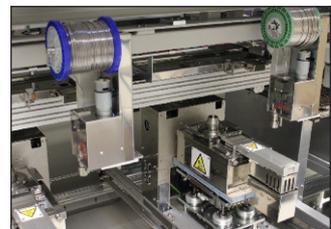
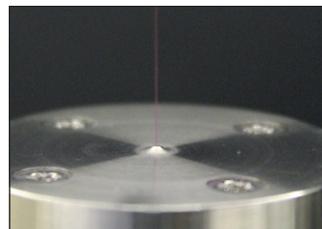
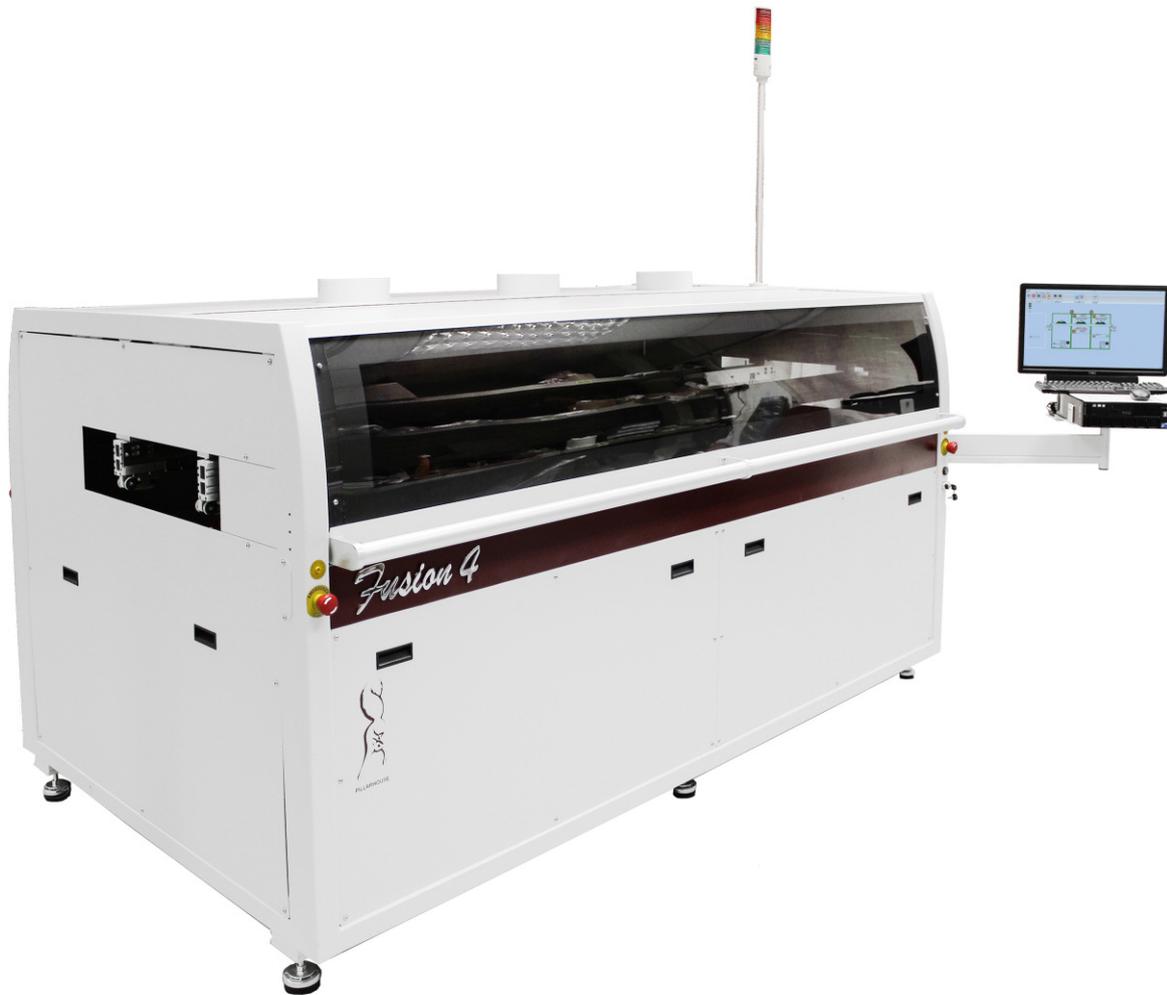


ORISSA FUSION



Pillarhouse
INTERNATIONAL

High speed, in-line, multi-platform
selective soldering system



ORISSA FUSION



High speed, in-line, multi-platform selective soldering system



Incorporating high speed PCB transfer, the Orissa Fusion platform offers the ultimate in flexibility, coupled with reduced line length at a lower cost compared to current market offerings.

The standard four station cell can be configured to handle PCB's up to 381mm x 460mm - fluxer, preheat, solder, solder. For high speed applications this same unit can be configured as fluxer/preheat and up to three solder modules with as many as five heater options.

An optional PCB transfer station and return conveyor enables product to be manually unloaded adjacent to the conveyor load station - this configuration reduces PCB handling capability to 381mm x 250mm.

Each solder cell can be configured with any of the currently available Pillarhouse solder technologies: custom-dip, multi-dip, Jet-Wave and single point AP down to the patented 1.5mm micro nozzle.

Easy, rapid non-contact solder pot change over is facilitated via the optional heated pot exchange trolley.



TWIN INDEPENDENT SOLDER BATHS

Solder baths operating on independent X, Y & Z axis for rapid production throughput



JET-TIP SOLDER NOZZLE



FLUX HEAD



FUSION CONVEYOR



SOLDER BATH & AUTO WIRE SOLDER FEED

Solder baths are individually tagged so that incorrect solder alloys cannot be selected with respect to any specific customer generated program.

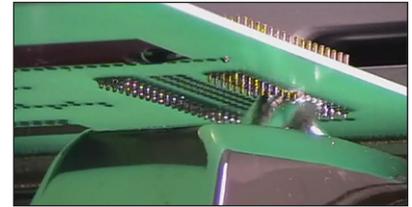


1.5 MM MICRO NOZZLE

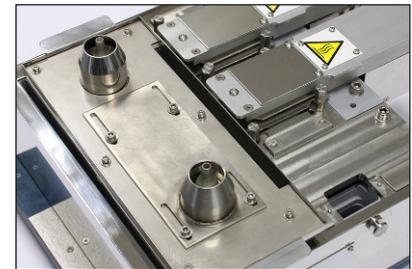
PILLARGEN 80

Nitrogen generation system





JET-WAVE SOLDER NOZZLE



LARGE BATH WITH TWIN
ADJUSTABLE PUMPS/SOLDER
NOZZLES

STANDARD FEATURES

- In-line motor driven width adjust through feed conveyor
- Conveyor side clamping
- DC servo drives with encoders on X, Y & Z axis
- Integral PC and machine mounted TFT monitor
- Inerted nitrogen system
- Automatic fiducial correction system
- Motorised wire feed auto solder top-up & solder level detect
- Drop-Jet fluxer
- Solder wave height measurement and correction system
- Process viewing camera
- Multiple level password protection
- Solder bath coding - identifies correct bath for program
- Thermal nozzle calibration system using integrated setting camera (requires manual correction)
- Six AP solder nozzle tips
- Internal fume extraction
- Colour programming camera
- PillarCOMM Windows® based 'Point & Click' interface
- Lead-free compatible
- Day-to-day service kit

MONITORING OPTIONS

- Flux presence sensor - thermistor style
- Flux spray, flow and spray & flow
- Pump rpm
- O₂ ppm
- Nitrogen flow

SYSTEM OPTIONS

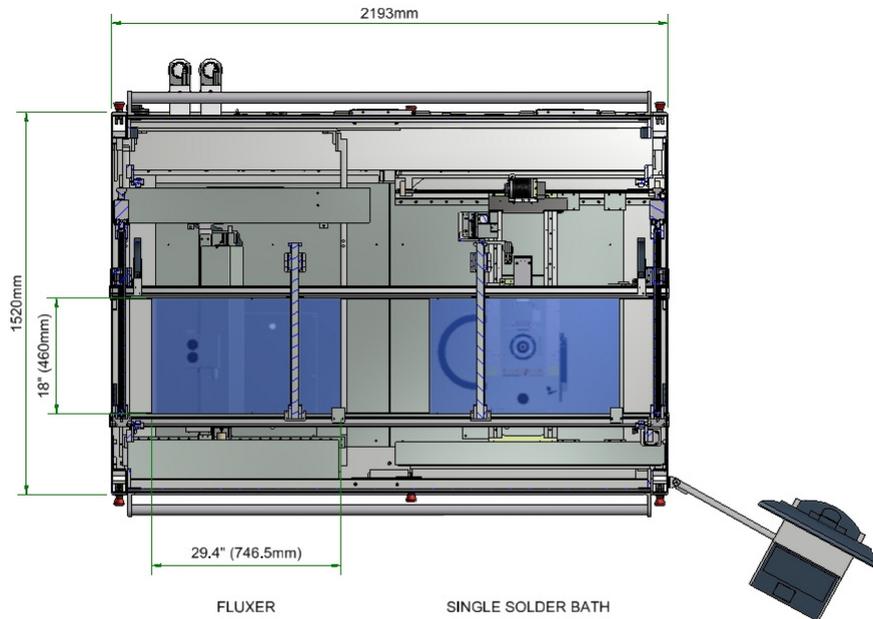
- Ultrasonic fluxing
- Dual Drop-Jet / ultrasonic fluxing
- Top-side instant IR preheat
- Bottom-side IR preheat
- Closed loop pyrometer temperature control
- Large solder bath for dedicated single dip applications
- Laser PCB warp correction
- 1.5mm micro nozzle
- PillarPAD offline programming system
- Solder reel identification
- Larger PCB handling size
- Nitrogen generator

FUSION COMPACT



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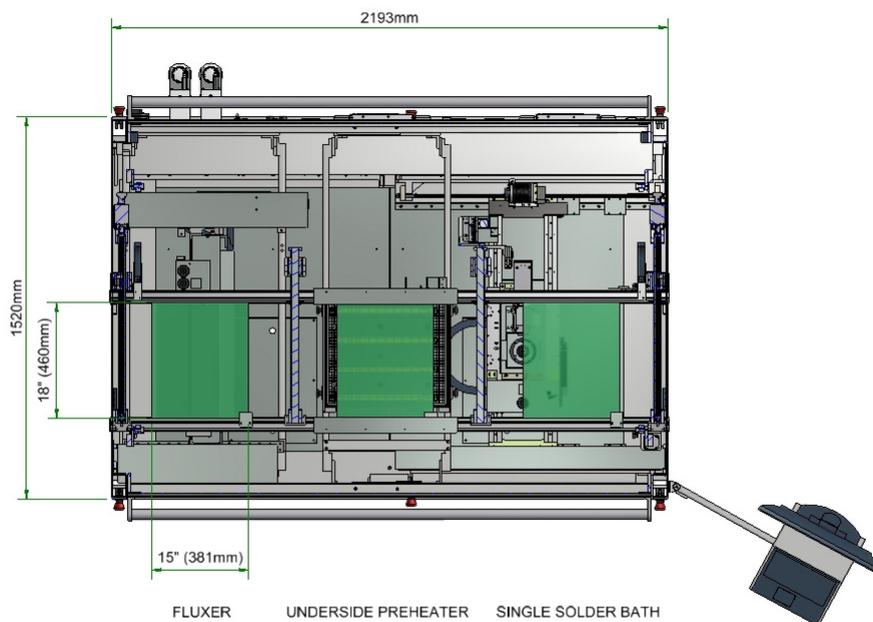
Compact 2 with Drop-Jet fluxer and solder module



(TOP SIDE PREHEAT CAN BE POSITIONED ABOVE ANY ONE, OR BOTH BOARDS)

MAX. BOARD SIZE = 746.5mm X 460mm (29.4" X 18")

Compact 3 with Drop-Jet fluxer, underside IR preheat and solder module



(TOP SIDE PREHEAT CAN BE POSITIONED ABOVE ANY ONE, OR ALL THREE BOARDS)

MAX. BOARD SIZE = 381mm X 460mm (15" X 18")

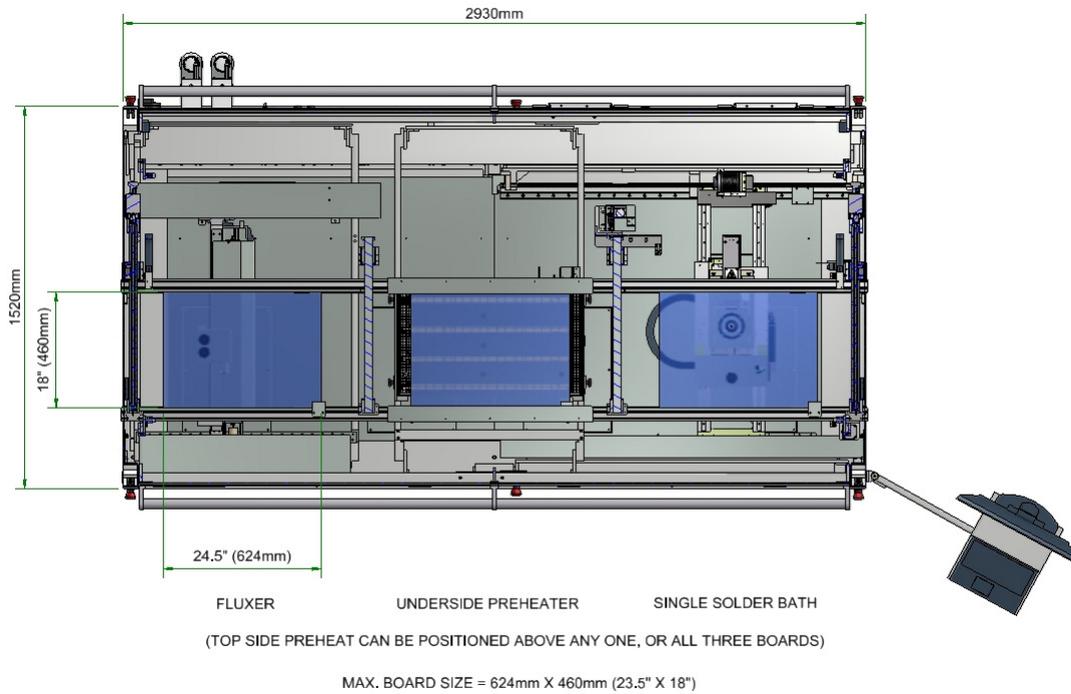


FUSION STANDARD

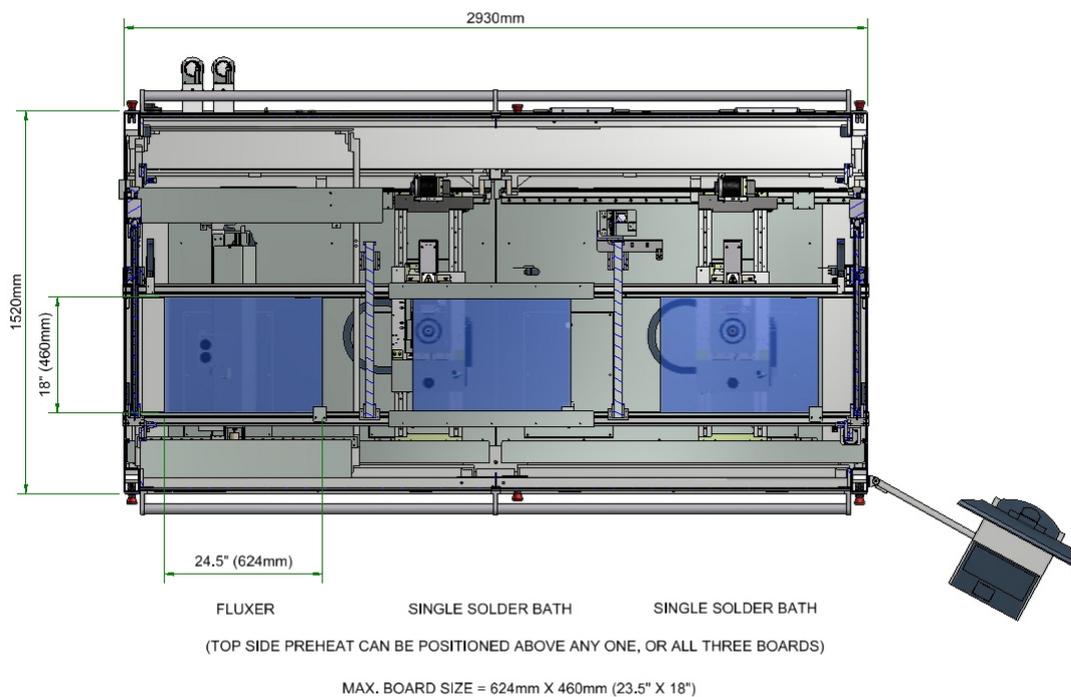


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Fusion 3 with Drop-Jet fluxer, underside IR preheat and single solder module



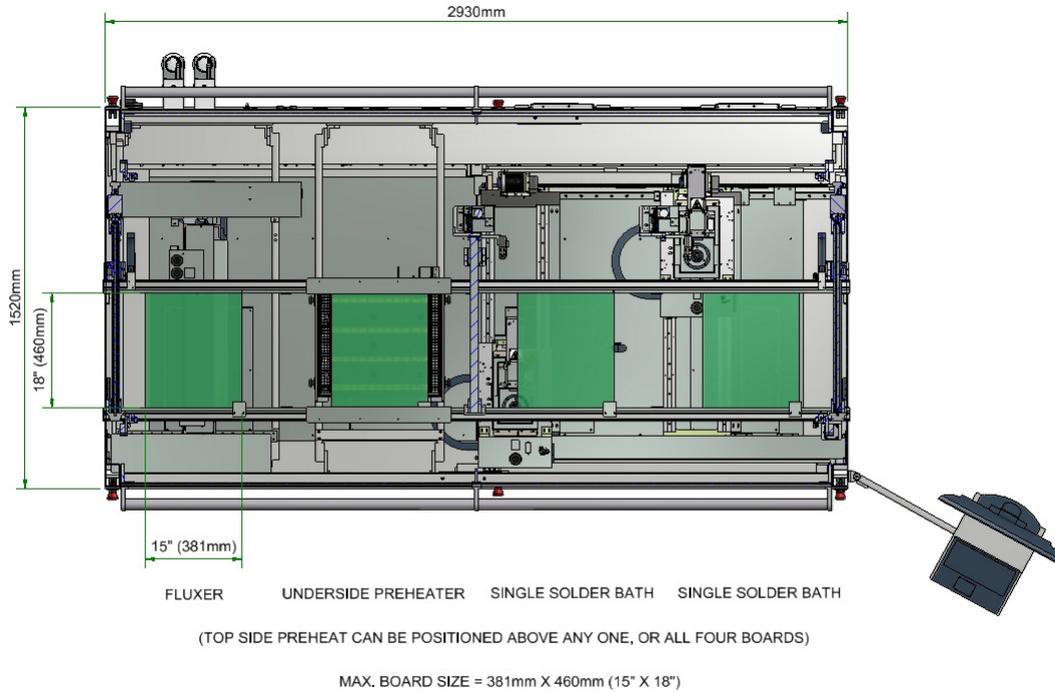
Fusion 3 with Drop-Jet fluxer and twin independent single solder modules



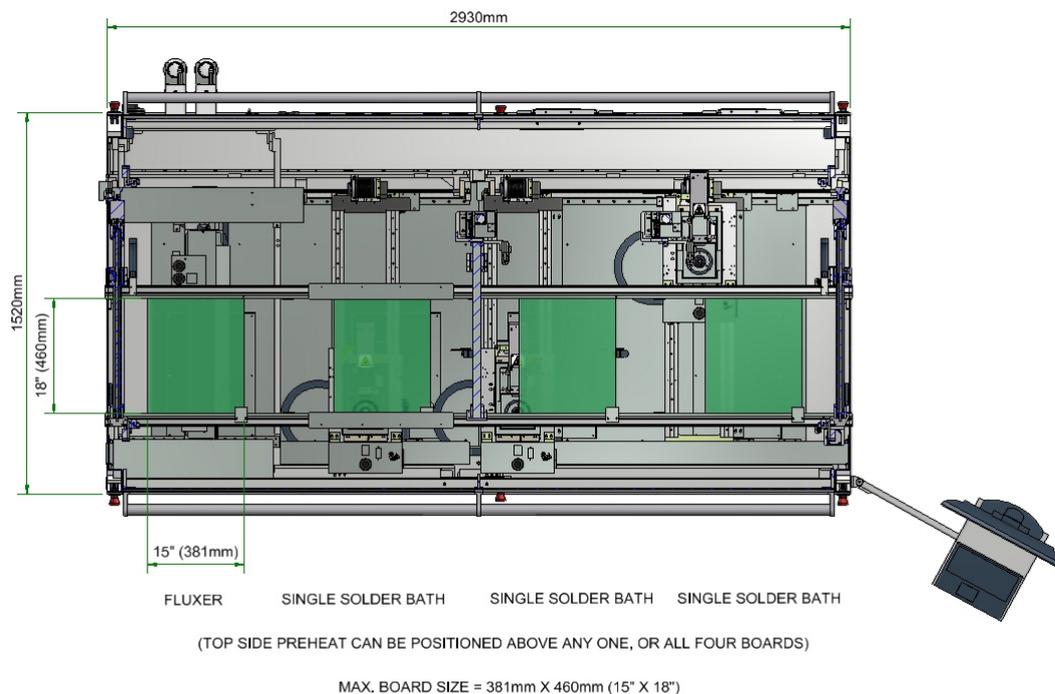


FUSION STANDARD

Fusion 4 with Drop-Jet fluxer, underside IR preheat and twin independent solder modules



Fusion 4 with Drop-Jet fluxer and triple independent solder modules



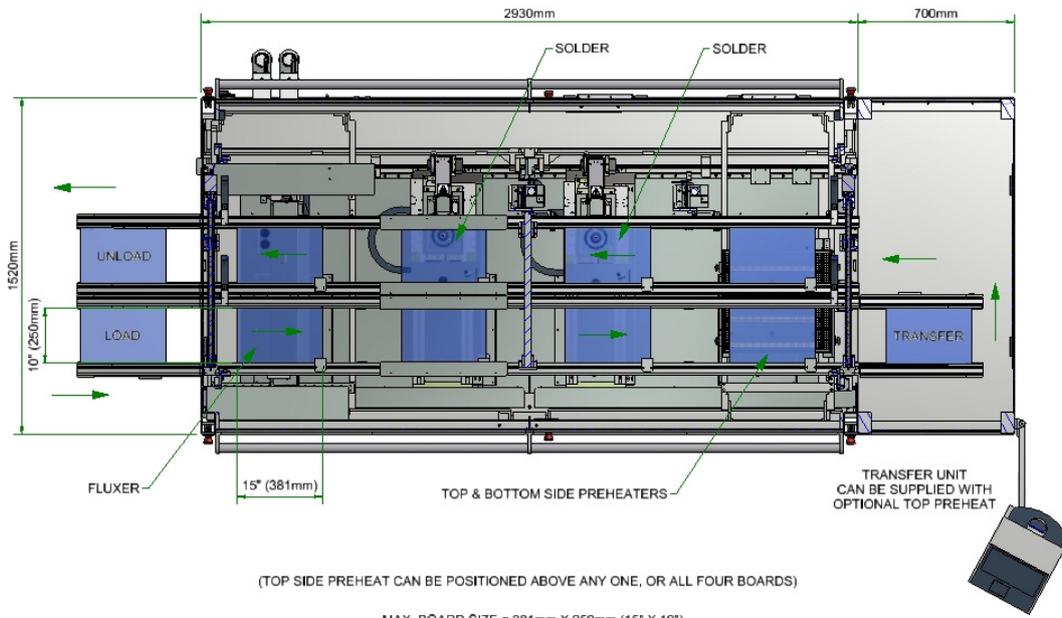


FUSION STANDARD



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Fusion 4 with PCB transfer and return conveyor



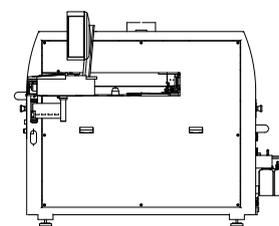
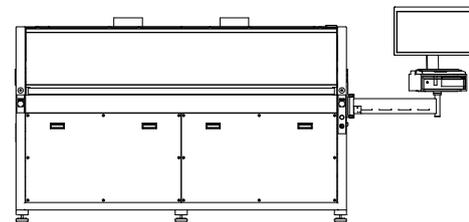
ORISSA FUSION



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SPECIFICATIONS

Height:	1390mm / 55" to 2045mm / 80½" - with light stack
Width:	2193mm / 86½" Compact 2930mm / 115½" Standard
Depth:	1520mm / 60" 1740mm / 68½" with flux bottles
Board size:	381mm x 460mm / 15" x 18" - standard frame with 4 stations - larger PCB size available upon request
Edge clearance:	Above / below 3mm
Height clearance:	Above / below 40mm nominal, 70mm max.
Solder:	Most commonly used solder types - including lead-free
Solder pot capacity:	20kg standard - 30kg large bath
Applicators:	AP style - 2.5 - 16mm dia. Extended and Jet-Tip nozzles - up to 25mm dia. Jet-Wave nozzles - 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:	0.15mm
Repeatability:	+/- 0.05mm
Nitrogen usage:	40 litres gas/min per bath using single bath with standard AP solder nozzle, 5 bar / 72 psi pressure.
Nitrogen purity:	99.995% or better
Air supply pressure:	5 bar / 72 psi
Power supplies:	Three-phase + neutral + PE
Voltage:	230 V phase to neutral / 400V phase to phase
Frequency:	50/60Hz
Power :	Machine configuration dependent - contact your local Pillarhouse representative
Transport:	Motorised conveyor
Programming:	PillarCOMM Windows® based 'Point & Click' interface



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