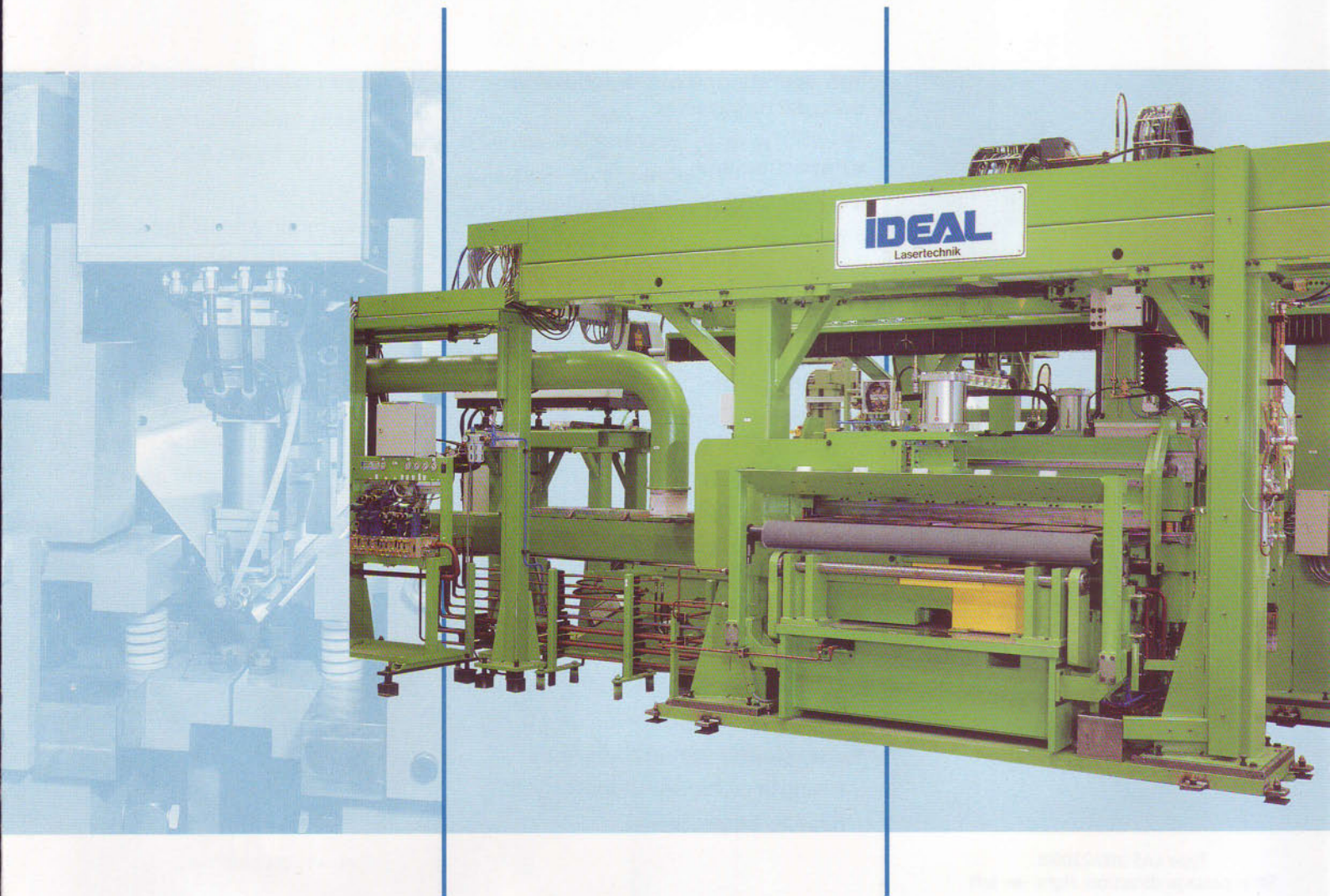




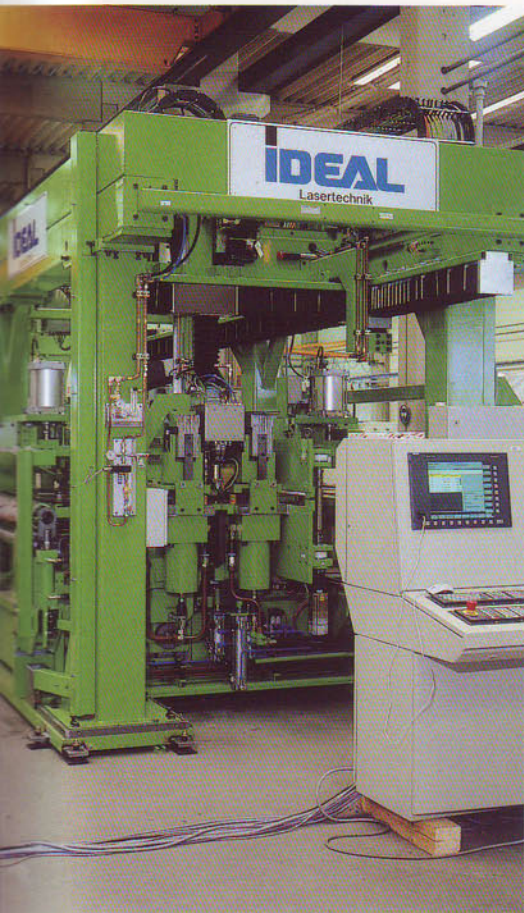
LASER
COIL JOINING MACHINES
LAS SERIES



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.
- Welding 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



Laser cutting of strip

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:

- **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 400** for discontinuous lines, strip thickness 1,5 mm upto 6,5 mm
- **LAS 500** for continuous lines, strip thickness 1,5 mm upto 6,5 mm

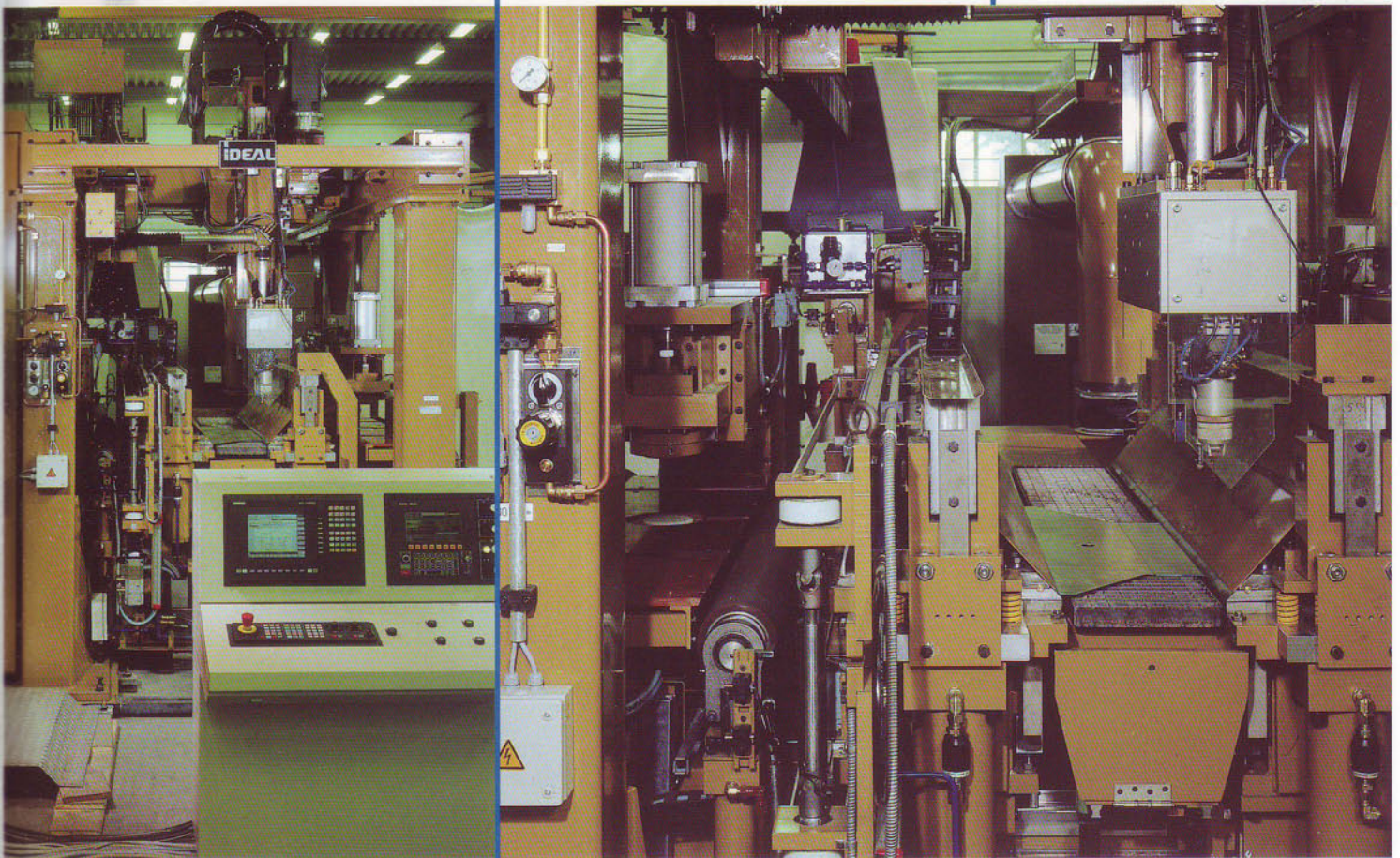
All types are available with the following clamping widths:

1600 mm/1800 mm/2000 mm/2200 mm

Special design machines on demand.

PEAK PERFORMANCE BY
LASER LIGHT SPOT

COIL JOINING MACHINES
LAS SERIES

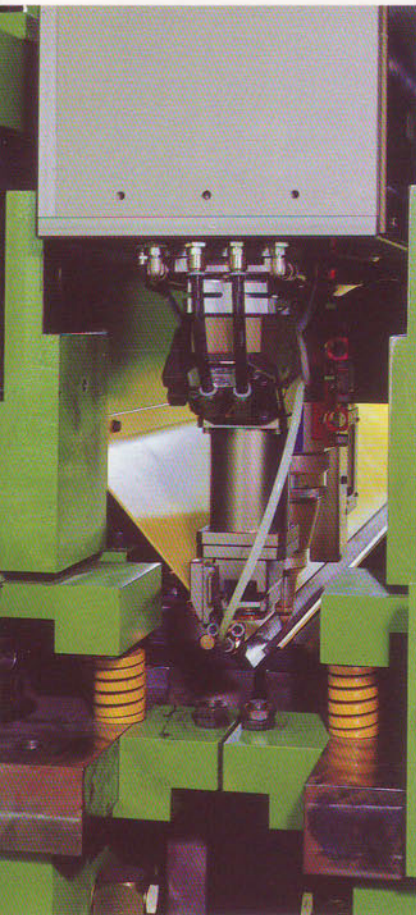


Type LAS 200/1800/2
Strip passage direction: left → right

Laser welded strip with cut edges
and seam detection hole

LASER COIL JOINING MACHINES

LAS SERIES



Laser welding of strip

Optional Accessories:

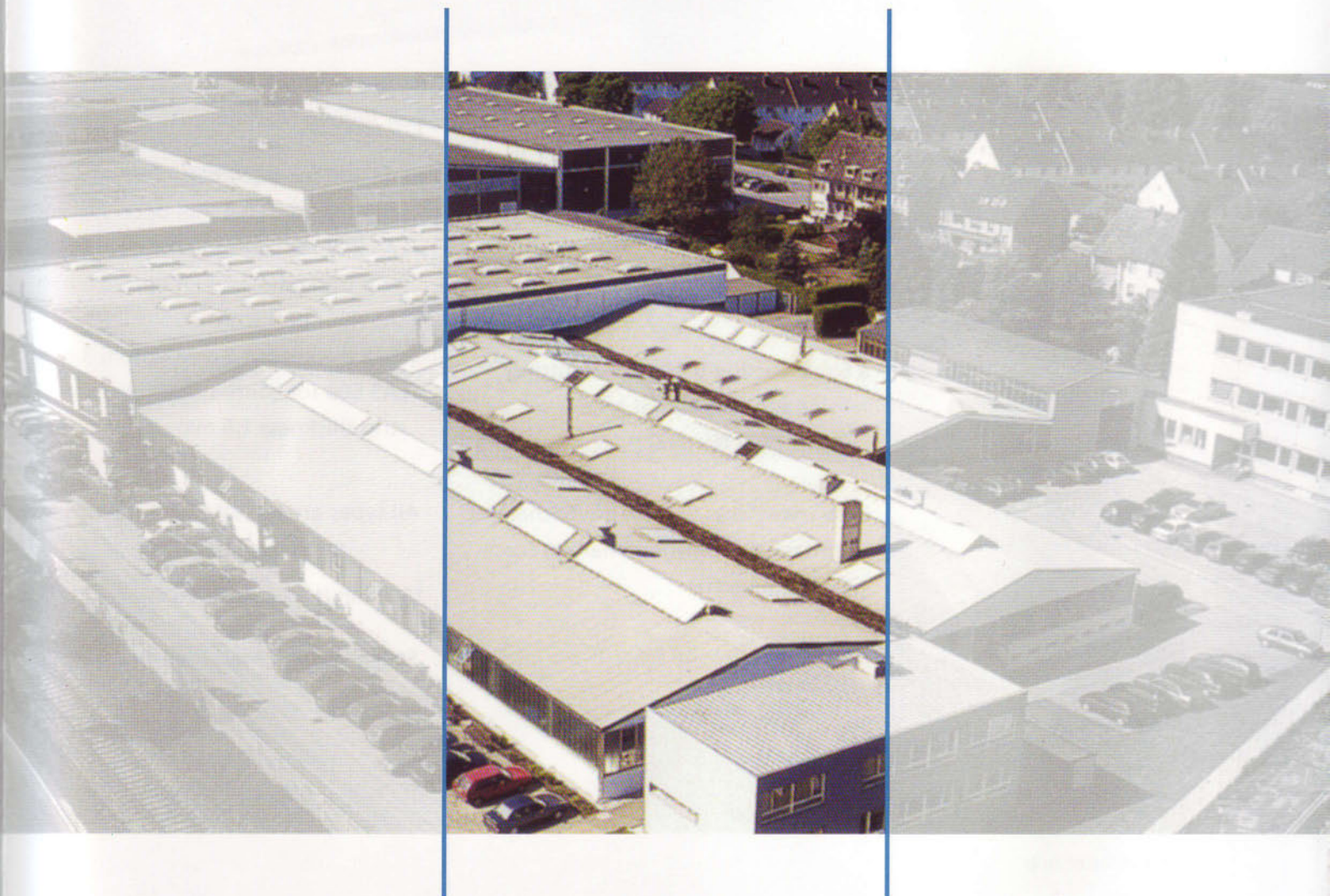
- Centering device for strip as C-clamp or 4-point centering
- Seam detection hole produced by laser or mechanical device
- Lateral stamping device by laser or mechanical device
- Flattening device
- Annealing device
- Loop forming table
- Strip driving device
- Weld seam control

IDEAL delivers:

- Projection work for machines in close collaboration with the customer, tailor-made solutions for individual applications.
- Design of mechanical machine parts.
- Design of control systems, sequence programs and communication interfaces.
- Manufacture of mechanical and electrical machine parts.
- Assembly and commissioning of all machine parts.
- Testing of machine and check of welding parameters.
- Dismantling, transport and assembly at customer's works.
- Commissioning, transport and integration into customer's production line.
- Production assistance and fine tuning of production line at customer's works.
- After Sales Service and urgent delivery of spare parts.



YOUR COMPETENT AND
RELIABLE PARTNER



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