



INTELLIHEAT COMPATIBLE HANDPIECES

TIP-HEATER CARTRIDGE HANDPIECES

PERFECT FOR LEAD FREE

TD-100 THERMO-DRIVE® SOLDERING IRON



The **TD-100 Thermo-Drive®** Soldering Iron is the only iron crafted by a team of surgical instrument engineers and is uniquely designed to eliminate operator fatigue, improve control and enhance productivity in demanding soldering applications. The TD-100 uses a patented Tip-Heater Cartridge that is the best performing and lowest priced Tip-Heater Cartridge on the market today! Almost 100 soldering tip geometries are available as well as over 30 surface mount removal tips.

See Pages 18-21 for tip selection.



Shown with optional
comfort grip 6993-0241-P1

MT-100 MINITWEEZ™



The only high capacity, micro tweezer (**MT-100 MiniTweez™**) on the market today features soft comfort grips, the smallest stroke available, and its tweezing action mimics the natural motion of the human hand to eliminate hand fatigue. With 10 styles of component removal tips available the MT-100 is one of the most versatile component removal tweezers and our tips cost less than half of our competitors! **See Page 22** for tip selection.



THERMOPIK® 100



The newest tool for SMT component removal the **ThermoPik® 100**. The TP-100 is designed to reflow and remove QFPs in seconds. The integrated vacuum pik lifts the component from the PCB upon reflow. Based on our unique MT-100 handpiece, there isn't another SMT removal tool that is more comfortable in your hand. Over 10 styles of tips are available. **See Page 22** for tip selection.





HANDPIECE & POWER SOURCE CHARTS

Part Number includes handpiece and standard cubby

HANDPIECE	DESCRIPTION	PART NUMBERS
TD-100 Thermo-Drive Iron	The most responsive soldering iron available. Uses tip-heater cartridges.	6993-0263-P1
TD-100 N	A nitrogen compatible version of the TD-100. Requires 6993-0271-P1.	6993-0272-P1
TD-100 with Instant SetBack Cubby	A kit containing the TD-100 and Instant SetBack Cubby	6993-0281-P1
MT-100 MiniTweez	Tip-heater cartridge based tweezer for 2 sided SMD removal.	6993-0264-P1
TP-100 ThermoPik	QFP removal tool with integrated component vacuum pick to lift reflowed component.	6993-0280-P1
PS-90 Universal Soldering Iron	Our famous High Capacity Soldering Iron for the most demanding applications.	6993-0267-P1
PS-90 N	A nitrogen compatible version of the PS-90.	6993-0274-P1
SX-90 Sodr-X-Tractor	The latest innovation in desoldering. Features disposable or reuseable solder traps.	6993-0266-P1
TT-65 ThermoTweez	High capacity tweezer for large or small SMDs.	6993-0268-P1
TJ-85 ThermoJet	A foot-pedal activated precision air pencil for the installation or removal of SMDs.	6993-0270-P1
SX-90 Heat Sleeve	Maintains comfortable temperature in heavy use applications.	6993-0229-P1
Instant Setback Cubby for TD-100*	Reduces tip temperature when iron is not in use.	6019-0071-P1
Nitrogen Regulator Accessory	Controls the flow of nitrogen to tip.	6993-0271-P1
N ₂ Manifold Kit	Connect up to 10 N ₂ irons to a single N ₂ source.	6993-0277-P1

* Does not include Handpiece

CHOOSE THE RIGHT INTELLIHEAT HANDPIECE FOR YOUR APPLICATION

	Tip Heater Cartridge Technology Handpieces			SensaTemp Technology Handpieces			
	TD-100	MT-100	TP-100	PS-90	SX-90	TT-65	TJ-85
Handpiece Kits (includes handpiece and tool stand)	6993-0263-P1 6993-0281-P1	6993-0264-P1	6993-0280-P1	6993-0267-P1	6993-0266-P1	6993-0268-P1	6993-0270-P1
Handpiece Only Part Number	6010-0147-P1	6010-0148-P1	6010-0158-P1	6010-0150-P1	6010-0149-P1	6010-0151-P1	6010-0153-P1
High Cycle Soldering	✓			✓			
Standard Soldering	✓			✓			
High Mass Soldering				✓			
Micro Soldering	✓						
Chip Installation	✓	✓		✓		✓	✓
Solder Wicking	✓			✓			✓
Thru-Hole Desoldering					✓		
SMT Land Preparation	✓			✓	✓		✓
Solder Removal from Lands					✓		
Large SMD Removal			✓			✓	
Standard SMD Removal	✓	✓	✓	✓		✓	
Micro SMD Removal	✓	✓		✓		✓	✓
Large Component Installations*	✓			✓			✓
Standard Component Installations*	✓			✓			✓
Micro Component Installations*	✓			✓			✓

*with Solder Paste

INTELLIHEAT POWER SOURCE & HANDPIECE COMPATABILITY

& HANDPIECE COMPATABILITY	Power Source Options - ST and MBT Systems								
TIP-HEATER CARTRIDGE HANDPIECES	ST 30	ST 50	ST 65	ST 70	ST 75	ST 100	ST 115	MBT 301	MBT 350
• TD-100	★	★	✓	★	✓	★	✓	★	★
• MT-100	✓	✓	✓	✓	✓	✓	✓	✓	★
• TP-100			✓		✓		✓	✓	✓
SENSATEMP HANDPIECES	ST 30	ST 50	ST 65	ST 70	ST 75	ST 100	ST 115	MBT 301	MBT 350
• PS-90	✓	✓	✓	✓	✓	✓	✓	✓	✓
• SX-90			★		★		★	★	★
• TT-65	✓	✓	✓	✓	✓	✓	✓	✓	✓
• TJ-85					✓		✓	✓	✓

✓ = Optional Handpiece

★ = Standard handpiece packaged with System

MT-100 AND TP-100 SMT REMOVAL TIPS

TIP SPECIFICATIONS

MT-100 TIPS

TIP - CHIP/SOT REMOVAL	COMPONENT TYPE	SIZE - A	SIZE - B	PART NUMBER
(fig.A) (fig.B) (fig.C)	Chip (fig.A)	0.2mm (.008")	0.2mm (.008")	1124-1001-P1
	Chip, SOT (fig.B)	0.7mm (.03")	0.5mm (.03")	1124-1002-P1
	Chip, SOT (fig.B)	0.7mm (.03")	1mm (.04")	1124-1003-P1
	Chip, SOT (fig.B)	0.7mm (.03")	2mm (.08")	1124-1004-P1
	SOIC, SOT, TSOPS (fig.C)	0.7mm (.03")	6mm (.24")	1124-1005-P1
	SOIC, SOT, TSOPS (fig.C)	0.7mm (.03")	8mm (.31")	1124-1006-P1
	SOIC, SOT, TSOPS (fig.C)	0.7mm (.03")	10mm (.39")	1124-1007-P1
	SOIC, SOT, TSOPS (fig.C)	0.7mm (.03")	13mm (.51")	1124-1008-P1
	SOIC, SOT, TSOPS (fig.C)	0.7mm (.03")	18mm (.74")	1124-1009-P1
	SOIC, SOT, TSOPS (fig.C)	0.7mm (.03")	28mm (1.09")	1124-1010-P1
	SOIC, SOT, TSOPS (fig.C)	0.7mm (.03")	28mm (1.09")	1124-1010-P1

TP-100 TIPS

TIPS	TYPE	LEAD COUNT	SIZE - A	SIZE - B	COMPONENT HEIGHT	COMPONENT FOOTPRINT	PART NUMBER
	LQFP/TQFP	80	12mm (.472")	12mm (.472")	1.4mm	2.0mm	1124-2001-P1
	LQFP/TQFP	64, 80, 100, 120, 128, 168	14mm (.551")	14mm (.551")	1.4mm	2.0mm	1124-2002-P1
	LQFP/TQFP	128, 144, 160, 176	20mm (.788")	20mm (.788")	1.4mm	2.0mm	1124-2003-P1
	LQFP/TQFP	176, 216	24mm (.945")	24mm (.945")	1.4mm	2.0mm	1124-2004-P1
	LQFP/TQFP	208, 256	28mm (1.10")	28mm (1.10")	1.4mm	2.0mm	1124-2005-P1
	QFP	52, 64, 80, 100	14mm (.551")	14mm (.551")	2.7mm	3.2mm	1124-2006-P1
	QFP	52, 64, 80, 100	14mm (.551")	14mm (.551")	2.7mm	3.9mm	1124-2007-P1
	QFP	64, 80, 100, 128	14mm (.551")	20mm (.788")	2.7mm	3.2mm	1124-2008-P1
	QFP	64, 80, 100, 128	14mm (.551")	20mm (.788")	2.7mm	3.9mm	1124-2009-P1
	QFP	120, 128, 144, 160, 208	28mm (1.10")	28mm (1.10")	3.4mm	2.6/3.2mm	1124-2010-P1
	QFP	160	28mm (1.10")	28mm (1.10")	3.4mm	3.9mm	1124-2011-P1