The All New Miniko Screen Printer

Overview

The new affordable, entry-level Miniko printer from Reprint provides the user with the functionality and features normally only found in more expensive semi-automatic machines.

An easy-to-use and intuitive graphical user interface with touch screen control combined with the printer's state of the art servo motor control system provide precise, repeatable printing every time, all of the time.

Low maintenance, low running costs and unrivalled reliability all packaged in an efficient bench top design make the Miniko the ideal choice for a wide range of production environments.

Main Features

- Takes standard 23 inch screen frames – optional adaptor available for smaller sizes.
- Closed loop servo motor control throughout the whole print cycle.
- A simple to use graphical user interface with touch screen control.
- Easy to use – no specialist training required.
- Small footprint – available in bench top configuration or with optional stand-alone base.
- Optional twin camera vision system with digital zoom - also available with optional laser guidance.

Easy, Accurate and Reliable Operation

Solder paste printing is arguably the most important step in the SMT production process. The trend to towards smaller components makes it more difficult to achieve accurate, repeatable printing particularly on small hand operated machines.

This all changes with the Miniko.

Compact in size, precise and easy to use, this printer takes away the uncertainty associated with hand printing or manually operated printers. All functions of the printer are controlled via the simple to use graphical interface. Operators need no specialist training. Stencil alignment is precise and quick and is further enhanced with our optional twin camera manual alignment system which allows the user to view the board and stencil simultaneously. An optional laser pointer on each camera allows easy indication of the camera's position.

As standard, each product's printing parameters are automatically saved to solid state memory. An almost unlimited number of products can be saved in this way.

The printer provides:-

- Programmable print parameters including printing speed and pressure.
- Programmable board from stencil separation speed and distance.
- Twin squeegee printing with independent control of printing pressures.
- Full motorised control of all stages of the printing process.
- All product files saved to removable Micro SD flash card.
- Extensive built-in machine diagnostics.
- User interface available in English, German and French - others available on request.
- Pneumatic clamping system for fast, secure stencil retention.
- Through-stencil alignment with optional vision system.
- Fast board changes with easy and precise tooling design.
- Optional vacuum tooling available.
- Double sided printing.

Simple Low Cost Maintenance

From its inception the Miniko printer has been designed for minimal maintenance and low running costs.

The 90-240 Vac 50/60Hz single phase power supply and motor control board are easily accessible to the rear f the printer.

Tracking down possible machine problems is made easier with an extensive diagnostic menu found in the user interface.

Flexibility and Absolute Precision

The Miniko is a fully programmable precision printer small enough in design to be placed on a table making it ideally suited for prototype or small batch printing.
Optionally, the printer can be supplied with a robust stand-alone metal stand.

The servo motor controlled printer allows for repeatable, faster set-up and change over times; not forgetting superior print quality.

The Miniko is designed to print single and double-sided PCBs but can also accommodate ceramics and foils through the use of the optional vacuum tooling. An extra attribute of the printer is the ability to provide borderless printing on substrates up to 450 x 460mm.