Simple and easy to use for rework technicians or operators on the line.

MBT **301**

The MBT 301 is a multi-technology system with two, individually controlled, universal handpiece channels. The system features a two-line back lit LCD display. The programmable features include: password protection from unauthorized changes, a user definable temperature operating range, and "SetBack" & "Auto-Off" functions to preserve tip life. To protect your more expensive tip-heater cartridge and fine point soldering tips from oxidation, the TD-100 can be used with the optional "Instant-SetBack Cubby". The cubby puts the iron's channel into setback if it is idle in the cubby for more than 45 seconds! One Instant SetBack Cubby can be connected to the MBT 301.

The new dual purpose vacuum/pressure pump and delivery system featuring PACE's patented SNAP-VAC Technology, provides the most vacuum available for desoldering applications. When used with an air pencil, the high resolution, pressure control valve allows for precise adjustment when working on the smallest components such as 0201's.

Specifications	MBT 301	MBT 350	MBT 301 E	MBT 350 E
Kit with Handpieces Part Numbers:	8007-0478 (TD-100 & SX-100)	8007-0454 (TD-100, MT-100 & SX-100)	8007-0479 (TD-100 & SX-100)	8007-0455 (TD-100, MT-100 & SX-100)
Power Source Only Part Numbers:	8007-0480	8007-0452	8007-0481	8007-0453
Power Requirements	120 VAC, 60 Hz (240 watts maximum)		230 VAC, 50 Hz (240 watts maximum)	
IntelliHeat® Compatibilty	IntelliHeat® Handpieces with Tip Heater Cartridge or SensaTemp® Technology			
Dimensions	135mm (5.3") **H** x 165mm (6.5") **W** x 260mm (9.25") **D**			
Weight	5 Kgs (11 lbs.)			
Tip to Ground Resistance	< 2 Ohms			
Temperature Stabililty	± 1.1°C (2°F)			
Temperature Accuracy	Meets or exceeds ANSI J Std 001			
Set Temp Range	37-482°C (100-900°F) SensaTemp® 205-454°C (400-850°F) tip Heater Cartridge			
Vacuum Rise Time	150 ms Average as measured with PACE Process Monitor			
Vacuum	20 in Hg max			
Pressure	18 p.s.i. max			
Air Flow	8 SLPM max			

Handpiece & Power Source **Charts**

Handpieces

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
TJ-70 ThermoJet	Provides focused hot air for component installation and SMT land preparation.	6993-0206-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-100 Sodr-X-Tractor	The latest innovation in desoldering. Features disposable or reuseable solder traps.	6993-0266-P1
TJ-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-100 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.	6019-0084-P1
Nitrogen Regulator Assembly	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

Part Number includes handpiece and standard cubby * Does not include Handpiece.

Kits & Applications

Kits & Applications	Tip Heater Cartridge Technology Handpieces			SensaTemp® Technology Handpieces			
	TD-100	MT-100	TP-100	PS-90	SX-100	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

Compatibility

Power Source Options - ST and MBT Systems ✔ = Optional Handpiece ★ = Standard handpiece packaged with System										
Tip-Heater Cartridge Handpieces	WJS100	ST30	ST50	ST65	ST70	ST75	ST100	ST115	MBT 301	MBT 350
TD-100	★	★	★	✔	★	✔	★	✔	★	★
MT-100	✔	✔	✔	✔	✔	✔	✓	✔	✔	★
TP-100				✔		✔		✔	✔	✔
SensaTemp® Handpieces	WJS100	ST30	ST50	ST65	ST70	ST75	ST100	ST115	MBT 301	MBT 350
PS-90	★	✔	★	✔	✔	✔	✔	✔	✔	✔
SX-100				★		★		★	★	★
TT-65	✔	✔	✔	✔	✔	✔	✔	✔	✔	✔
TJ-85						✔		✔	✔	✔