

STH® & SMD Full Lean Technologies



STH® Full Lean Technology

STH® Full Lean Technology for LARGE SCALE production: factory's work space and time are reduced by 70%.

Sauro looks at the future and after years of research and development, **we revolutionize PCB assembly**.

Introduces a new mixed technology between SMT (Surface Mount Technology) and THT (Through Hole Technology): our **STH**® technology (**S**MD Through Hole, also known as PiP-Pin in Paste- and THR-Through Hole Reflow- Technology), which pushes the use of extreme automation, resulting in **process cost saving** and reducing the percentage of errors.

Sauro **STH**® insulating material:



Stable above 275°C, can be therefore used in all reflow lead-free soldering





✓ MSL 1 graded (Moisture Sensitivity Level 1) according to IPC/JEDEC J-STD-020, therefore immune to damages caused by humidity



EN 60335, REACH and RoHS 2 compliant for home appliances

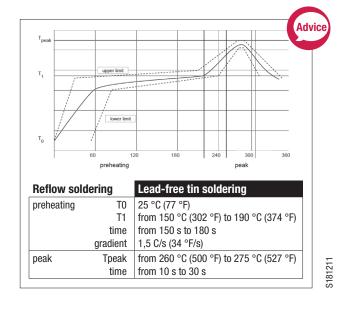
- strengthened with glass fibers
- stable above 275 °C, can be used in all lead-free reflow process
- with a thermal expansion ratio similar to the PCB's to avoid mechanical strain among the terminals and the PCB itself



STH®: no strain between the pins and the PCB



Example of strain between the pins and the PCB



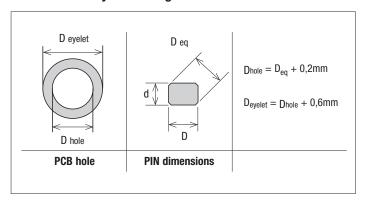
STH® Full Lean Technology



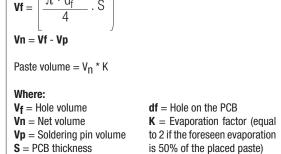
STH® products' assembly:

These data can be taken as reference in order to obtain an optimal soldering of STH® products, using the reflow oven.

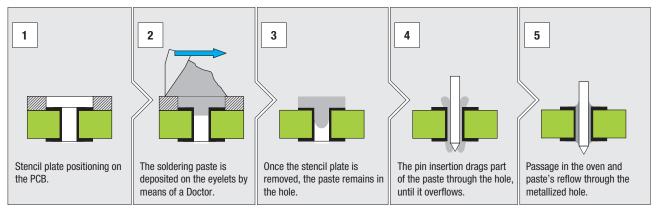
PCB holes and eyelets sizing



Soldering paste quantity



Assembly process and soldering



STH® Full Lean Technology

Sauro **STH**® products are suitable for PCB automated mounting, together with other SMD components, via pick and place systems (pliers or vacuum), thanks to:

- ✓ High mechanical precision, with subsequent strict tolerances
- Special precautions during the design stage of the insulating housing depending on the type of mounting used
- ✓ Packaging in tape on reel, tube or tray







automated assembly

11



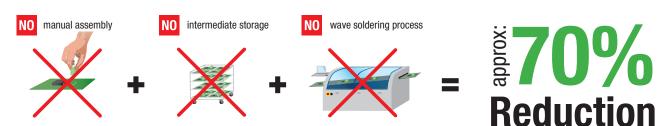
automated assembly of SMD components and STH® terminal blocks

reflow oven

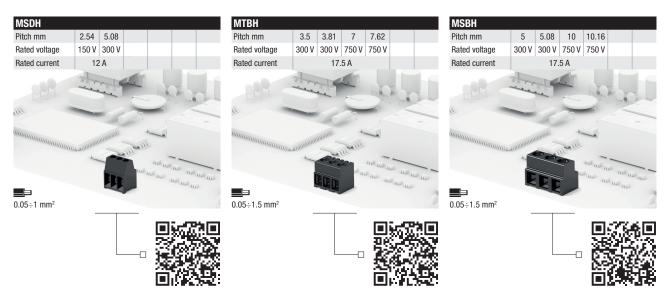
STH® Full Lean Technology allows:

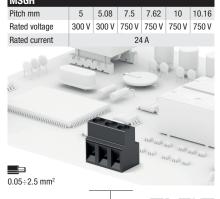
- NO manual positioning of terminal blocks and connectors on the PCB holes
- NO manual or wave soldering of terminal blocks and connectors
- NO intermediate storage between the reflow soldering process, manual mounting and the wave soldering process

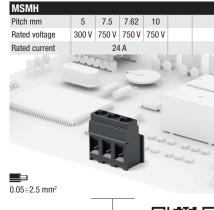
We therefore have a time and space productivity cost reduction of approximately 70%

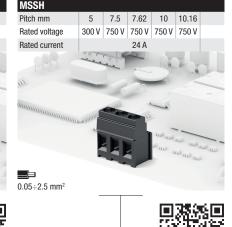


STH® Products







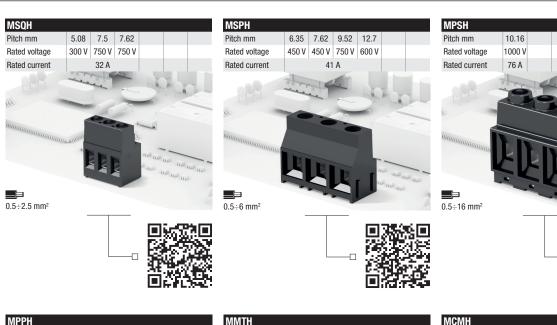


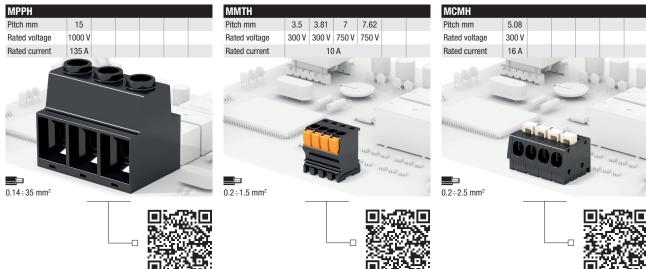




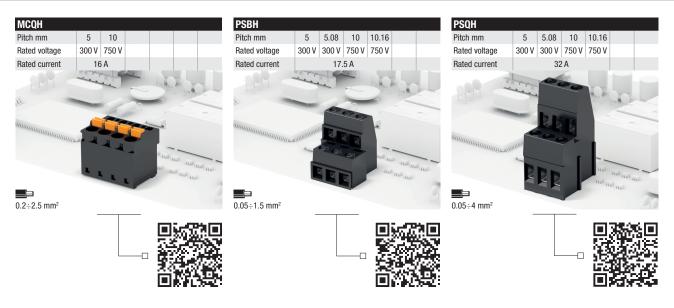


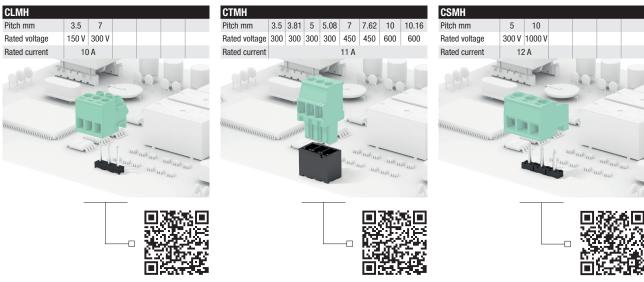
STH® Products



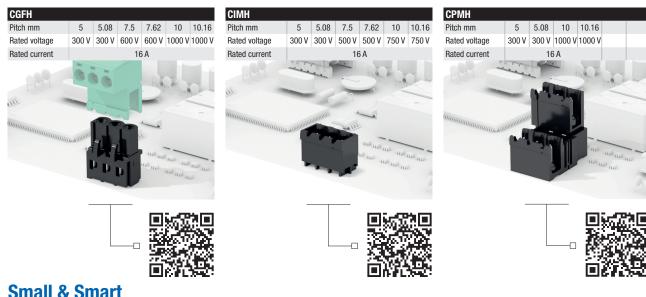


STH® Products



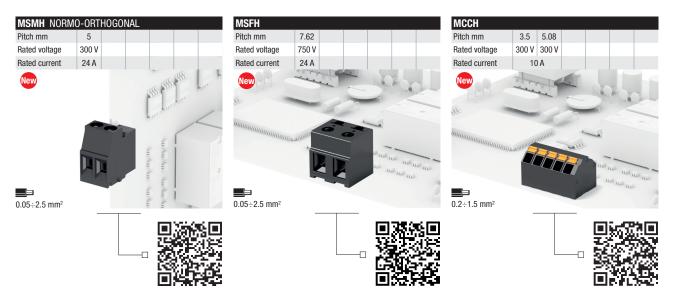


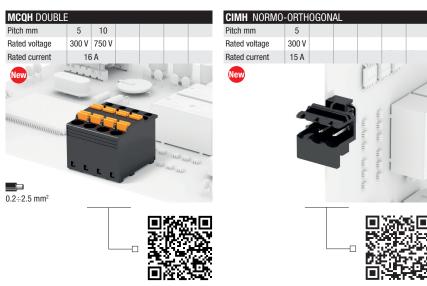
STH® Products



Small & Smart		
MCBH	MCDH	CDMH
Pitch mm 3.5 5	Pitch mm 2.5	Pitch mm 2.5
Rated voltage 300 V 300 V	Rated voltage 150 V	Rated voltage 150 V
Rated current 16 A	Rated current 6 A	Rated current 6 A
New	New	New
	The me me me me me	The training the training the training the training training the training t
0.2÷1.5 mm²	0.14÷0.5 mm²	

STH® Products





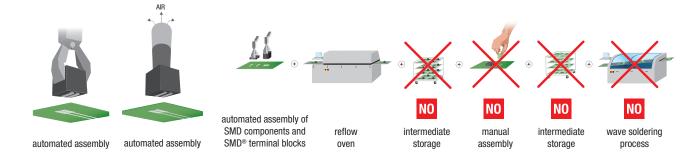
SMD Full Lean Technology

Sauro **SMD** products are suitable for PCB automated mounting via pick and place systems (pliers or vacuum), thanks to:

- ✓ High mechanical precision, with subsequent strict tolerances
- Special precautions during the design stage of the insulating housing depending on the type of mounting used
- ✓ Packaging in tape on reel, tube or tray



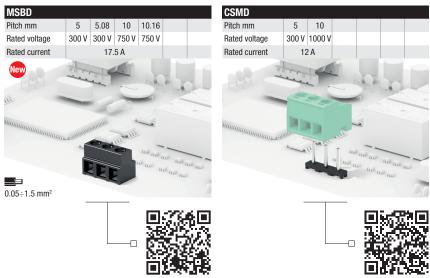
SMD Full Lean Technology for LARGE SCALE productions. **Factory's work space and time are reduced by 75%:**







SMD Products



Small & Smart

Olliuli G							
MCBD		MCDD			CDMD		
Pitch mm	3.5 5	Pitch mm	2.5		Pitch mm	2.5	
Rated voltage	300 V 300 V	Rated voltage	150 V		Rated voltage	150 V	
Rated current	16 A	Rated current	6 A		Rated current	6 A	
New		New		BOOD	New		-8000
d.			1		d.	一期的	
	amanananananananananananananananananana		and the state of t	7		Sistering.	- Mil
						nnn	
0.2÷1.5 mm ²	8	0.14÷0.5 mm ²					8



Contacts

Europe and Africa SAURO s.r.l. Italy (+39) 049 9070440

info@sauro.net

SAURO GmbH German (+49) 2151 7896043 saurogmbh@sauro.net

North Europe

North & South America SAURO Inc.

Texas (+1) 512 2558420 sauroinc@sauro.net

India and Oceania SAURO Electronic Connectors (Shanghai) Co. Ltd. Shanghai (+86) 021 58682734 saurocn@sauro.net