



## Longitudinal Seam Welder

Seamers produce longitudinal butt welds on sheet metal parts to manufacture a variety of shapes, in addition to flat sheets, such as cylinders, large ducts and cones. The TIG, MIG, Plasma and Variable Polarity TIG welding processes can all be used with this type of system to create three basic Seamer versions; the External, the Bench and the Elevating Seamer.

All Seamer types operate in essentially the same way. The component parts are clamped between precision machined copper fingers and a stationary mandrel with copper backing bar, to ensure accurate, even clamping and uniform chilling of the weld's heat affected zone. The copper backing bar additionally provides the necessary inert gas shielding of the joint using purge gas diffusers. The clamping fingers press down on the component to create a tight fitting and secure weld joint. The welding torch travels in a precise, straight line on a smooth running carriage, rapidly traversing the weld joint.

Of the three basic types, the External Seamer is the most common where the weld is made on the outside of a cylindrically shaped component from 0.005 inches to 0.375 inches thick and up to 25 feet long.

Similar to External Seamers, the Bench Seamer is designed for lighter gauge components from 12 inches to 36 inches in length.

In the case of the Elevating Seamer, it is ideal for longitudinal seams on large diameter vessels such as tanks. It accommodates component parts up to 96 inches in diameter and 20 feet in length. The Seamer bed raises and lowers, using a motorized lifting mechanism, with dual screw drive, creating a smooth and especially safe lifting process.



**Weld Quality Starts in the Arc**

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