

Mantis 23

23" FULLY AUTOMATIC IN-LINE PRINTER

Small footprint 23" Inline printer



FEATURES

- Fast product setup and change over
- Board sizes up to 450mm x 450mm
- High accuracy vision alignment system
- Simple 'Point and Click' Vision Set-up
- Screen sizes up to 23"
- Fast cycle times (< 10 secs)
- Robust construction for precise, repeatable printing
- Fast, precise closed loop servo motor control throughout
- Auto conveyor width adjustment
- Various tooling options available
- Unlimited product file storage
- Automatic stencil cleaner with wet/dry and vacuum operation
- Easy, intuitive operator software
- Heavy board handling as standard
- Optional post-print 2d inspection
- SMEMA interface protocol
- Smallest in class machine footprint 850mm wide x 1030mm deep
- Lowest cost of ownership
- English, German and French languages. Others on request.

OVERVIEW

The versatile **Mantis 23** printer from Reprint is compact, precise, exceptionally easy to use and designed for use in high mix, mid-to-high production environments where fast changeovers and flexibility are paramount.

Its construction consists of a rigid box section welded frame, it uses quality bearings for high precision guidance, has 1µm resolution encoders for positional accuracy and combined with Swiss made servo motors provides outstanding performance, long life and the lowest cost of ownership.

The high precision alignment comes from the unique, multi-coloured illuminated twin camera system. Fiducial teaching is a simple 'Point & Click' operation. It can also recognise pads and apertures as alignment references.

The conveyor system comes with auto-width adjustment and has for heavy board handling as standard. Transport direction is fully programmable and uses the SMEMA interface for board transfer.

Numerous tooling options are available ranging from manually placed tooling posts to automatic tooling options such as Vacu-nest, GridLok.

Simple and intuitive user software make using the printer easy. A step by step product setup procedure helps ensure new products are configured error-free.

Other features include camera assisted stencil loading and a fully automatic under stencil cleaner with wet, dry and vacuum assist modes. The optional post print 2d inspection system can simultaneously check both board and stencil for possible printing errors.

With a small machine footprint, fast cycle time and its array of standard features and options, the **Mantis 23** printer is the printer of choice for the lowest cost of ownership.

reprint
INTERNATIONAL

BRIEF SPECIFICATION

Max Board Size: 450x 450mm

Max Print Area: 450 x 450mm

Board Thickness:
0.2 to 5mm (others available)

Printing Modes:
Print/Print
Flood/Print
Print/Flood
1 or 2 deposits

Twin Camera Vision System
with multi-coloured illumination
Simple 'Point and Click' fiducial
teach.

Stencil Location:
Camera assisted positioning
pneumatically clamped

Print Repeatability: ± 10 microns
Print Accuracy : ± 15 microns

Squeegee Types:
Metal or Polyurethane
150mm 220mm 300mm
360mm 420mm 460mm

Print Speed: 5-200mm/S

Print Pressure: 0.1 to 20Kg

Snap Off Speed: 0.1to 10mm/S

Unlimited Product File Storage

Product Changeover in 5
minutes or less

Automatic conveyor width
adjustment

OPTIONS

Under stencil cleaner with
vacuum

Post print 2d inspection

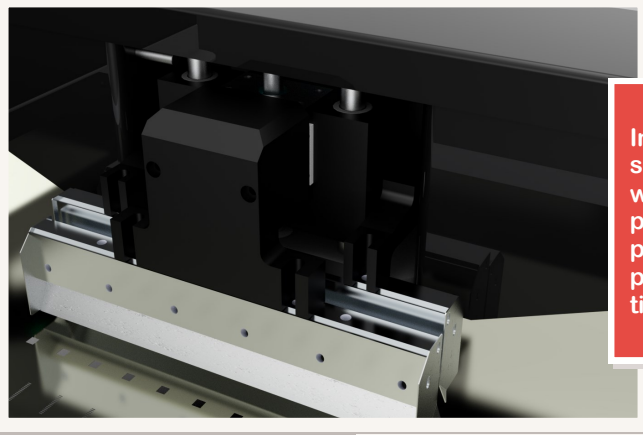
Automatic tooling

Multi-purpose screen adaptor
for stencils smaller than 23"

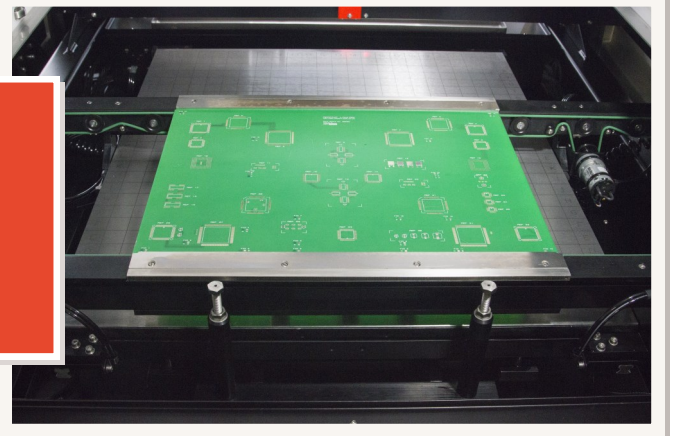
DIMENSIONS

850 x 1030 x 1400mm

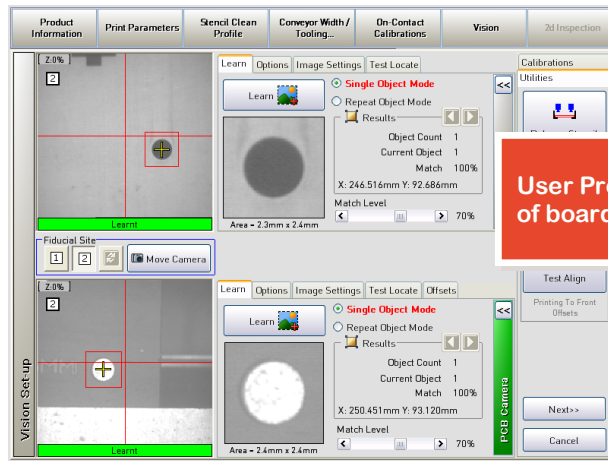
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Independent, dual
squeegee print head
with programmable
printing speeds and
pressure for quality
printing results each
time



Large and heavy
boards are easily
handled with the
fully automatic
conveyor system



User Program showing the teaching
of board and stencil fiducials

OPTIONS

Under stencil cleaner with
vacuum

Post print 2d inspection

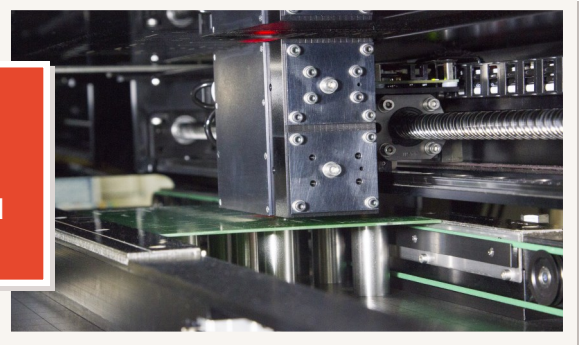
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Dual camera
vision system
with unique
multi-coloured
illumination

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