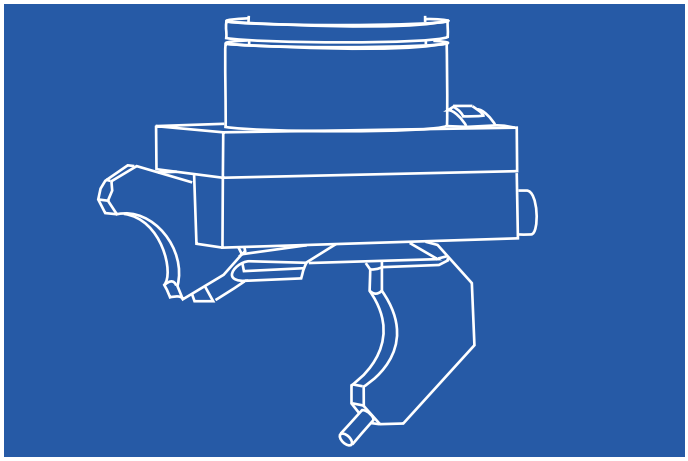
Air Liquide
creative oxygen

LASER NOZZLE-CONTROL

- Improves evacuation of zinc vapors for galvanized steel welding
- Improves shielding gas distribution



The Concept

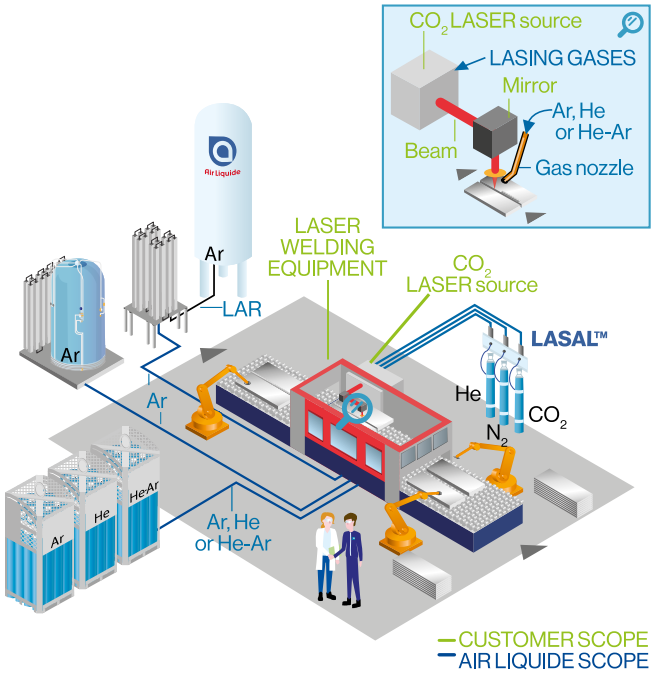
Air Liquide has designed **LASER NOZZLE-CONTROL**, a patented gas nozzle that increases the keyhole opening for linear laser welding. It improves the evacuation of zinc vapors for galvanized steel welding whatever the laser source.

Applicable Industries

LASER NOZZLE-CONTROL improves shielding gas distribution, reducing defaults in linear steel welding. It is especially efficient in welding zinc-coated steel sheets in an overlap configuration, such as automotive body manufacturers.

Special Features

The shielding gas distribution nozzle is a key operational component which has a direct effect on the efficiency of the laser welding process. **LASER NOZZLE-CONTROL** has been specifically designed to increase keyhole opening during the welding operation. For galvanized steels, it limits investment in complex mechanical systems.



LASER NOZZLE-CONTROL is designed with a massive brass block equipped with a single gas output.

LASER NOZZLE-CONTROL includes a setup finger device to easily position the nozzle in regards to the laser beam focus point. In addition to **LASER NOZZLE-CONTROL**, a XYZ positioning device is proposed.

Model Range

LASER NOZZLE-CONTROL has only one version as it can be adapted to all laser sources for linear welds.

Related Offer

LASER NOZZLE-CONTROL is part of our **Nexelia for Laser Welding** solution, which is designed and tailored to meet your specific needs. This comprehensive offer combines the best of Air Liquide's gases, application technologies and expert support. As with all solutions under the **Nexelia** label, we work closely with you to pre-define a concrete set of results, and we commit to delivering them.

Technical Data

LASER NOZZLE-CONTROL	
Size – L x W x H (mm)	64 x 157 x 144
Nominal Ar flow rate (Nl/min)	40
Weight (g)	970

Contact us

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