

Full Surface Infrared Preheating

Rapid Preheating and Maintains Board Temperature During Soldering



Circuit board undergoing preheating

Features and Benefits

- Closed-loop pyrometer control measures board temperature and adjusts infrared system output accordingly
- Full surface infrared preheating for uniform preheating of large printed circuit board assemblies
- Individual zones can be activated and controlled separately based on board size
- Preheat ramp rate can be programmed and controlled to a precise temperature and to achieve energy savings
- Available on all Novo® 300, 300SD, 460, Cerno® 300S, 508.1, Integra® 508.2, 508.3, 508.4 and 508.5 models

Overview. Conventional preheating units work on a time/output basis. Here the preheating is provided with a specific heat output over a specific period. Depending on the printed circuit board, this leads to different temperatures on the assembly. The Nordson SELECT units for selective soldering are closed-loop pyrometer controlled so the temperature is constantly measured directly on the top surface of the printed circuit board and the infrared emitters are adjusted accordingly. The user can specify a desired preheat temperature and the machine heats the assembly precisely to that range which prevents overheating of the assembly.



Topside and bottom-side infrared preheating

Integrated Solution. The Full Surface Infrared Preheating fully integrates with closed-loop process controls contained in Nordson SELECT's PhotoScan software providing seamless operation for your selective soldering process. Nordson SELECT's closed-loop process controls enable successful results for a full range of soldering applications and ensures stable and repeatable results for high-yield production.

Experience. With over a decade of selective soldering experience and more than a thousand systems currently in production, Nordson SELECT is committed to providing innovative solutions for all selective soldering needs. Our global support network, including state-of-the-art application development labs, provides customers with world-class know-how and application expertise.

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Available Preheating Modules

Full surface topside and bottom-side infrared preheating modules are available in a range of various power outputs for the following Nordson SELECT models:

Nordson SELECT Model	Max. Board Size	Preheat Power Output	Number of Preheat Modules
Novo® 300	500 x 300 mm (19.6 x 11.8 in.)	1.5 kW to 4.5 kW	1 - 2
Novo® 300SD	300 x 300 mm (11.8 x 11.8 in.)	1.5 kW to 4.5 kW	1 - 2
Novo® 460	460 x 460 mm (18.1 x 18.1 in.)	1.5 kW to 6.0 kW	2 - 3
Cerno® 300S	500 x 300 mm (19.6 x 11.8 in.)	1.5 kW to 4.5 kW	1 - 2
Cerno® 508.1	508 x 508 mm (20.0 x 20.0 in.)	6.0 kW to 12.0 kW	2 - 3
Integra® 508.2	508 x 508 mm (20.0 x 20.0 in.)	6.0 kW to 12.0 kW	2 - 3
Integra® 508.3	508 x 508 mm (20.0 x 20.0 in.)	6.0 kW to 18.0 kW	2 - 3
Integra® 508.4	508 x 508 mm (20.0 x 20.0 in.)	9.0 kW to 18.0 kW	3 - 4
Integra® 508.5	508 x 508 mm (20.0 x 20.0 in.)	9.0 kW to 24.0 kW	4 - 6

Compatible with Novo® 300, 300SD, 460, Cerno® 300S, 508.1, Integra® 508.2, 508.3, 508.4 and 508.5 models

For more information
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