

PROMATION

T400

T300

Robotic Soldering

TABLE TOP HOT IRON SOLDERING

The **TT** Series is a "feature rich" table top Hot Iron system that is designed for batch process soldering where quality and repeatability are critical. This series includes all of the necessary features for easy process set-up (intuitive control pendant, process viewing camera, simulation verification mode, and USB program storage/transfer), as well as a generous soldering area (**TT-400** 365 mm x 400 mm) and (**TT-300** 265 mm x 300 mm), dual tip cleaning station (sponge and air blow off), high speed precision gantry, 150 watt power supply with thermal feedback loop, auto solder feeder, and 64 bit microprocessor with 100 program storage capability on-board.

An optional fixture grind with PCB holders is also available for quick proto-typing set-up, sample runs, and even production.

BENEFITS:

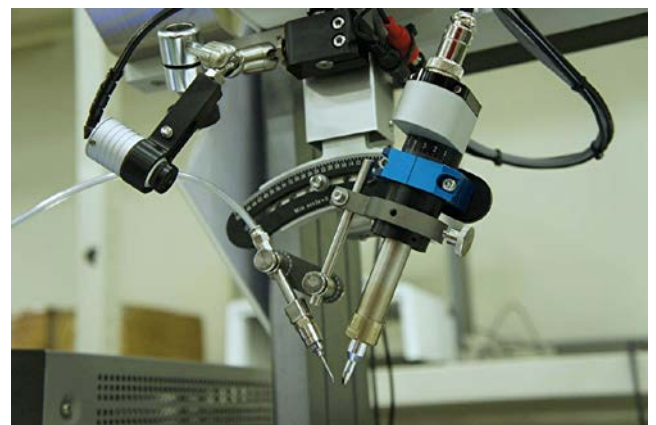
- High level of repeatability
- Improve soldering consistency and quality
- Quick change-over
- Perform point or line soldering
- Allows for individual profile by joint

STANDARD FEATURES:

- 150 watt power supply with thermal feedback loop
- High precision motion control XYZR +/- 0.01 mm
- Auto solder feeder with multiple detection points
- Tip Cleaning Station (wet sponge and air blow off)
- Witness Camera with AVI output
- Control Pendant with USB save function/export/import
- 100 program internal storage / up to 9,999 points per program
- Graphic location marks for hot iron and feed tube locations
- Low maintenance requirement

USES:

- High value, low volume soldering
- Secondary component added / soldered
- Thermally sensitive surroundings
- Requires targeted point soldering
- High level of repeatability
- Performs redundant soldering
- Precision slide soldering to improve cycle rate
- Mid to higher volume – 1 operator works 2~3 systems



SYSTEM SPECIFICATIONS

| <i>Models</i> | <i>TT-300</i> | <i>TT-400</i> |
|---|---|-------------------------|
| Moving Area <i>X / Y / Z / R (mm)</i> | 330 / 300 / 100 / ±360° | 430 / 400 / 100 / ±360° |
| Working Area <i>X / Y (mm)</i> | 265 / 300 | 365 / 400 |
| Max. Speed <i>X & Y / Z / R</i> | XY/Z : 600 / 320 mm/sec R : 720°/sec | |
| Repeatability | +/- 0.01 mm / Axis | |
| Data Memory capacity (internal) | 9,999 points per program / 100 programs | |
| Program System | CF Card & USB | |
| Processor | 32 bits | |
| Display | Teach Pendant LCD | |
| Drive System / Stepping Motor | Micro Stepping Motor | |
| Teaching Method | Teach Pendant | |
| Max. Temp. | Max.500°C | |
| Max. Temp. Control Watt | 150 W | |
| Solder Wire Diameters | φ0.6 ~φ1.2 mm | |
| Solder Feeder System | Stepping Motor | |
| Soldering Head Clean System | Air Compressor / Brush | |
| Power Supply | 110V~230V / 450W | |
| Working Temp. | 10 – 40°C | |
| Relative Humidity | 20 – 90% (no condensation) | |
| Dimensions <i>W x D x H (mm)</i> | 705x556x1050 | 795x646x1050 |
| Weight | 52.5 kg | 62.5 kg |

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VARIETY OF TIPS AVAILABLE



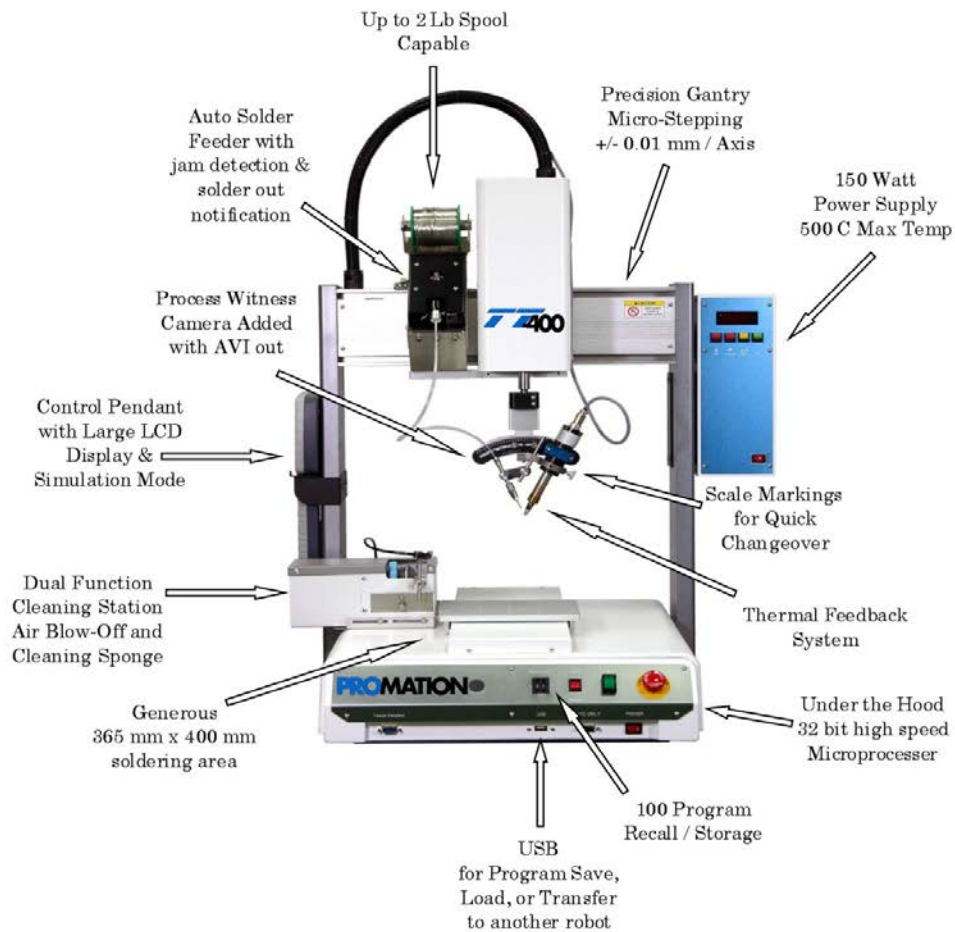
FEED TUBES AND NEEDLES



TIP CLEANING STATION



GENERAL FEATURES OVERVIEW



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