



ROBOTIC PROCESS SYSTEMS

RHYTHM - Selective Soldering System

INTRODUCTION:

The Rhythm represents the latest innovation in low cost selective soldering technology all in a very space efficient platform. With the available options the system will replace every soldering and rework tool you may ever need.

The heart of the system is the solder management system, designed for lead-free applications, featuring a stepper driven solder pump, and Nitrogen-inerted quick change solder nozzles, ranging from 2-30 mm in diameter.

The solder management system is mounted on a stepper driven XYZ table that articulates beneath the circuit board, too perform, dip soldering, drag soldering, and wave soldering applications. Also mounted to the XYZ table is the spray head or optional ultrasonic, or drop-jet flux technologies.

The circuit board is populated into a holder that is located in the system in one of two positions; perpendicular to the solder for selective soldering or alternately at an angle for wave soldering to provide the peel-back required to assist in bridge free wave soldering.

There are several ways to program the system . These include jog-to-teach using the set-up camera included with the system, or optional CamConductor off-line programming software also provided with the system.

Quick change tooling enables the system to be easily adapted for rework, and wave soldering applications. Selective soldering of mixed technology PCB's wire & harness to PCB's RF Shields, molded modules, SMT components, and other odd-form assemblies.



BENEFITS:

- High Productivity
- Repeatable quality result
- Exceptional keep-away capability <1.5-mm
- Exceptional lead protrusion clearance >5-mm
- Exceptional thermal capability with dynamic wave
- Quick-change solder pots
- Low maintenance
- Program off-line in minutes
- Small footprint
- Low cost

CONTACT:

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FEATURES:

- CE Labeled
- Designed to meet UL/OSHA safety requirements
- SMEMA machine interface
- CamConductor off-line programming software
- Programming/set-up camera
- Color witness camera
- Handles PCB's up to 450 x 450 mm
- Coordinated motion with optional tilt-axis achieve peel-back to help prevent bridges and icicles
- Lead-Free compatible solder management system
- Quick-Change solder pot
- Quick-change magnetic solder nozzles
- Spray-Fluxer
- Slide Conveyor
- Tilt-Axis, Manual
- Universal PCB holder
- Solder nozzles-3 in set, wide range available
- Computer with Windows interface

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