

LASAL™ Jet Nozzle

High Performance Laser Welding



The high performance **LASAL Jet Nozzle** for Laser welding solution features a unique jet nozzle designed to enhance gas shielding effectiveness and plasma suppression. It yields excellent CO₂ laser welding quality and speed when totally **replacing helium** with argon gas, with no need for additional gases and a mixer. The net result is enhanced performance, with minimized welding defects scrap rates while considerably reducing operating costs.

The **LASAL** Laser Welding Solution can significantly increase your productivity while driving down costs.

REVOLUTIONARY. PROPRIETARY. COST EFFICIENT.

Quality CO₂ laser welding is traditionally achieved with expensive and rare helium gas for plasma suppression.

Now comes the new revolutionary and proprietary LASAL Jet nozzle designed to deliver superior control of argon shielding gas flow dynamics for optimum plasma suppression and shielding effectiveness at the weld, completely eliminating the need for helium.



The LASAL Jet Nozzle argon gas dynamic yields effective plasma suppression with more efficient and wider shielding coverage.

THE BEST WELD. THE FIRST TIME.

The LASAL Jet Nozzle technology enables effective plasma suppression using a jet of argon shielding gas when keyhole welding with CO₂ lasers.

The XYZ orientation and position of the jet nozzle is fine adjusted to yield the very best weld – first time, every time.

BENEFITS

- ✓ Improved shielding effectiveness
- ✓ Reduced gas consumption
- ✓ 30%-50% lower shielding gas costs
- ✓ Minimized welding defects and scrap rates
- ✓ Increased performance and productivity
- ✓ Need for helium is eliminated

Standard Lateral Nozzle

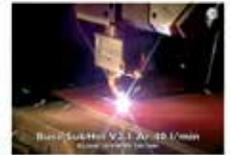
LASAL Jet Nozzle



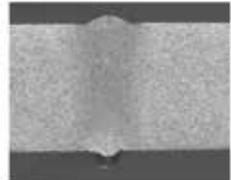
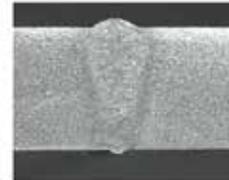
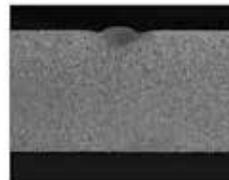
Argon



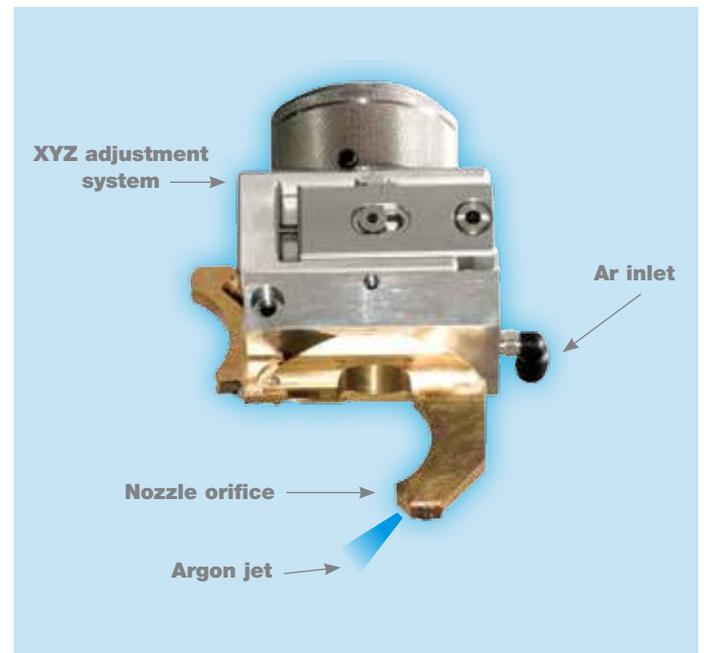
Helium



Argon



Helium shielding gas is usually required for full penetration CO₂ laser welding. The revolutionary LASAL Jet Nozzle enables excellent CO₂ laser welding quality and full penetration with argon shielding gas.



The LASAL Jet Nozzle installation requires little retrofit and comes with built-in XYZ adjustments mechanism.

SCHEDULE A DEMONSTRATION ON YOUR MACHINE. CONTACT US @ 1-800-820-2522.

Air Liquide is the world leader in gases for industry, health and the environment, and is present in 80 countries with 46,200 employees. Oxygen, nitrogen, hydrogen and rare gases have been at the core of Air Liquide's activities since its creation in 1902. Using these molecules, Air Liquide continuously reinvents its business, anticipating the needs of current and future markets. The Group innovates to enable progress, to achieve dynamic growth and a consistent performance. NOTE: This brochure is intended for general information purposes only and is not intended as a representation or warranty of any kind, or as a statement of any terms or conditions of sale. The information herein is believed to be correct, but is not warranted for correctness or completeness, or for applicability to any particular customer or situation. © 2013 AIR LIQUIDE INDUSTRIAL U.S. LP 13AIR1373



www.us.airliquide.com