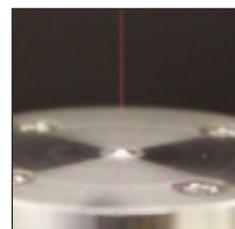




Pillarhouse
INTERNATIONAL

JADE PRODEX

Ultra-flexible, offline, multi-platform, quick load
twin PCB rotary table selective soldering system



JADE PRODEX



Ultra-flexible, offline, multi-platform, quick load twin PCB rotary table selective soldering system



Designed to meet the needs of the small batch manufacturer who requires high levels of production flexibility. The Jade Prodex 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 Prodex is an offline system, incorporating a quick load, twin PCB, universally adjustable rotary table transport system to allow simultaneous load/unload during product processing.

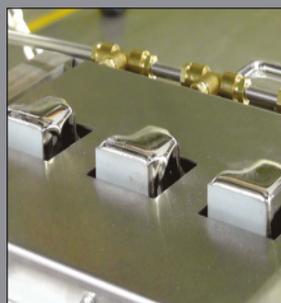
As standard, the Jade Prodex machine is configured with our Duplex twin solder bath arrangement. On adjacent, independent Z axis drives, this setup offers increased production flexibility by permitting the use of two different nozzle tip sizes, which can be allocated as process requirements dictate within any particular area on a PCB.



NITROGEN PURITY ANALYSER



ULTRASONIC FLUX HEAD



MULTI-DIP NOZZLE

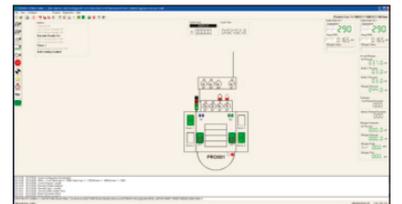


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DUPLEX TWIN SOLDER BATH ARRANGEMENT

Solder bath and pump assemblies with twin Drop-Jet flux head and programming camera.



OPERATION

The Prodex 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.



PILLARGEN 80
Nitrogen generation system



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STANDARD FEATURES

- Integral PC & Machine Mounted TFT Monitor
- Duplex Twin Independent Z Axis Solder Pots
- Auto Motorised Wire Solder Feed & Level Detect
- Adjustable Rotary Table Twin Tooling Mechanism
- DC Servo Motor Axis Drive System
- Manual Fiducial Correction System
- Solder Wave Height Measurement System
- Pump RPM Monitoring
- Auto Nozzle Conditioning System
- Process Viewing Camera
- Multilevel Password Protection System
- Inerted Nitrogen System
- Drop-Jet Fluxer
- Light Stack Tower
- One Set of AP Solder Nozzle Tips (2.5mm, 3mm, 3.5mm, 4mm, 5mm, 6mm, 8mm, 10mm, 12mm) per Solder Bath
- Flux Level Sensor
- Internal Fume Extraction
- Colour Programming Camera
- 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

MONITORING OPTIONS

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

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
- Nitrogen Generator



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



Pillarhouse... Expect innovation
www.pillarhouse.co.uk

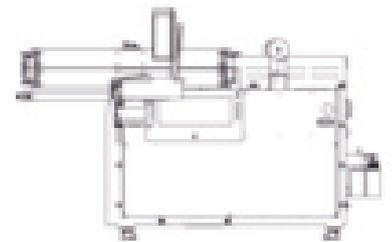
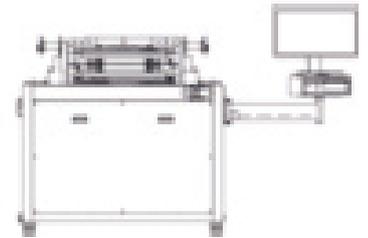
JADE PRODEX



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SPECIFICATIONS

| | |
|---------------------------|---|
| Height: | 1208mm / 47.5" to 2025mm / 80"- with light stack |
| Width: | 1250mm / 49" to 1460mm / 57"- with rotate |
| Depth: | 2020mm / 79.5" 2240mm / 88" with flux bottles |
| Board size: | 457mm x 508mm / 18"x 20" |
| Edge clearance: | Above/below 3mm |
| Height clearance: | Above/below 40mm nominal 70mm max. top side only |
| Solder: | Most commonly used solder types - including lead-free |
| Solder pot capacity: | 20kg standard - 30kg large bath |
| Applicators: | AP style - 2.5mm to 16mm dia. Extended AP style - 2.5mm to 20mm dia. Micro Nozzle - 1.5mm to 2.5mm Jet-Tip style - 6mm to 40mm dia. Jet-Wave nozzle - up to 25mm width Special dedicated nozzles available upon request |
| Flux: | 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: | 0.1mm |
| Repeatability: | +/- 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 |
| 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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