



CUBE Inline⁺

The modular Soldering System
for highest efficiency

CUBE Inline⁺ for highest flexibility and efficiency

CUBE Inline⁺ The modular soldering system



The intelligent modular system, flexible for every kind of customer requirements. The best possible construction of all components of the system ensures a maintenance-friendly accessibility.

Clearly structured control

The simple, graphical programming allows a quick entry into the selective soldering. At the same time, the facility provides professional functions, such as process monitoring, DC-servomotors with bus connection.



Precise flux control

The drop jet fluxer is the perfect solution for flux application. Depending on the cycle time requirement, the system can be equipped with multiple spray heads. Optical monitoring of flux deposition via a light beam is standard on all INERTEC selective soldering systems, as an option we can also offer a flux flow monitoring system that will accurately measure the volume of flux being applied to each board.



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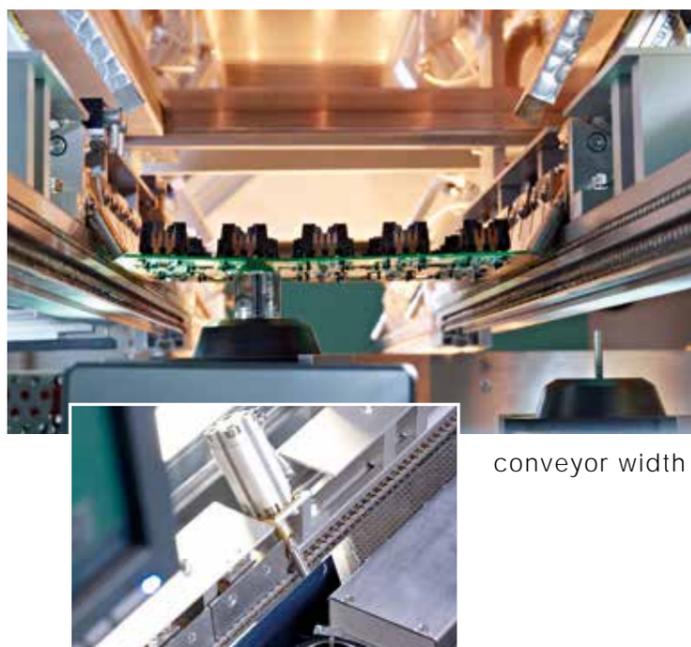


High efficiency preheating

Depending on the system specification, the number of preheating modules as well as the preheating type can be selected as desired.

The quartz preheating - which is the standard - provides efficient preheating with low energy consumption.

The PCB temperature can be controlled via an optional pyrometer and the values transferred in BDE data.



Robust conveyor

The segmented conveyor in the system is equipped with a pin chain.

The workpiece carrier or the PCB is placed precisely at the individual process positions through a stopper system. The system can be ordered with an automatic conveyor width adjustment as an option.

Process control & monitoring

Perfect process control is ensured by options such as a process camera, electronic monitoring of the soldering wave height, position correction by fiducial detection and bending of the PCB by a warpage control sensor.



Quick solder exchange

A quick change-over of the solder pot to enable the use of different solders is possible through a special trolley.



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Mini wave soldering module

The option nitrogen preheating of the perfectly designed solder nozzles enables the continuous heating of the joint during the soldering process and heats the immediate soldering area evenly.

The integration of two soldering units in the system offers the possibility to work with two different alloys or with different nozzle sizes.



Changeable solder nozzles

The advanced design of the nozzles allows a quick exchange. If products with a different nozzle size have to be soldered, the insert of the nozzle is simply changed to the appropriate nozzle diameter.



ActiveFlow soldering module

ActiveFlow allows a high energy transfer between the smallest component clearances for PCB up to dimensions of 400 x 400 mm. Through the construction of the system, short cycle times of 30 seconds aren't a challenge for INERTEC.



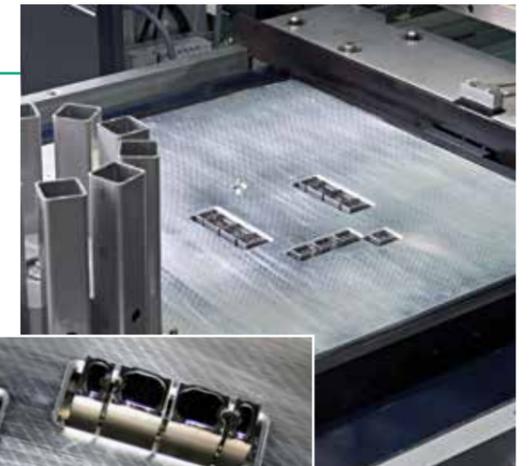
Simple tool change

The active flow module is maintenance friendly and can be driven out of the system by means of a motor either for maintenance or tool change over. The tool mount developed especially by INERTEC guarantees a quick and accurate - correct tool exchange.

The soldering height is actively controlled and ensures together with the nitrogen supply a perfect soldering result.

All components are coated. The stamps are made of titanium and therefore will not wear out or degrade like stainless steel stamps.

The circulation of the solder within the ActiveFlow creates a perfect soldering result caused by a targeted energy input, surrounding SMD components are not overheated.



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The INERTEC CUBE Inline⁺ modular system offers a modular system with all the required process stages according to customer specification.



From the basic design to the production line

The clever design of the modules makes retrofitting modules at a later date possible and of course back again. As required.



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