

PILOT

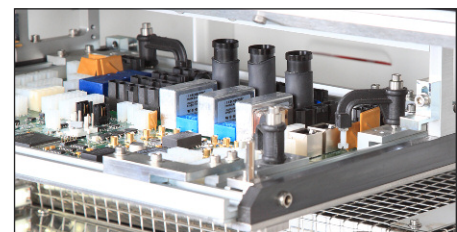
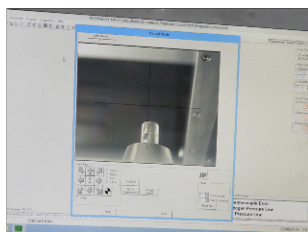


Pillarhouse  
INTERNATIONAL

Economical, compact, single point selective  
soldering system



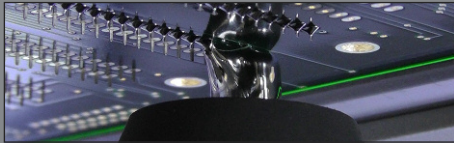
Pilot system with optional Pillargen 30 nitrogen generator and fume extraction unit



# PILOT



## Economical, compact, single point selective soldering system



The all new ultra low cost Pilot machine has been designed as an entry level, hand load, 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.

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

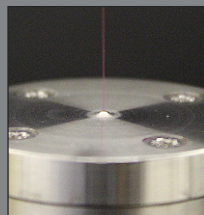
Although a low cost system, the Pilot is offered with the ability to run the acclaimed highly flexible Pillarhouse AP nozzle technology, together with our patented market leading 1.5mm micro nozzle. The process is enhanced by a localised hot nitrogen environment at the point of soldering. An optional 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 preheat stations, the Pilot offers a light, highly accurate X, Y system.

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



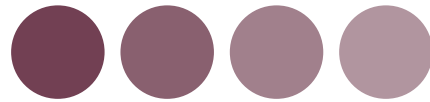
JET-TIP NOZZLE



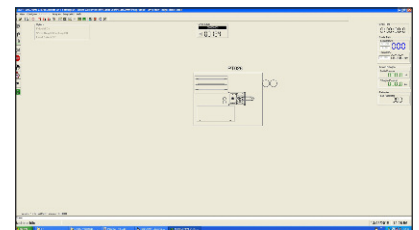
DROP-JET FLUX HEAD



HAND LOAD QUICK CHANGE TOOLING CARRIER ASSEMBLY



1.5MM MICRO NOZZLE



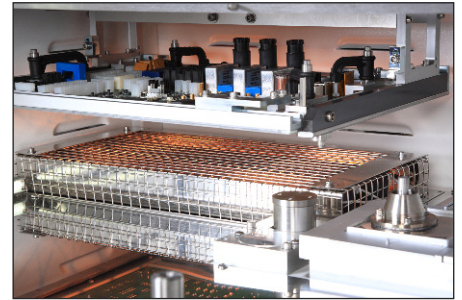
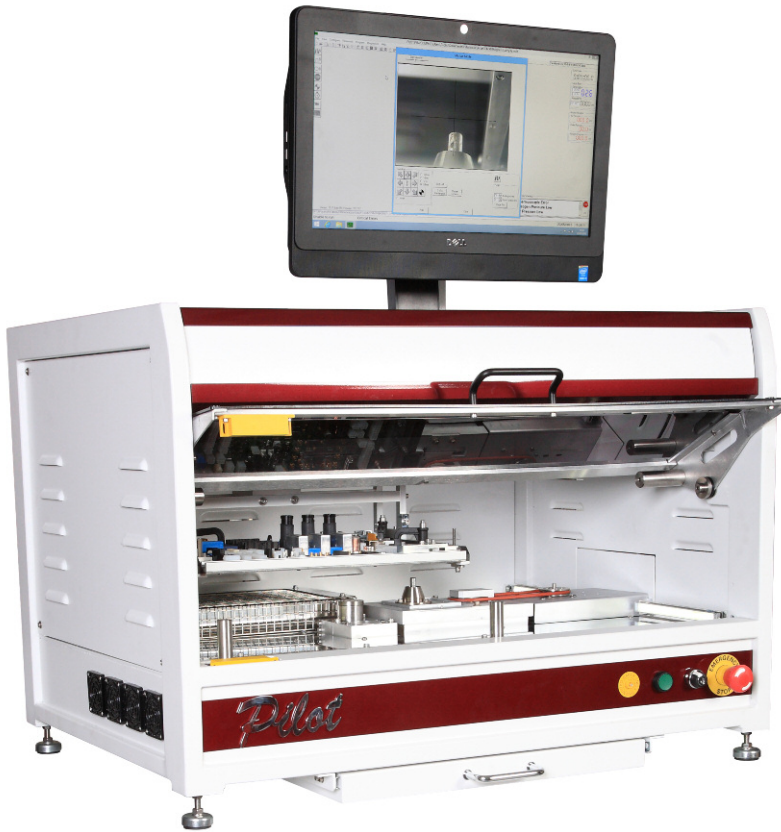
### OPERATION

The Pilot is controlled by a PC, through PillarCOMM LITE, a Windows® based 'Point & Click' interface with PCB image display, as illustrated above. Additionally, our optional PillarPAD offline package allows the operator to produce programs independently from the machine using Gerber data.

### PILLARGEN 30

Nitrogen generator and machine stand option





BOTTOM-SIDE IR PREHEAT OPTION



SLIDE IN/OUT SOLDER BATH

#### STANDARD FEATURES

- Machine mounted TFT monitor with integral PC
- Inerted nitrogen system
- Drop-Jet fluxer
- Two AP style solder nozzle tips
- Internal fume extraction
- Colour programming camera
- Two universally adjustable tooling carriers
- PillarCOMM LITE
- Windows® based 'Point & Click' interface
- Lead-free compatible
- Day-to-day service kit

#### SYSTEM OPTIONS

- Fume filtration system
- Manual fiducial correction
- Solder wave height measurement & correction
- Micro nozzle assembly
- PillarPAD offline programming system
- Multiple level password protection
- Bottom-side preheater
- Combined nitrogen generator & machine stand

## 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 preheat
Transport:	Hand load
Tooling:	Integral adjustable board guides, includes finger extensions and board clamps
Programming:	Windows® based PillarCOMM Lite 'Point & Click' interface

