

Streamline's THP 30" Via Plugging Machine Plugging two vias with one stone

Streamline Circuits, one of the quickest manufacturers of multilayer printed circuit boards in the country, engages in a tireless pursuit to make fast faster. In doing so the company enlists the help of machines that focus on that very goal. One of these is the [ITC Intercircuit Double Chamber Plugging Machine – THP30"](#), which allows manufacturers to work on two stations with two separate projects at once, cutting via hole plugging time in half.

ITC took innovation in the hole filling process to the next level. The THP30" approaches the hole plugging process in a unique manner. A unique Taiyo paste THP-100DX1 USA-VF was specifically designed for ITC's hole filling machines. The either conductive or non-conductive paste is stored in a special container that can hold up to 5 kg. A frequency controlled motor pushes the paste at a pressure of 90 PSI to ensure that the paste that fills the holes is distributed evenly. This prevents the formation of any air bubbles inside the plugged hole.

Another brilliant trait of this machine is that it has a cartridge option in both identical stations from which it can "recapture" up to 95% of the paste that was not used in the plugging process. From this option, as well as the THP30"'s stainless steel inner covering, the ending result is savings of the paste, and savings on labor costs from clean up with other via hole plugging machines. This specialized cleaning chamber ensures that the next step in the multilayer PCB manufacturing process, planerization, will be much more quick and efficient. Thus unearthing yet another tactic that aids Streamline in the quest for its ultimate goal.

This particular plugging machine is capable of handling a very wide range of Streamline's relatively simple to extremely elaborate boards, including very high aspect ratio boards. It goes without saying that the THP30" fills all three types of vias: blind vias buried vias, and micro vias. It can fill a minimum hole size of 0.1 mm and a maximum hole size of aspect ratio of 1:2, all on panels as large as 525 mm x 762 mm and panels as small as 200 x 200. It also has the ability to fill holes on boards with a thickness between 0.01" and 0.39".

The advantage of being able to use two stations at once on the Double Chamber Plugging Machine – THP30" is just one of the ways that Streamline Circuits is raising the bar in quick turn high tech PCB manufacturing.

Streamline Circuits is a leading manufacturer of high quality Printed Circuit Boards offering Rigid, Rigid Flex and Multilayer Flex. We are committed to providing our customers the most advanced technology, quality and engineering support available. Streamline's customers take advantage of these highly valued resources to develop a cost effective product in a time sensitive manner. These capabilities are critical for today's technology driven customers. Streamline services communications, military & aerospace, industrial electronics, instrumentation and medical equipment markets, who need to get their quality products to market first.

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