Legend Printer

CP400

IMH series

SWISS QUALITY

660 x 610 or 660 x 914 mm
26” x 24” or 26” x 36”

600 x 610 mm (24” x 24”)
660 x 914 mm (26” x 26”)

CP462 CP492

General Specifications

Max. Panel and image size
660 x 610 mm (26” x 24”)
660 x 914 mm (26” x 26”)

Panel Thickness
0.1 to 12 mm (0.004” to 0.47”)

Substrate type
Most common solder masks

Panel holding
Vacuum / First EIE Clamping System

Panel Unloader
First EIE 6619 Series

Legend Ink
UV or thermal curable. See specific technical data sheets

Print mode
High quality
Minimum line width: 75 µ

Standard
Minimum line width: 100 µ

High speed
Minimum line width: 100 µ

Safe
Minimum line width: 100 µ

Print time
High quality
UV ink: 56 sec
Thermal ink: 36 sec

Standard
UV ink: 48 sec
Thermal ink: 48 sec

High speed
UV ink: 32 sec
Thermal ink: 42 sec

Overall accuracy
± 30 µ (± 1.2 mil)

Repeatability
± 10 µ (± 0.3 mil) (Standard resolution)

Operating conditions
Temperature - Relative humidity
23 ± 5°C - 50% ± 10% (non-condensing)

Power requirements
230 VAC ± 10%, 1400 W

Compressed air
Minimum: 4 bars, 65 l/min (86 psi, 2 cfm)

Width x Depth x Height
1580 x 1830 x 1414 mm (62.2” x 72” x 55.7”)

Size and weight
Width x Depth x Height
1580 x 2450 x 1414 mm (62.2” x 96” x 55.7”)

Weight
850 kg (1873 lbs)
950 kg (2093 lbs)

User interface
Windows based, including First EIE MPS and Print Queue Manager Software

Panel alignment and registration
Manual with locating pins

Dynamic Panel Warp Compensation
Automatic head to panel distance adjustment

Elevation table
Customized according to panels size

Panel Unloader
Integrated system unloading on most compatible UV Curing equipment or conveyor installed in-line

Serialization
Serial numbers, times, barcodes, etc... by D-code mapping with First EIE Serimark Software

UV curing system
On-the-fly UV curing system for liquid ink

Built-in raster image processor
Data input formats
RS274, RS274c, E9 R9, and DPM

Optional input formats
UOA++, Image S5500, MVP, PAC8115

Network compatibility
Windows, TCP/IP

Printing unit
On-the-fly UV curing system for liquid ink

UV pinning system
On-the-fly UV curing system for liquid ink

Under vacuum / First EIE Clamping System

First EIE IMH 512

UV or thermal curable. See specific technical data sheets

RS274, RS274c, E9 R9, and DPM

Optional input formats
UOA++, Image S5500, MVP, PAC8115

Network compatibility
Windows, TCP/IP

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NEW IMH512 Printed Head

These new models integrate the newly released proprietary IMH512 Print Head based on a reliable Drop on Demand System of 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 512 jets at the same time. The drop alignment is optimal; the printing speed is very fast while keeping low the number of jets and therefore the risk of jet failure.

Main features
- Ink Recycling System
- Modular design for easy maintenance
- Heating System adaptable to UV & Thermal Legend Inks
- UV Printing System Option
- Electronic anti-collision device

NEW First EIE Clamping System

Panel warpage control is, after ink adhesion the second most critical point concerning Legend printing with ink jet. First EIE has successfully addressed this issue with its new Elevation table that clamps the panels edges and keep the print surface at the same height whatever the panel thickness.

Together with an improved Dynamic Auto Height adjustment Laser system all risks of head crash are avoided and the printing distance is well controlled to ensure good ink drop alignment and best print quality.

The Auto height adjustment system is capable of absorbing planarity defects up to 0.04" in 7” traverse distance which reduces drop placement errors to nearly zero.

INFORMATION

IN K JET LEGEND PRINTER ADVANTAGES

Flexibility – Quick Setup – No Tooling – Scaling/Registration – Serialization – No Skilled Operator

UV OR THERMAL CURABLE LEGEND INK

The new IMH512 Print Head is compatible with several kinds of Legend Inks, UV or thermal curable, of different colors. Extensive in-house and production tests have shown very good legibility, remarkable ink whiteness and contrast without multiple printing passes.

See specific technical data sheets

FIRST EIE MPS Software and User Interface

The latest CP400 series software offers a very user-friendly interface and superior flexibility. It brings to the CP400 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. The system integrates automatic head maintenance and ink recycling.

Markings supported:
- Date, Time
- Scale factor
- Serial Number
- Keyboard inputs
- Text, 1D, 2D barcodes

Serialization - Dynamic legend

The CP400 is able to add dynamic markings to legend files. The markings are easily programmed by D-code mapping or by use of SERIMARK, a dedicated software interface.

FIRST EIE

High Quality - High resolution for the finest line with the best contrast
Standard - Best compromise between Resolution and Speed
High Speed - For Simple job with High throughput
Safe - To be able to print very warped panels