



Swagelok Western NY Rental Equipment

Swagelok Orbital Welding System

Welded high purity systems mandate a good weld bead profile that is neither concave nor convex and has full penetration to the ID of the weld joint. The Swagelok Orbital Welding System is a semi-automated, gas tungsten arc welding process that assists the weld technician in making these perfect welds. The fully autogenous Orbital Welding process uses only the parent materials in the weld instead of adding a material to bond the two parts like a traditional hand weld requires. When welding two materials together, any impurities are brought to the surface. Swagelok procures metals with the proper sulfur content for their products because it closely relates to the material's weldability.

Orbital welds are commonly used in high purity systems due to their high quality and repeatable output. Swagelok's M200 orbital welding system is a reliable and user-friendly power supply that incorporates a Windows-based operating system with touchscreen interface for easy programming, and an integral mass flow controller that controls the outside diameter shield gas. It is lightweight to allow for easy transport between workstations.

As your local sales and service center of Swagelok products and services, we offer many types of weld heads for high purity welding, depending on the size requirements.

Swagelok Micro Series Weld Heads feature a compact size head for easy access into tight welding areas. These weld heads are designed for close tangent welding and were developed primarily for welding Swagelok Micro-fit fittings to tubing. The micro weld head also provides optical speed control.

Micro Series



Series 5

Swagelok Series 5 Weld Heads provide a higher output capability and the weld head can hold a heavier wall tubing more securely than a micro head. The Series 5 weld head is offered with special attachments to give flexibility when fixturing complicated components.

We realize Orbital Welder equipment can be expensive and may not be needed for every project. Therefore, Swagelok Western New York offers **welder rental equipment**. Orbital welders and welding accessories are available to rent on a weekly or monthly basis. Our services team can provide on-site technical assistance as well.

