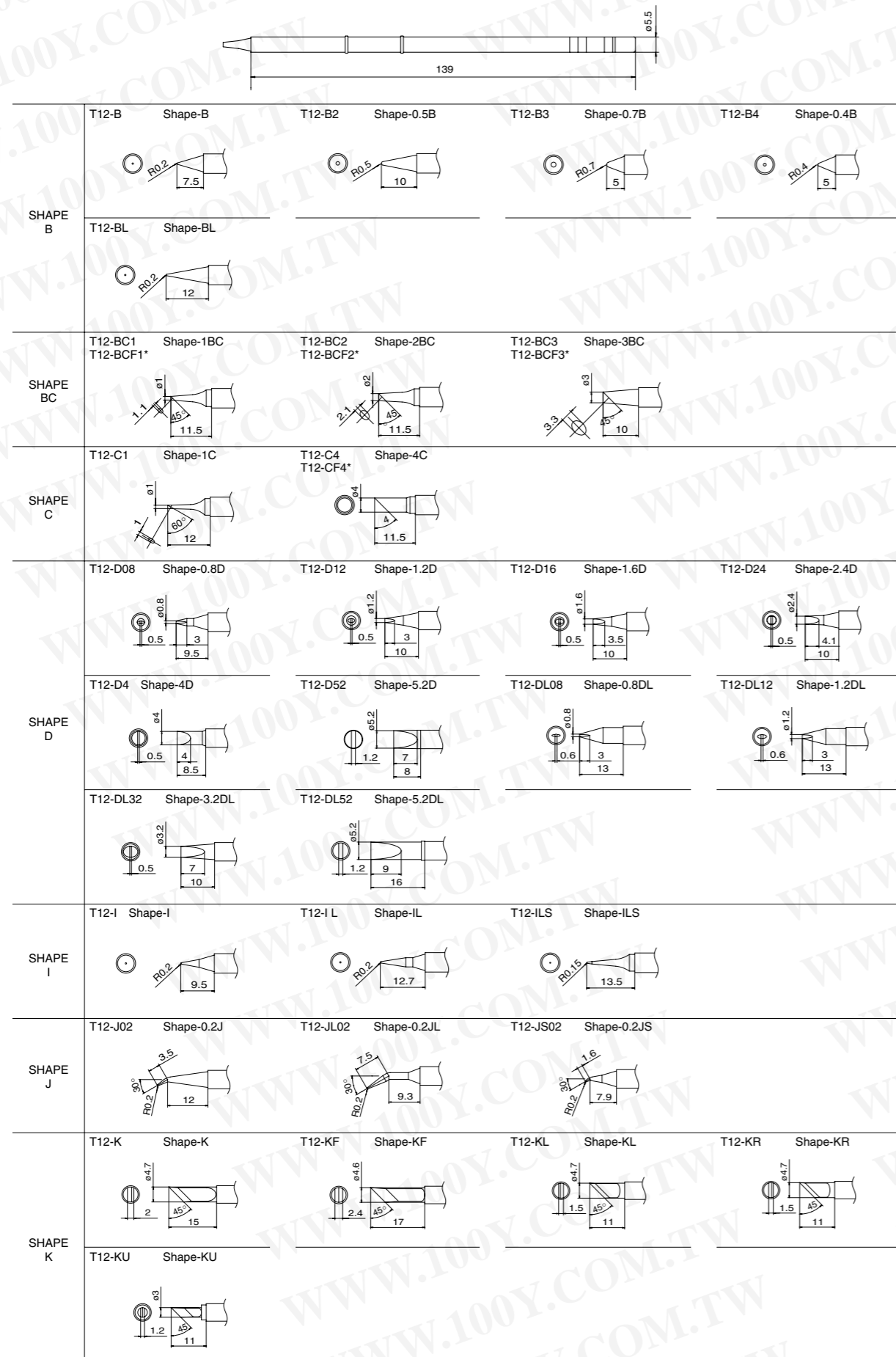
## Additional System to Expand the FX-951 and FX-952 Functions



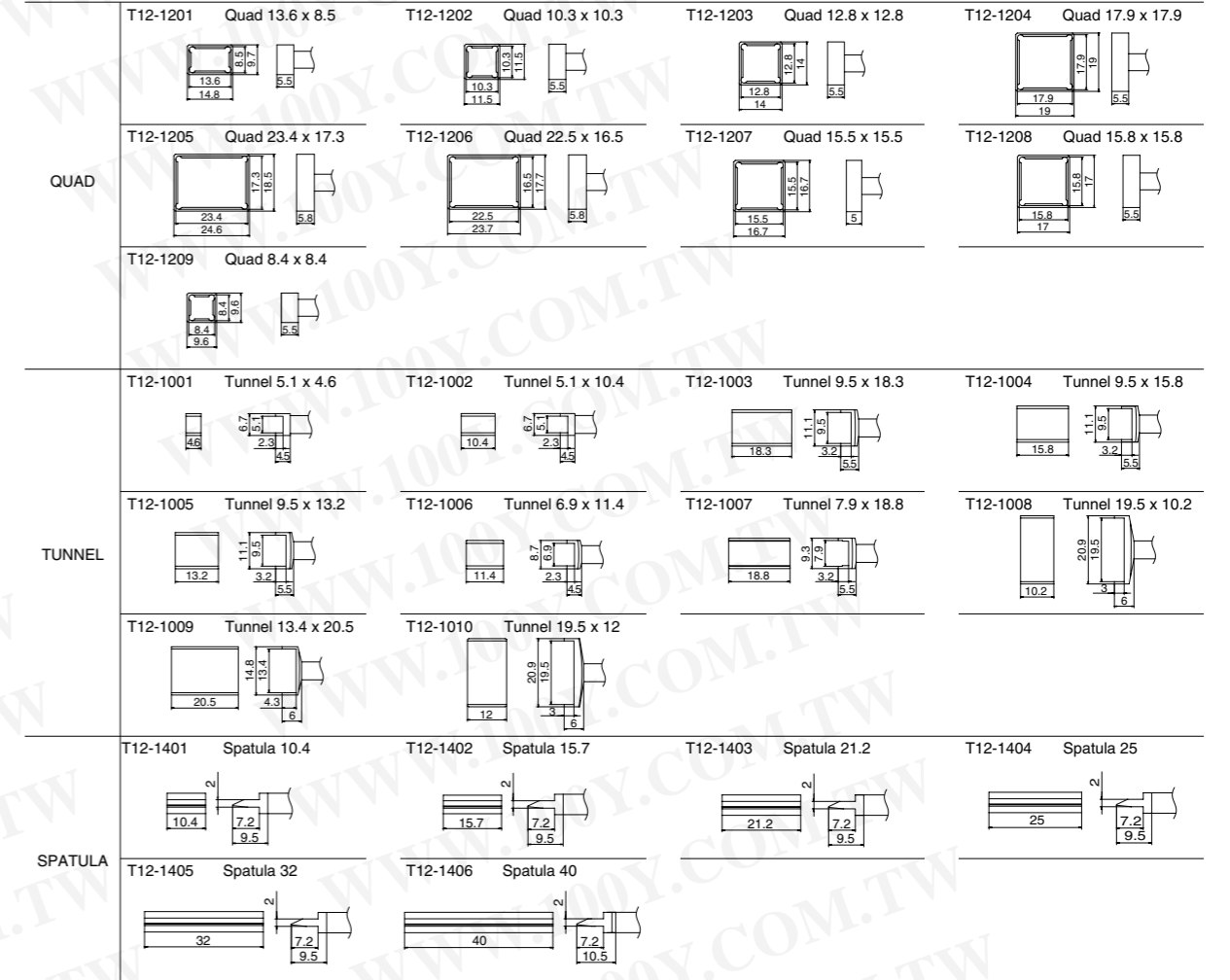
Combination sample with the N<sub>2</sub> system  
 HAKKO FX-951, HAKKO FM-2026, HAKKO FX-780, HAKKO FX-791  
 \*For further details, refer to page 14-15.

Optional Tips

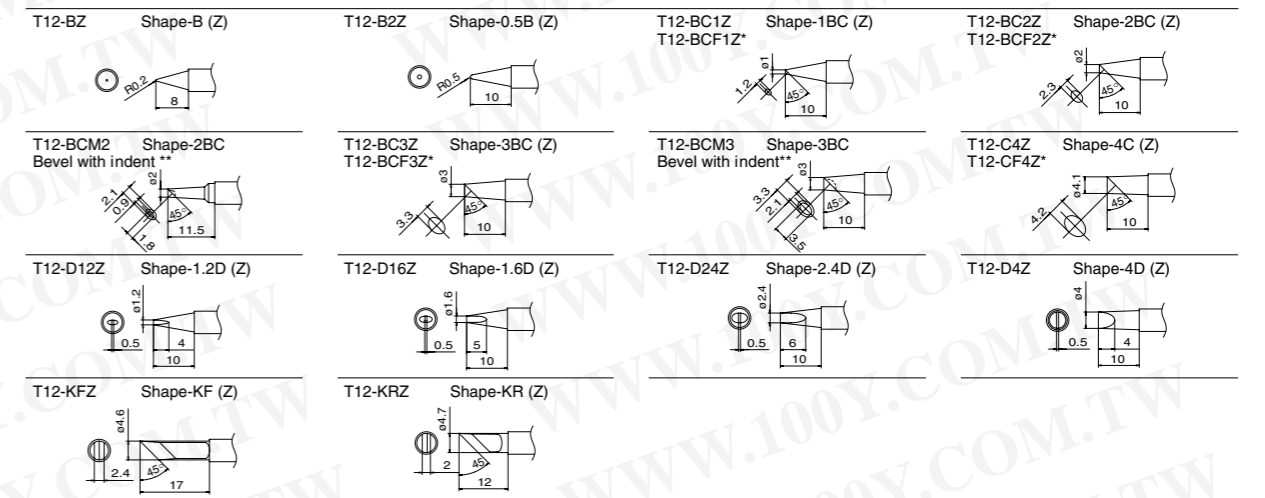
Unit : mm



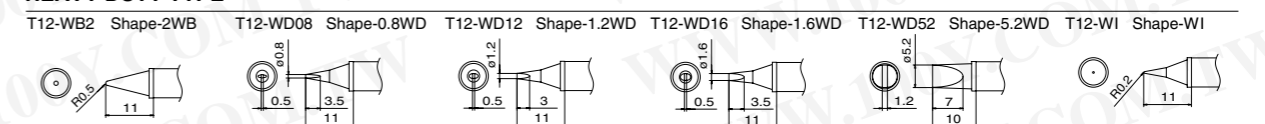
SMD TYPE



SPECIAL APPLICATIONS TYPE

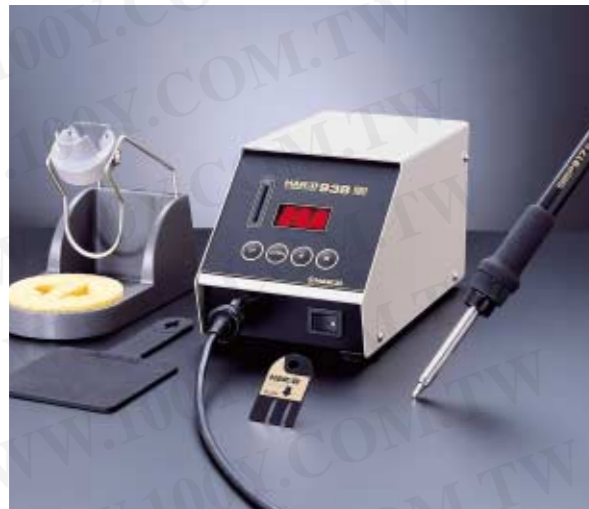


HEAVY DUTY TYPE



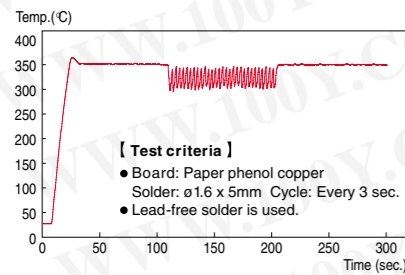
\* These tips are tinned on the soldering surface only.  
 \*\*The part numbers T12-BCM2 and T12-BCM3 are not available for sale or use in the U.S.A.

**HAKKO 938** ESD SAFE  
 SOLDERING STATION



- Great thermal recovery.
- Wide application from micro soldering to heavy duty application.
- Easy and speedy tip replacement is possible.
- Sleep function prevents the tip from being oxidized and extends the tip life.
- Energy-saving automatic power shut-off function.
- The low temperature alarm function is provided.
- Using "Control Card" can lock the temperature settings.
- Quick and easy offsetting of tip temperature by the digital offset function.
- ESD safe by design.

**Thermal Recovery Graph**



**Easy Tip Replacement**

A cartridge type soldering tip can be replaced easily and quickly.



**Specifications**

|                       |                          |
|-----------------------|--------------------------|
| Model No.             | 938                      |
| Power Consumption     | 100W                     |
| Temperature Range     | 200-450°C                |
| Temperature Stability | ±2°C at idle temperature |

**Station**

|                   |                                |
|-------------------|--------------------------------|
| Output Voltage    | 27V 3.4A                       |
| Dimensions        | 100 (W) x 106 (H) x 188 (D) mm |
| Weight (w/o cord) | 2.5kg                          |

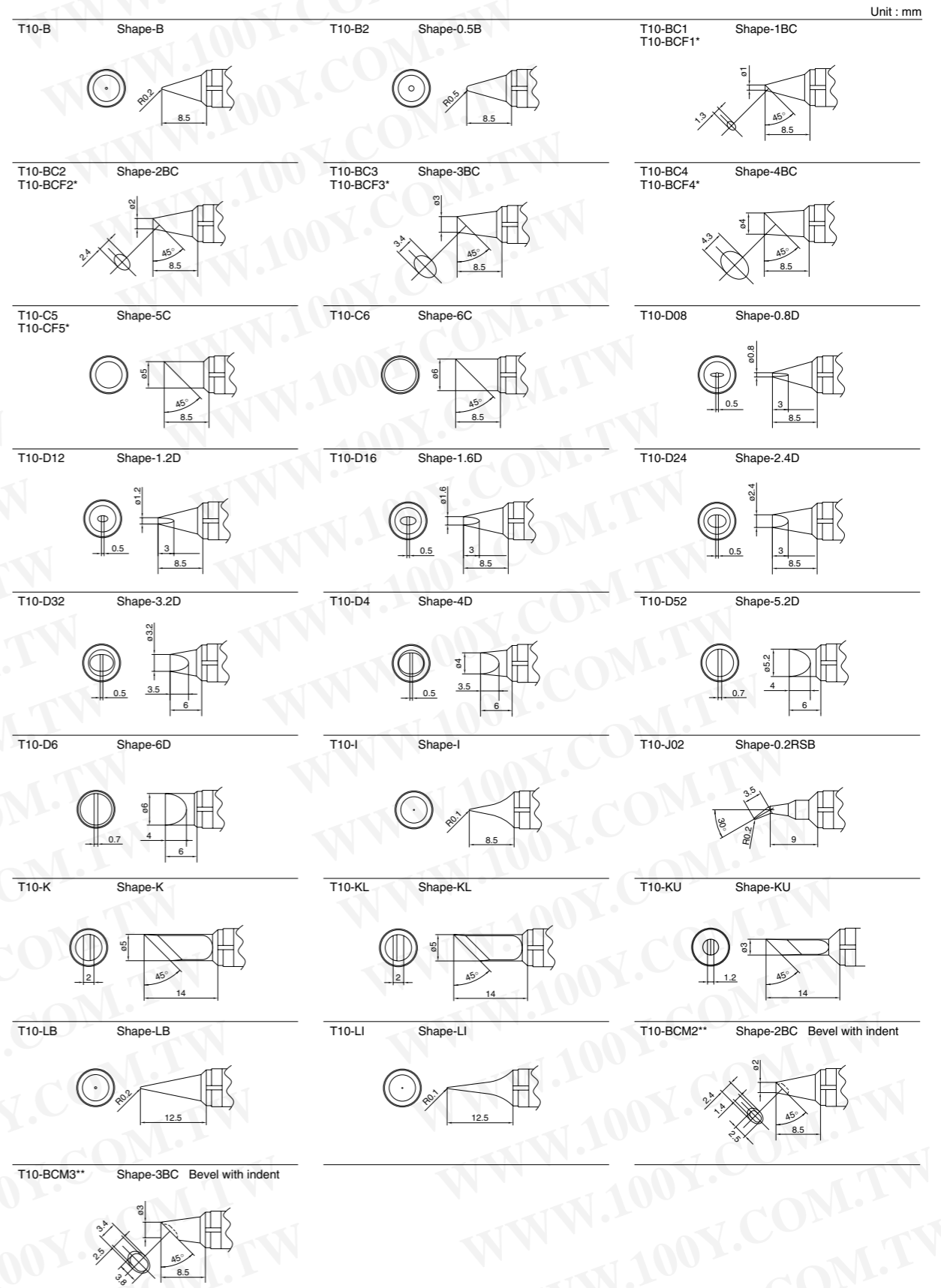
**Iron**

|                          |                      |
|--------------------------|----------------------|
| Model No.                | 917                  |
| Power Consumption        | 90W (27V)            |
| Standard Tip             | T10-D24 (Shape-2.4D) |
| Tip to Ground Resistance | < 2                  |
| Tip to Ground Potential  | < 2mV                |
| Total Length (w/o cord)  | 175mm with 2.4D tip  |
| Weight (w/o cord)        | 45g with 2.4D tip    |
| Cord                     | 1.2m                 |

**Packing List**

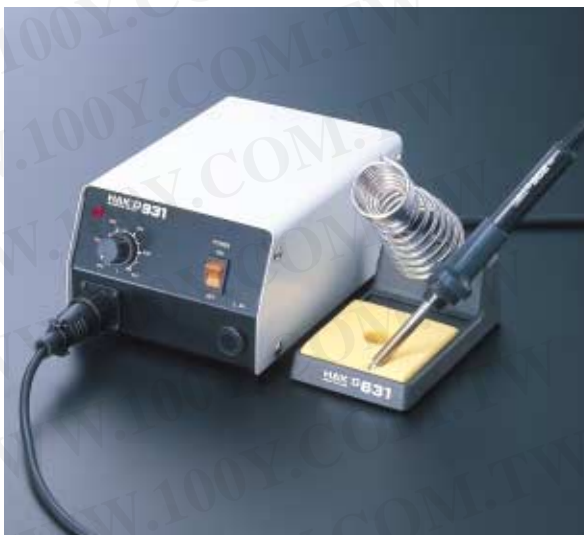
| Model Name | Contents  |
|------------|---|
| Hakko 938  | Station .....1                                      |
|            | Iron (917) .....1                                   |
|            | Power cord .....1                                   |
|            | Iron holder with cleaning sponge (No.635-02) .....1 |
|            | Control card .....1                                 |
|            | Heat resistant pad .....1                           |

**Replacement Tips**



\* These tips are tinned on the soldering surface only.  
 \*\* The part numbers T10-BCM2 and T10-BCM3 are not available for sale or use in the U.S.A.

**HAKKO 931** ESD SAFE  
 SOLDERING STATION



- Only one-third start-up time of conventional soldering irons with ceramic heaters (based on Hakko tests).
- Can be used to solder places on multi-layer boards where heat loss is great.
- Excellent conduction of heat from the heater increases heating efficiency, shortens start-up time, and minimizes temperature fluctuations during soldering.
- Faster sensor response makes the supply of heat uniform and enables more accurate control over tip temperature.
- High quality, uniform soldering is possible even with fine soldering iron tips.

**Specifications**

|                   |      |
|-------------------|------|
| Model No.         | 931  |
| Power Consumption | 100W |

**Station**

|                   |                               |
|-------------------|-------------------------------|
| Output Voltage    | AC 24V                        |
| Temperature Range | 200-450°C                     |
| Dimensions        | 135 (W) x 95 (H) x 190 (D) mm |
| Weight (w/o cord) | 2.7kg                         |

**Iron**

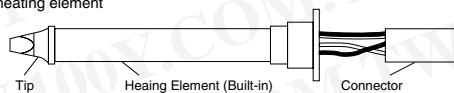
|                          |                    |
|--------------------------|--------------------|
| Model No.                | 902                |
| Power Consumption        | AC 24V/90W         |
| Standard Tip             | A1080 (Shape-2.4D) |
| Tip to Ground Resistance | < 2.0              |
| Tip to Ground Potential  | < 2mV (Typ.0.6mV)  |
| Heating Element          | Integrated Heater  |
| Total Length (w/o cord)  | 180mm              |
| Weight (w/o cord)        | 45g                |

**Packing List**

| Model Name | Contents  |
|------------|---|
| HAKKO 931  | Station .....1                                      |
|            | Iron (902) .....1                                   |
|            | Iron holder with cleaning sponge (No.631-01) .....1 |
|            | Cap nut wrench .....1                               |

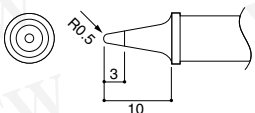
**Replacement Tips**

The integrated tip/heating element

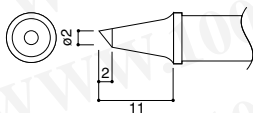


Unit : mm

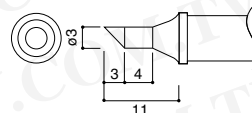
A1173 Shape-B



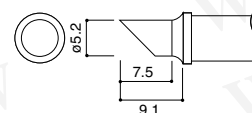
A1160 Shape-2C



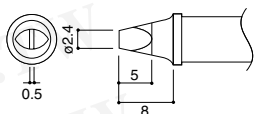
A1161 Shape-3C



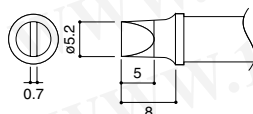
A1162 Shape-5C



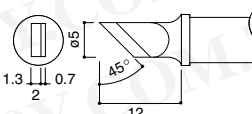
A1080 Shape-2.4D



A1081 Shape-5.2D



A1163 Shape-K



勝特力材料 886-3-5753170  
 勝特力电子(上海) 86-21-54151736  
 勝特力电子(深圳) 86-755-83298787  
 Http://www.100y.com.tw

## HAKKO 936 ESD SAFE

SOLDERING STATION



- Compact unit takes up little space on the work-bench.
- Thinner grip for easier use.
- Lock screw prevents inadvertent changes in the temperature setting.
- The unit is also available in regular style other than ESD safe.

## HAKKO 937 ESD SAFE

SOLDERING STATION



- Digital indicator ensures accurate temperature setting by all personnel.
- Once set, temperature cannot be changed without inserting the control card, providing easy temperature management.
- Compact unit takes up little space on the work-bench.
- Thinner grip for easier use.
- ESD safe by design.

### Irons for Soldering Stations

3 Types of iron available: for HAKKO 936, HAKKO 937 Soldering Stations

| Type                    | Small: For micro soldering   | Medium: Standard   | Large: For heavy duty soldering  |
|-------------------------|--|--|--|
| Model No.               | 900S<br>900S-ESD   | 907<br>907-ESD   | 908<br>908-ESD   |
| Thermal recovery graph* | <p>(with 900S-T-I Tip.)</p> <p>A: Room Temperature 25°C(77°F)<br/>                 B: Time for Heat-Up<br/>                 C: Temperature Drop<br/>                 D: Time for Operation<br/>                 E: Time for Thermal Recovery</p> | <p>(with 900M-T-B Tip.)</p> <p>A: Room Temperature 25°C(77°F)<br/>                 B: Time for Heat-Up<br/>                 C: Temperature Drop<br/>                 D: Time for Operation<br/>                 E: Time for Thermal Recovery</p> | <p>(with 900L-T-B Tip.)</p> <p>A: Room Temperature 25°C(77°F)<br/>                 B: Time for Heat-Up<br/>                 C: Temperature Drop<br/>                 D: Time for Operation<br/>                 E: Time for Thermal Recovery</p> |

\*Test criteria  
 Board: Paper phenol copper  
 Solder: ø1.6 x 5mm  
 Cycle: Every 3 sec.

### Specifications

|                          |                               |             |             |
|--------------------------|-------------------------------|-------------|-------------|
| Model No.                | 936                           | 937         |             |
| Power Consumption        | 60W                           |             |             |
| <b>Station</b>           |                               |             |             |
| Output Voltage           | AC 24V                        |             |             |
| Temperature Range        | 200-480°C                     |             |             |
| Dimensions               | 120 (W) x 93 (H) x 170 (D) mm |             |             |
| Weight (w/o cord)        | 1.3kg                         |             |             |
| <b>Iron</b>              |                               |             |             |
| Model No.                | 900S                          | 907         | 908         |
| Type                     | S                             | M           | L           |
| Style                    | Regular ESD                   | Regular ESD | Regular ESD |
| Power Consumption        | AC 24V/50W                    |             |             |
| Standard Tip             | 900S-T-I                      | 900M-T-B    | 900L-T-B    |
| Tip to Ground Resistance | < 2                           |             |             |
| Tip to Ground Potential  | < 2mV (Typ.0.6mV)             |             |             |
| Heating Element          | Ceramic Heater                |             |             |
| Total Length (w/o cord)  | 176mm                         | 190mm       | 200mm       |
| Weight (w/o cord)        | 25g                           | 44g         | 54g         |

### Packing List

| Model Name | Contents  |
|------------|---|
| HAKKO 936  | Station .....1  |
|            | Iron (900S/907/908) .....1  |
|            | Iron holder with cleaning sponge (900S-No.C1141, 907/908-No.C1142) .....1 |
| HAKKO 937  | Hexagon wrench (1.5mm) .....1   |
|            | Station .....1  |
|            | Iron (900S/907/908) .....1  |
| HAKKO 937  | Iron holder with cleaning sponge (900S-No.C1141, 907/908-No.C1142) .....1 |
|            | Control card .....1   |

When ordering HAKKO 936 or HAKKO 937, please specify the type of Iron (S, M or L).

### Replacement Tips

Please refer to page 21.

### Optional Parts

Please refer to page 22, 53.

Stackable design puts two units in the bench space of one unit.





# N<sub>2</sub> System

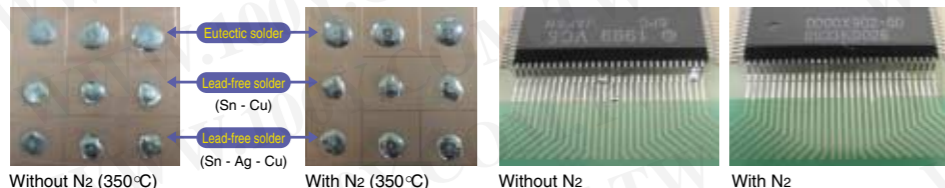


**N<sub>2</sub> gas and preheating effect improves the solderability greatly!**

- The preheating effect is achieved by passing Nitrogen gas along the heating element in the hand piece. Soldering can be done on multilayer PWB and high density PWB sensitive to heat without raising the temperature of the tip excessively, even when the melting point of lead-free solder is high.
- Improvement of wettability and spreadability.
- Preventing oxidation.
- Space saving:-  
 In case of setting with HAKKO FX-951, the dimensions are 163(W) x 280(H) x 110(D)mm  
 In case of setting with MODEL FM-202, the dimensions are 200(W) x 280(H) x 178(D)mm

Setting example with the FX-951  
 \*HAKKO FX-951, HAKKO FM-2026  
 HAKKO FX-780, HAKKO FX-791

### Comparison of wettability and spreadability



Less bridge is generated even for components susceptible to bridging.

### N<sub>2</sub> Soldering Iron



## HAKKO FM-2026 ESD SAFE

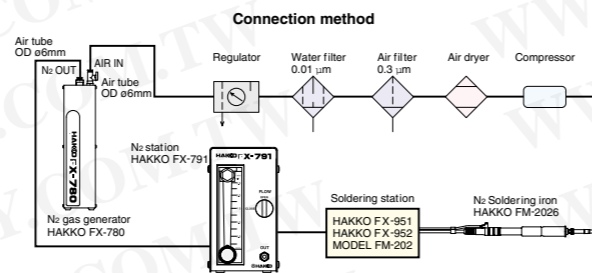
Nitrogen gas passes between the tip and nozzle ass'y uniformly and the soldering tip is entirely covered with Nitrogen gas, which intercepts oxygen to prevent the soldering tip and solder from being oxidized and increases the preheating effect. It allows more stable and uniform soldering.

### Compact High-Performance N<sub>2</sub> Generator



## HAKKO FX-780

HAKKO FX-780 generate Nitrogen gas at a maximum concentration of 99.9%. It is very compact and can be installed in a minimal space. Moreover, it can be placed perpendicularly or horizontally.



### Compact N<sub>2</sub> Flow Meter



## HAKKO FX-791

This meter is very compact and can be installed in a minimal space next to the soldering station. The flow meter has a range between 0.25-2.5ℓ/min, allowing easy control. (Recommended flow rate is 0.5ℓ/min. to 1.5ℓ/min. Adjust the flow rate depending on the tip shape.)

### Specifications

| FM-2026                                   |   |
|---|---|
| Model No.                                 | FM-2026   |
| Power Consumption                         | 24V/70W   |
| Tip to Ground Resistance                  | < 2   |
| Tip to Ground Potential                   | < 2mV   |
| Cord                                      | 1.2m  |
| Total Length (w/o cord)                   | 205mm with 2.4D tip   |
| Weight (w/o cord)                         | 45g w/nozzle assembly C & 2.4D tip  |
| FX-780                                    |   |
| Model No.                                 | FX-780  |
| Air Supply Pressure                       | 0.3-0.7KPa  |
| Concentration of Generated N <sub>2</sub> | 99.9% (Max.)  |
| Amount of Generated N <sub>2</sub>        | 1.5ℓ/min.<br>(When compressed air of 0.5MPa is supplied at 25°C, the concentration of generated nitrogen is 98%.) |
| Dimensions (w/o sockets & valve)          | 73(W) x 282(H) x 71(D)mm  |
| Weight (w/o racks)                        | 1.5kg   |
| FX-791                                    |   |
| Model No.                                 | FX-791  |
| Dimensions                                | 70(W) x 121(H) x 134(D)mm   |
| Weight                                    | 600g  |
| Pressure Gauge for Discharged Gas         | 0.2Mpa (2.0kgf/cm <sup>2</sup> )  |
| Gas flow                                  | 0.25-25ℓ/min  |

### Packing List

| Model Name    | Contents   |
|---------------|--|
| HAKKO FM-2026 | N <sub>2</sub> soldering iron (FM-2026) .....1   |
|               | Retaining clip for iron holder .....1  |
|               | Nitrogen guard .....1  |
| HAKKO FX-780  | *This unit does not include a soldering tip or nozzle assembly. When purchasing this unit, please buy your desired soldering tip and nozzle assembly together. |
|               | N <sub>2</sub> generator .....1  |
| HAKKO FX-791  | Racks for station .....2   |
|               | N <sub>2</sub> station .....1  |

### Replacement and Optional Parts

| Part No. | Name/Description        |
|----------|-------------------------|
| B2974    | Sleeve cover            |
| B2765C   | Sleeve assembly, yellow |
| B2768C   | Sleeve assembly, orange |
| B2769C   | Sleeve assembly, blue   |
| B2998*   | Nitrogen guard          |

\*When using the soldering iron holder cover, install it into your soldering iron holder.

### Nitrogen Guard

When soldering iron holder is installed.



No.B2998

### Optional Tips and Nozzle Assemblies

| Tip                                       | Applicable Nozzle Assembly | Tip                                       | Applicable Nozzle Assembly | Tip                            | Applicable Nozzle Assembly |
|---|----------------------------|---|----------------------------|--------------------------------|----------------------------|
| T13-B2 Shape-0.5B                         | B2708<br>Nozzle assembly C | T13-BL Shape-BL                           | B2898<br>Nozzle assembly E | T13-BC1 Shape-1BC<br>T13-BCF1* | B2899<br>Nozzle assembly F |
| T13-BC2 Shape-2BC<br>T13-BCF2*            | B2707<br>Nozzle assembly A | T13-BC3 Shape-3BC<br>T13-BCF3*            | B2900<br>Nozzle assembly G | T13-D08 Shape-0.8D             | B2709<br>Nozzle assembly D |
| T13-D16 Shape-1.6D                        | B2708<br>Nozzle assembly C | T13-D24 Shape-2.4D                        | B2708<br>Nozzle assembly C | T13-J02 Shape-0.2J             | B2707<br>Nozzle assembly B |
| T13-KF Shape-KF                           | B2923<br>Nozzle assembly J | T13-KR Shape-KR                           | B2902<br>Nozzle assembly I | T13-KU Shape-KU                | B2901<br>Nozzle assembly H |
| T13-BCM2 Shape-2BC<br>Bevel with indent** | B2706<br>Nozzle assembly A | T13-BCM3 Shape-3BC<br>Bevel with indent** | B2900<br>Nozzle assembly G |                                |                            |

\*These tips are tinned on the soldering surface only.  
 \*\*The part numbers T13-BCM2 and T13-BCM3 are not available for sale or use in the U.S.A.

**HAKKO 951·952** ESD SAFE  
 SOLDERING GUN



- Available for your Hakko 701, 702B, 928, 936, or 937.
- ESD safe by design.
- Compact design and light weight.
- Easy positioning for the solder feeding.
- A variety of tip type.

**Specifications**

|                          |                          |                    |
|--------------------------|--------------------------|--------------------|
| Model No.                | 951                      | 952                |
| Type                     | M                        | L                  |
| Power Consumption        | AC 24V/50W               |                    |
| Standard Tip             | 900M-T-S10 (Shape-S10)   | 900L-T-B (Shape-B) |
| Temperature Range        | 200-480°C                |                    |
| Tip to Ground Resistance | < 2                      |                    |
| Tip to Ground Potential  | < 2mV (Typ.0.6mV)        |                    |
| Heating Element          | Ceramic Heater           |                    |
| Standard Guide Nozzle    | ø1.0 (B2654)             |                    |
| Usable Solder Dia.       | ø0.6, 0.8, 1.0, 1.2, 1.6 |                    |
| Dimensions (w/o cord)    | 170 (W) x 180 (H)mm      |                    |
| Weight (w/o cord)        | 177g                     | 187g               |

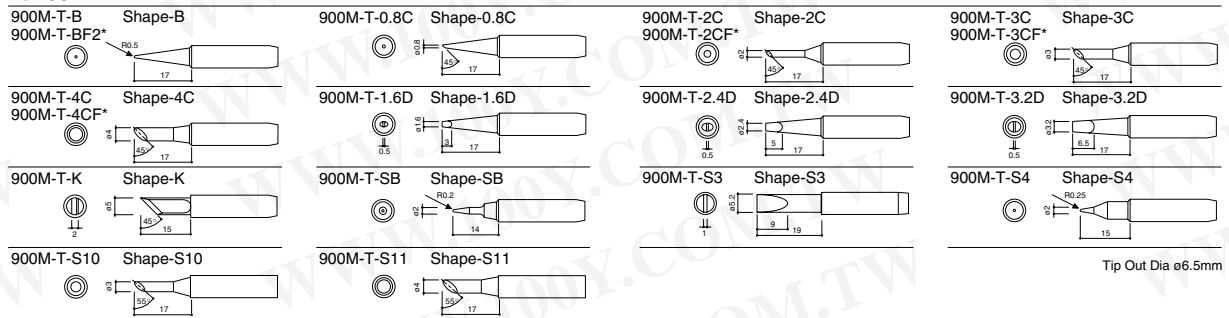
**Optional Parts**

| Part No. | Name/Description        |
|----------|-------------------------|
| B2652    | Guide nozzle/ø0.6mm ESD |
| B2653    | Guide nozzle/ø0.8mm ESD |
| B2654    | Guide nozzle/ø1.0mm ESD |
| B2655    | Guide nozzle/ø1.2mm ESD |
| B2656    | Guide nozzle/ø1.6mm ESD |
| A1321    | Heating element         |
| C1437    | Iron holder             |

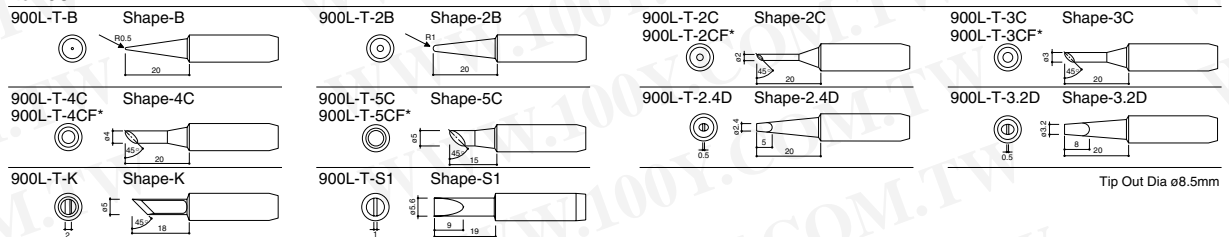
**Replacement Tips**

Unit : mm

**For 951**



**For 952**



\*These tips are tinned on the soldering surface only.  
 \*900M-T-BF2 is tinned a distance of 2mm from the end of the tip.  
 \*For heavy duty soldering HAKKO recommends the 952 gun with heavier tips.

**CAUTION**  
 Use only genuine replacement tips for Hakko 951,952.  
 The tips for Hakko Dash are not available to use.

# HAKOMG

SOLDERING GUN



- Trigger operation for easy one-hand soldering.
- Quick solder wire replacement with a simple upward push of the trigger.
- Solder feed control for precise adjustment of the amount of solder wire feed to the tip.  
<Min: 3mm Max: 8mm>
- Simple heating element replacement procedure requires no special skills.



## Specifications

|                        |                       |                |                |                  |      |      |
|------------------------|-----------------------|----------------|----------------|------------------|------|------|
| Model No.              | 582                   | 583            | 585            | 587              | 589  | 592  |
| Power Consumption      | 30W                   | 40W            | 60W            | 80W              | 100W | 150W |
| Standard Tip           | 582-T-4 (ø4mm)        | 585-T-6 (ø6mm) | 587-T-8 (ø8mm) | 592-T-10 (ø10mm) |      |      |
| Packed in Guide Nozzle | 582-N-1.6 & 582-N-2.3 |                |                |                  |      |      |
| Heating Element        | Nichrome Heater       |                |                |                  |      |      |
| Dimensions (W) x (H)   | 197 x 149mm           | 213 x 149mm    | 227 x 149mm    | 241 x 149mm      |      |      |
| Weight (w/o cord)      | 266g                  | 290g           | 318g           | 322g             | 380g |      |

## Recommended Iron Holder



No.607

## Spool Holder



No.582-022

## Replacement Tips

| Part No. | Name/Description |
|----------|------------------|
| 582-T-4  | Tip ø4mm         |
| 585-T-6  | Tip ø6mm         |
| 587-T-8  | Tip ø8mm         |
| 592-T-10 | Tip ø10mm        |

## Optional Parts

| Part No.  | Name/Description                      |
|-----------|---------------------------------------|
| 582-N-0.8 | Guide nozzle/ø0.8mm                   |
| 582-N-1.0 | Guide nozzle/ø1.0mm                   |
| 582-N-1.2 | Guide nozzle/ø1.2mm                   |
| 582-N-1.6 | Guide nozzle/ø1.6mm                   |
| 582-N-2.3 | Guide nozzle/ø2.0-2.3mm               |
| 582-022   | Spool holder <Core size 29mm x ø19mm> |
| 607       | Iron holder                           |

# HAKKO 933·934

SOLDERING IRON



- Simple and quick temperature setting by inserting the appropriate temperature button into the handle.
- Easy temperature management-preset temperature can be seen at a glance.
- More efficient use of work space.

## Specifications

| Model No.                | 933  | 934                |
|--------------------------|--|--------------------|
| Power Consumption        | 51W  |                    |
| Standard Tip             | 900M-T-B (Shape-B)                         | 900L-T-B (Shape-B) |
| Temperature              | 300 · 330 · 360 · 390 · 420 · 450 · 480 °C |                    |
| Tip to Ground Resistance | < 2  |                    |
| Tip to Ground Potential  | < 2mV (Typ.0.6mV)                          |                    |
| Heating Element          | Ceramic Heater                             |                    |
| Total Length (w/o cord)  | 200mm                                      | 210mm              |
| Weight (w/o cord)        | 55g  | 65g                |

## Replacement Tips

Please refer to page 21.

- Tips for HAKKO 933 = Tips for M-Type Iron
- Tips for HAKKO 934 = Tips for L-Type Iron

## Optional Parts

| Part No. | Name/Description            |
|----------|-----------------------------|
| B1766    | Temp. setting button 300 °C |
| B1767    | Temp. setting button 330 °C |
| B1768    | Temp. setting button 360 °C |
| B1769    | Temp. setting button 390 °C |
| B1770    | Temp. setting button 420 °C |
| B1771    | Temp. setting button 450 °C |
| B1772    | Temp. setting button 480 °C |

## Packing List

| Model Name | Contents   |
|------------|--|
| HAKKO 933  | Iron (M) .....1  |
|            | Temperature setting button .....3<br>(360 °C-No.B1768, 390 °C-No.B1769, 420 °C-No.B1770) |
| HAKKO 934  | Iron (L) .....1  |
|            | Temperature setting button .....3<br>(360 °C-No.B1768, 390 °C-No.B1769, 420 °C-No.B1770) |

\*390 °C button is originally set into the iron.  
 Other setting buttons are available as optional parts.

## Recommended Iron Holders



No.606



No.633-01



No.633-02

## Temp. Setting Button



# HAKKO MACH-I

SOLDERING IRON



- Begin soldering in only 10 seconds!
- Greater thermal capacity and rapid transmission to the tip means faster thermal recovery.
- The temperature control sensor is built into the heating element for faster, more stable temperature control.
- The highly insulated ceramic heater never overheats.  
 An insulation factor of over 100M can be maintained even during actual use.
- The compact, light weight design with high cooling efficiency at the handle permits fatigue-free soldering over long periods for maximum work efficiency.

## Specifications

|                         |                   |                     |                   |       |
|-------------------------|-------------------|---------------------|-------------------|-------|
| Model No.               | 918               | 920                 | 921               | 922   |
| Power Consumption       | 55W               |                     |                   |       |
| Standard Tip            | 918-T-B (Shape-B) | 920-T-SB (Shape-SB) | 920-T-B (Shape-B) |       |
| Temperature             | 420°C             | 300°C               | 370°C             | 420°C |
| Heating Element         | Ceramic Heater    |                     |                   |       |
| Insulation Resistance   | 100M              |                     |                   |       |
| Total Length (w/o cord) | 220mm             |                     | 210mm             |       |
| Weight (w/o cord)       | 70g               | 50g                 |                   |       |

## Recommended Iron Holders



No.606



No.633-01

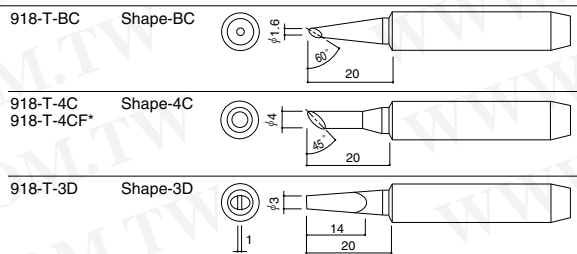
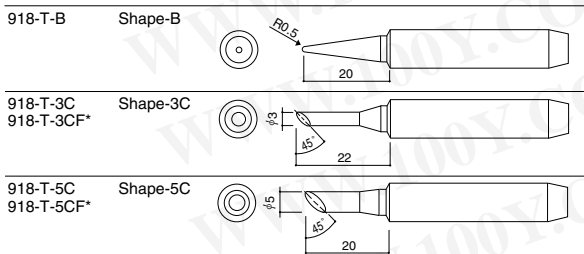


No.633-02

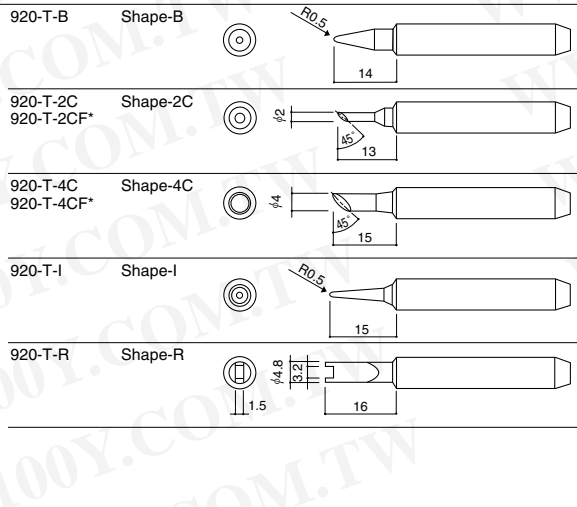
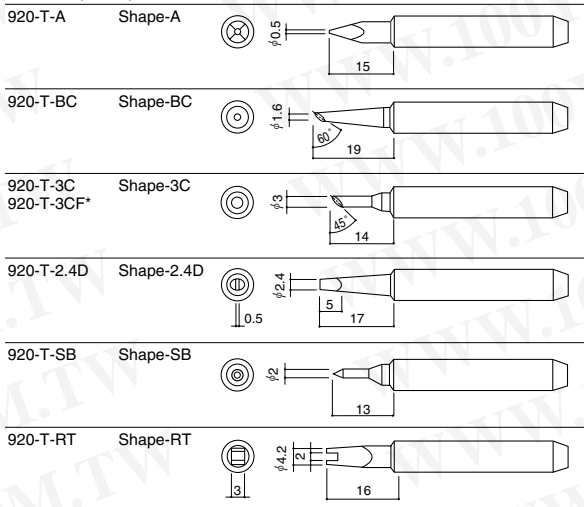
## Replacement Tips

Unit : mm

### For 918



### For 920, 921, 922



\* These tips are tinned on the soldering surface only.

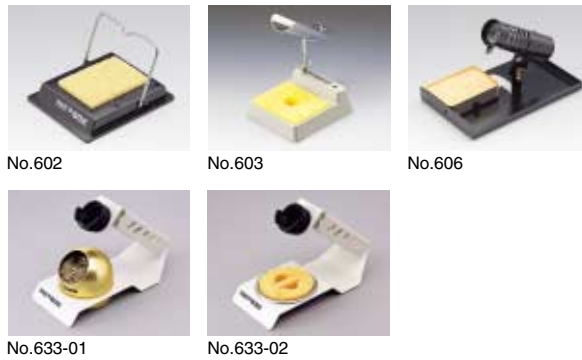


- Compact, light weight design with a slender handle for a more comfortable grip.
- Rod-type ceramic heater brings high insulation, and reduces the handle-to-tip distance for faster soldering with a minimum of movement.
- Special alloy heating element is printed in the alumina ceramic insulating layer and then sintered to the ceramic main body, thus completely sealing the heating element off from air. This protects the heating element from oxidation, and ensures years of trouble-free use.

**Specifications**

|                         |                    |      |                    |
|-------------------------|--------------------|------|--------------------|
| Model No.               | N452               | N453 | N454               |
| Power Consumption       | 15W                | 20W  | 25W                |
| Standard Tip            | N452-T-B (Shape-B) |      | N454-T-B (Shape-B) |
| Heating Element         | Ceramic Heater     |      |                    |
| Insulation Resistance   | 200M               | 100M |                    |
| Total Length (w/o cord) | 185mm              |      | 192mm              |
| Weight (w/o cord)       | 47g                |      | 57g                |

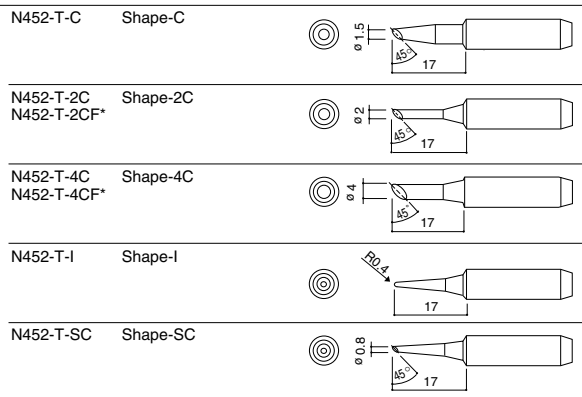
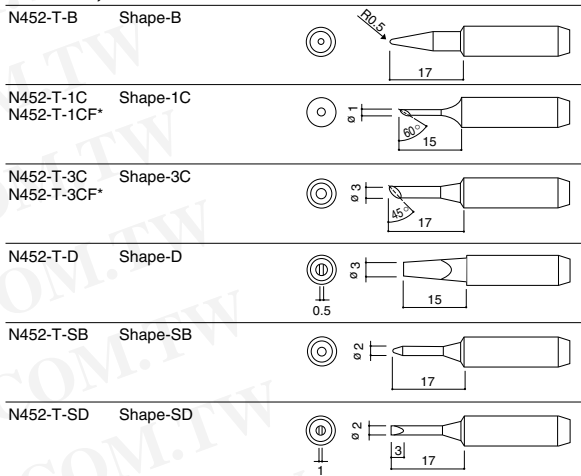
**Recommended Iron Holders**



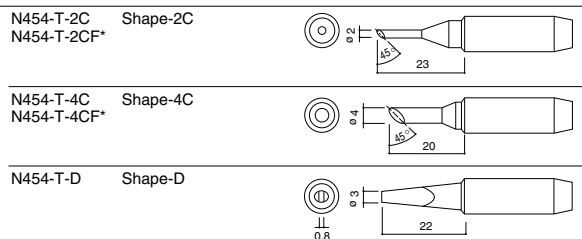
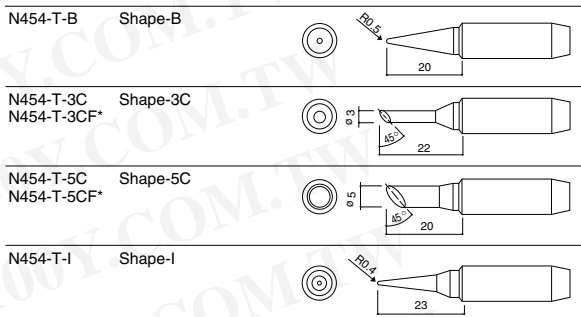
**Replacement Tips**

Unit : mm

**For N452, N453**



**For N454**



\* These tips are tinned on the soldering surface only.

# HAKKO 455-456

SOLDERING IRON



- Both the HAKKO 455-456 incorporate a ceramic heating element, which provides a longer service life than conventional nichrome heating element.
- Alloy-coated iron tips ensure long-lasting protection from corrosion.
- The HAKKO 455 is perfect for soldering tuners, inverters and similar components.
- The HAKKO 456 is ideal for soldering chassis, dynamos, large harnesses, transformers and other parts which require a large amount of soldering.

## Specifications

|                         |                 |                  |
|-------------------------|-----------------|------------------|
| Model No.               | 455             | 456              |
| Power Consumption       | 40W             | 60W              |
| Standard Tip            | A1047 (Shape-B) | A1023 (Shape-2B) |
| Heating Element         | Ceramic Heater  |                  |
| Total Length (w/o cord) | 215mm           | 250mm            |
| Weight (w/o cord)       | 100g            | 150g             |

## Recommended Iron Holders



No.633-01

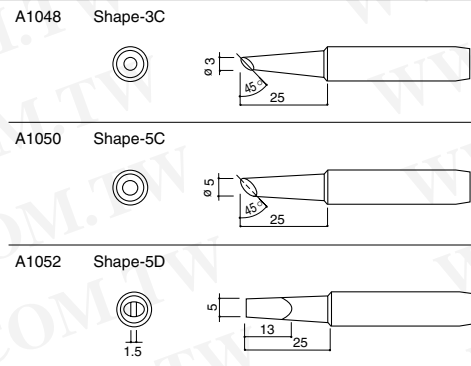
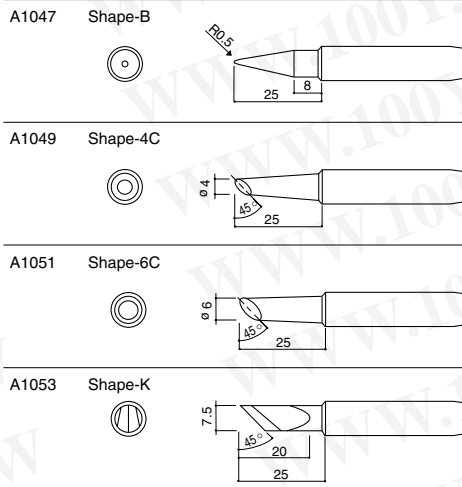


No.633-02

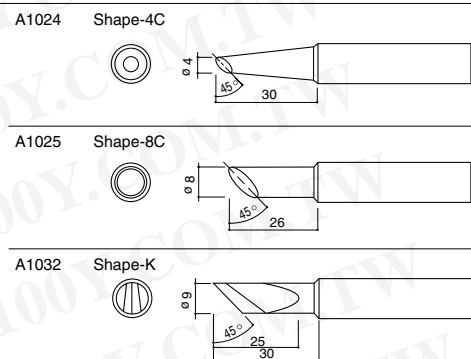
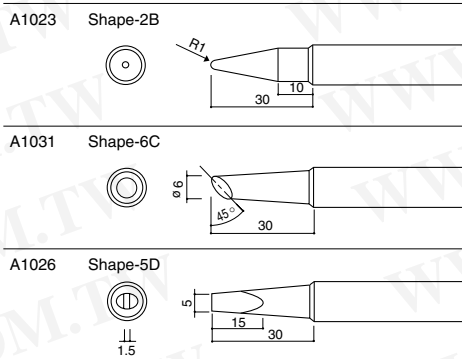
## Replacement Tips

Unit : mm

### For 455



### For 456



# HAKKO PRESTO

SOLDERING IRON



- The HAKKO PRESTO features two operating wattages-20W and 130W, which can be switched by simply pressing a button according to the component size you want to solder.
- The HAKKO PRESTO is available in both pen and gun types so you can select the type that best matches your needs.
- A Safety cap is available for 984 and 985. You can put in a toolbox immediately after finishing soldering work.



## Specifications

| Model No.               | 980               | 981   | 984   | 985   |
|-------------------------|-------------------|-------|-------|-------|
| Type                    | Pen               | Gun   | Pen   | Gun   |
| Safety Cap              | —                 | —     | ○     | ○     |
| Power Consumption       | 20W/130W          |       |       |       |
| Standard Tip            | 980-T-B (Shape-B) |       |       |       |
| Heating Element         | Ceramic Heater    |       |       |       |
| Insulation Resistance   | Over 100M (20W)   |       |       |       |
| Total Length (w/o cord) | 205mm             | 160mm | 205mm | 160mm |
| Weight (w/o cord)       | 48g               | 92g   | 56g   | 100g  |

## Recommended Iron Holders



No.606



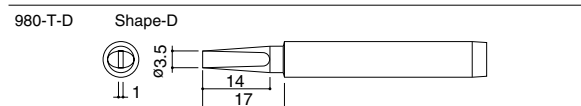
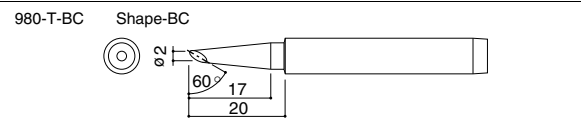
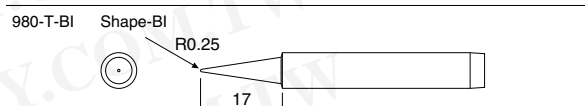
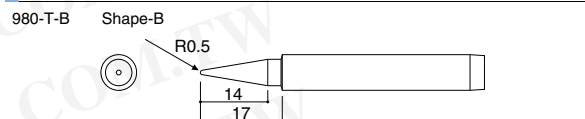
No.633-01



No.633-02

## Replacement Tips

Unit : mm



# HAKO RED

SOLDERING IRON



- Ideal for use in a variety of soldering works like hobbies, repairing electric household appliances.
- 20W-40W ...  
Circuit Boards, small electrical parts, etc.
- 60W ...  
Connectors, heavier wiring connections, etc.

## Specifications

|                         |                 |            |     |            |
|-------------------------|-----------------|------------|-----|------------|
| Model No.               | 500             | 501        | 502 | 503        |
| Power Consumption       | 20W             | 30W        | 40W | 60W        |
| Standard Tip            | BB3 (ø3mm)      | BB4 (ø4mm) |     | BB6 (ø6mm) |
| Heating Element         | Nichrome Heater |            |     |            |
| Total Length (w/o cord) | 197mm           | 205mm      |     | 238mm      |
| Weight (w/o cord)       |                 | 40g        |     | 70g        |

## Recommended Iron Holders



No.602



No.603

## Replacement Tips

| Part No. | Name/Description |
|----------|------------------|
| BB3      | Black tip ø3mm   |
| BB4      | Black tip ø4mm   |
| BB6      | Black tip ø6mm   |

## HAKKO FX-901

CORDLESS IRON



- Various soldering application is available such as hobby, field service and repair.
- Quick & Easy tip replacement.
- Various types of batteries are available such as Alkaline Battery, Nickel-Cadmium Battery, and Nickel-Hydrogen Battery.

### Tip: Easy Replacement

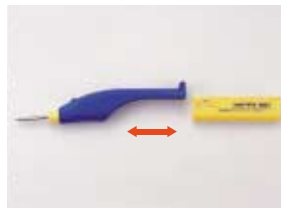


Loosen the nipple.



Replace the tip and tighten the nipple.

### Battery: Selective & Cartridge



### Specifications

|                        |   |
|------------------------|---|
| Model No.              | FX-901  |
| Power Supply           | "AA" x 4 pcs.   |
| *Battery Life          | Alkaline Batteries: Approx. 60 min.<br>Nickel-Hydrogen Batteries (2150mh): Approx. 120 min. |
| Power Consumption      | Alkaline Batteries: 6V (6W)<br>Nickel-Hydrogen Batteries (2150mh): 4.8V (5W)                |
| Standard Tip           | T11-B (Shape-B)   |
| Weight (w/o battery)   | 76g   |
| Total Length (w/o cap) | 212mm   |

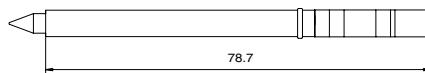
\*Measurement conditions  
 When using new batteries. Performance will vary depending on batteries.  
 When the tip temperature is maintained at more than 300°C.  
 The life is measured from the time power is switched on.  
 \*When using the batteries except specified above, performance and hour operation will vary.

### Packing List

| Model Name   | Contents             |
|--------------|----------------------|
| HAKKO FX-901 | Cordless iron .....1 |
|              | Cap .....1           |

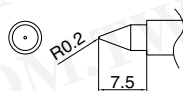
\*Battery is not included.

### Replacement Tips

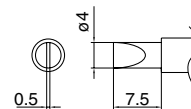


Unit : mm

T11-B Shape-B



T11-D4 Shape-4D





SELF FEEDER 370 <SF> SOLDERING GUN 371-372 <SF> SOLDERING IRON 376



- The feeder unit incorporates a torque limiter which prevents the motor from overloading should something go wrong with the solder feeding operation.
- Permits to select 'Manual' or 'Auto' feeding by mode switch.

勝特力材料 886-3-5753170  
 勝特力电子(上海) 86-21-54151736  
 勝特力电子(深圳) 86-755-83298787  
[Http://www.100y.com.tw](http://www.100y.com.tw)

**Specifications**

|                    |                                   |            |
|--------------------|-----------------------------------|------------|
| Model No.          | 370                               |            |
| Frequency          | 50Hz                              | 60Hz       |
| Input Voltage      | AC 100-120V                       |            |
| Power Consumption  | 48W                               |            |
| Motor Output       | 8W                                |            |
| Solder Feed Q'ty   | 1.6mm-16mm                        | 2.0mm-20mm |
| Usable Solder Dia. | 0.6mm, 0.8mm, 1.0mm, 1.2mm, 1.6mm |            |
| Usable Solder      | 1kg roll bobbin (Max.)            |            |
| Standard Setting   | for 1.0mm dia. solder use         |            |
| Dimensions         | 135(W) x 125(H) x 280(D)mm        |            |
| Weight (w/o cord)  | 2.6kg                             |            |

**Iron**

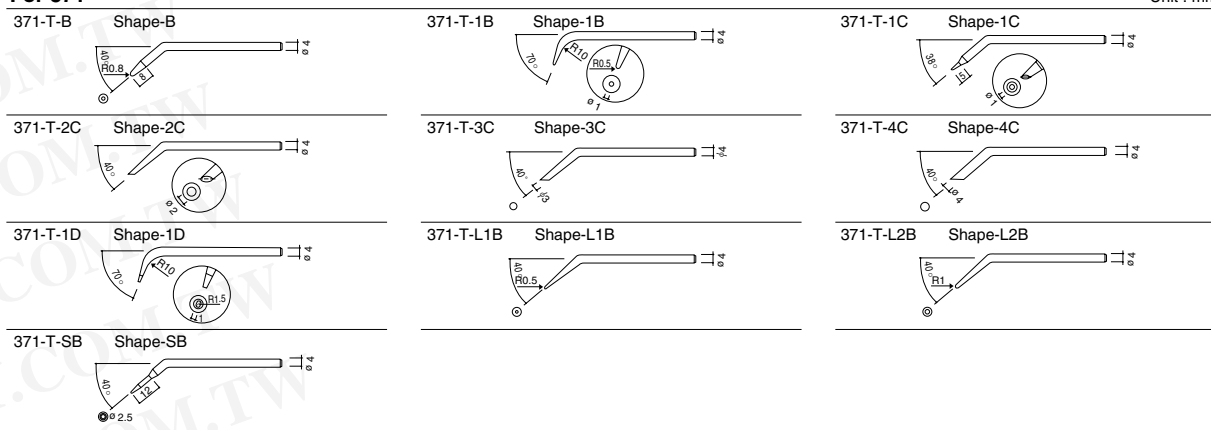
| Model No.                | 371                        | 372                | 376                               |
|--------------------------|----------------------------|--------------------|-----------------------------------|
| Type                     | Gun                        |                    | Pen                               |
| Heating Element          | 40W Ceramic Heater         | 60W Ceramic Heater | 40W Ceramic Heater                |
| Standard Tip (Shape-B)   | 371-T-B                    | 372-T-B            | 900M-T-B                          |
| Temperature Range        | 300-420°C                  | 330-450°C          | 300-420°C                         |
| Usable Solder Dia.       | 0.6mm, 0.8mm, 1.0mm, 1.2mm |                    | 0.6mm, 0.8mm, 1.0mm, 1.2mm, 1.6mm |
| Standard Setting         | for 1.0mm dia. solder use  |                    |                                   |
| Dimensions /Total Length | 146(W) x 132(H)mm          | 161(W) x 132(H)mm  | 196mm                             |
| Weight (w/o cord)        | 180g                       | 190g               | 80g                               |

\*When ordering Nos. 371,372 or 376, No.607 iron holder is included.

**Replacement Tips**

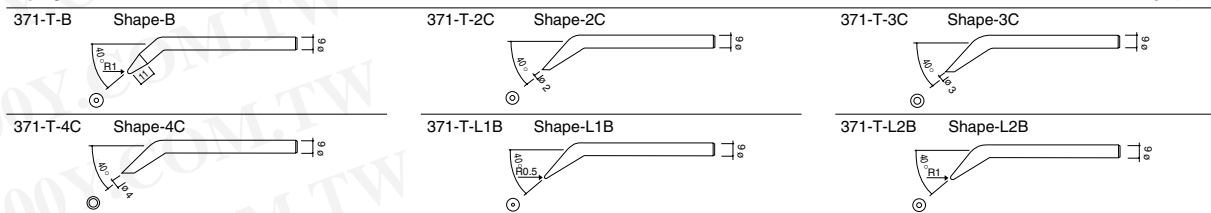
**For 371**

Unit : mm



**For 372**

Unit : mm



**For 376**

\*Please refer to page 21.  
 \*900M-T series (except LB, 1.2LD, H, 1.8H) are available for 376.

# HAKKO 373 ESD SAFE

SELF FEEDER



- Can be used with a wide range of Hakko brand soldering irons, permitting selection of the most appropriate iron for the task at hand. If you already own one of these compatible Hakko soldering irons, you won't need to buy another.
- ESD design helps protect electrically sensitive parts.
- Can be connected to simple soldering equipment by using a switching jack.
- Adjustable solder return function reduces waste, permits fully automatic soldering.

## Set Up



HAKKO 373



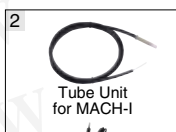
Solder Dia. Adjustment Ring



1 Tube Unit



Guide Pipe Assembly



2 Tube Unit for MACH-I



Foot Switch

Guide Pipe Assembly



3 Feeder Pen



Feeder Switch



4 Feeder Pen



Foot Switch

## Compatible Soldering Iron



HAKKO 936\*



HAKKO 937\*



HAKKO 928\*



HAKKO 931



HAKKO MACH-I



HAKKO DASH

\*900S soldering iron is not compatible with HAKKO 373.

## Specifications

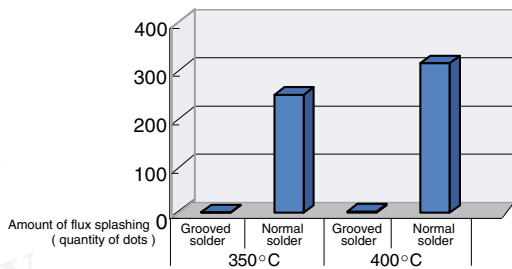
|                    |   |
|--------------------|---|
| Model No.          | 373                                       |
| Power Consumption  | 6W  |
| Motor Output       | DC 24V, 3.2W                              |
| Solder Feed Time   | 0-7sec. (Auto Mode)                       |
| Solder Feed Speed  | 4.5-26mm/sec.                             |
| Solder Feed Q'ty   | 0-182mm (Auto Mode)                       |
| Solder Return Q'ty | 0-5mm                                     |
| Usable Solder Dia. | 0.6mm, 0.65mm, 0.8mm, 1.0mm, 1.2mm, 1.6mm |
| Usable Solder      | 1kg roll bobbin (Max.)                    |
| Dimensions         | 107(W) x 110(H) x 215(D)mm                |
| Weight (w/o cord)  | 1.5kg                                     |



- Reducing flux splashing and solder balls generated during soldering operation.
- Compact design to save work bench.
- Can be installed to your solder reel stand.

勝特力材料 886-3-5753170  
 勝特力电子(上海) 86-21-54151736  
 勝特力电子(深圳) 86-755-83298787  
[Http://www.100y.com.tw](http://www.100y.com.tw)

### Effects of Using Cut Solder



• Test criteria  
 Feed  $\phi 1.0 \times 500$  mm of lead-free solder (Sn-3Ag-0.5Cu) to one of our soldering irons, which has tip temperature setting at 350 and 400°C and measure the amount of flux splashing. The effects of flux splashing prevention may differ under different test criteria.

### Specifications

|                   |                         |
|-------------------|-------------------------|
| Model No.         | 375                     |
| Rating            | DC24V 75mA              |
| Motor rating      | DC24V 130mA             |
| Dimensions        | 76(W) x 96(H) x 50(D)mm |
| Weight (w/o cord) | 590g                    |

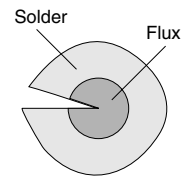
### AC adapter

|        |             |
|--------|-------------|
| Rating | DC24V 250mA |
|--------|-------------|

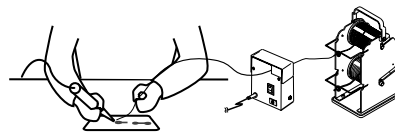
### Optional Parts

| Part No. | Name        |
|----------|-------------|
| B1649    | Foot switch |
| B2763    | Hand switch |

### Cross Section of Solder



### Set Up



### Packing List

| Model Name | Contents          |
|------------|-------------------|
| HAKKO 375  | Unit .....1       |
|            | AC adapter .....1 |



No.B1649



No.B2763

# HAKKO 191



THERMOMETER



- Fast, accurate tip temperature measurements using a fine CA wire sensor (ø0.2mm).
- Large easy-to-read digital temperature display.
- Quick and easy sensor replacement.



## Specifications

|                                 |  |
|---------------------------------|--|
| Model No.                       | 191  |
| Resolution                      | 1°C  |
| Measurement Range               | 0-6°C  |
| Applied Sensor                  | K(CA) Thermocouple   |
| Precision                       | ±3°C (in 300 - 500°C range)  |
| Display                         | a) 3.5 - digit Liquid Crystal Display<br>b) Battery Alarm <br>c) Burn out  |
| Power Supply                    | 006P, 9V Battery   |
| Battery Life                    | More than 150 hours  |
| Environmental Temperature Range | 0-40°C   |
| Dimensions                      | 160(W) x 45(H) x 80(D)mm   |
| Weight (w/battery)              | 200g   |
| Operating Environment           | 0 to 40°C, 20 to 90%RH, no dew formation   |

## Packing List

| Model Name | Contents              |    |
|------------|-----------------------|----|
| HAKKO 191  | Thermometer .....     | 1  |
|            | 006P 9V battery ..... | 1  |
|            | Sensor .....          | 10 |
|            | Ring plate .....      | 1  |

## Optional Parts

| Part No. | Name/Description                    |
|----------|-------------------------------------|
| A1310    | Temperature probe/Total Length 1.2m |
| C1220    | Temperature probe/Total Length 1.1m |



No.A1310  
For measuring the temperature of solder in pots.



No.C1220  
For measuring the temperature of automatic solder machine.

## Replacement Parts

| Part No. | Name/Description |
|----------|------------------|
| 191-212  | Sensor/10 pcs    |

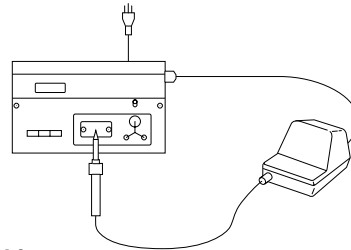
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## HAKKO 192

SOLDERING TESTER



- Measures tip temperature, leak voltage and ground resistance.
- Meets MIL-STD-2000 for leak voltage measurement.
- Measures true root-mean-square (TRMS) values.
- Resistant to drift and temperature changes, ensuring highly reliable measurements.
- Measurements can be output to a monitor, printed out on a recorder, etc.



### Specifications

|                       |  |                           |
|-----------------------|--|---------------------------|
| Temperature           | Resolution                               | 1°C                       |
|                       | Measurement Range                        | 0-600°C                   |
|                       | Precision                                | ±3°C (in 300-500°C range) |
|                       | Applied Sensor                           | K (CA) thermocouple       |
| Voltage               | Resolution                               | 0.1mV                     |
|                       | Measurement Range                        | 0-90mV (AC)               |
|                       | Accuracy                                 | ±(5%+1 digit)             |
|                       | Conforms to MIL-STD-2000                 |                           |
| Resistance            | Resolution                               | 0.1                       |
|                       | Measurement Range                        | 0 - 90                    |
|                       | Accuracy                                 | ±(5%+1 digit)             |
| Display               | Liquid Crystal Display (LCD)             | 3 1/2 digits              |
|                       | Burn Out                                 | [-]□□□                    |
| Monitor Output        | Temperature                              | 1mV/°C                    |
|                       | Voltage                                  | 10mV/mV                   |
|                       | Resistance                               | 10mV/                     |
| Power Consumption     | 1W                                       |                           |
| Dimensions            | 200(W) x 50(H) x 120(D)mm                |                           |
| Weight (w/o cord)     | 1.1kg                                    |                           |
| Operating Environment | 0 to 40°C, 20 to 90%RH, no dew formation |                           |

**CAUTION**  
 The HAKKO 192 cannot be used with soldering irons equipped with ungrounded tips.

### Packing List

| Model Name | Contents                |
|------------|-------------------------|
| HAKKO 192  | Tester .....1           |
|            | Sensor .....10          |
|            | Ring plate .....1       |
|            | Ground clip .....1      |
|            | Midzet fuse (5A) .....1 |
|            | Conduction wire .....1  |

### Replacement Parts

| Part No. | Name/Description |
|----------|------------------|
| 191-212  | Sensor/10 pcs    |
| B1752    | Conduction plate |
| B1754    | Ground clip      |

### Optional Parts

| Part No. | Name/Description                     |
|----------|--------------------------------------|
| A1310    | Temperature probe/ Total length 1.2m |
| C1220    | Temperature probe/ Total length 1.1m |



No.A1310  
 For measuring the temperature of solder in pots.



No.C1220  
 For measuring the temperature of automatic solder machine.

# HAKKO FX-301

SOLDERING POT



- Selectable heating programs allows to get optimum temperature quickly.
- Select from four heating programs: Sn-Pb (Tin/Lead), Sn-Ag-Cu (Tin/Silver/Copper), Sn-Cu (Tin/Copper), and Sn (Tin).
- Precise temperature control by digital temperature display & offset function.
- Use different pots for different composition solder, or different pot sizes (50 mm square and 75 mm square) with the same unit.
- A timer function helps you keep tabs on how long the soldering pot has been in use, making it easy to judge the time for pot replacement.

## Easy Pot Replacement



Loosen the screws on both sides of the pot.

Replace the pot and retighten the screws.

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## Specifications

|                            |                                |
|----------------------------|--------------------------------|
| Model No.                  | FX-301                         |
| Power Consumption          | 200W                           |
| Weight (w/o solder & cord) | 1.7kg                          |
| Dimensions                 | 143 (W) x 100 (H) x 220 (D) mm |

## Soldering Pot

|                        |                               |                               |
|------------------------|-------------------------------|-------------------------------|
|                        | 50 x 50 Square                | 75 x 75 Square                |
| Temperature Range      | 200-450°C                     | 200-380°C                     |
| Dimensions             | 50 (W) x 43.5 (H) x 50 (D) mm | 75 (W) x 52.5 (H) x 75 (D) mm |
| Molten Solder Capacity | 0.85kg                        | 1.2kg                         |

\*Only a 50 x 50 square solder pot is included in this product.  
 \*The 75 x 75 square solder pot is an optional part.

## Replacement Parts

| Part No. | Name/Description     |
|----------|----------------------|
| A1517    | Solder pot/50 x 50mm |
| A1518    | Solder pot/75 x 75mm |

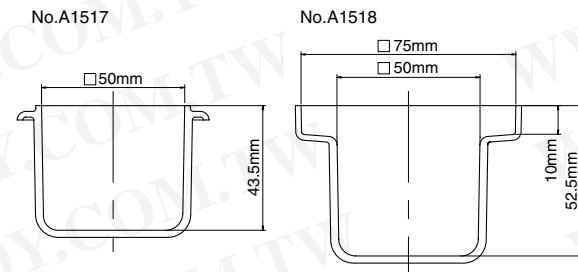
## Temperature Probe

| Part No. | Name/Description                                       |
|----------|--|
| A1310    | Temperature probe/Total Length 1.2m for HAKKO 191, 192 |

## Packing List

| Model Name   | Contents                        |
|--------------|---------------------------------|
| HAKKO FX-301 | Unit .....1                     |
|              | Spatula .....1                  |
|              | J-shaped waste collector .....1 |
|              | Hexagon wrench .....1           |

## Dimensions of Solder Pot



# HAKKO 96

SOLDERING POT



- Large-capacity solder pot holds a larger amount of solder, the solder temperature remains high even during continuous soldering operations.
- The stainless steel solder pot and other heavy-duty components offer greater durability, while the solder overflow prevention rim around the pot provides greater safety.
- The raised rim around the pot enhances soldering and desoldering efficiency.
- A waste collector adds a final touch of operating ease and efficiency.



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## Specifications

|                         |                                 |                                |
|-------------------------|---------------------------------|--------------------------------|
| Model No.               | 96                              | 96-1                           |
| Power Consumption       | 200W                            |                                |
| Heating Element         | Ceramic Heater                  |                                |
| Temperature             | 100-450°C                       | 100-380°C                      |
| Insulation Resistance   | Over 100M (250°C)               |                                |
| Dimension of Solder Pot | 50(W) x 54(H) x 50(D)mm         | 70(W) x 64(H) x 70(D)mm        |
| Molten Solder Capacity  | Approx. 0.85kg of melted solder | Approx. 1.2kg of melted solder |
| Dimensions              | 135(W) x 107(H) x 222(D)mm      | 135(W) x 117(H) x 222(D)mm     |
| Weight (w/o cord)       | 1.5kg                           | 1.6kg                          |

## Temperature Probe

|          |  |
|----------|--|
| Part No. | Name/Description                                       |
| A1310    | Temperature probe/Total Length 1.2m for HAKKO 191, 192 |

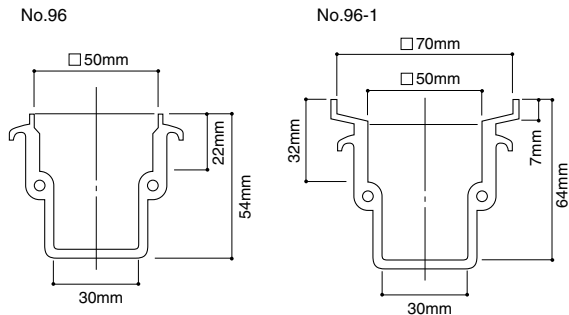


\*For measuring the temperature of solder in pots.

## Packing List

|            |                |
|------------|----------------|
| Model Name | Contents       |
| HAKKO 96   | Unit .....1    |
|            | Spatula .....1 |

## Dimensions of Solder Pot



## HAKKO 485

SOLDERING SYSTEM



- Compact and high performance soldering system developed for soldering and desoldering components and connectors mounted on circuit boards.
- The solder flow is both temperature controlled and time controlled.
- Many different nozzle sizes are available.
- Soldering and desoldering cycles are automatic and precise.
- A built-in locator light pinpoints the exact position for component placement.
- Solder remaining in the through hole is completely removed by utilizing the air unit.

### Operation



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### Specifications

|                   |                |
|-------------------|----------------|
| Model No.         | 485            |
| Input Voltage     | AC100V 50/60Hz |
| Power Consumption | 850W           |

#### Main Unit

|                         |                            |
|-------------------------|----------------------------|
| Part No.                | 485-1                      |
| Room Temperature        | -5~400°C                   |
| Temperature Range       | Normal Temperature-229°C   |
| Capacity of Solder Bath | 10kg                       |
| Heating Element         | 800W (400W x 2)            |
| Dimensions              | 500(W) x 245(H) x 550(D)mm |
| Weight (w/o cord)       | 35kg w/o Solder            |

#### Air Unit

|                   |                                      |
|-------------------|--------------------------------------|
| Part No.          | 486                                  |
| Air Pressure      | 196-686KPa (2-7kgf/cm <sup>2</sup> ) |
| Dimensions        | 150(W) x 100(H) x 300(D)mm           |
| Weight (w/o cord) | 3.5kg                                |

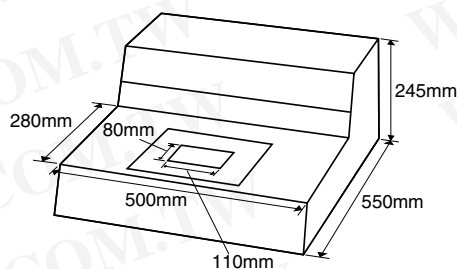
### Replacement Parts

| Nozzle   |               | Unit : mm | Air Hood |            | Unit : mm |
|----------|---------------|-----------|----------|------------|-----------|
| Part No. | Inner Dia.    |           | Part No. | Inner Dia. |           |
| 485-N-01 | 21 x 11       |           | 485-28   | 21 x 10    |           |
| 485-N-02 | 26 x 11       |           | 485-29   | 25 x 10    |           |
| 485-N-03 | 38 x 18       |           | 485-30   | 34 x 17    |           |
| 485-N-04 | 54 x 19       |           | 485-31   | 52 x 17    |           |
| 485-N-11 | 55 x 7        |           | 485-32   | 51 x 7     |           |
| 485-N-12 | 68 x 7        |           | 485-33   | 64 x 7     |           |
| 485-N-13 | 81 x 7        |           | 485-34   | 77 x 7     |           |
| 485-N-14 | 30 x 30       |           | 485-35   | 30 x 30    |           |
| 485-N-15 | 50 x 50       |           | 485-36   | 50 x 50    |           |
| 485-N-16 | 11 x 21 Cross |           |          |            |           |
| 485-N-17 | 11 x 26 Cross |           |          |            |           |
| 485-N-18 | 18 x 38 Cross |           |          |            |           |
| 485-N-19 | 19 x 54 Cross |           |          |            |           |

### Packing List

| Model Name | Contents                           |
|------------|------------------------------------|
| HAKKO 485  | Main unit (No.485-1).....1         |
|            | Air Unit (No.486).....1            |
|            | Nozzle (No.485-N-01~04).....1 each |
|            | Air hood (No.485-28~31).....1 each |
|            | IC tweezers.....1                  |
|            | Anti-oxidizer.....1                |
|            | Spatula.....1                      |
|            | Lamp (6V-10V).....1                |
|            | Horizontal gauge.....1             |
|            | Positioning board.....1            |
|            | Waste collector.....1              |
|            | Locator light.....1                |
|            | Foot switch.....1                  |

### Dimensions



# HAKKO FT-700 · HAKKO FS-100

TIP POLISHER

CHEMICAL PASTE



No. FT-700



No. FS-100

- Removes oxides without damaging the tip.
- Does not contain any diammonium phosphate, so it is safe to tip, P.W.B., operator and global environment.
- Energy-saving design consumes only 4.5W.

## Specifications

### FT-700

|                   |                          |
|-------------------|--------------------------|
| Model No.         | FT-700                   |
| Power Consumption | 4.5W/3W (100W)           |
| Dimensions        | 70(W) x 54(H) x 101(D)mm |
| Weight (w/o cord) | 650g                     |

### FS-100

|            |                 |
|------------|-----------------|
| Model No.  | FS-100          |
| Amount     | 10g             |
| Contents   | Flux paste, tin |
| Dimensions | ø34 x 9(H)mm    |

## Packing List

| Model Name   | Contents              |
|--------------|-----------------------|
| HAKKO FT-700 | Tip polisher .....1   |
|              | Chemical paste .....1 |
|              | Brush .....1          |

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# HAKKO IRON HOLDER



## Specifications

| Model No. | Dimensions of Cleaner               | Dimensions        | Weight |
|-----------|-------------------------------------|-------------------|--------|
| 599B*     |                                     | ø70 x 71(H)mm     | 65g    |
| 602       | 65 x 45 x 15mm                      | 92(W) x 108(D)mm  | 80g    |
| 603       | 70 x 70 x 15mm                      | 82(W) x 95(D)mm   | 500g   |
| 606       | 65 x 45 x 15mm<br>(w/Aluminum Case) | 100(W) x 160(D)mm | 310g   |
| 607       | 70 x 70 x 15mm                      | 98(W) x 166(D)mm  | 600g   |
| 633-01    | ø70 x 71(H)mm                       | 84(W) x 186(D)mm  | 380g   |
| 633-02    | ø70 x 15mm                          | 84(W) x 186(D)mm  | 340g   |

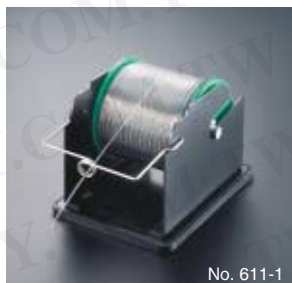
### HAKKO 599B\*

- Replacement cartridge for HAKKO 633.
- No water required.
- Helps you lead-free solder application.

# HAKKO 611 ESD SAFE

SOLDER REEL STAND

ESD SAFE



No. 611-1



No. 611-2

- ESD safe by design.
- Keep your bench neat.
- Draw out the solder wire smoothly.

## Specifications

| Part No.      | 611-1                      | 611-2                      |
|---------------|----------------------------|----------------------------|
| Dimensions    | 86(W) x 114(H) x 78(D)mm   | 87(W) x 200(H) x 141(D)mm  |
| Shaft Dia.    | ø15mm                      |                            |
| Usable Solder | 1kg roll bobbin (Max.) x 1 | 1kg roll bobbin (Max.) x 2 |
| Weight        | 550g                       | 750g                       |

# Hakko Global Network



## Global and Niche: The Hakko brand is much loved in more than 50 countries worldwide.

We have grown into a global brand. Currently, Hakko soldering irons and related equipment are desired in more than 50 countries in overseas markets. We have local corporations and sales representatives in various regions worldwide, and continue to expand our global network. Again, we believe that creative power stems from connections between the Hakko international groups. Hakko promises to fulfill our customers' needs with our global network of friendly relationships.

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