

Rivnut® Automation Tools

ASH Spin Pull to Pressure Pneumatic/Hydraulic Automation Tool

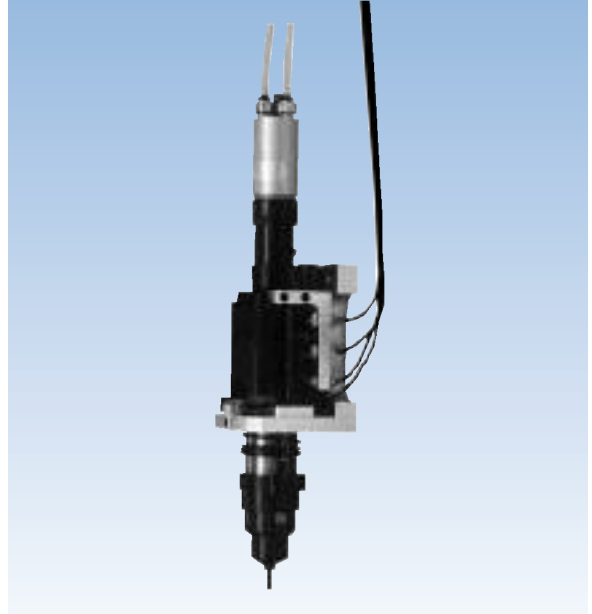
The ASH (Automatic Setting Head) installs the Rivnut® by pull to pressure control. Once the pressure is set the ASH will install the fastener into single, variable or multiple thickness materials without further adjustment. The ASH is available in "pick and place" and self feeding versions. The tool features process monitoring to assure proper part feeding, automatic thread on, stroke distance, and pressure pull. A single tool or complete system including process monitoring is available for robotic or fixtured applications.

■ Installation Sequence

- Rivnut® self feeds and is threaded onto tool mandrel.
- The fastener is placed in the hole and automatic installation and reversal is activated.

■ Features

- Installs 20 pieces per minute
- Auto feed or pick and place capability
- Full electronic controls and process monitoring
- Quick change mandrel requires no tools
- Axis compensator for robotic installations
- Slip shaft for cross-thread detection



CFA 803 Pressure Control Robotic Installation Tool

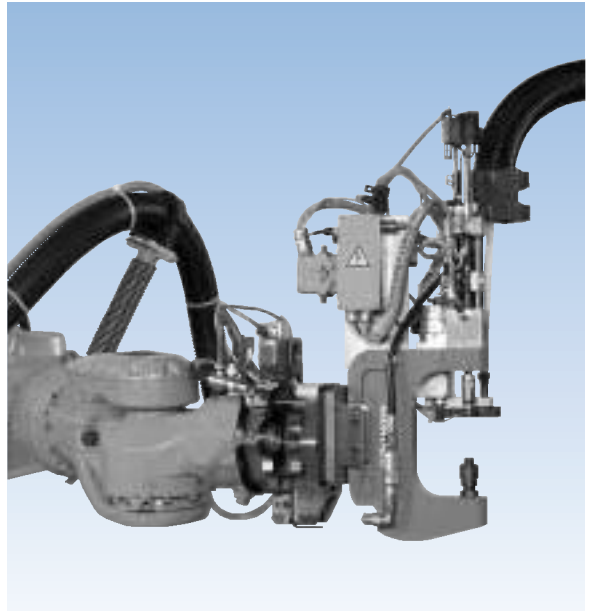
The CFA 803 installs the Rivnut® by applying a pressure force to its backside shank. Once the pressure is set the CFA 803 will install the Rivnut® in single, variable and multiple thickness materials without adjustment. The CFA 803 is self feeding and contains no threaded mandrel so spin-on spin-off time is eliminated resulting in 30 to 40 pieces per minute installation. Various C-Frames configurations are available to fit customer applications. Full process monitoring of part feeding, stroke and pressure installation assure quality installations

■ Installation Sequence

- Rivnut® self feeds and is placed on insertion shaft.
- The fastener is placed in the hole in the parent material and the rear hydraulic cylinder applies a pressure load to the rear shank of the Rivnut® installing it.
- Tool is cycled to the next location.

■ Features

- Self feeding system without thread on thread off mandrel
- Process monitoring for quality installations
- Installs product in any orientation
- Patented hex Rivnut® orientation device
- Installs 30 to 40 pieces per minute



Note 1: See page 31 for a fastener/tool selection guide

Note 2: Part Numbers for tools shown on this page are for the tool only. Specific pull up studs or mandrels and nose anvils to be used with different thread size fasteners can be ordered separately by contacting Bollhoff Rivnut® Inc. or our Authorized Distributor.