GENERAL Specifications

CP562

Printing unit	Max. Panel and image size	660 x 610 mm (26" x 24")	●
	Panel Thickness	0.1 to 5 mm (0.004" to 0,17")	●
	Substrate type	Most common Solder Masks	●
	Panel holding	First EIE Clamping System with pressure roller	●
		Vacuum System for flexible circuits	**Option**
	Printing Device	First EIE IMH512	●
Legend Ink	Ink Type	UV or thermal curable. See specific technical data sheets	●
UV pinning system	On-the-fly UV curing system for liquid ink		●
Built in Raster image processor	Data input formats	RS274D, RS274X, EIE RPL and DPF	●
	Optional input formats	ODB++, Image 5000, TIFF, PACKBITS	**Option**
	Via third party software	HPGL, DXF	**Option**
	Network compatibility	Windows	●
User interface	Windows based, including First EIE MPS and Print Queue Manager Software		●
Wizards	For equipment self calibration and adjustment		●
Panel alignment and Registration	Manual with locating pins		●
	Fully automatic registration and alignment using on-board CCD camera		●
Elevation table	Customized according to panels size up to 610 x 550 mm (24" x 21,5")		●
Vacuum	Fixture for flexible circuits		**Option**
Serialization Dynamic legend	Serial numbers, time, barcodes, etc... by D-code mapping with First EIE Serimark Option Software		**Option**
Print modes	High speed	Minimum line width : 100 μ	●
	Standard	Minimum line width : 100 μ	●
	High quality	Minimum line width : 75 μ	●
Print time (Image size : 20" x 16")	From 30 to 78 sec	Depends on Ink Type and Printing mode	●
Overall accuracy	± 30 μm (± 1.2 mil)		●
Repeatability	± 10 μm (± 0.3 mil)		●
Operating conditions	Temperature - Relative humidity	23± 5° C - 50% ± 10% (non-condensing)	●
	Power requirements	230 VAC ± 10%, 1400 W	●
	Power consumption	400 VA	●
	Compressed air	Minimum : 6 bars, 56L/min (60 psi, 2 cfm)	●
Size and weight	Width x Depth x Height	1435 x 1760 x 1410 mm	●
	Weight	450 kg (993 lbs)	●

Legend Ink jet Printer
CP562
IMH512

SWISS QUALITY
660 x 610   26" x 24"

■ **Accuracy** ■ **Simplicity** ■ **Reliability** ■ **Throughput** ■ **Data Processing Experience** ■ **Flex material compatibility**

P R E C I S I O N

Ink Jet Printers
CP400 series   **CP500** series

Software Solutions
ODB++ Link

Photoplotters
RP800 series   **RP700** series   **RP300** series   **RP200** series

Direct Imager
NEW
EDI500

EIE First EIE SA Swiss Quality

The True Figures

First EIE SA

CP562 IMH512 FEATURES

First EIE CP562, the third generation Legend Ink Jet Printer is capable of printing up to 60 panels (20 x 24") per hour at 75 micron lines and spaces. The CP562 benefits from the wide expertise of First EIE, a leading supplier of Photoplotting and Ink Jet Printing solutions.

First EIE, Clamping System

Warpage compensation

No longer a critical problem with the latest CP400 and CP500 Series Elevation table.
The Elevation table clamps the panel edges and keeps the print surface at the same height whatever the panel thickness.

Panel placed on table

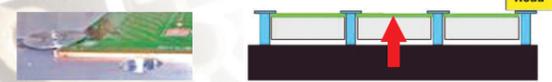Print Head — Head to Clamp Fixed Distance
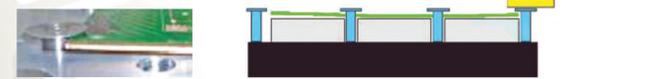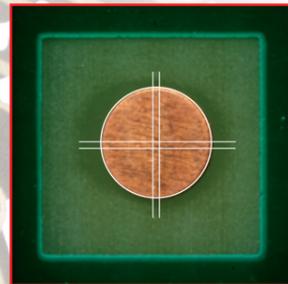
Clamps are closed

Print Head
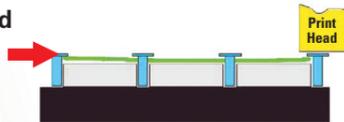
Table raises and press panel against clamps

Print Head
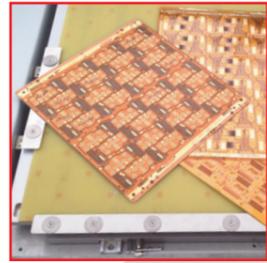
**Vacuum fixture** suitable for flexible circuits

Legend Registration

Several Registration modes are available :
- Fully automated using on-board CCD camera and target recognition software
- Pin alignment for fastest throughput
- Combination of both above modes

Serialization Dynamic legend

The CP562 is able to print dynamic markings linked to legend files. The markings are easily programmed by D-code mapping or by using **SERIMARK** dedicated software interface.
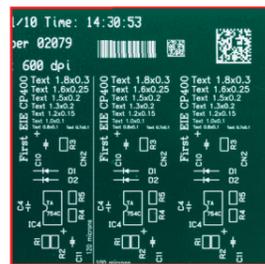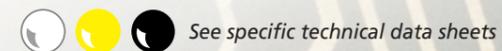
Supported Markings :
- Date and Time
- Scale factors
- Serial Numbers
- Keyboard inputs
- Text
- 1D, 2D barcodes

IMH512 Printing Head

More robust - Less clogging

The CP562 integrates the newly released proprietary IMH512 Print Head based on a reliable Drop on Demand System of continuous 512 jets. Controlled by an advanced electronic technology, this engine jets the legend ink at very high frequency in "single wall" mode allowing to fire all **512 jets at the same time.**
It delivers well aligned drops with an optimum mass ensuring uniform and well contrasted prints with most jettable inks.

Main features

- *Temperature regulation for compatibility with most UV / Thermal Inks*
- *UV Pinning System Option*
- *Autonomous Ink Recycling System*
- *Automatic head maintenance*
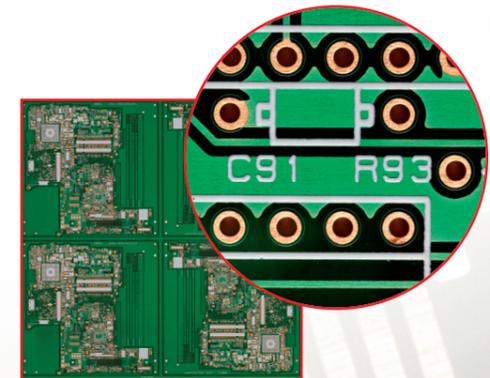- *Modular design for easy servicing*

MPS Software and User Interface

The CP562 MPS software offers a very user-friendly interface and superior flexibility.
It brings to the CP562 the vast experience of First EIE in Data interpretation and processing.
A number of software wizards are available to safely and quickly perform re-calibrations and adjustments when necessary.
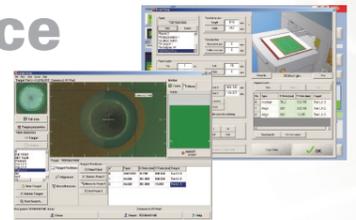
3 Print modes

High Speed
Highest throughput and good print quality

Standard
Very good quality at standard speed

High Quality
For enhanced definition and contrast

UV or Thermal cured Legend Inks

Optimal adhesion on most commun solder masks

The new IMH512 Print Head is compatible with most jettable Legend Inks, **UV or thermal** cured, of different colors.

See specific technical data sheets

Extensive production tests have shown very good legibility, remarkable ink color density **with one single printing pass.**

Low Power Consumption · Simplicity · Reliability · Throughput · Flexibility · Quick Set up · No Tooling · Scaling · Registration · Serialization