



### Flexible and future-proof machine concept, easy operation, perfect production results

The VERSAPRINT F1 is the ideal printer to enter line production and is perfectly suitable for customers expecting perfect prints from a very easy-to-operate printer system.

The printer is equipped with an area camera that uses two separate camera modules. Both modules have two illumination techniques: direct and diffuse illumination, thus qualifying them to recognize even most complicated structures on the substrate.

Nothing is left to be desired with the wide range of options permitting the user to optimally adapt his F1 printer to his production needs. Setup control, Data Matrix Code reader, retractable clamping down bars, air conditioning and PCB

dispenser are only a few examples of the options available.

The VERSAPRINT F1 machine concept is completely new on the other hand. More space was needed and added between stencil and PCB to integrate new features which are already being developed. The camera still moves between both media. The stencil is aligned and lowered onto the PCB for the print.

What is new, however, is that the stencil can move a considerably higher distance upwards after printing, thus creating virtually unlimited space between board and stencil - space for new options.

#### Features Ersa VERSAPRINT F1

Stencil cleaner	<input type="checkbox"/>
PCB inspection: paste on pad, recognition of solder bridges and print offset	<input type="checkbox"/>
Stencil inspection: clogging and smearing	<input type="checkbox"/>
Dispenser for print media on stencil	<input type="checkbox"/>
Dispenser for media for second-pass dispensing on the substrate	<input type="checkbox"/>
Substrate thickness control – stencil	<input type="checkbox"/>
Retractable over-top clamping device	<input type="checkbox"/>
Temperature control	<input type="checkbox"/>
Data Matrix Code reader – top- and bottom side	<input type="checkbox"/>
Set-up control	<input type="checkbox"/>
Supporting systems: VarioGrid, GridLok and Quik-Tool	<input type="checkbox"/>

standard ■ / option □

## High-precision screen printer for the perfect entry into line production

### Substrate handling

min. substrate size (X x Y):	50 x 50 mm
max. substrate size (X x Y):	610 x 508 mm
Substrate thickness:	0.5 - 6 mm
Component clearance:	0 - 30 mm

### Stencil mount

min. stencil size:	450 x 450 mm; adjustable without adapter
max. stencil size:	737 x 737 mm; adjustable without adapter

### Print parameters

Print head	two independent print heads; continuous pressure control in a closed-loop system; adjustable squeegee down stop weight compensation for different squeegee length
Print force:	0 – 260 N

### Vision

Camera:	area camera for alignment and inspection
FOV (field of view)	10.5 x 8 mm

### Performance

Repeatability:	12.5 µm @ 6 Sigma
Print accuracy:	25 µm @ 6 Sigma
Cycle time:	<10 s + print option: <7 s + print
Setup time:	<10 min
Product change:	<2 min

### Machine operation

Graphic user interface:	SEMI Standard E95-1101
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### Machine dimensions

Width x depth x height:	1,300 x 1,800 x 1,600 mm
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