

# Ultratorch® UT-100 & UT-100-TC

Butane-powered soldering iron, flameless heat tool and torch



## UT-100-TC

### Ultratorch Professional Kit:

Includes heat tool, 3 soldering tips, flameless hot air and open flame torch tips, hot knife, solder, wire cutter, needle nose pliers and cap in a rugged storage/carrying case

- Triple function soldering iron, flameless heat tool and brazing torch
- Features oxygen-free, copper based Ultratip® soldering tips, with thick iron and chrome plating for long life and high thermal conductivity
- Cordless and completely portable, ready-to-use in 30 seconds
- Adjustable temperature control
- Soldering temperature up to 932°F, ideal for use with today's lead-free solder
- Hot air temperature up to 1202°F, perfect for Solderseal™ environmental "heat and seal" connectors
- Torch temperatures up to 2372°F/1260°C
- Sturdy metal tank with fuel viewing window holds enough fuel for 2 hours of operation
- Refill with Master Ultratane Butane for best performance (page 29)
- Use to pinpoint heat, remove surface mount components, repair vinyl, heat shrink tubing, solder and desolder, spot dry, torch materials and more
- Optional accessories available and interchangeable between UT-100 & UT100Si (See page 21)



70-01-02 tip

70-01-55

70-35

70-01-52

70-07TU

## UT-100

### Ultratorch



Solder



Flameless Heat



Torch



MODEL NO.	DESCRIPTION
UT-100-TC	Includes Ultratorch, three Ultratip soldering tips: 70-01-02, 70-01-05, 70-01-11, hot air tip: 70-01-52, shrink attachment: 70-01-55, hot knife: 70-01-16, torch ejector 70-07TU, open end wrench, ejector, sponge, cap, solder, wire cutter and needle nose pliers packed in a rugged plastic carrying case
UT-100	Includes Ultratorch, Ultratip soldering tip: 70-01-02, hot air tip: 70-01-52, shrink attachment: 70-01-55, torch ejector 70-07TU, open end wrench, ejector, sponge and steel case

See page 21 for more tips & accessories.

### Specifications

- Approx. Soldering Tip Temp.: 392° - 932°F (200° - 500°C)
- Approx. Hot Air Tip Temp.: 1112°F (600°C) ■ Approx. Torch Tip Temp. 2372°F (1260°C) ■ Equivalent to Electric Iron: 20 to 80 Watt ■ Approx. Operating Time: 120 min. ■ Fuel Tank Capacity: 1 fl. oz. (28 cc)
- Tool dimensions: 9.5" L (242mm) ■ Tool Net Weight: 3.7 oz.
- UT-100 Shipping Weight: 1 lb. ■ UT-100-TC Shipping Weight: 3 lbs.
- Shipped Empty

NOTE: Users should independently evaluate the suitability of the product for their application.

# Ultratorch® UT-100 & UT-100Si Tips and Accessories

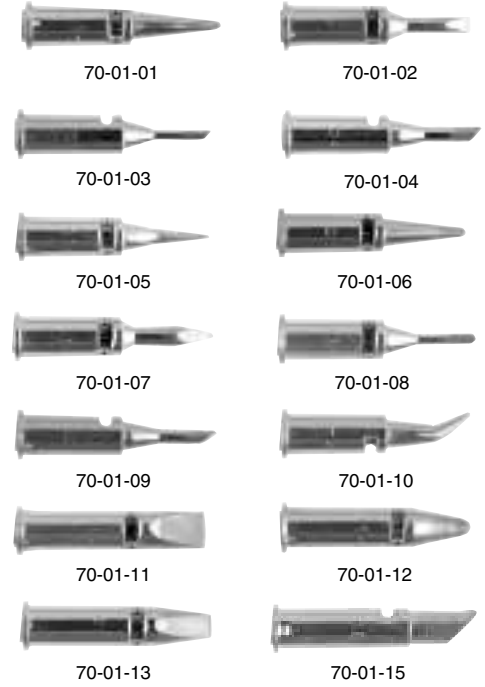
## Ultratip® soldering tips for use with UT-100 & UT-100Si Ultratorches

- Oxygen-free, copper based Ultratip® soldering tips have thick iron and chrome plating for long life and high thermal conductivity
- Ultratips are manufactured using a patented process which produces uniform iron and chrome plating thickness
- Ultratip® soldering tips feature leading-edge combustion chamber/exhaust port design
- All tips pre-tinned with lead-free solder
- Optional tips interchangeable between all UT-100 & UT-100Si models

PART NO.	DESCRIPTION
	<b>ULTRATIP SOLDERING TIPS</b>
70-01-01	1mm dia. tapered needle soldering tip
70-01-02	3.3mm dia. chisel soldering tip (std., all models)
70-01-03	2mm dia. spade soldering tip
70-01-04	3mm dia. spade soldering tip
70-01-05	0.5mm dia. tapered needle soldering tip (std. UT-100-TC, UT-100Si-TC)
70-01-06	2mm dia. micro spade soldering tip
70-01-07	0.5mm dia. square tapered pyramid soldering tip
70-01-08	2mm dia. 35° spade soldering tip
70-01-09	3mm dia. 35° spade soldering tip
70-01-10	1mm dia. offset tapered needle soldering tip
70-01-11	8mm dia. high powered chisel soldering tip (std., UT-100-TC, UT-100Si-TC)
70-01-12	3mm dia. high powered round head needle tip
70-01-13	.5mm dia. high powered long tapered chisel tip
70-01-15	7mm dia. 45° spade soldering tip
	<b>HOT KNIFE TIP</b>
70-01-16	Hot knife tip (std. UT-100-TC, UT-100Si-TC, UT-100SiHK)
	<b>HOT AIR TIPS</b>
70-01-50	2.5 O.D./1.59 I.D. (mm) hot air tip
70-01-51	4.25 O.D./3.3 I.D. (mm) hot air tip
70-01-52	5.7 O.D./4.9 I.D. (mm) hot air tip (std. all models)
70-01-53	8.0 O.D./6.9 I.D. (mm) hot air tip
	<b>ACCESSORIES</b>
70-01-54	.75"/19mm dia., .825"/22.2mm wide heat shrink attachment
70-01-55	.5"/12.7mm dia., .75"/19mm wide heat shrink attachment (std. all models)
70-02	Protective cap (std. UT-100, UT-100-TC)
70-07TU	Ejector, torch (std. UT-100, UT-100-TC)
70-35	Ejector spanner wrench
70-37U	Tip cleaner sponge (std. with UT-100, UT-100SiK)
70-40U	Metal storage box (std. with UT-100, UT-100SiK)
70-43	Tool holder (std. with UT-100, UT-100SiK)
70-52U	Carrying strap
90-02	Protective cap (std. UT-100Si, UT-100Si-TC)
80-40	Open end wrench (std. UT-100Si, UT-100SiK and UT-100Si-TC)
	<b>ADAPTER</b>
70-01-14	8.4 tip adapter (4mm dia. x .7 pitchmm)

NOTE: Users should independently evaluate the suitability of the product for their application.

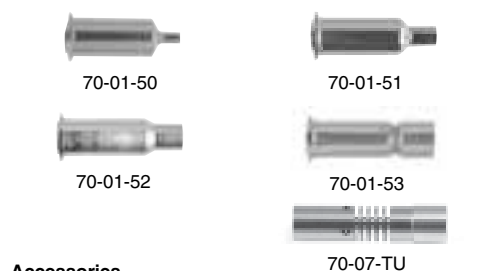
### Soldering Tips



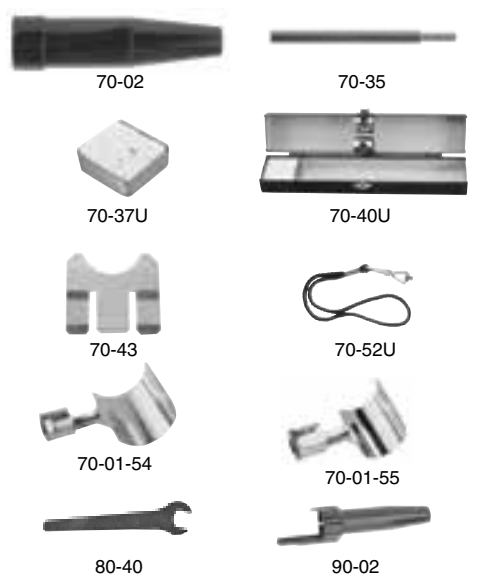
### Hot Knife Tip



### Hot Air Tips



### Accessories



# High Performance Ultratip® Technology

Longer tip life, superior thermal conductivity

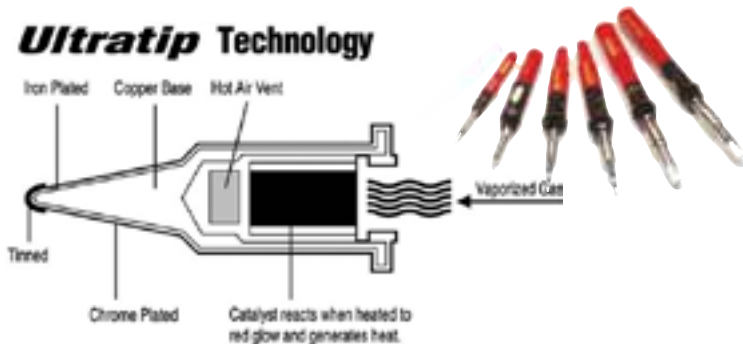
Master Appliance Ultratorch® heat tools feature Ultratip® soldering tips. Ultratip is the long lasting, oxygen-free, copper based, iron and chrome plated soldering tip with a built-in catalyst, tinned with lead-free solder.

Ultratorch heat tools, with Ultratip Technology, are perfect for use with today's lead-free solders. In fact, Ultratip soldering tips have more than double the iron and chrome plating thickness of our competitors' brass based tips, providing higher thermal conductivity and much longer tip life.

## Tips for Lead-Free Hand Soldering

Because hand soldering tends to be done at the end of the line, where the value of a board is at its highest, switching to lead-free solder may have a significant effect on your manufacturing yields, costs and productivity. Simply increasing tip temperature is not the answer because it can cause flux to evaporate before it's had time to activate.

The keys to success here are tip material, tip shape, tip condition, the soldering iron's power output and it's time on the joint.



By choosing the tip shape closest to the component you're soldering, and always selecting the largest tip, you'll transfer heat more efficiently at lower settings. We offer a wide selection of tips for your applications.

Since lead-free solder's higher tin content erodes the tip's iron plating faster, Ultratip's thicker iron and chrome plating will significantly extend the tip life. Cleaning your tips often and immediately re-tinning them will also keep them in top condition longer.