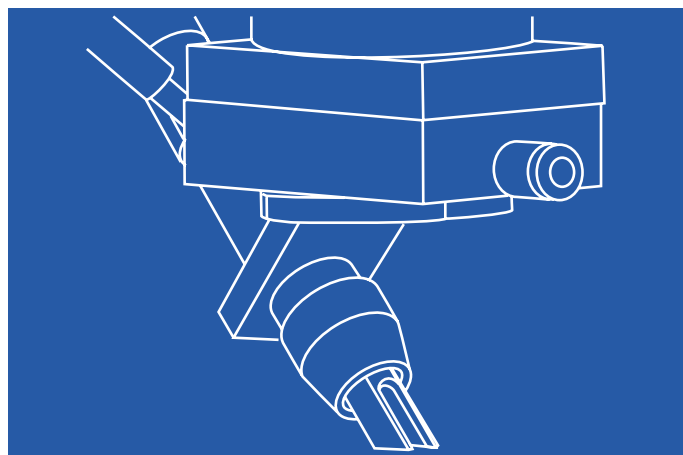


LASAL™ SHIELD NOZZLE

- Improves shielding gas distribution
- Strongly limits weld pool contamination from air



The Concept

LASAL™ SHIELD NOZZLE is an easy-to-use gas nozzle designed by Air Liquide to optimize gas flow distribution. It results in a significant decrease of air contaminants such as O₂ and H₂O in the weld pool. It is compatible with all laser welding processes and gases, including argon, helium or mixtures.

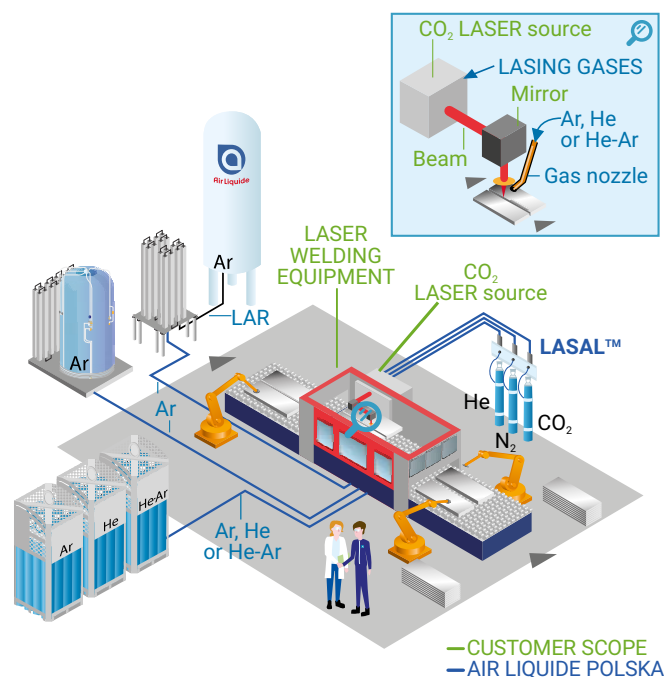
Industries

LASAL™ SHIELD NOZZLE is ideal for manufacturers that use laser welding:

- Automotive
- Mechanical parts
- Furniture
- Shipyards
- Pipes

Features

The shielding gas distribution nozzle is a key operational component, which has a direct effect on the efficiency of the CO₂ and solid-state laser welding process. Poor equipment design or adjustment can cause air inlets in and around the interaction zone, resulting in welding defects or weld bead oxidation.



Technical Data

Designed for laser welding with all types of sources, **LASAL™ SHIELD NOZZLE** improves shielding gas distribution in the interaction zone. This solution contains gas jet dispersion at the nozzle's end, achieving the highest possible laminar flow above the weld pool.

LASAL™ SHIELD NOZZLE is composed of a cooled brass body equipped with a slotted end whose size and angle are optimized for shielding efficiency. Spare parts for the slotted end are available.

In addition to **LASAL™ SHIELD NOZZLE**, a XYZ positioning device is proposed.

LASAL™ SHIELD NOZZLE	
Size – L x W x H (mm)	95 x 56 x 97
Nominal Ar flow rate (Nl/min)	15 to 25
Weight (g)	472

Model Range

LASAL™ SHIELD NOZZLE has only one version as it can be adapted to all laser configurations.

Contact Us

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