



PILOT



Pillarhouse
INTERNATIONAL

Entry-level, benchtop, single point selective soldering system



Pilot system with optional PillarGEN Nitrogen generator and fume extraction unit





PILOT

Entry-level, benchtop, single point selective soldering system



The all-new ultra-low-cost Pilot machine has been designed as an entry-level, handload, benchtop machine for small to medium batch manufacturers, combining high levels of production flexibility with economic running costs.

Offered with two universal, quick change tooling carriers, each one can be exchanged to optimise cycle time. Each carrier is capable of handling a board size up to 330mm x 250mm (13" x 10").

The Pilot incorporates, as standard, our patented Drop-Jet fluxer for quick, accurate flux deposition. An optional bottom side IR pre-heat is also available; this is particularly useful when processing multi-layer PCB's or using water-based flux types.

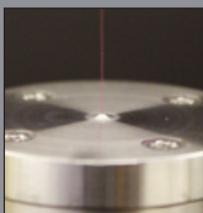
Although a low-cost system, the Pilot is offered with the ability to run the acclaimed, highly flexible Pillarhouse AP nozzle technology, together with our patented market leading 1.5mm Miro Nozzle. The process is enhanced by a localised hot Nitrogen environment at the point of soldering. An optional Nitrogen generator is built into the base of the unit and can be used to supply Nitrogen at the required levels, whilst acting as a machine stand.

Designed for low maintenance, the Pilot offers a slide in/out solder bath design for ease of access. This, in conjunction with our proven impellor driven pump technology, makes a highly reliable, low maintenance system. By carrying product over the flux, solder and optional pre-heat stations, the Pilot offers a light, highly accurate X, Y system.

Programming is accessed through the world leading Pillarhouse 'Point and Click' PillarCOMMXLITE software package. Optional offline programming is available via PillarPAD, which allows programs to be generated independently from the machine using Gerber data.



JET TIP NOZZLE



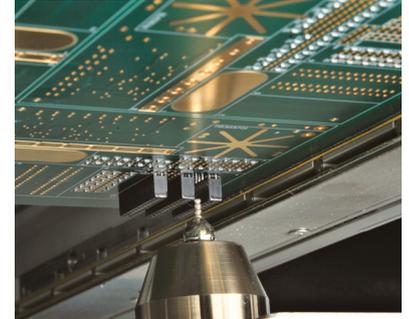
DROP-JET FLUX HEAD



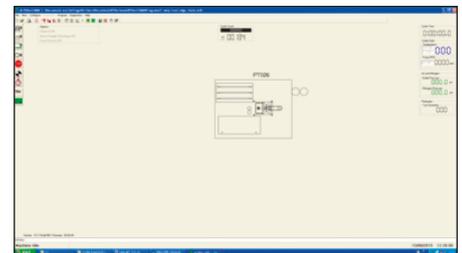
HANDLOAD QUICK CHANGE TOOLING CARRIER ASSEMBLY



Pillarhouse
INTERNATIONAL



1.5MM MICRO NOZZLE



OPERATION

The Pilot is controlled by a PC through PillarCOMMXLITE, a Windows® based 'Point & Click' interface with PCB image display, as illustrated above.

Additionally, our PillarPAD offline programming system allows the operator to produce programs independently from the machine using Gerber data.



PILLARGEN 30

Nitrogen generator and machine stand option



Pillarhouse
INTERNATIONAL



BOTTOM SIDE IR PRE-HEAT OPTION



SLIDE IN/OUT SOLDER BATH

STANDARD FEATURES

- Integral PC & Machine Mounted TFT Monitor
- Inerted Nitrogen System
- Drop-Jet Fluxer
- Set of AP Solder Nozzle Tips (2.5mm, 3mm, 3.5mm, 4mm, 5mm, 6mm, 8mm, 10mm, 12mm)
- Internal Fume Extraction
- Manual Fiducial Correction System
- Process Viewing Camera
- Colour Programming Camera
- Two Universally Adjustable Tooling Carriers
- PillarCOMMLITE Windows® based 'Point & Click' interface
- PillarPAD Offline Programming System
- Solder Wave Height Measurement & Correction
- Lead-Free Compatibility
- Day-To-Day Service Kit

SYSTEM OPTIONS

- Fume Filtration System
- Micro Nozzle Assembly
- Multilevel Password Protection System
- Bottom Side Pre-Heater
- Combined Nitrogen Generator & Machine Stand



ADDITIONAL SYSTEM OPTION - PillarCARE

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

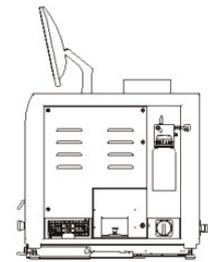
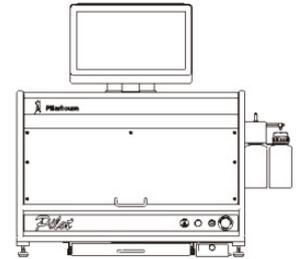
PILOT



Pillarhouse
INTERNATIONAL

SPECIFICATIONS

Height:	With monitor 1050mm/42" With cowling 750mm/29" - without 695mm/27"
Width:	With flux bottles 1090mm/43" - without 915mm/36" & with solder bath out 1380mm/54"
Depth:	700mm/28" to 963mm/38" with keypad tray out
Weight:	170kg (table-top format)
Board size:	330mm x 250mm/13" x 10"
Edge clearance:	Above/below 3mm
Height clearance:	Above/below 40mm nominal
Solder:	Most commonly used solder types - including lead-free
Solder pot capacity:	6kg
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 20mm dia. 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:	30 litres gas/min. 5 bar pressure
Nitrogen purity:	99.99% or better
Power supplies:	Single phase + PE
Voltage:	208V - 250V
Frequency:	50/60Hz
Power:	4kVA including bottom side IR pre-heat
Transport:	Handload
Tooling:	Integral adjustable board guides, includes finger extensions and board clamps
Programming:	Windows® based PillarCOMM Lite 'Point & Click' interface



Pillarhouse International Ltd.

Rodney Way, Widford, Chelmsford, Essex CM1 3BY UK

Pillarhouse USA, Inc.

201 Lively Blvd, Elk Grove Village, IL 60007 USA

Pillarhouse (Suzhou) Soldering Systems Co., Ltd.

105 Weixi Road, Suzhou Industrial Park, China 215127

www.pillarhouse.co.uk

Tel: +44 (0) 1245 491333 Email: sales@pillarhouse.co.uk

www.pillarhouseusa.com

Tel: +1 847 593 9080 Email: sales@pillarhouseusa.com

www.pillarhouse.cn

Tel: +86 512 6586 0460 Email: sales@pillarhouse.cn