

SPIROL[®]

RADIAL RIVETING TECHNOLOGY

Model RA Automatic Radial Riveters

The **SPIROL** Advantage:

The **Model RA** assembly machine combines two operations – **installation of the rivet and forming the rivet head** – into one compact, efficient system.

The rivet is automatically fed, oriented and delivered to the point of load where it is presented in the fixture and held firmly in place. The parts to be assembled are then simply loaded onto the rivet. With a touch of optical actuators, the rivet advances all the way through the assembly, and the riveter advances to radially produce the desired head. As the completed assembly is removed, another rivet rises for the next assembly cycle.

This machine will accommodate solid headed rivets ranging in size from 0 gauge (1/16") through 16 gauge (1/4") with a shank length-to-head diameter ratio of 3-to-1 or greater.



The use of protective eyewear is recommended.

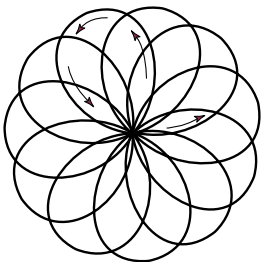
Different rivet sizes and configurations may be accommodated upon review by SPIROL's Engineering Department.



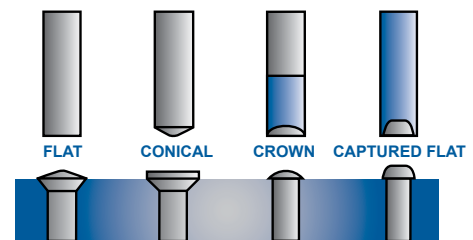
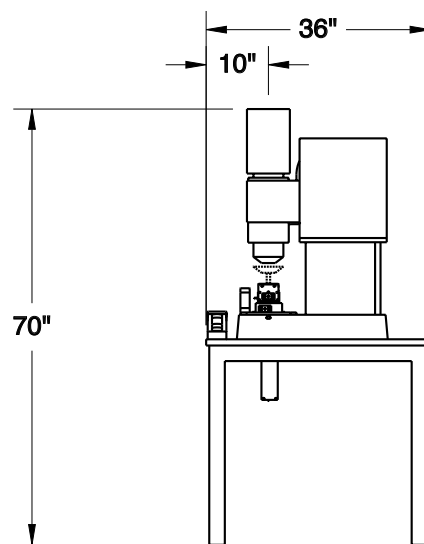
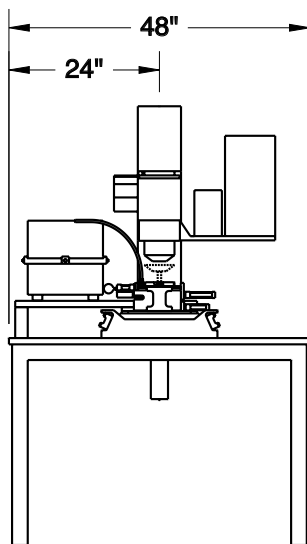
Fixturing, including fixturing integrated into the control circuit, is readily available and normally supplied with the machine.

Design Features:

- Automatic feed, delivery and presentation of solid rivets
- Angle-adjustable fixture position to accommodate left or right-handed operators
- Interchangeable fixture tooling to allow easy changeover from one tool configuration to another
- Adjustable radial riveting head allows precise control of speed and pressure of the riveter for optimal efficiency
- Ergonomically designed to keep the operator's loading motions within the recommended operating radii (foot print)
- 304 series stainless steel tooled vibratory feed bowls, with Spirol dual-coil square base drive units
- Hardened pin guide bushings
- Doweled component location
- Ground base plate
- No pinch points
- Solid-state electronic controls
- 24 VDC sensors
- Anti-tie down, anti-repeat, dual optical touch actuators



Radial Forming displaces material uniformly at a constant speed in an eleven-sided rosette pattern to ensure uniform and consistent material displacement. The result is high joint strength and a superior surface finish.
(Source: BalTec, Inc.)



Flat, conical, crown and captured flat are standard tool designs.

Request a free **SPIROL Automation CD-ROM** that demonstrates the Model RA Radial Riveters in operation, presents their versatility, and lists cost-effective options available for your application.

SPIROL®

Innovative fastening solutions.
Lower assembly costs.



Challenge Us!

SPIROL Application Engineers will review your application needs and work with your design team to recommend the best solution. One way to start the process is to visit our **Optimal Application Engineering** portal at www.SPIROL.com.

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