

STH & SMD Technology

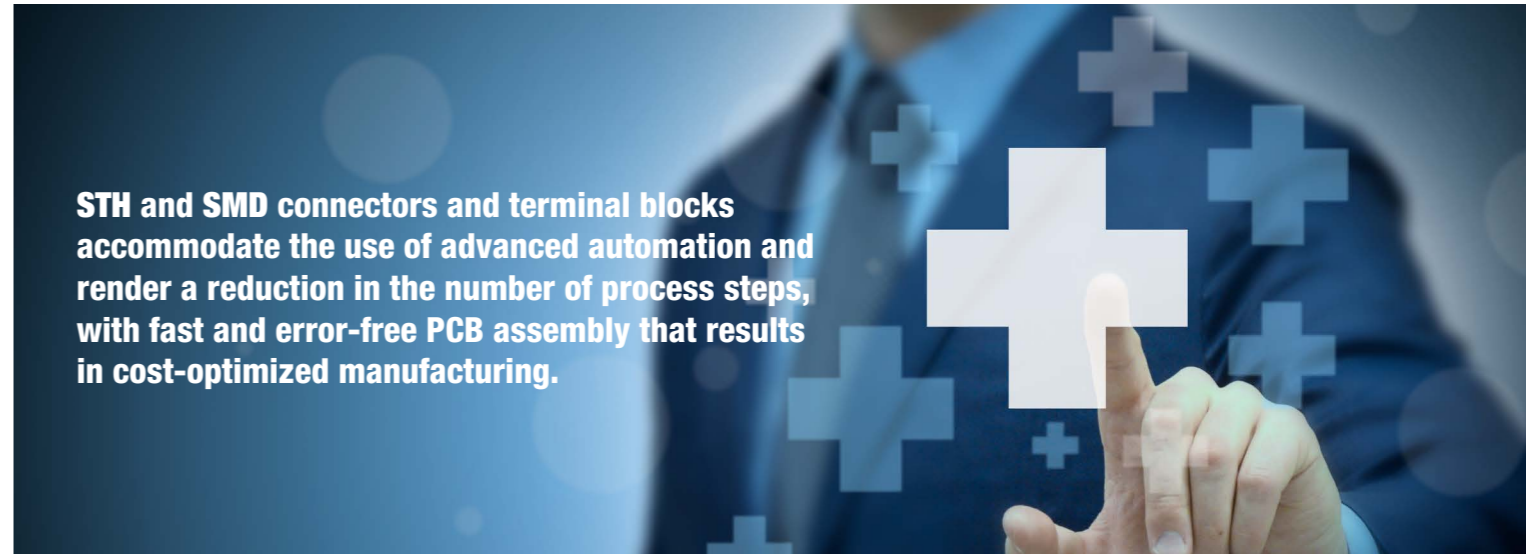


Its **advantages**

Introduction to **STH** and **SMD** SAURO products

In recent years, component mounting and soldering technologies on the PCB have evolved towards automated systems, transitioning from traditional to new **SMT** (Surface **M**ounting **T**echnology) techniques. The use of traditional components such as terminal blocks and connectors on the PCB has become much more critical as they do not fit with robotic assembly requirements and high temperature soldering profiles.

In order to satisfy these requirements, SAURO has introduced high-temperature through-hole (**STH -SMD Through Hole**) and surface-mounted (**SMD**) products after years of research that can be used with SMT technology.



STH and SMD connectors and terminal blocks accommodate the use of advanced automation and render a reduction in the number of process steps, with fast and error-free PCB assembly that results in cost-optimized manufacturing.

	Materials	PCB assembly	Soldering process	Packaging	Furthermore	Advanced technology
STANDARD	<p>Traditional polyamide PA6.6</p>	<p>Manual assembly process</p>	<p>Wave or manual soldering</p>	<p>Bulk</p>	<p>What you need</p> <ul style="list-style-type: none"> - Intermediate PCB storage - Manual assembly - Wave or manual soldering process 	
STH	<p>Plastic housing made in glass fibre reinforced polyamide rated MSL1 (Moisture Sensitive Level 1): insensitive to moisture and no sealant bag or exsiccation is required for reflow soldering.</p>	<p>Automated assembly process using pliers or vacuum In case of not fully automated production, products may be assembled by hand.</p>	<p>Reflow soldering</p>	<p>Tape on reel and tray In case of not fully automated production, products may be packed in box.</p>	<p>You do not need!</p> <ul style="list-style-type: none"> - PAD - Intermediate PCB storage - Manual assembly - Moisture barrier bag or drying process - Wave soldering process 	<p>Surface Mount Technology SAURO SMD products have fixing and positioning pegs and are packed exclusively in tape on reel.</p>
	<p>Benefits +</p> <p>Products withstand the high temperature of reflow oven and do not require any moisture barrier bag or drying process before going in to the oven.</p>	<p>Benefits +</p> <p>For high volume usage the automated assembly process is the most reliable, productive and efficient choice.</p>	<p>Benefits +</p> <p>STH products can be soldered in the reflow oven together with all other SMD products eliminating the additional wave soldering process and all the intermediate PCB storages.</p>	<p>Benefits +</p> <p>For the automated picking process on the PCB the component must be in a defined position therefore the ideal packaging is tape on reel or tray. Products are indeed placed in individual cavities in a deep-drawn tape on reel or tray.</p>	<p>=</p> <p>Reduction in the number of process steps with a fast and error-free PCB assembly results in cost-optimized manufacturing</p>	<p>Benefits +</p> <p>SAURO SMD products have been designed to offer small and smart solutions when compact and miniaturized requirements are crucial. Using SMD products both sides of the PCB can be used.</p>