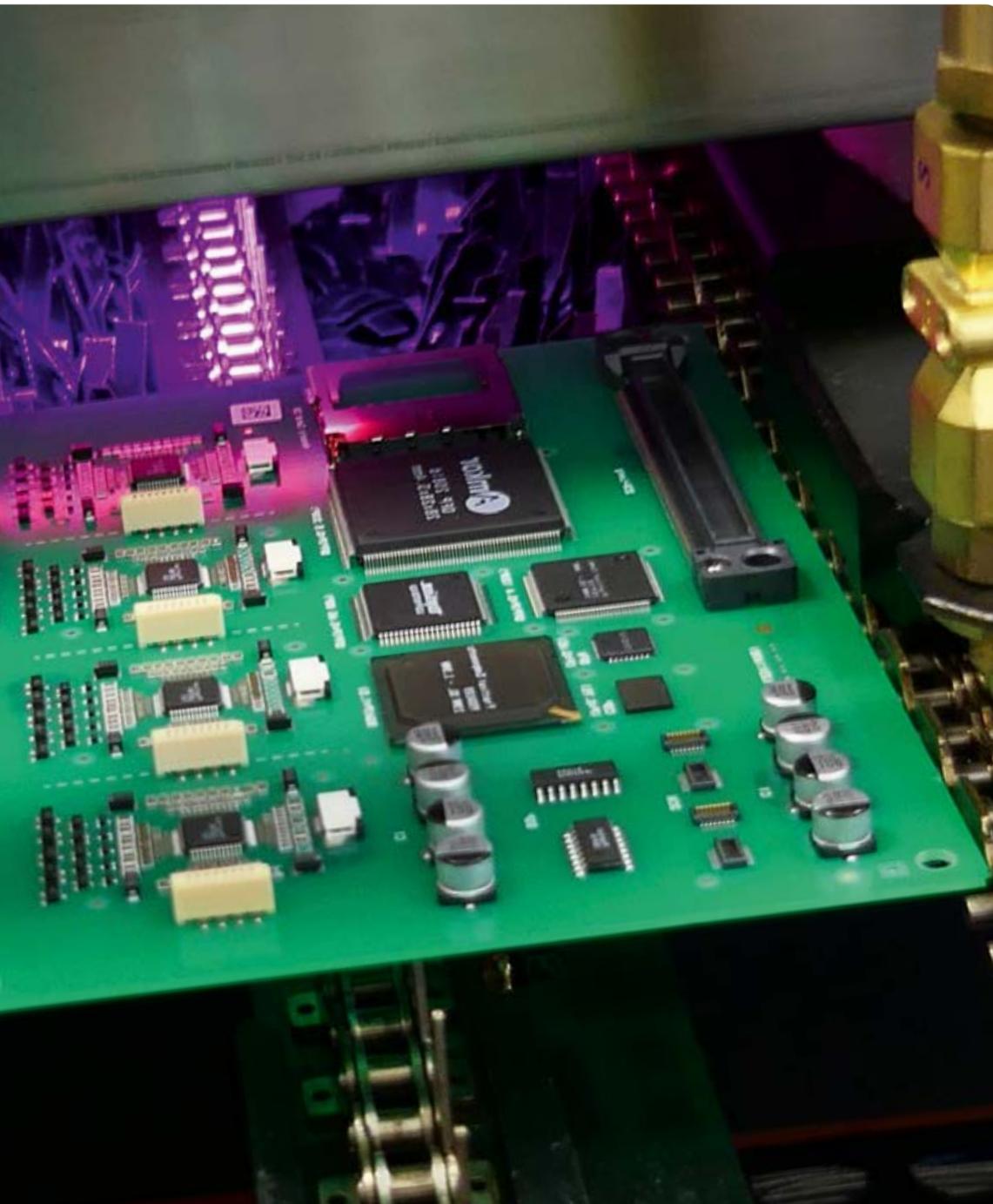


SOLDERING SOLUTION

| RS 600 | RS 800 | RS 1000

Reflow Oven Series



REFLOW SOLDERING PORTFOLIO

6 REFLOW OVEN VERSIONS FOR NEEDS-BASED ASSEMBLY LINE SOLUTIONS



RS 600 - 6-ZONE AIR/NITROGEN

- | Inexpensive and space-saving
- | Low energy consumption and short warm-up time (25 minutes)
- | Also available as a version with nitrogen injection in the heating zones



RS 800 - 8-ZONE AIR/NITROGEN

- | Best compromise between machine footprint, energy consumption and flexibility in creation of profiles
- | Nitrogen injection, dual-lane conveyor and extra-wide conveyor (610 mm) available as an option



RS 1000 - 10-ZONE AIR/NITROGEN

- | Maximum flexibility in the creation of profiles thanks to 10 adjustable heating zones and 2 cooling zones
- | Due to an increased number of heating zones, it is possible to reduce the cycle times compared to reflow oven with less zones

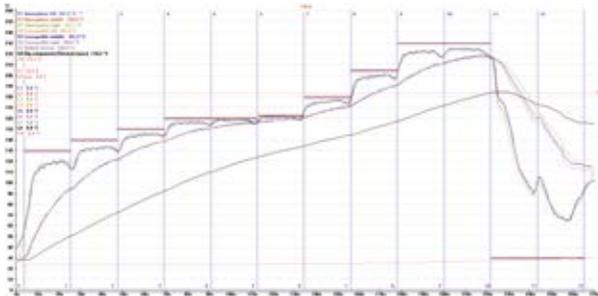
SIX MACHINES – ONE TECHNICAL CONCEPT

PERFECT REFLOW SOLDERING AT LOWEST POSSIBLE COSTS

Optimum thermal properties, such as a low ΔT across the PCB width, ensure reliably good soldering results throughout the machines' entire life.

Among the many standard functionalities are the following:

- Automatic chain lubrication
- Board drop & jam alarm: jams are prevented, and the PCBs are kept from falling off the conveyor belt
- SMEMA and Ethernet interfaces
- Timer for automatic activation and shutoff
- Software with logging function: documentation of all alarms and changes made to the settings during a production run



Reflow ovens with nitrogen connection are equipped with a water cooling system to ensure effective cooling and flux separation.

Since the operating temperature is reached very quickly, the operating costs are kept low.

Sophisticated insulation allows for low energy consumption in continuous operation.

3-year JUKI guarantee, also on the fans and heating elements.

USEFUL OPTIONS

- Dual-lane conveyor for increased throughput
- Integration into the JUKI-IFSNx/TTC system for process control and traceability: The boards are not loaded until the reflow oven's profile has been verified; all profile data are saved with reference to the PCBs
- Mesh conveyor belt or central board support (CBS)
- Oxygen analyser to monitor the PPM value in case of nitrogen injection
- Extra-wide conveyor (610 mm) available



SPECIFICATIONS

	RS 600	RS 800	RS 1000
Process-specific features			
Number of heating zones	6	8	10
Number of cooling zones	1	2	2
Heated distance, total (in mm)	2,340	3,120	3,900
Cooled distance, total (in mm)	440	800	800
Temperature range, heating zones (in °C)	20-300	20-300	20-300
High-temp option (up to 350°C, optional)	x	✓	✓
Individually adjustable top and bottom zone temperature	✓	✓	✓
Top/bottom fan	✓	✓	✓
Fan speed individually adjustable in each zone	✓	✓	✓
Warm-up time (in min)	25	35	35
Nitrogen process gas (optional)	✓	✓	✓
External water cooler for PCB cooling and condensate separation	Standard when selecting the nitrogen option		
ΔT cross profile	< ±2 °C		
Handling and transport of the PCB (printed circuit board)			
Min./max. PCB width (in mm)	50/460	50/460	50/460
Top/bottom component clearance (in mm)	25/30	25/30	25/30
Adjustable range, transport speed (in cm/min)	30-200	30-200	30-200
610 mm PCB width option	x	✓	✓
Transport on mesh/pin chain conveyor	✓	✓	✓
Central support for free positioning (optional)	✓	✓	✓
Transport direction from right to left (optional)	✓	✓	✓
Machine properties and dimensions			
Dimensions (L × W × H in mm)	4,205 × 1,320 × 1,505	5,380 × 1,320 × 1,505	6,160 × 1,320 × 1,505
Weight (in kg)	1,900	2,400	2,600
PC and software			
Operating system	Windows 7		
Interfaces	Ethernet, USB, SMEMA, Cogiscan IFSNx/TTC		
Operating requirements			
Power supply	400 V/3-phase		
Average power consumption during activation/production (in kW)	24/6,5	30/9	36/10
Exhaust air	2 × 10 m ³ /min		
Nitrogen (optional)	5 bar		
Ambient conditions	5-40 °C, 20-65 % RH		
Standard equipment (selection)			
	Automatic chain oiling system / UPS / board drop & jam alarm / Start-up and shutoff timer / 3-year JUKI guarantee (including fans/heating elements)		
Further available options and accessories (selection)			
	Dual-Lane configuration / automatic setting of conveyor width and CBS position		

05/2018_Rev01

Specifications and design subject to change without notice.

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