

Streamline's PCB Hole Checker HC-5

Attention to detail takes on a whole new meaning

Streamline Circuits of Santa Clara, CA, one of the most advanced PCB manufactures in the US. This reputation for delivering the most elaborate circuit boards to the industry comes from the acquisition and use of top of the line equipment and processes. It is through the use of this equipment that the company can push for better and better yields on quicker turns. The recent acquisition of an additional [Hakuto Singapore Hole Checker HC-5](#) is one example of this commitment to quality products.

The HC-5 is designed for the inspection of holes drilled in PCBs with HDI and micro via technology, and tests these holes with high degrees of accuracy and speed because of its CCD sensor. Hole checkers also detect and locate missing holes, extra holes, oversized holes, as well as holes that are undersized due to shallow drilling, debris, partial or complete plugging, over hanging burrs, and other defects. The diameter checker finds any ellipse or drill tool errors. This machine can measure up to 400,000 holes from 0.006in – 0.314in in diameter on boards as small as 5"x 6" to as large as 26" x 29.5". The boards it checks range in thickness of 0.0003in to 0.138in.

The HC-5 possesses three inspection modes. The first mode is "Compare", where the count, the area, and the diameter of the holes are inspected. The second mode "Count", inspects the hole count only. Finally, the third mode, "Sample", is a simultaneous inspection of compare and count. The HC-5 also has a "Masks" feature in which a specific area of the board can be excluded from inspection simply by clicking and dragging to select the section. The HC-5 can exclude up to 1,000 masked areas. In the likely case of human error, the inputting of any masked area can be quickly and easily cancelled.

The drill data based software was created to run on any general purpose PC using Microsoft Windows 95, 98, NT, 2000, or XP. With a hard disk capacity of 80G bytes, the master data file of the HC-5 can hold as many as 100,000 part numbers with each with up to 50,000 holes. Once the examination of the holes has taken place, results display immediately after each panel's inspection with the fail data automatically stored. Defects can be easily zoomed in upon on the display.

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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