

# Antex

## Soldering Irons and Stations



- Precision Miniature Soldering Irons
- Standard Size Soldering Irons
- Temperature Control Stations
- Accessories

**M.M. NEWMAN**  
CORPORATION



## Antex Soldering Irons

### Versatile

The Antex product line is designed for all electronic and industrial assembly and field service soldering. Each iron features a heating element directly under the tip for optimum thermal efficiency. Putting the power right where you need it, there are several different models and more than 50 special tips available that slide-on directly over the heating element.

### Efficient

Antex Soldering Irons put the heat into the tip, not into the environment. This gives you faster heat up, quicker recovery times and a cooler handle. It takes only 45 seconds to be ready to solder, while most other irons require a full 2-5 minutes. We've also shortened the distance from your fingertips to the end of the tip to give you greater control and soldering accuracy.

### Powerful

Antex Soldering Irons are powerful. Wattage does not indicate the heating capability of these irons, because each heating element is directly under the tip. For example, our 18 Watt Model "G" is about as powerful as a conventional 30 Watt iron, but is much lighter and easier to handle. Each heating element is built to be long lasting under continuous or intermittent use.

Where it is desirable to lower the operating temperature of these soldering irons, use the Dial-Temp Temperature Controller. See page 12 for details.





# Miniature Soldering Irons

Dimensions	
Overall Length	8"
Handle Length	2 3/4"
Shaft & Tip Length	3"
Shaft Diameter	.135"

Note: Dimensions of Models M, C, and G are all the same

Model M  
12 Watts 115 VAC



Shown with  
series 140 N0.9-I tip

- Tip temperature: 600° to 650°F (316° to 343°C).
- **Type M/3U** has a 3-wire grounded ultra-flexible cord with a 3-prong molded plug.
- **Type M/2** has a 2-wire cord and a 2-prong molded plug (not grounded).
- Ideal for miniature electronic prototype soldering and rework with heat-sensitive components.

Model C  
15 Watts 115 VAC



Shown with  
series 140 N0.6-IC tip

- Tip temperature: 665° to 700°F (343° to 371°C).
- **Type C/3U** has a 3-wire grounded ultra-flexible cord with a 3-prong molded plug.
- **Type C/2** has a 2-wire cord and a 2-prong molded plug (not grounded).
- Ideal for precision electronic prototype, rework and assembly operations where more heat is required.

Model G  
18 Watts 115 VAC



Shown with  
series 140 N0.6-IC tip

- Tip temperature: 700° to 750°F (371° to 399°C).
- **Type G/3U** has a 3-wire grounded ultra-flexible cord with a 3-prong molded plug.
- **Type G/2** has a 2-wire cord and a 2-prong molded plug (not grounded).
- This is the heaviest duty, highest wattage miniature soldering iron available today and puts out as much power as a conventional 30 Watt iron, but is much lighter and easier to handle.

Note: Tips are sold separately from soldering irons. The proper tip depends upon your application. M.M. Newman Corporation offers a large selection of tips featured on the next page.









## Series 140 Tips

for Models M, C, G and TC25 Miniature Soldering Irons

These tips are made from a special copper alloy, giving them maximum strength at high temperatures and maximum heat conductivity for rapid heat up and recovery times. Featuring multilayer construction, they have a nickel plating for easy wetting and a long shelf life.

We also offer premium iron plated tips for extra long life. Iron plating protects the copper from the solder and then the entire tip is nickel plated. Pre-tinned, gold plated, reshapeable, nickel plated and bare copper tips are also available.


All of our tips easily slide-on over the heating element. There are no set screws to freeze or threads to bind. To change tips, simply remove your old tip and slide the new one on.

Tip Diameter	Catalog Number	Plating	Illustration of Tip (not shown to actual size)	Tip Shape
No. 6 <b>3/64"</b> (.043"/1.1mm)	6-IS 6-NS 6-G	Iron Nickel Gold		Spade
	6-IC 6-NC	Iron Nickel		Chisel
No. 46 <b>1/16"</b> (.063"/1.5mm)	46-IS 46-NS	Iron Nickel		Spade
	46-IC 46-NC	Iron Nickel		Chisel
No. 56 <b>5/64"</b> (.078"/1.9mm)	56-IS 56-NS	Iron Nickel		Spade
	56-IC 56-NC	Iron Nickel		Chisel
	56-3-IS	Iron		Spade-stubby length
	56-3-IC	Iron		Chisel-stubby length

Note: Tips are sold separately from soldering irons.





Tip Diameter	Catalog Number	Plating	Illustration of Tip (not shown to actual size)	Tip Shape
No. 8 .31mm (tapered to .012)	8-I 8-X 8-G	Iron Unplated Gold		Needle
No. 9 .31mm (tapered to .012)	9-I 9-X	Iron Unplated		Stubby needle
No. 20 .51mm (tapered to .020)	20-I	Iron		Cone with .035" flat
No. 2 3/32" (.094"/2.3mm)	2-IS 2-NS	Iron Nickel		Spade
	2-IC 2-NC 2-G	Iron Nickel Gold		Chisel
	2-NP	Nickel		Pyramid
No. 86 1/8" (.125"/3.1mm)	86-IS	Iron		Spade
	86-IC 86-NC	Iron Nickel		Chisel
No. 3 5/32" (.156"/3.9mm)	3-IS 3-NS	Iron Nickel		Spade
No. 4 3/16" (.187"/4.7mm)	4-NS	Nickel		Spade
.187" Wide x .060" 3/16"/4.75mm	4-HK	Nickel		Hot Knife

Dimensions are before plating. For Iron Plated tips, add .010" to the tip diameter. If you don't find the tip you need here, give us a call. We're in business to make you more productive.

Note: Tips are sold separately from soldering irons.



## Standard Size Soldering Irons

Featuring superior thermal efficiency, these irons have a comfortable finger support to get you close to the work for improved soldering control. Their larger handles and bigger tips, which have more copper and, therefore, greater thermal inertia, make them ideal for soldering larger components.

Dimensions			
	CS	XS	TCS
Overall Length	9 ¼"	10"	10 ¾"
Handle Length	4"	4 ¼"	5 ½"
Shaft and Tip Length	3"	3"	3"
Shaft Diameter	.178"	.178"	.178"

Model CS

17 Watts 115 VAC



Shown with  
series 180 N0.181-IC tip

- Tip temperature: 700° to 750°F (371° to 399°C)
- Heating element shaft diameter: .178"
- This lightweight and perfectly balanced soldering iron is as powerful as a conventional 35 Watt iron but easier to handle

Model XS

25 Watts 115 VAC



Shown with  
series 50 N0.52-IC tip

- Tip temperature: 750° to 800°F (399° to 427° C)
- Heating element shaft diameter: .178"
- This soldering iron provides the same heating capacity as a conventional 40 Watt iron for working with large components

Note: Tips are sold separately from soldering irons.



**Model TCS**  
50 Watts 115 VAC



Shown with  
series 180 N0.181-IS tip

- Tip temperature adjusts from 390° to 850°F (200° to 450°C)
- Controlled in 50°C increments
- Temperature stability is  $\pm 2^{\circ}\text{C}$  idling and  $\pm 1\%$  in typical use
- Heating element shaft diameter: .178"
- Features in-handle positive feedback temperature control
- Easy to adjust using a small screwdriver. Heats up to 650°F in a minute or less with rapid recovery times. Zero voltage switching eliminates the potential for damage to sensitive electronic components
- Ideal for use by field service technicians and other situations where temperature control is desirable, but separate soldering station is not convenient

Note: Tips are sold separately from soldering irons.



## Series 180 Tips

for Models CS, TCS, SD, and TC50 Standard Soldering Irons

These tips are designed for .178" heating element shafts. Like our Series 140 Tips, they are made from a special copper alloy, giving them the maximum strength at high temperatures and maximum heat conductivity for rapid heat up and recovery times. Featuring multi-layer construction, they are also nickel plated for easy wetting and a long shelf life. For applications demanding extended tip wear, iron plated tips are available.

These tips have more copper and, therefore, greater thermal inertia. Easy to use, they slide-on directly over the heating element. To change tips, simply remove your old tip and slide the new one on.

Tip Diameter	Catalog Number	Plating	Illustration of Tip (not shown to actual size)	Tip Shape
Less than .025"	184-X	Bare Copper		Fine Needle Point
1/40" (.025"/.63mm)	185-I	Iron		Needle Point
3/64" (.0469"/1.2mm)	186-IC	Iron		Chisel
3/64" (.0469"/1.2mm)	186-IS	Iron		Spade
3/32" (.0937"/2.3mm)	180-IC	Iron		Chisel
3/32" (.0937"/2.3mm)	180-IS	Iron		Spade
1/8" (.1250"/3.1mm)	181-IC	Iron		Chisel
1/8" (.1250"/3.1mm)	181-IS	Iron		Spade
3/16" (.1875"/4.7mm)	182-IC	Iron		Chisel
3/16" (.1875"/4.7mm)	182-IS	Iron		Spade
1/4" (.2500"/6.3mm)	183-IC	Iron		Chisel
1/4" (.2500"/6.3mm)	183-IS	Iron		Spade



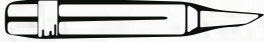
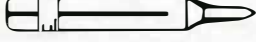

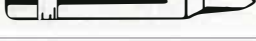





## Series 50 Tips

Heavy Wall Tips for Model XS Standard Soldering Iron and MLXS-12

These tips have the same features as our Series 180 Tips but have even heavier walls for extra heavy-duty soldering applications.

Tip Diameter	Catalog Number	Plating	Illustration of Tip (not shown to actual size)	Tip Shape
1/50" (.020"/.51mm)	55-I	Iron		Needle Point
3/32" (.0937"/2.3mm)	50-IC	Iron		Chisel
3/32" (.0937"/2.3mm)	50-IS	Iron		Spade
1/8" (.1250"/3.1mm)	51-IC	Iron		Chisel
1/8" (.1250"/3.1mm)	51-IS	Iron		Spade
3/16" (.1875"/4.7mm)	52-IC	Iron		Chisel
3/16" (.1875"/4.7mm)	52-IS	Iron		Spade

Dimensions are before plating. For Iron Plated tips, add .010" to the tip diameter. If you don't find the tip you need here, give us a call. We're in business to make you more productive.

Note: Tips are sold separately from soldering irons.





## Soldering Stations

### 660A Soldering Station - Analogue

Max Power 60W

Temperature Range 200 - 450°C

Temperature Stability  $\pm 2^{\circ}\text{C}$  No load

Input Voltage / frequency 115V / 50Hz

Output Voltage 24V

Temp rise time (20-350°C) 55 seconds

Weight 2.5Kg

Dimensions 160 x 95 x 141mm



#### Features

- Analogue temperature control
- Suitable for lead free soldering
- Full range of spare tips sold separately
- Sensor close to tip for fast temperature feedback
- Digital temperature calibration

#### Included in the set

- Controller
- TC25A or TC50A soldering iron
- ST6a soldering iron stand

Note: Tips are sold separately from soldering irons.





### 690D Soldering Station - Digital

Max Power 60W

Temperature Range 200 - 450°C

Temperature Stability  $\pm 2^{\circ}\text{C}$  No load

Input Voltage / frequency 115V / 50Hz

Output Voltage 24V

Temp rise time (20-350°C) 55 seconds

Weight 2.5Kg

Dimensions 160 x 95 x 141mm



#### Features

- Digital temperature control
- Suitable for lead free soldering
- Full range of spare tips sold separately
- Sensor close to tip for fast temperature feedback
- Digital temperature calibration

#### Included in the set

- Controller
- TC25A or TC50A soldering iron
- ST6a soldering iron stand

Note: Tips are sold separately from soldering irons.



### Model MLXS 12 Volt Auto Repair Kit (and Marine, too)

This industrial-grade soldering iron can be operated from any automotive or marine type 12 Volt battery. Simple to use, it comes with a long 15-ft. cord with alligator clips to connect to your battery terminals. Always ready for emergency repairs, the iron will heat up to 800°F in under 2 minutes. The kit includes soldering instructions and a supply of solder all packed into a handy carrying pouch that will fit into a glove box or tool kit.



### Dial-Temp Soldering Iron Controller

Compatible with any soldering iron ranging from 15 to 1600 Watts, Dial-Temp is ideal for precision electronic assembly work on heat-sensitive components. Equipped with a 3-prong plug and receptacle, just plug it into any AC outlet and then plug in the soldering iron. Set the dial on top until you reach the desired temperature and you're ready for soldering.

- Adjusts tip temperature from 150°F to full heat
- Operates with any fixed temperature soldering iron
- Plugs into any 115 VAC wall outlet



Note: Tips are sold separately from soldering irons.





## Soldering Iron Stands

### Model SP-1



This sponge tray is made of non-charring plastic and comes with a generous size sponge to wipe your tip. There is a center hold to collect excess dross.

### Model ST-4



This stand features a spring holder that accepts all miniature soldering irons and provides sufficient air flow to rapidly dissipate heat. Mounted in a non-charring plastic sponge tray with a generous size sponge and center hole to collect excess dross, it has knockout holes for permanent mounting.

### Model ST-6



Like our other stands, the Model ST-6 is made of non-charring plastic and has a generous size sponge with a center hole for collecting excess dross. A metal base plate provides added stability and has holes for permanent mounting to a bench. Featuring a special storage area molded into the base for four individual soldering iron tips, it comes with an extra bezel for accommodating a wide variety of different soldering irons.

Note: Tips are sold separately from soldering irons.

