



Tube welding challenges

Reliable, sterile liquid connections are essential for R&D and bioprocess applications, yet some welders can be bulky, heavy, and bound to fixed power sources, making them difficult to mobilize across the lab. They may require costly consumables—typically sharps that need to be handled delicately for disposal—lack user-friendly operation, or restrict flexibility when handling different tubing types because of the need for changing adaptors. These constraints may slow down processes, increase costs, cause contamination, or create frustration for scientists who need portability and efficiency.

The Ensorcell™ solution

The Versaweld™ sterile tube welder delivers versatility, portability, and affordability in a compact, patent-pending system. Designed to move seamlessly between benches, hoods, and production environments, Versaweld streamlines workflow and usability in any lab setting. Its all-in-one design performs sterile dry-to-dry, dry-to-wet, and wet-to-wet welds quickly and reliably—eliminating single-use blades while ensuring consistent results. By merging performance with practicality, Versaweld empowers researchers to weld where and how they need, advancing tube welding for modern science.



Compact

Save space in crowded labs and countertops.



Versatile

Weld tubes of 6 different diameters and 4 different materials (additional tube types under investigation).



Portable

Easily move around to different locations in the lab.



Battery powered

Efficiently engineered to increase product accessibility.



User-centered

Designed with the scientist and their workflow in mind.



Affordable

Expertly engineered to deliver maximum cost efficiency.



Always ready for the next weld

Instead of single-use blades, Versaweld uses an auto-feeding, spooled stainless steel ribbon to allow for 150 sterile welds to be performed without changing the cutting implement. The ribbon is heated to cut the tubes and enable sterile fusing of the segments, while the integrated clamps prevent fluid in the tubes from contacting the outside environment.

Contact

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Visit ensorcell.bio/versaweld to learn more.

TUBE COMPATIBILITY	
Tube sizes supported	5/32" to 3/8" (outer diameter) (additional tube sizes under investigation)
Tubing materials supported	PVC, C-Flex, PharMed, Advantaflex (additional tube materials under investigation)
Weld types	Dry / dry, wet / dry, wet / wet
Sterility assurance	Made for aseptic connections without contamination risk
POWER & PORTABILITY	
Power source	AC120V - AC240V with Ensorcell rechargeable power supply
Battery capacity	150 welds
Battery life	> 63% of original capacity after 300 charge/discharge cycles
Charging time	< 4 hours
Cordless operation	Yes
Weight	9 lb
Dimensions	12.1" L x 7.6" W x 5.2" H
WELD PERFORMANCE	
Weld cycle time	< 30 seconds
Weld quality	Repeatable, seal integrity, leak-resistance per ISO 3826
Number of welds per cassette	150 max
Disposable parts	Blade-free design or cassette-only disposables
Maintenance	Tool-less cassette change, self-calibration
Accessories	Cassette refills, carrying case, warranty info

Specifications subject to change. Performance characteristics may vary based on application and operating conditions. Products are intended for research use only and are not intended for diagnostic, therapeutic, or clinical applications.