

## Mechanical Joining Solutions

### Spot Welding Alternatives



#### Sheet Metal Joining Tooling

Joining produces an instant button headed joint in ductile metals with a single ram stroke, providing a clean, and efficient alternative to spot welding.

Both similar and dissimilar materials can be joined in this process.



#### Rivets (Semi-Tubular & Solid)

Haeger can supply a variety of automatic and manual tools for feeding and inserting a wide variety of semi-tubular and solid rivets. Rivets with a length of 1.5 times the head diameter can be fed automatically. Hole/Part alignment tools are also available for the customer.



#### Self-Piercing Rivets

Rivets are installed in a matter of seconds using a standard Haeger insertion machine with our exclusive riveting tools and feed system.

The rivet pierces its own hole and holds the upper sheet with the rivet head while the sheet material is pressed into the short groove at the bottom of the rivet. The completed assembly is flush on both sides!

Rivets are available in lengths from 2.1mm up to 7.5mm and all can be inserted with the same tooling and feeding line. A simple upper tool adjustment allows insertion of all 19 rivet lengths.