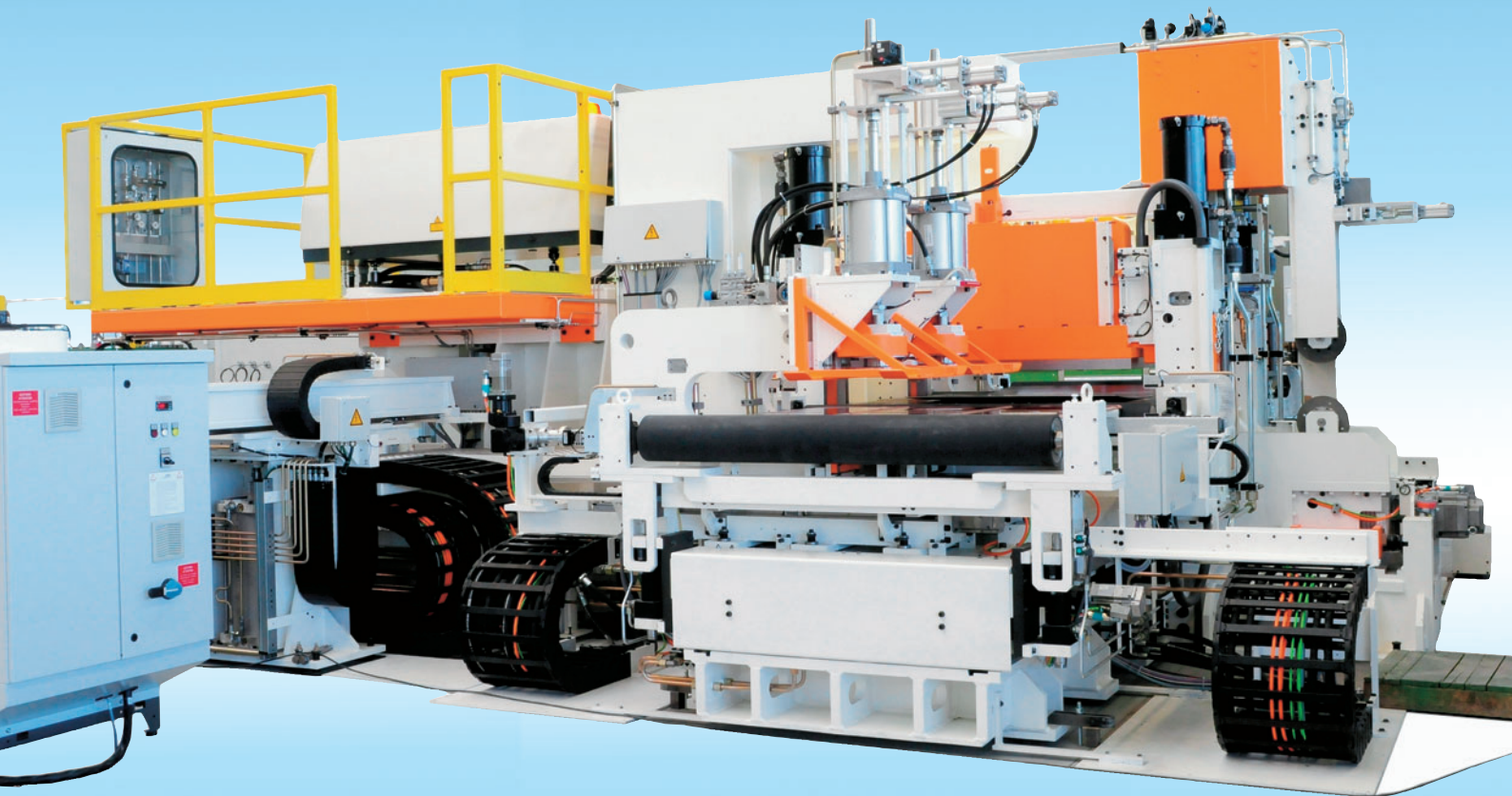


LASER COIL JOINING MACHINES LAS SERIES



BURR-FREE WELD
SEAMS WITH PERFECT
CHARACTERISTICS





Single clamping of strip ends prior to cutting and welding by Laser beam

You operate one of the following manufacturing lines:

- Inspection line
- Galvanizing plant (electrolytic or galvanic)
- Coil coating plant (organic coating, also as multilayer)
- Pickling line
- Rolling plant
- Continuous annealing oven.

The demands regarding coil joining quality increase permanently:

- Weld seams must not show an excessive thickness.
- Weld seams must resist all following processes such as rolling or deep drawing.

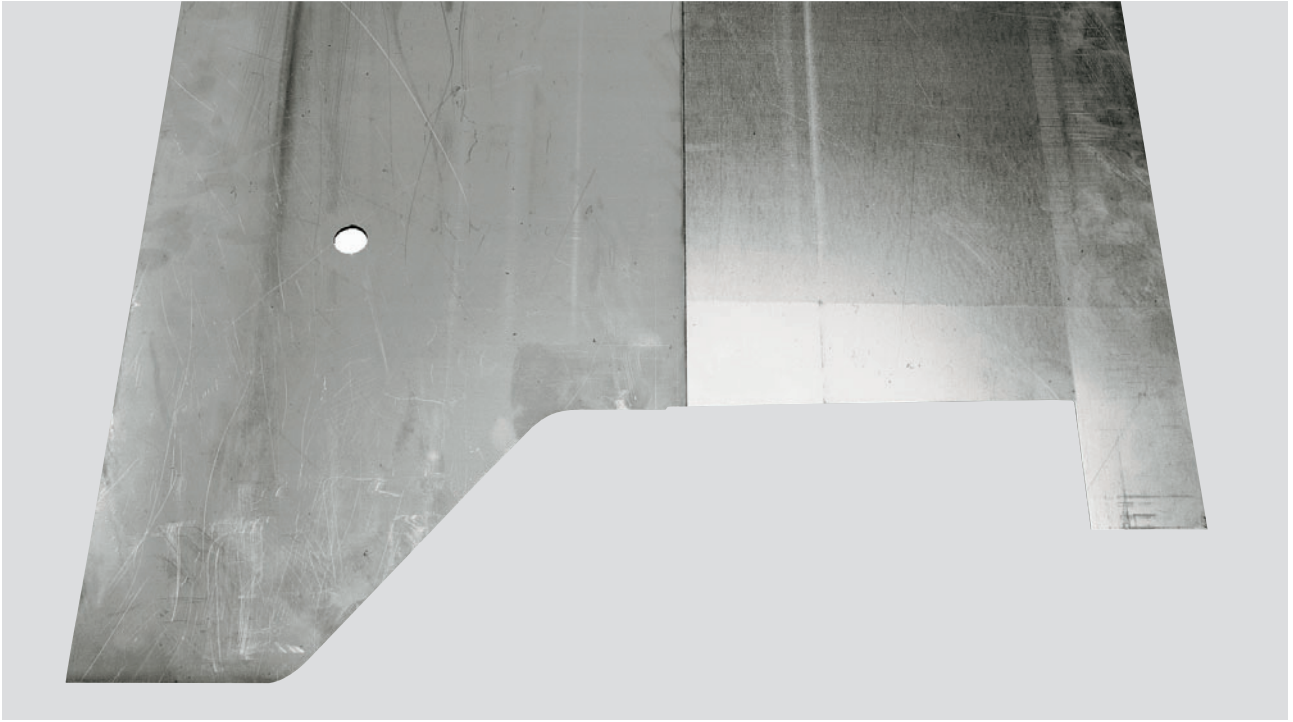
- High-quality materials of high strength or high silicon content have to be processed.
- Coated materials need to be joined.
- Different materials and sheet thicknesses have to be joined.

All these requirements can be matched with the IDEAL transversal Laser Coil Joining Machine.

A perfect strip edge is a major condition for a good laser weld seam. Thus: laser cutting being the better preparation of the strip ends.



Type LAS 200/2200/3
Strip passage direction:
right → left



ADVANTAGES OF LASER CUTTING:

- Rectangular cutting edge over the whole sheet thickness and width.
- Oxide-free and hardening-free strip edge over full width.
- Equal cutting quality and cutting force for all material grades (upto 1600 N/mm²).
- No wearing as there is no mechanical contact and only minimal gas force on the material.

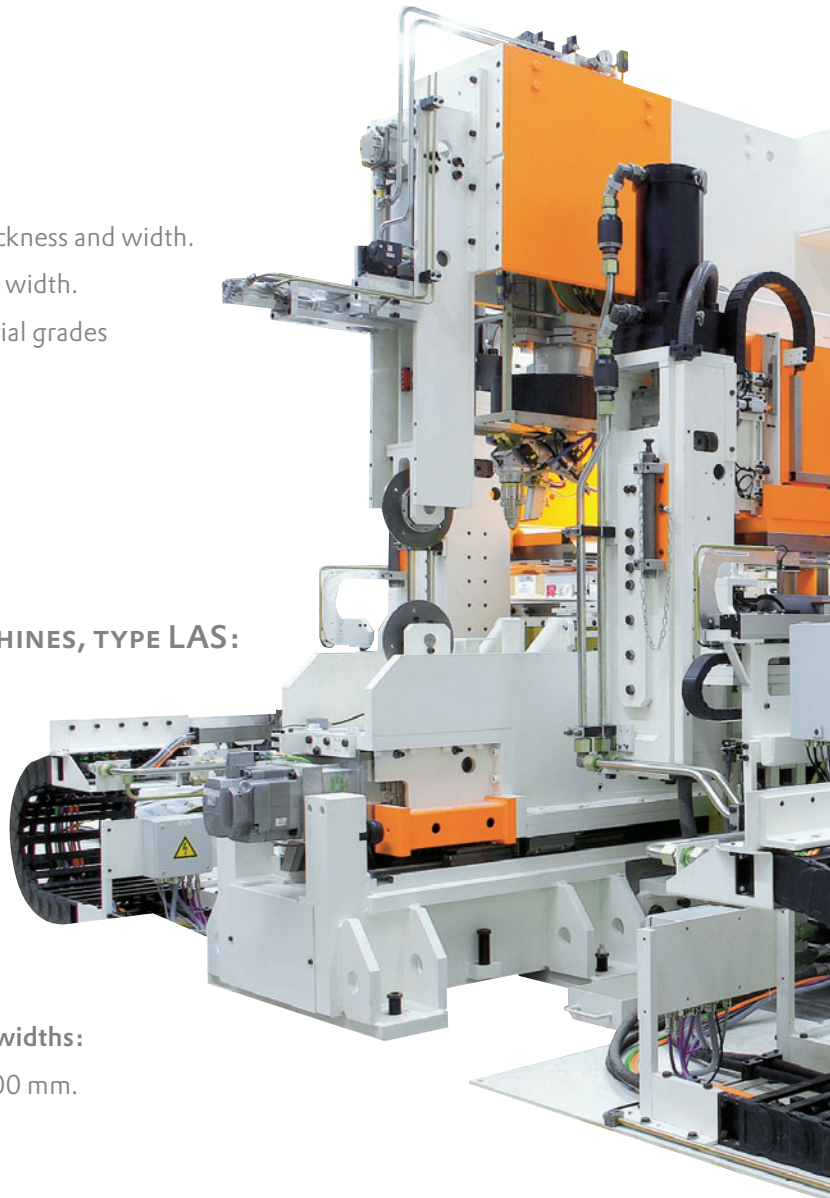
RANGE OF IDEAL LASER COIL JOINING MACHINES, TYPE LAS:

- **LAS 200** for discontinuous lines, strip thickness 0,4 mm upto 3,0 mm
- **LAS 300** for continuous lines, strip thickness 0,4 mm upto 3,0 mm
- **LAS 500** for continuous lines, strip thickness 1,5 mm upto 6,5 mm.

All types are available with the following clamping widths:

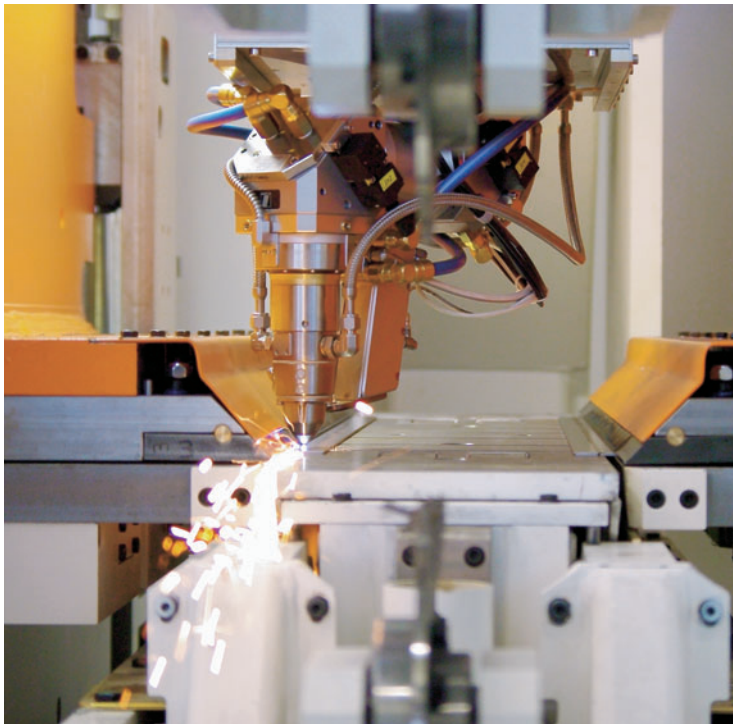
1400 mm / 1600 mm / 1800 mm / 2000 mm / 2200 mm.

Special design machines on demand.



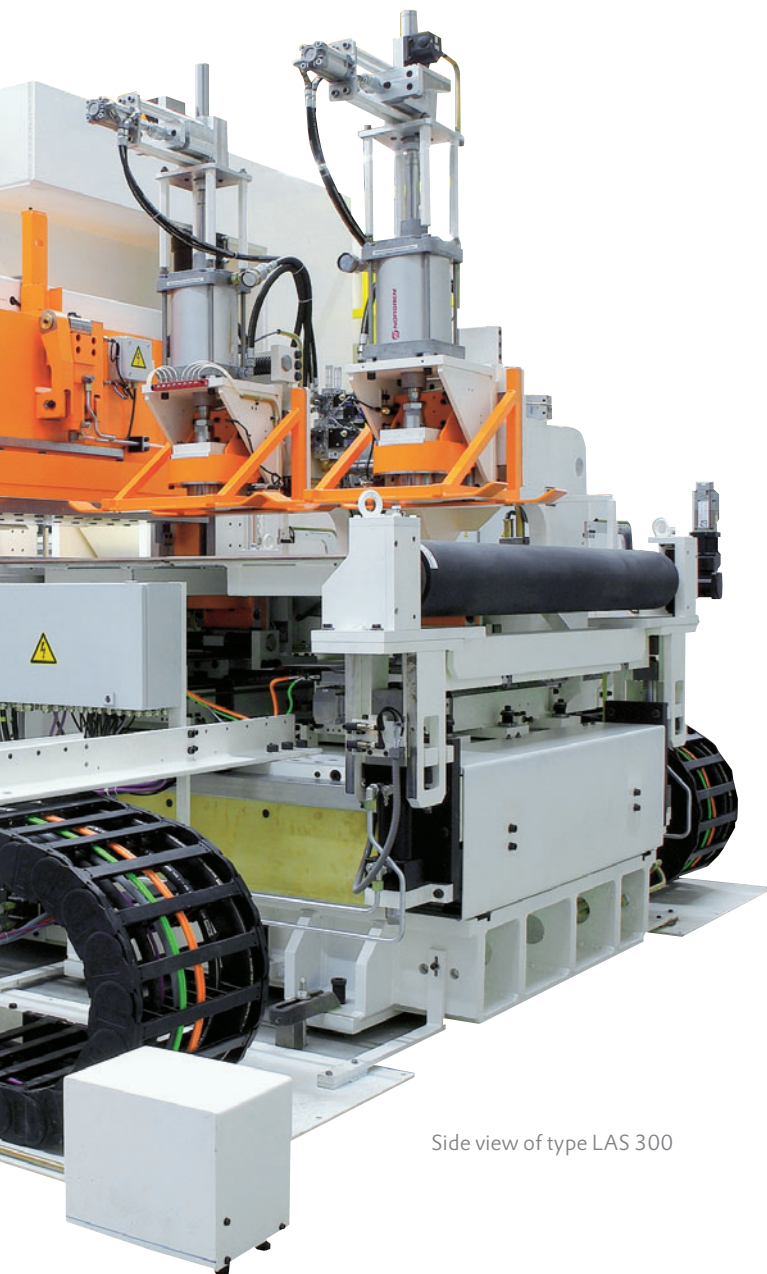


Peak performance
by laser light spot



Laser cutting of strip

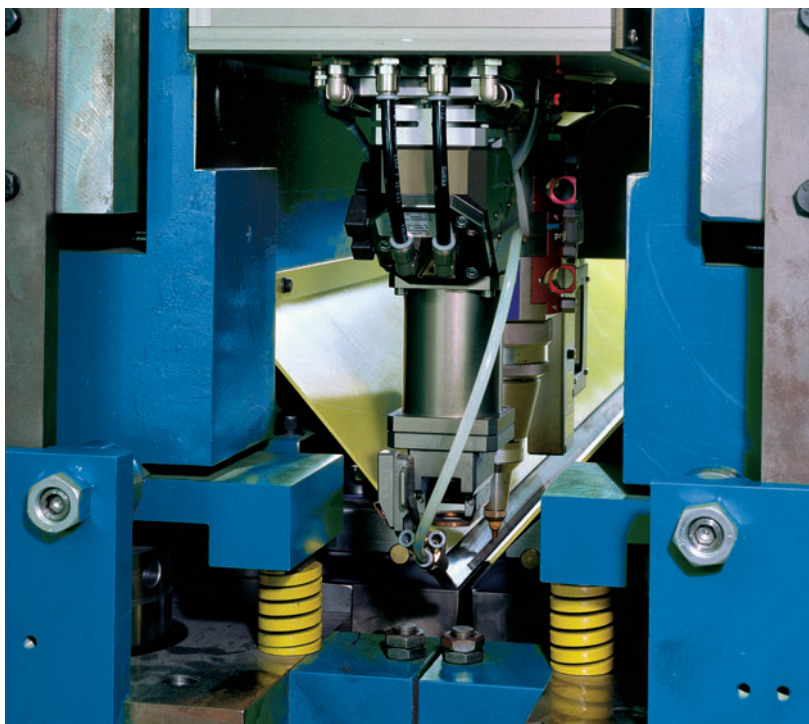
4



Side view of type LAS 300



Control panel, type LAS 300



Laser welding of strip



Laser Coil Joining Machines LAS Series

5

Optional accessories

- Centering device for strip as C-clamp or 4-point centering
- Seam detection hole produced by laser or mechanical device
- Lateral stamping device by laser or mechanical device
- Flattening device
- Annealing device
- Loop forming table
- Strip driving device
- Weld seam control.

IDEAL DELIVERS

- Development of machines in collaboration with the customer, tailor-made solutions for individual applications.
- Design of all mechanical and technical supply-related machine components.
- Design of control, process-flow programs and communication interfaces.
- Production of mechanical and electrical machine components.
- Installation and start-up of all machine components.
- Testing the machine and determining the welding parameters.
- Dismantling, transportation and assembly in the factory of the customer.
- Start-up and if necessary, line connection in the factory of the customer.
- Production assistance and fine tuning of production line in the factory of the customer.
- After Sales Service and delivery of spare parts.



LEADER IN WELDING
TECHNOLOGY SINCE 1923



A TEAM OF EXPERTS HAVING INTERNATIONAL EXPERIENCE IS AT YOUR DISPOSAL.

■ Contact us so that we may examine the tasks jointly with you and find or develop the economically as well as technically most appropriate solution together.



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