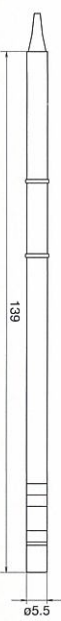


Optional tips - No offset required

Temperature accuracy ±15°C without offset
The iron tips marked with *** have a temperature accuracy of ±25°C.



Unit: mm

TI5B SHAPE-B	TI5-B2 SHAPE-0-5B	TI5-B3 SHAPE-0-7B	TI5-B4 SHAPE-0-4B	TI5-B1LL SHAPE-B-LL LONG	TI5-BCT1 SHAPE-1-BC
TI5-BQ2 SHAPE-2BC TI5-BQ2* TI5-BQF3*	TI5-BQ3 SHAPE-3BC TI5-BQF3*	TI5-BQ12 SHAPE-1-2BC	TI5-BQ15 SHAPE-1.5BC	TI5-BQ28 SHAPE-2-8BC	TI5-C1 SHAPE-1-C
TI5-CF2* SHAPE-2C	TI5-CF3* SHAPE-3C	TI5-C4 SHAPE-4C TI5-CF4*	TI5-D08 SHAPE-0-8D	TI5-D12 SHAPE-1-2D	TI5-D16 SHAPE-1-6D
TI5-D2 SHAPE-2D	TI5-D24 SHAPE-2-4D	TI5-D32 SHAPE-3-2D	TI5-DA SHAPE-4D	TI5-D52 SHAPE-5-2D	TI5-D14 SHAPE-4D LONG
TI5-DL52 SHAPE-5-2D LONG	TI5-XD15 SHAPE-1-5XD	TI5-I1 SHAPE-I	TI5-IL SHAPE-IL	TI5-ILS SHAPE-ILS	TI5-IQ2 SHAPE-0-2I
TI5-JD14 SHAPE-1-4JD	TI5-JD16 SHAPE-1-6JD	TI5-JLQ2 SHAPE-0-2LJ	TI5-JSQ2 SHAPE-0-2JS	TI5-K SHAPE-K	TI5-KF SHAPE-KF
TI5-KL SHAPE-KL	TI5-KU SHAPE-KU	TI5-R20 SHAPE-2-0R	TI5-R23 SHAPE-2-3R	TI5-R27 SHAPE-2-7R	TI5-R34 SHAPE-3-4R
TI5-RR48 SHAPE-4-8R	TI5-SBQ2 SHAPE-0-2SB	TI5-SBQ3 SHAPE-0-3SB	TI5-SBQ5 SHAPE-0-5SB	TI5-SBQ8 SHAPE-0-8SB	TI5-SBQ4 SHAPE-0-4SBQ
TI5-SSSQ4 SHAPE-0-4SSQS	TI5-SBSQ7 SHAPE-0-7SBS	TI5-1001** TUNNEL 5.1 x 4.6	TI5-1002** TUNNEL 5.1 x 10.4	TI5-1003** TUNNEL 9.5 x 18.3	TI5-1004** TUNNEL 9.5 x 15.6
TI5-1005** TUNNEL 9.5 x 13.2	TI5-1006** TUNNEL 6.9 x 11.4	TI5-1007** TUNNEL 7.9 x 18.8	TI5-1008** TUNNEL 19.5 x 10.2	TI5-1009** TUNNEL 13.4 x 20.5	TI5-1010** TUNNEL 19.5 x 12
TI5-1201** QUAD 13.6 x 8.5	TI5-1202** QUAD 10.3 x 10.3	TI5-1203** QUAD 12.8 x 12.8	TI5-1204** QUAD 17.9 x 17.9	TI5-1205** QUAD 23.4 x 17.3	TI5-1206** QUAD 22.5 x 16.5
TI5-1207** QUAD 15.5 x 15.5	TI5-1208** QUAD 15.8 x 15.8	TI5-1209** QUAD 8.4 x 8.4	TI5-1210** QUAD 15.4 x 12.8	TI5-1401** SPATULA 10.4	TI5-1402** SPATULA 15.7
TI5-1403** SPATULA 21.2	TI5-1406** SPATULA 40	TI5-1603** SHAPE-1.8MM LONG REACH CHISEL	TI5-1605** SHAPE-LONG REACH BENT CHISEL	SHAPE B SHAPE J QUAD	SHAPE C SHAPE D SHAPE E SHAPE F SHAPE G SHAPE H SHAPE I SHAPE K SHAPE L SHAPE M SHAPE N SHAPE O SHAPE P SHAPE Q SHAPE R SHAPE S SHAPE T SHAPE U SHAPE V SHAPE W SHAPE X SHAPE Y SHAPE Z SHAPE AA SHAPE AB SHAPE AC SHAPE AD SHAPE AE SHAPE AF SHAPE AG SHAPE AH SHAPE AI SHAPE AJ SHAPE AK SHAPE AL SHAPE AM SHAPE AN SHAPE AO SHAPE AP SHAPE AQ SHAPE AR SHAPE AS SHAPE AT SHAPE AU SHAPE AV SHAPE AW SHAPE AX SHAPE AY SHAPE AZ SHAPE BA SHAPE BB SHAPE BC SHAPE BD SHAPE BE SHAPE BF SHAPE BG SHAPE BH SHAPE BI SHAPE BJ SHAPE BK SHAPE BL SHAPE BM SHAPE BN SHAPE BO SHAPE BP SHAPE BQ SHAPE BR SHAPE BS SHAPE BT SHAPE BU SHAPE BV SHAPE BW SHAPE BX SHAPE BY SHAPE BZ SHAPE CA SHAPE CB SHAPE CC SHAPE CD SHAPE CE SHAPE CF SHAPE CG SHAPE CH SHAPE CI SHAPE CJ SHAPE CK SHAPE CL SHAPE CM SHAPE CN SHAPE CO SHAPE CP SHAPE CQ SHAPE CR SHAPE CS SHAPE CT SHAPE CU SHAPE CV SHAPE CW SHAPE CX SHAPE CY SHAPE CZ SHAPE DA SHAPE DB SHAPE DC SHAPE DD SHAPE DE SHAPE DF SHAPE DG SHAPE DH SHAPE DI SHAPE DJ SHAPE DK SHAPE DL SHAPE DM SHAPE DN SHAPE DO SHAPE DP SHAPE DQ SHAPE DR SHAPE DS SHAPE DT SHAPE DU SHAPE DV SHAPE DW SHAPE DX SHAPE DY SHAPE DZ SHAPE EA SHAPE EB SHAPE EC SHAPE ED SHAPE EE SHAPE EF SHAPE EG SHAPE EH SHAPE EI SHAPE EJ SHAPE EK SHAPE EL SHAPE EM SHAPE EN SHAPE EO SHAPE EP SHAPE EQ SHAPE ER SHAPE ES SHAPE ET SHAPE EU SHAPE EV SHAPE EW SHAPE EX SHAPE EY SHAPE EZ SHAPE FA SHAPE FB SHAPE FC SHAPE FD SHAPE FE SHAPE FF SHAPE FG SHAPE FH SHAPE FI SHAPE FJ SHAPE FK SHAPE FL SHAPE FM SHAPE FN SHAPE FO SHAPE FP SHAPE FQ SHAPE FR SHAPE FS SHAPE FT SHAPE FU SHAPE FV SHAPE FW SHAPE FX SHAPE FY SHAPE FZ SHAPE GA SHAPE GB SHAPE GC SHAPE GD SHAPE GE SHAPE GF SHAPE GG SHAPE GH SHAPE GI SHAPE GJ SHAPE GK SHAPE GL SHAPE GM SHAPE GN SHAPE GO SHAPE GP SHAPE GQ SHAPE GR SHAPE GS SHAPE GT SHAPE GU SHAPE GV SHAPE GW SHAPE GX SHAPE GY SHAPE GZ SHAPE HA SHAPE HB SHAPE HC SHAPE HD SHAPE HE SHAPE HF SHAPE HG SHAPE HH SHAPE HI SHAPE HJ SHAPE HK SHAPE HL SHAPE HM SHAPE HN SHAPE HO SHAPE HP SHAPE HQ SHAPE HR SHAPE HS SHAPE HT SHAPE HU SHAPE HV SHAPE HW SHAPE HX SHAPE HY SHAPE HZ SHAPE IA SHAPE IB SHAPE IC SHAPE ID SHAPE IE SHAPE IF SHAPE IG SHAPE IH SHAPE II SHAPE IJ SHAPE IK SHAPE IL SHAPE IM SHAPE IN SHAPE IO SHAPE IP SHAPE IQ SHAPE IR SHAPE IS SHAPE IT SHAPE IU SHAPE IV SHAPE IW SHAPE IX SHAPE IY SHAPE IZ SHAPE JA SHAPE JB SHAPE JC SHAPE JD SHAPE JE SHAPE JF SHAPE JG SHAPE JH SHAPE JI SHAPE JJ SHAPE JK SHAPE JL SHAPE JM SHAPE JN SHAPE JO SHAPE JP SHAPE JQ SHAPE JR SHAPE JS SHAPE JT SHAPE JU SHAPE JV SHAPE JW SHAPE JX SHAPE JY SHAPE JZ SHAPE KA SHAPE KB SHAPE KC SHAPE KD SHAPE KE SHAPE KF SHAPE KG SHAPE KH SHAPE KI SHAPE KJ SHAPE KK SHAPE KL SHAPE KM SHAPE KN SHAPE KO SHAPE KP SHAPE KQ SHAPE KR SHAPE KS SHAPE KT SHAPE KU SHAPE KV SHAPE KW SHAPE KX SHAPE KY SHAPE KZ SHAPE LA SHAPE LB SHAPE LC SHAPE LD SHAPE LE SHAPE LF SHAPE LG SHAPE LH SHAPE LI SHAPE LJ SHAPE LK SHAPE LL SHAPE LM SHAPE LN SHAPE LO SHAPE LP SHAPE LQ SHAPE LR SHAPE LS SHAPE LT SHAPE LU SHAPE LV SHAPE LW SHAPE LX SHAPE LY SHAPE LZ SHAPE MA SHAPE MB SHAPE MC SHAPE MD SHAPE ME SHAPE MF SHAPE MG SHAPE MH SHAPE MI SHAPE MJ SHAPE MK SHAPE ML SHAPE MM SHAPE MN SHAPE MO SHAPE MP SHAPE MQ SHAPE MR SHAPE MS SHAPE MT SHAPE MU SHAPE MV SHAPE MW SHAPE MX SHAPE MY SHAPE MZ SHAPE NA SHAPE NB SHAPE NC SHAPE ND SHAPE NE SHAPE NF SHAPE NG SHAPE NH SHAPE NI SHAPE NJ SHAPE NK SHAPE NL SHAPE NM SHAPE NN SHAPE NO SHAPE NP SHAPE NQ SHAPE NR SHAPE NS SHAPE NT SHAPE NU SHAPE NV SHAPE NW SHAPE NX SHAPE NY SHAPE NZ SHAPE OA SHAPE OB SHAPE OC SHAPE OD SHAPE OE SHAPE OF SHAPE OG SHAPE OH SHAPE OI SHAPE OJ SHAPE OK SHAPE OL SHAPE OM SHAPE ON SHAPE OO SHAPE OP SHAPE OQ SHAPE OR SHAPE OS SHAPE OT SHAPE OU SHAPE OV SHAPE OW SHAPE OX SHAPE OY SHAPE OZ SHAPE PA SHAPE PB SHAPE PC SHAPE PD SHAPE PE SHAPE PF SHAPE PG SHAPE PH SHAPE PI SHAPE PJ SHAPE PK SHAPE PL SHAPE PM SHAPE PN SHAPE PO SHAPE PP SHAPE PQ SHAPE PR SHAPE PS SHAPE PT SHAPE PU SHAPE PV SHAPE PW SHAPE PX SHAPE PY SHAPE PZ SHAPE QA SHAPE QB SHAPE QC SHAPE QD SHAPE QE SHAPE QF SHAPE QG SHAPE QH SHAPE QI SHAPE QJ SHAPE QK SHAPE QL SHAPE QM SHAPE QN SHAPE QO SHAPE QP SHAPE QQ SHAPE QR SHAPE QS SHAPE QT SHAPE QU SHAPE QV SHAPE QW SHAPE QX SHAPE QY SHAPE QZ SHAPE RA SHAPE RB SHAPE RC SHAPE RD SHAPE RE SHAPE RF SHAPE RG SHAPE RH SHAPE RI SHAPE RJ SHAPE RK SHAPE RL SHAPE RM SHAPE RN SHAPE RO SHAPE RP SHAPE RQ SHAPE RR SHAPE RS SHAPE RT SHAPE RU SHAPE RV SHAPE RW SHAPE RX SHAPE RY SHAPE RZ SHAPE SA SHAPE SB SHAPE SC SHAPE SD SHAPE SE SHAPE SF SHAPE SG SHAPE SH SHAPE SI SHAPE SJ SHAPE SK SHAPE SL SHAPE SM SHAPE SN SHAPE SO SHAPE SP SHAPE SQ SHAPE SR SHAPE SS SHAPE ST SHAPE SU SHAPE SV SHAPE SW SHAPE SX SHAPE SY SHAPE SZ SHAPE TA SHAPE TB SHAPE TC SHAPE TD SHAPE TE SHAPE TF SHAPE TG SHAPE TH SHAPE TI SHAPE TJ SHAPE TK SHAPE TL SHAPE TM SHAPE TN SHAPE TO SHAPE TP SHAPE TQ SHAPE TR SHAPE TS SHAPE TT SHAPE TU SHAPE TV SHAPE TW SHAPE TX SHAPE TY SHAPE TZ SHAPE UA SHAPE UB SHAPE UC SHAPE UD SHAPE UE SHAPE UF SHAPE UG SHAPE UH SHAPE UI SHAPE UJ SHAPE UK SHAPE UL SHAPE UM SHAPE UN SHAPE UO SHAPE UP SHAPE UQ SHAPE UR SHAPE US SHAPE UT SHAPE UV SHAPE UW SHAPE UX SHAPE UY SHAPE UZ SHAPE VA SHAPE VB SHAPE VC SHAPE VD SHAPE VE SHAPE VF SHAPE VG SHAPE VH SHAPE VI SHAPE VJ SHAPE VK SHAPE VL SHAPE VM SHAPE VN SHAPE VO SHAPE VP SHAPE VQ SHAPE VR SHAPE VS SHAPE VT SHAPE VU SHAPE VV SHAPE VW SHAPE VX SHAPE VY SHAPE VZ SHAPE WA SHAPE WB SHAPE WC SHAPE WD SHAPE WE SHAPE WF SHAPE WG SHAPE WH SHAPE WI SHAPE WJ SHAPE WK SHAPE WL SHAPE WM SHAPE WN SHAPE WO SHAPE WP SHAPE WQ SHAPE WR SHAPE WS SHAPE WT SHAPE WU SHAPE WV SHAPE WW SHAPE WX SHAPE WY SHAPE WZ SHAPE XA SHAPE XB SHAPE XC SHAPE XD SHAPE XE SHAPE XF SHAPE XG SHAPE XH SHAPE XI SHAPE XJ SHAPE XK SHAPE XL SHAPE XM SHAPE XN SHAPE XO SHAPE XP SHAPE XQ SHAPE XR SHAPE XS SHAPE XT SHAPE XU SHAPE XV SHAPE XW SHAPE XZ SHAPE YA SHAPE YB SHAPE YC SHAPE YD SHAPE YE SHAPE YF SHAPE YG SHAPE YH SHAPE YI SHAPE YJ SHAPE YK SHAPE YL SHAPE YM SHAPE YN SHAPE YO SHAPE YP SHAPE YQ SHAPE YR SHAPE YS SHAPE YT SHAPE YU SHAPE YV SHAPE YW SHAPE YX SHAPE YY SHAPE YZ SHAPE ZA SHAPE ZB SHAPE ZC SHAPE ZD SHAPE ZE SHAPE ZF SHAPE ZG SHAPE ZH SHAPE ZI SHAPE ZJ SHAPE ZK SHAPE ZL SHAPE ZM SHAPE ZN SHAPE ZO SHAPE ZP SHAPE ZQ SHAPE ZR SHAPE ZS SHAPE ZT SHAPE ZU SHAPE ZV SHAPE ZW SHAPE ZX SHAPE ZY SHAPE ZZ

* Tinned on the soldering surface only.
Due to continuing product improvement efforts, specifications and external appearance are subject to change without notice.
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The standard model for lead-free soldering
HAKKO FX-951 ESD SAFE
SOLDERING STATION



HAKKO's advanced lead-free soldering model added safe function and upgrading performance.

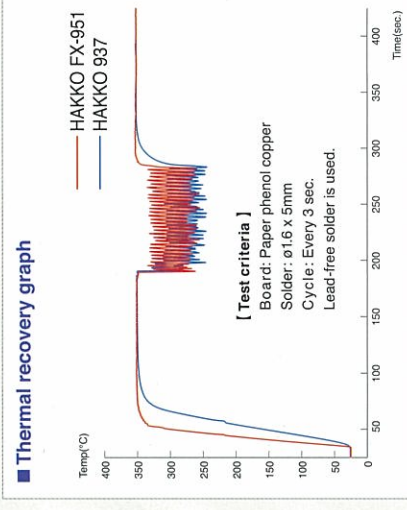


* Tip is an optional part.

Excellent thermal control

- Shows great thermal recovery and thermal accuracy

The composite tip combining heating element and sensor allows great thermal recovery and thermal accuracy.



User-friendly design

- Space-saving vertical design allows more space on the work bench.

The neat and compact design conforms to the work space more easily. Dimensions: 80(W) x 130 (H) x 131 (D) mm

- User-friendly iron holder

The angle can be adjusted to suit the individual working style.



The unit can be used with HAKKO 599B instead of a cleaning sponge.



HAKKO 599B
No water is required.

- Thermal control function

- The temperature setting can be locked with the control card.
- An alarm can be set to inform reaching the preset lower limit.
- The digital display makes it easier to offset the temperature.

- Safe design

- ESD safe by design.
- Various kinds of information by a buzzer or display.

No offset required

New series of tip for excellent temperature accuracy $\pm 15^{\circ}\text{C}$ without offset.



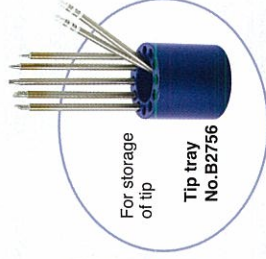
Sleeve assembly in 4-color

Yellow, blue, orange and green color sleeve assemblies are available. Workability increases if sleeves are changed according to the tip shape and job application.



Sleeve assembly (Lock-type/antibacterial)

Yellow : No. B32116
 Blue : No. B32119
 Orange : No. B32117
 Green : No. B32119



For storage of tip

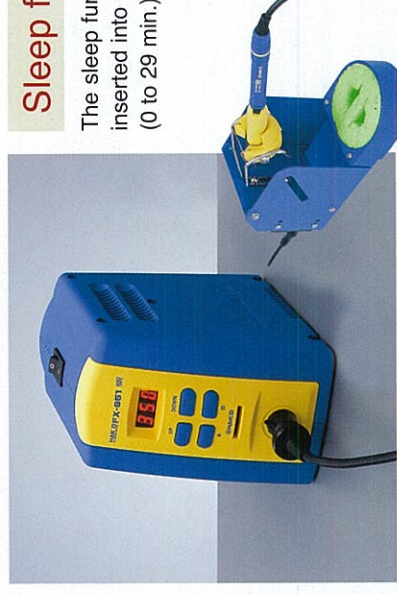
Tip tray No. B2756

Sleep function to minimize oxidation of tip

The sleep function operates while being linked to the iron holder. After the iron is inserted into the iron holder, the sleep function activates for an arbitrarily-set time (0 to 29 min.) and the tip temperature will decrease to 200°C .

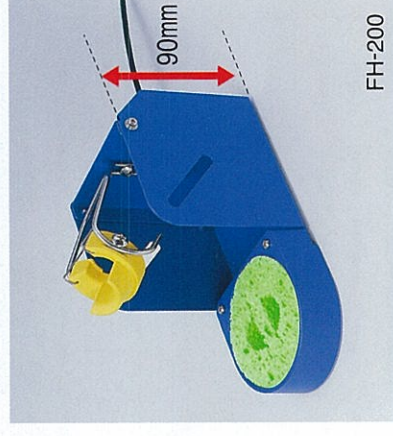
Auto power shut off function

The auto power shut off function operates while being linked to the iron holder. Auto power shut off activates 30 minutes after the iron is inserted into the iron holder.



Solder-splashing prevention

A higher side plate of the iron holder prevents solder from splashing when placing the tip.



Specifications

- HAKKO FX-951 IR soldering station

Power consumption	75W
Temperature range	200 - 450°C
Temperature stability	$\pm 5^{\circ}\text{C}$

- Station

Output	24V
Dimensions	80(W) x 130(H) x 131(D)mm
Weight	1.2kg

- HAKKO FM-2028 soldering iron

Power consumption	70W
Tip to ground resistance	$< 2\Omega$
Tip to ground potential	$< 2\text{mV}$
Length of cord	1.2m
Total Length (w/o cord)	188mm with 2.4D tip
Weight (w/o cord)	30g with 2.4D tip

NOTE : The temperature were measured using the HAKKO FG-100 thermometer.
 This product is protected against electrostatic discharge.

Packing List

Station	1
Iron (FM-2028)	1
Power cord	1
Iron holder (FH-200)	1
Control card	1
Connecting cable	1
Heat resistant pad	1

*Tip is an optional part.