



ENGINEERING ▪ PROJECTS ▪ CONSULTANCY  
PCB INDUSTRY ▪ MECHANICAL ENGINEERING ▪ DESIGN

## HOT AIR SOLDER LEVELER

### HASL NTO-2424LFS

The Hot air solder leveler model NTO-2424 is built to meet the current performance criteria. High quality, simple operation and maintenance at minimum costs is giving this machine access to both small and large volume production facilities.

Special attention has been given to those typical critical areas resulting in this high quality and reliability machine, in order to secure the superior quality of Hot Air Solder Leveled Printed Circuit Boards in the following years. The soldering machines of New technology Overman is specially designed for the new requirements in PCB manufacturing.

Easy accessibility to clean the solder, maintenance friendly, simple operating, easy acces to the removeable solder pump. HASL NTO-2424LFS is an electrical controlled version.



Example picture of NTO-2424 machine

#### TECHNICAL DATA:

Type :	<b>NTO-2424LFS</b>
Application :	<i>Tin / Lead solder and Lead free solder</i>
Construction :	<i>All stainless Steel, except for standard components of other materials.</i>
Dimensions (LxWxH) :	<i>1900 x 1000 x 2300mm - 74,8" x 39,4" x 90,5" inches</i>
Weight (Kg – Lbs) :	<i>± 800 Kg. – 1763 Lbs</i>
Max. Panel size (mm – inch) :	<i>610 x 530mm - 24" x 21"</i> <i>(Optional : 610 x 610mm - 24" x 24" when using Top guides)</i>
Max./Min Panel thickness (mm – mills) :	<i>0,8 - 6mm / 0,03 x 0,24 mills</i>
Capacity	<i>Up to 200 panels/hour.</i>



ENGINEERING ▪ PROJECTS ▪ CONSULTANCY  
PCB INDUSTRY ▪ MECHANICAL ENGINEERING ▪ DESIGN

Type :	<b>NTO-2424LFS</b>
Power	3 x 380 VAC 50 Hz., 32kW. - 3 x 220 VAC 60 Hz., 32kW
Control	electrical, pneumatic
Compressed air (bar – PSI) :	6-8 bar, 50 m <sup>3</sup> /hour, 300-500 ltr. air accumulator recommended. 87 - 116 PSI, 30 cfm, 68 -113 gallons air accumulator recommended. (1¼" input line)
Exhaust (m3 /hour - Cfm) :	approx. 2000-2200 m <sup>3</sup> /hour - 1180-1290 cfm
Solder capacity (Kg - lbs) :	Lead free : ± 330/365 Kg. - 730/805 lbs Lead/Tin : ± 375/415 Kg. - 825/915 lbs (lead/Tin or Tin, Electronic Quality recommended)
Solder pot :	Solder pot complete made of inox 316 material. Overflowing inner-pot with re-circulation pump. Spent flux overflow drain system. Solder pot complete insulated
Solder pump :	Stainless steel re-circulation pump with two variable speed.
Solder pot Heating :	Strip-heaters, PID temperature controlled, low and high alarm and over temperature safety lock.
Heat Exchanger (Air knives) :	Strip-heaters, PID temperature controlled, low and high alarm and over temperature safety lock.
Air knives :	Stainless steel or Titanium, release / lock mounting system; Self-cleaning; Adjustable orifice, distance, off-set and angle. Front panel pilot controlled pressure regulation with gauges.
Clamp actuation :	Foot pedal controlled pneumatic systems.
Clamps :	Frame supported and guided clamp system, with adjustable rail mounted fixture. Stainless steel or Titanium clamping system.
Up/down movement :	Pneumatic cylinder, 1 or 2 cycles selectable.
Safety :	Automatic operator safety window, safety switches on all doors, CE certificate.



**MADE IN NL**