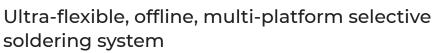
JADE PRO







JADE PRO

Ultra-flexible, offline, multi-platform selective soldering system



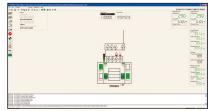
Designed to meet the needs of the small batch manufacturer who requires high levels of production flexibility. The Jade Pro offers the ability to regularly change solder alloys without incurring expensive down time, whilst the solder bath cools down and heats up during a regular manual changeover process. The Jade Pro is a handload system, incorporating a universally adjustable tooling carrier capable of accommodating PCBs or pallets up to 457 x 508mm. As standard, the Jade Pro is configured with our Duplex twin solder bath arrangement.

This twin independent Z axis solder bath arrangement offers increased production flexibility by permitting use of two different nozzle tip sizes within any single process programme, which can be allocated as process requirements dictate within any particular area on a PCB. Alternatively, different solder alloys can be utilised within this single machine setup.





DUPLEX TWIN SOLDER BATH ARRANGEMENT Solder bath and pump assemblies with twin Drop-Jet flux head and programming camera.



OPERATION

The Jade Pro series is controlled by a PC, through PillarCOMM, a Windows® based 'Point & Click' interface with a PCB image display. Additionally, our PillarPAD offline programming package allows the operator to produce programs independently from the machine using Gerber data.



SOLDER BATH REMOVAL/ REPLACEMENT TROLLEY



NITROGEN PURITY ANALYSER



ULTRASONIC FLUX HEAD



MULTI-DIP NOZZLE



Pillarhouse



PILLARGEN 40/80 NITROGEN GENERATOR

SYSTEM OPTIONS

Top Side & Bottom Side Slide In/Out Instant IR Pre-Heat Closed-Loop Pyrometer Temperature Control Bottom Side Hot Nitrogen Selective Pre-Heat Automatic Fiducial Correction System Ultrasonic Fluxing Dual Drop-Jet/Ultrasonic Fluxing Laser PCB Warp Correction Micro Nozzle Assembly Large Solder Bath for Dedicated Single Dip Applications Solder Bath Removal Trolley Solder Reel Identification Larger PCB Handling Size



ADDITIONAL SYSTEM OPTION - PillarCARE Pillarhouse's comprehensive after-sale service and process programme, available for all machines

STANDARD FEATURES

Integral PC & Machine Mounted TFT Monitor Duplex Twin Independent Z Axis Solder Pots Auto Solder Top-Up (Wire Feed) & Solder Level Detect DC Servo Drives Manual Fiducial Correction System Solder Wave Height Measurement & Correction Pump RPM Monitoring Auto Nozzle Conditioning System Process Viewing Camera(s) Multilevel Password Protection System Inerted Nitrogen System Drop-Jet Fluxer Flux Level Sensor Light Stack Tower One Set of AP Solder Nozzle Tips (2.5mm, 3mm, 3.5mm, 4mm, 5mm, 6mm, 8mm, 10mm, 12mm) per Solder Bath Internal Fume Extraction Colour Programming Camera Universally Adjustable Tooling Carrier PillarCOMM Windows® based 'Point & Click' interface PillarPAD Offline Programming System Thermal Nozzle Calibration System using Integrated Setting Camera (requires manual correction) Solder Pot Coding Lead-Free Compatibility Day-To-Day Service Kit Initial Solder Fill (63:37 only)

MONITORING OPTIONS

Flux Presence Sensor - Thermistor Style Flux Spray and/or Flow Pump RPM O₂ PPM Nitrogen Flow

JADE PRO

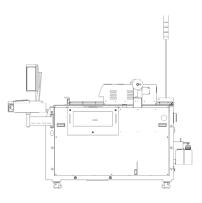
SPECIFICATIONS

Height: Width: Depth:	1230mm / 48" to 2025mm / 80"- with light stack 1250mm / 49" to 1700mm / 67"- with side auto-changer 1495mm / 59" 1720mm / 68" with flux bottles
Board size: Edge clearance: Height clearance:	457mm x 508mm / 18"x 20" Above / below 3mm Above / below 40mm nominal 90mm max. top side only
Solder: Solder pot capacity: Applicators:	Most commonly used solder types - including lead-free 20kg standard - 30kg large bath AP style - 2.5mm to 16mm dia. Extended AP style - 2.5mm to 20mm dia. Micro Nozzle - 1.5mm to 2.5mm
Flux:	Jet-Tip style - 6mm to 40mm dia. Jet-Wave style - up to 25mm width Special dedicated nozzles available upon request Low maintenance Drop-Jet system. Low solids
	(below 8%), no clean flux, pressurised and inerted system, optional water-soluble system available
X, Y & Z axis resolution: Repeatability:	0.1mm +/- 0.05mm
Nitrogen usage:	Up to 40 litres gas/min per bath using single bath with standard AP solder nozzle, 5 bar pressure Up to 80 litres gas/min using Duplex twin bath configuration. Refer to Pillarhouse for Nitrogen usage requirement with dedicated multi-tube nozzle assemblies
Nitrogen purity:	99.995% or better
Air supply pressure:	5 bar / 72 psi
Power supplies:	Three-phase + neutral + PE
Voltage:	230V phase to neutral / 400V phase to phase
Frequency:	50/60Hz
Power :	Maximum 9kVA per phase - machine configuration dependent
Transport:	Hand load
Tooling:	Integral adjustable board guides, includes finger extensions and board clamps
Programming:	PillarCOMM Windows® based 'Point & Click' interface

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INTERNATIONAL



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