Performance

Positioning accuracy	±10μm(6σ)
Printing accuracy	±18μm(6σ)
Cycle time	8.5 sec + Printing time
Product changeover time	3min or less
New product set-up time	10min or less

Board handling

Max. Size (L x W)	510mm x 510mm
Min. Size (L x W)	50mm x 50mm
Thickness	0.4~6mm
PCB thickness adjustment	Automatic
PCB Max. Weight	5kg
PCB edge clearance	3mm
PCB bottom clearance	23mm
PCB warpage	Max. 1% diagonally
Clamping method	Auto retractable top clamp, motor controlled side clamp
Support method	Magnetic support pins, bars, blocks, vacuum suction
Conveyor direction	L to R, R to L, R to R, L to L (software control)
Conveyor height	900 ± 40mm
Conveyor speed (max.)	1,000mm/s
Conveyor width adjustment	Automatic

Optical system

Field-of-View (FOV)	10mm x 8mm
Fiducial types	Circle, triangle, square, diamond, cross
Fiducial size	0.5~4.0mm
Vision methodology	Digital CCD camera look up & down
2D inspection	Max.100 windows (10mmx8mm) to inspect missing & insufficient

Printing parameters

Stencil frame size (L x W)	Adjustable, 470 x 370mm to 737 x 737mm
Print gap	0~20mm
Printing table adjustment range	X: ±10 mm, Y: ±10mm θ: ± 2°
Print speed	10~200mm/s
Squeegee pressure	0~10kg (program control)
Cleaning system	Auto wet, dry, vacuum (Software select)

Squeegee type

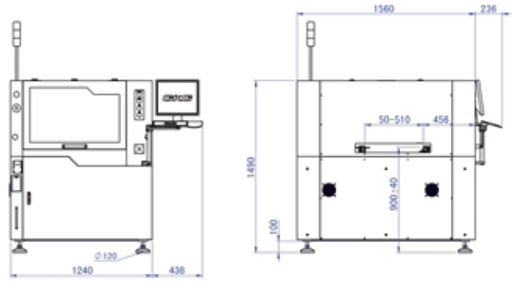
Metal squeegee	210mm, 280mm, 350mm, 420mm, 520mm
Rubber squeegee	210mm, 280mm, 350mm
Squeegee angle	Std. 60°

Facilities requirement

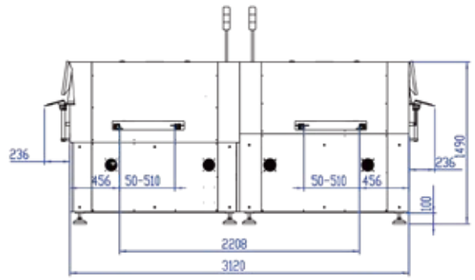
Power supply	Single-phase AC200V~240V 50/60Hz
Power consumption	3kW
Air supply	0.4 ~0.6MPa/cm²
Air consumption	5L/min
Dimension (excluding signal tower)	1,240 (L) x 1,560 (W) x 1,490 (H)
Machine weight	1,200kg

Operator interface

Hardware	LCD Monitor, Mouse & Keyboard
Operating system (OS)	Windows 7
Control method	Industrial PC controlled
I/O Interface	SMEMA Standard



*The monitor can be mounted on either the left or right side.



*Back to back

*Please refer to the product specifications for details.
■JUKI Specifications and appearance may be changed without notice.

JUKI SMT SITE

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JUKI CORPORATION HEAD OFFICE
The activities of research, development, design, sales, distribution, and maintenance services of industrial sewing machines, household sewing machines and industrial robots, etc., including sales and maintenance services of data entry systems.

MANUFACTURER : ***GKG PRECISION MACHINE CO.,LTD***

INQUIRY : JUKI AUTOMATION SYSTEMS CORPORATION

2-11-1, Tsurumaki, Tama-shi, Tokyo 206-8551, JAPAN
TEL.81-42-357-2293 FAX.81-42-357-2285

www.juki.co.jp

JUKI AUTOMATION SYSTEMS GMBH. www.juki-smt.com
JUKI AUTOMATION SYSTEMS INC. www.jukiamericas.com
TOKYO JUKI INTERNATIONAL TRADING (SHANGHAI) CO.,LTD. www.jukichina.com
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JUKI SMT ASIA CO.,LTD.

Apr- 2021/Rev.01

Solder Paste Printer

RP-2(HP)/RP-2(B)

JUKI Smart Solutions

High Precision Solder Paste Printer with excellent cost performance

SOFTWARE STORAGE PRINTING INSPECTION PLACEMENT INSERTION SOLDERING

High Precision Solder Paste Printer with excellent cost performance

Solder Paste Printer

Multi-function model

RP-2(HP)

Basic model

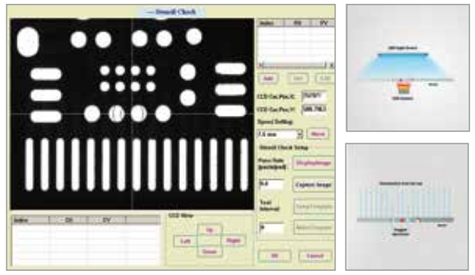
RP-2(B)

PCB size : 50×50 mm - 510×510 mm
Cycle time : 8.5 sec+Printing time
Positioning accuracy : ±10μm(6σ)
Printing accuracy : ±18μm(6σ)
Stencil frame size : 735 ×735 mm/t : 30 mm

Quality Print Control (QPC) - Nothing is more important than a GOOD print

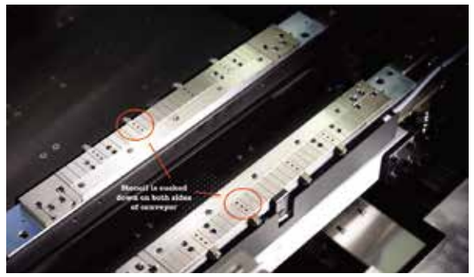
Stencil aperture inspection system HP

Using panel light installed at the top and CCD camera below to inspect stencil apertures.
It automatically detects the clogging of stencil apertures to eliminate poor quality stencil being used, ensure quality printing right from the start.



The Stencil lock & PCB clamper

The Stencil lock sucks the stencil firmly on both sides of the conveyor during printing cycle.
To eliminate stencil vibration by having firm contact with PCB.
The PCB clamper is a combination of retractable top clamp and motor controlled side clamp, uniquely designed by GKG (patented).
With these standard features, all of today' s available and challenging substrates can be securely clamped and print to the highest quality.



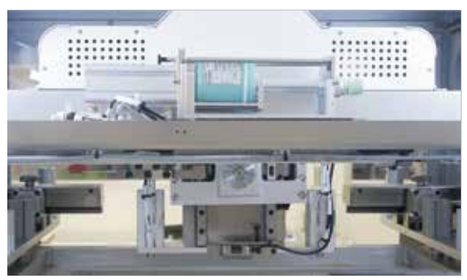
SPI Close-loop connection

With SPI close-loop system, machine will automatically adjust and correct the print deposits based on the feedback given with regards to poor printing quality. This will facilitate improved print quality and production efficiency, by forming a complete printing feedback system.

Optimum-Paste Control (OPC) - Get ready for lights - out manufacturing

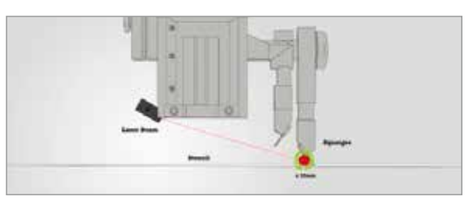
Auto solder paste replenishment system HP

The solder paste is automatically dispensed across the entire squeegee length, maintaining at 15 mm rolling diameter, adopting the common 500 grams' solder paste jar.
Completely eliminates the wastage of solder paste overflowing to the sides of squeegee.



Solder paste rolling diameter monitoring system HP

Tracing solder paste rolling diameter in real time and trigger the auto dispensing if it falls below 10 mm. Completely eliminate insufficient solder paste on stencil and keep the paste rolling speed within optimum range to achieve best printing result.



Specifications, Options (S: Standard, O: Option, N/A: Not Applicable)

Features	RP-2 (HP)	RP-2 (B)
Metal squeegee 210, 350 mm	S	S
Metal squeegee 280, 420, 520 mm	O	O
Rubber squeegee 210, 280, 350 mm	O	O
Stencil lock	S	S
Auto table adjustment for pcb thickness	S	S
Support block hit prevention system	S	S
Stencil y-direction position memory	S	S
Support pins set	S	S
Support blocks set	S	S

Features	RP-2 (HP)	RP-2 (B)
Printing table vacuum system	S	S
Auto paste dispensing (rear mounting)	S	N/A
Paste rolling diameter monitoring system	S	N/A
Temperature humidity monitoring & display	S	N/A
Internal barcode scanner for pcb traceability	O	N/A
Hand held scanner	O	O
Stencil aperture inspection system	S	N/A
Spi closed-loop	O	O
2D Inspection (Max. 100 point)	S	S