

GLPLUS

JUKI®

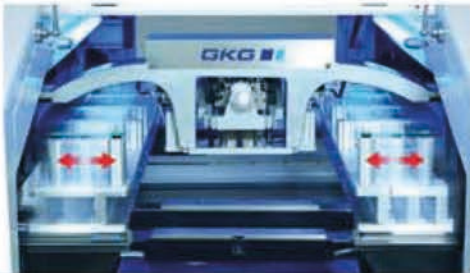
LOWEST COST OF OWNERSHIP

The power of continuous improvement





Advanced Performance, Enhanced Value



Adjustable Stencil X Frame Mechanism

By using joystick like handles, X Frame size can be adjusted to suit stencil size of 480 x 500 mm to 737 x 737 mm without using any stencil adapter. Stencil can be easily slotted into the frame mechanism and clamped firmly by 8 plungers (4 on each side).



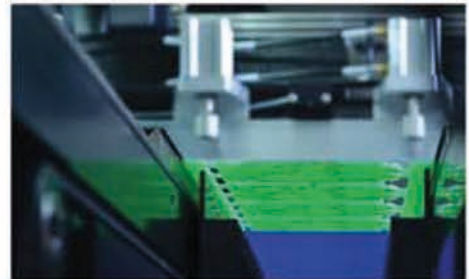
Arch Shape Squeegee Beam

The arch shaped Squeegee Beam is made by solidly casted high intensity steel material. It provides rigidity and durability to the entire squeegee assembly for stable and balanced squeegee movement.



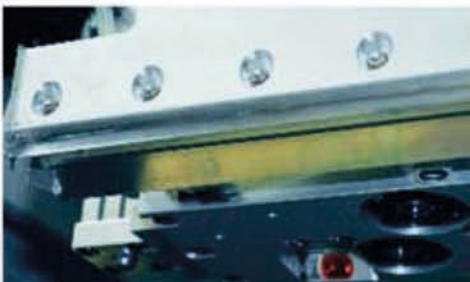
Automatic Stencil Wiper System

Two way automatic wet/dry/vacuum stencil wiper allows user to select any combination of cleaning mode. A new designed wetting unit guarantees economical use of cleaning fluid.



FAC (Flexible Automatic Clamping) System

It is a combination of retractable top clamp and motor controlled side clamp uniquely designed by GKG (Patented). With this standard feature, majority of today's available and challenging substrates can be securely clamped and printed with best result from the very first board.



Paste Roll Height Monitoring System

A laser sensor is mounted on the back of the squeegee head and measures the solder paste bead diameter during the printing stroke. If solder bead diameter is below a threshold due to lack of paste the operator gets a warning or the optional automatic paste dispenser is triggered.



Single Stage Conveyor with U-Shape Belt

Automatic conveyor width adjustment, software control flow direction (L>R, R>L, L>L, R>R) and the highly durable Anti-Static U-shaped belt are standard features. Conveyor belt is driven by stepper motor with a precision controlled PCB soft stop position.



Swappable Monitor Position

Monitor and keyboard can be mounted on either left or right side of the machine to suit the line configuration of customer's SMT lines.

SPM (Stencil Position Memory) System

To set mechanical stop for the Y position when loading the stencil. Stencil position is saved with each file. This feature tremendously reduces product changeover time.

User Friendly Software

An easy to use software enables operators to create programs quickly.

Vision and Optics System

The simultaneously Look Up/Look Down optical camera system adopted uniform ring light and high brightness coaxial light, equipped with adjustable brightness control can handle all kinds of fiducial marks with high resolution and precision.

2D Paste Inspection Function

The 2D paste inspection function can be used to inspect solder paste deposition at critical location such as micro BGA or QFP immediately after printing to ensure print quality.

APC (Automatic Pressure Check) System

During start up or whenever there is a change of product, both front and rear squeegees will automatically do a pressure check by a tactile sensor to ensure that the optimum squeegee pressure is adopted.

Easy Access Swing Cabinet

All electrical parts such as servo motor drivers, power supply boards etc. are mounted neatly on a swing cabinet at the rear side of the machine for easy accessibility.



Stencil Inspection System

Together with the internal lighting unit the built-in camera can detect clogged stencil apertures. A cleaning cycle can be automatically triggered to remove dirt before a possible misprint appears.



Auto Paste Replenishment System (Option)

Solder paste from can (500 g) or cartridge (6 or 12 oz) can be dispensed automatically to prevent misprints caused by lack of paste on the stencil.



External Temperature Control Unit (Option)

This unit maintains constant temperature inside the printer to ensure optimal processing of solder paste.

Specifications

Performance

Process Alignment Capability	2 Cpk@ ± 25 microns 6 sigma
Machine Alignment Capability	2 Cpk@ ± 12.5 microns 6 sigma
Core Cycle Time	< 8.5 secs (Excluding printing & cleaning)
Product Changeover time	2 min
New Product Set up time	10 min

Board Handling

Maximum Size (L x W)	510 mm x 510 mm
Minimum Size (L x W)	50 mm x 50 mm
Thickness	0.4 mm to 6 mm
PCB Thickness Adjustment	Auto leveling
PCB Support Methods	Magnetic pins, support blocks, vacuum
PCB Clamping Methods	Retractable top clamp & motor controlled side clamp
PCB Max. Weight	5 Kg
PCB Edge Clearance	3 mm
PCB Bottom Clearance	23 mm
PCB Warpage	Max. 1% diagonally
Conveyor Direction	L > R, R > L, R > R, L > L (Software controlled)
Conveyor Height	900 ± 40 mm
Conveyor Speed	Max. 1500 mm/sec
Conveyor Width Adjustment	Auto

Printing Parameters

Stencil Frame Size (L x W)	Adjustable, 480 mm x 500 mm to 737 mm x 737 mm
Print Head	Arc shaped beam with 2 independent double linear guide motorized heads
Print Mode	Single / Double (Software select)
Printing Table Adjustment Range	X: ± 10 mm; Y: 10 mm; 0: ± 2°
Squeegee Type	Metal: 280 mm, 350 mm, 520 mm (Std.), other size opt.
Squeegee Pressure	0 ~ 10 Kg (Programmable) come with APC (Std.)
Squeegee Speed	10 ~ 200 mm/sec
Squeegee Angle	Std. 60°, Option 45°, 50°, 55°
Cleaning System	Auto wet/dry/vacuum combination (User edit)

Optical System

Vision Method	Single camera simultaneously Look Up/Look Down
Field of View (FOV)	8 mm x 6 mm
Fiducial Type	Circle, triangle, square, diamond, cross
Fiducial Size	0.5 ~ 4.0 mm
2D Inspection	50 to 100 windows to inspect missing, insufficient (Std.)

Operator Interface

Hardware	LCD Monitor, Mouse & Keyboard (Swappable left or right position)
Operating System (OS)	Windows 7 or higher
Control Method	Industrial PC controlled
I/O interface	SMEMA standard

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MANUFACTURER: **JUKI CORPORATION**
INQUIRY: **JUKI AUTOMATION SYSTEMS EUROPE**

HEADQUARTERS

Juki Automation Systems AG
Glutz-Blotzheim-Strasse 3
4500 Solothurn
Switzerland
Phone: +41 32 626 29 29
Email: info-europe@jas-smt.com

SUBSIDIARY GERMANY

Juki Automation Systems GmbH
Neuburger Str. 41
90451 Nuremberg
Germany
Phone: +49 911 93 62 66 0
Email: info-europe@jas-smt.com

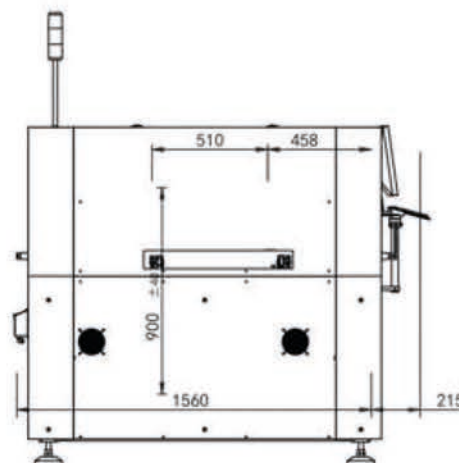
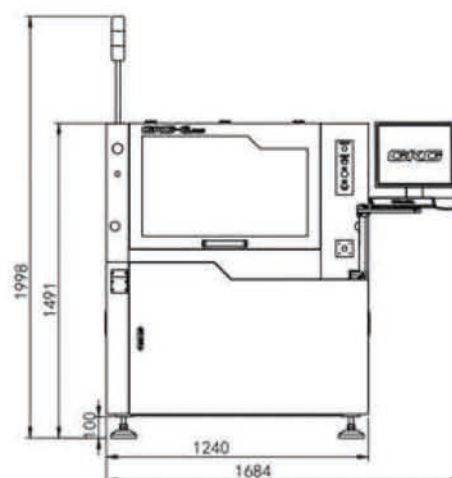
Facilities Requirement

Power Supply	AC220V ± 10%, 50/60 Hz, single phase
Air Supply	4 ~ 6 Kg/cm ²
Power Consumption	3 KW
Dimension (Exclude signal lamp)	1240 (W) x 1560 (D) x 1491 (H) mm
Machine Weight	Approximately 1200 Kg

Options

Auto paste replenishment system, external temperature control unit, metal squeegees assembly with user specified length and angles, rubber squeegee and pressurized air connection for stencil frames.

Dimensions



JUKI CORPORATION HEAD OFFICE

An environmental management system to promote and conduct the following:
(1) Eco-friendly development of products and technologies
(2) Green procurement and green purchasing
(3) Energy conservation (reduction in carbon dioxide emissions)
(4) Resource saving (reduction of papers purchased, etc.)
(5) Reduction and recycling of waste
in the activities of research, development, design, sales, distribution, and maintenance services of industrial sewing machines and industrial robots, etc., including sales and maintenance services of data entry systems.

SUBSIDIARY UNITED KINGDOM

Juki Automation Systems Ltd
The Beehive, Beehive Ring Road
Gatwick Airport, West Sussex, RH6 0PA
United Kingdom
Phone: +44 1293 80 45 62
Email: info-europe@jas-smt.com