PRO SPOT

QUALITY WELDING SYSTEMS



HANDHELD LASER WELDER

POWERFUL PRECISION.
FASTER WELDING.
SUPERIOR RESULTS.

MADE IN THE USA

HANDHELD LASER WELDER

The Pro Spot handheld laser welder, PLZ-1, is fast, easy to learn and operate, and produces high quality, consistent results across a wide range of materials and thicknesses. Pre-weld and post-weld laser cleaning functionality optimizes weld quality while increasing productivity.

The most cost-effective solution for laser welding steel, stainless steel, and aluminum up to 0.156" thick. PLZ-1 can be paired with a wire feeder. Pre-weld and post-weld laser cleaning nozzles can be purchased as an option.



PLZ-1



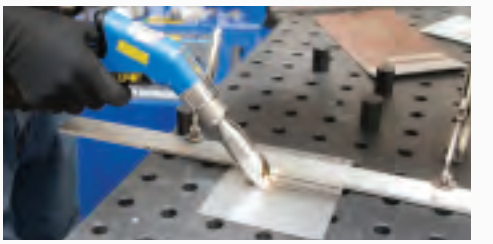
LASER WELDING

High speed, low heat input, and a small heat affected zone make laser welding thick, thin, reflective materials, and materials with dissimilar thicknesses easier for all skill levels.



LASER PRE-CLEANING

Pre-weld cleaning removes rust and other contaminants from materials and increases weld quality. This is much faster than manual cleaning and uses no chemicals or abrasives.



LASER POST-CLEANING

Post-weld cleaning removes heat discoloration and improves visual finishes without post-weld grinding.

PLZ-1 enables dramatically faster welding and is easier to learn and operate than MIG or TIG. PLZ-1 provides higher-quality, consistent results with minimal distortion or part deformation.

TIG welding can generate extreme heat that deforms thin materials and produces poor visual finishes. Welding copper is difficult and welding metals of dissimilar thicknesses is limited. TIG welding is a highly skilled process, and experienced TIG welders are a scarce resource.

MIG welding often requires beveled joints and multiple passes to achieve full penetration. Vertical welding is challenging and MIG's high heat input can cause part distortion.

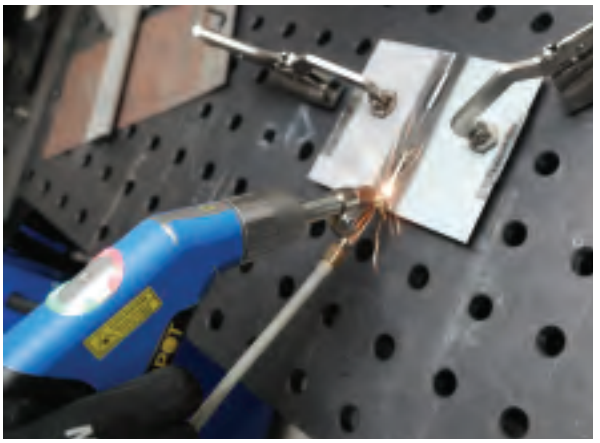
TECHNICAL SPECIFICATIONS

Steels (Stainless Steel, Mild Steel, Galvanized Steel)	up to 9 gauge (0.156")
Aluminum 3 & 5 Series	up to 8 gauge (0.129")
Aluminum 6 Series	up to 8 gauge (0.129")
CuSi MIG Brazing	up to 8 gauge (0.156")
Wobble Welding (width)	up to 5mm (0.196")
Cleaning Width (Pre- & Post-weld)	up to 0.600" (optional)
High Frequency Peak Power for Cleaning	1250 W (optional)
Laser Power	up to 1000 W

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PLZ-1 is easier to learn and operate, and is 4X faster than TIG welding. The low heat input and extensive material and thickness capabilities increase productivity, repeatability, and improve weld quality for operators of all skill levels.

The handheld welding & cleaning torch is compact, ergonomic, and comfortable. Specially designed nozzle tips for welding and cleaning applications, plus built in wobble functionality enable operators to produce high quality welds consistently. Nozzle tips switch out quickly and easily to accommodate fusion welding, wire welding, and cleaning, further optimizing and increasing productivity.



	MIG AND TIG	PLZ-1
Speed	Average	Fast - Over 4X Faster than TIG
Quality	Depends on user experience	Consistent high-quality results
Difficulty	Hard	Medium
Material Flexibility	Limited with consumables changes	Wide range with no set up
Heat affected zone	Large	Small
Distortion & Deformation	High	Very low
Wobble Welding	No	Small
Pre-Weld Cleaning	No	Yes - Removes rust, oxides, oil and grease
Post-Weld Cleaning	No	Yes - Removes soot, debris & discoloration

CONSUMABLES



WELDING HELMET

Designed for welders using PLZ-1 handheld welding system, this professionally designed helmet combines stylish design and comfort with maximum protection.

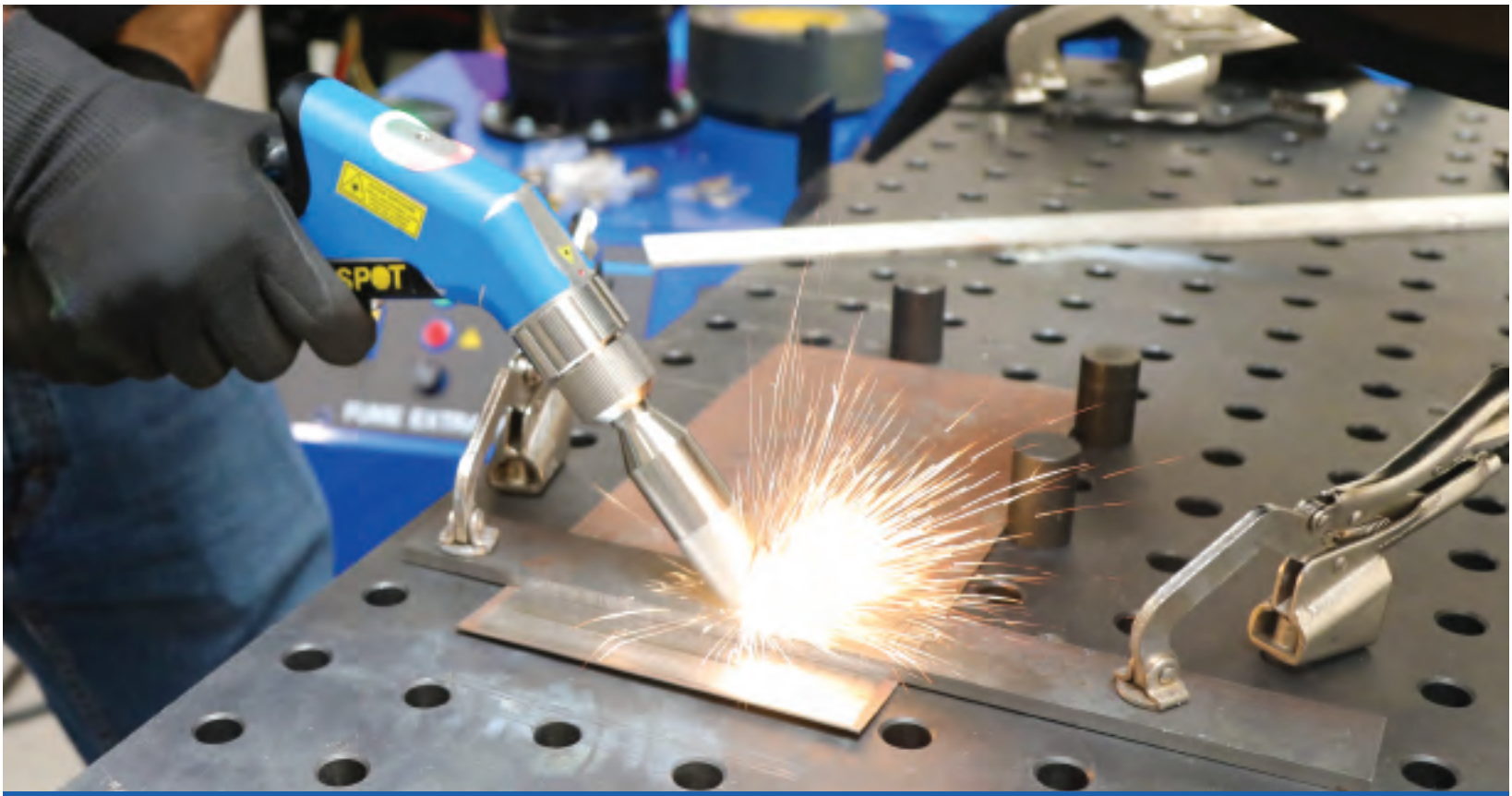
STANDARD COPPER NOZZLES

for most welding applications



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BRO-PLZ Rev. 1.0