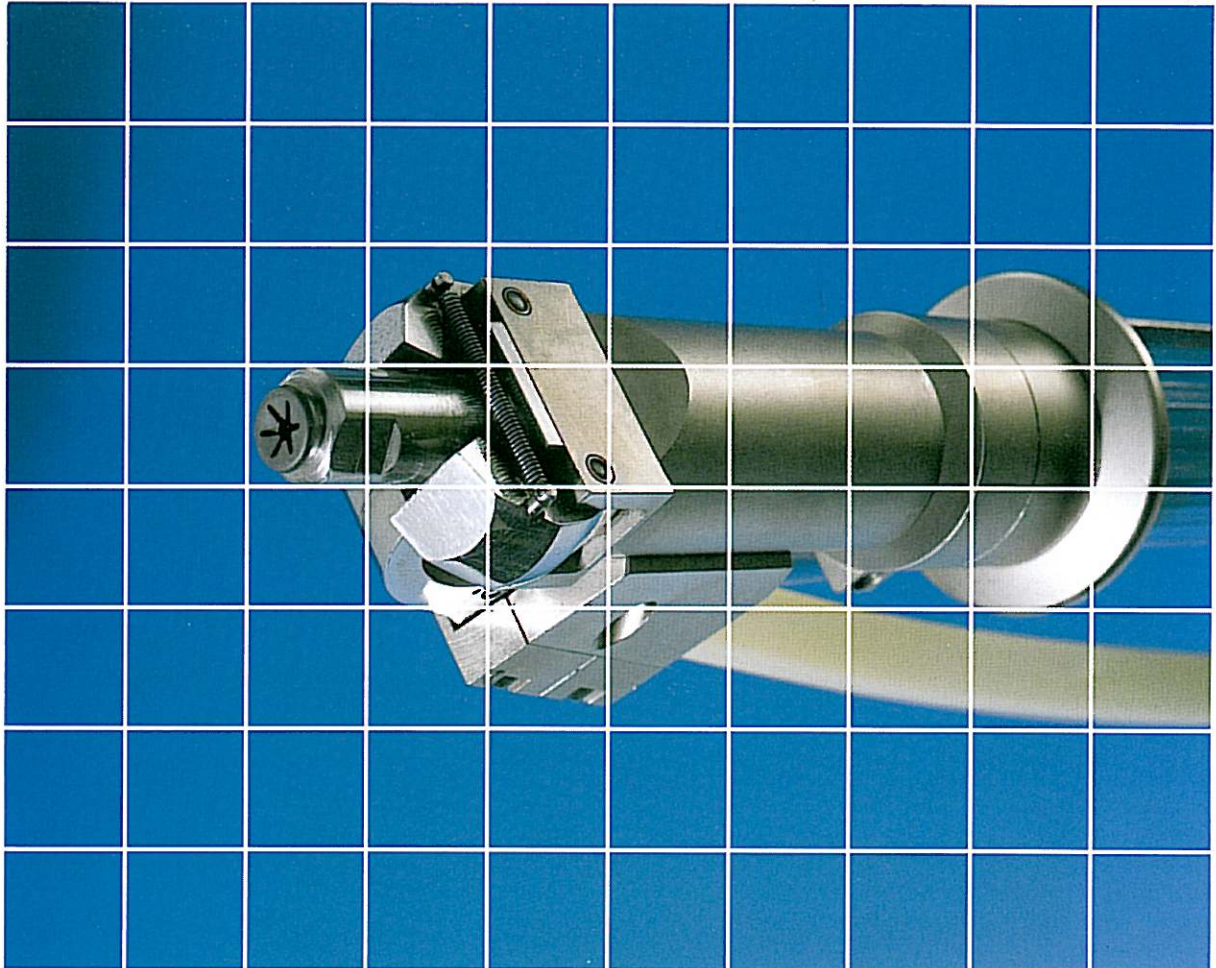


Automatic feeding and placement of clips and plugs with the WEBER Automatic Handheld Insertion System Model HSS



WEBER

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Why HSS:

Until now, operations involving the placement of pushnuts, panel clips, caps or plugs was done by hand. Insertion operations typically assumed the availability of special designed tools/devices, skilled labor and substantial assembly time. The operator needs both hands to hold the part and the insertion device, so some level of workpiece fixturing would be required.

That was then!

With the introduction of the WEBER Model HSS unskilled operators can achieve a cycle rate of less than 2 seconds per insertion. Quality Control costs are minimized because of consistent operator output. Part fixturing is not necessary because the operator uses only one hand for problem-free insertion. A light stroke from the HSS is sufficient to firmly seat them.

System Operation:

- 1) Parts are oriented and fed in a vibratory feed bowl to a one-by-one escapement device which releases them into a flexible feed tube and blows the parts through the tube into the head of the insertion handgun.
- 2) The insertion part is located within the nose piece of the handgun and, depending on the part, held in the internal insertion tool by either vacuum or by mechanical means.
- 3) The axially downward moving insertion tool, upon activation of the built-in trigger bar, pushes the part out of the nosepiece and onto the insertion point.
- 4) A light striking force ("hammer tap") is made by the insertion tool on the part that has been placed. This tap secures the part into the workpiece.
- 5) When the trigger bar is released, the insertion tool retracts in the handgun and the feeder is signalled to release another part into the insertion head.
- 6) The insertion cycle is repeated.

Application Data:

Samples of various cap and plug applications for which HSS equipment has been previously built, can be seen in the illustration to the right. Because the wide range of "trim ware" requires the development of custom tooling, providing WEBER with samples of your specific application parts will permit us to quote a firm price and delivery for your HSS requirements.

Weber Feed Systems:

More than 20.000 installations bear testimony to the quality and reliability of WEBER feed systems. Fasteners are oriented, escaped one-by-one and fed quickly and accurately from the vibratory bowl, through the escapement mechanism, to the handgun. Clips and plugs are blown through a flexible, profiled feed tube.

