



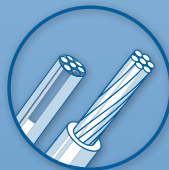
Welding & Automation



Wire products



Wire joining



Conductors & Cables



Automotive



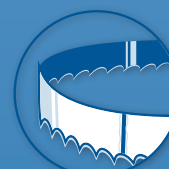
Sheet metal products



Gratings



Coil joining



Bandsaws



Clemens Jungeblodt sen.



Clemens Jungeblodt



Eberhard Jungeblodt

IDEAL is a family owned and operated company that was founded 1923 under the name Elektro-Apparate-Bau GmbH, in Lippstadt, Germany.

Since its inception, IDEAL is known for constant innovation and superior quality „Made in Germany“ for our machines and our plant engineering. Currently managed by the family's third generation, our core competence at IDEAL remains the same – resistance and laser welding.



General Mangement: Dorothee Jungeblodt, Dipl.-Ing. Rainer Pumpe and Dipl.-Ing. Max Clemens Jungeblodt

IDEAL's product portfolio ranges from welding machines for the joining of wires, stranded wire and band saws, to wire processing, the manufacture of sheet metal products, and the joining of strips. Our range extends from smaller series of production machines up to modular standard configurations, and to custom-designed and customer-orientated special solutions.

Our commitment to the further development of the product range and skilled, problem-oriented consulting has helped propel IDEAL to a leading position in the market, and made us a reliable partner for the industries we serve. We pride ourselves on providing increased efficiency, reliable machinery, and excellent service and support to our customers. IDEAL has knowledgeable representatives in more than 45 countries to ensure that we are always close and accessible to our customers.

Our sales and service office in the United States – IDEAL Welding Systems in Rockford, IL – has offered machinery, systems and spare parts in the US, Canada and Mexico since 1995.

In order to meet the demanding requirements and evolving challenges of our international industrial customers, we base ourselves on fair teamwork, with our customers, our suppliers and our employees.

IDEAL has 200 employees who make an invaluable to the success of our company through their commitment, their knowledge, and their close bond to the company. We ensure a solid, long-term base of technical knowledge and experience at our company through professional training practical experience and continuous education.

The head office in Lippstadt in Westphalia includes the administration and commercial departments, technical sections such as project management and the design offices. Our mechanical production facility is equipped with a modern machine park and delivers high-quality individual parts with top precision.

At our second location in Lippstadt, IDEAL machines are assembled in the production facilities, and the hydraulic, pneumatic and electrical systems are installed. Then a final test run takes place using customer-provided materials, optimally preparing the machinery for customer approval and for subsequent training.

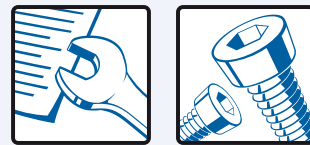
Many years of experience with resistance and laser welding technologies in numerous applications and practices, cooperative arrangements with universities and research institutes, and an absolute sense for technical trends are all at the roots of our strong innovative abilities.

The basis of our work lies in the further development of our well-proven standard machines and in the creation of new individually-customized special solutions.

What can we do for you?

IDEAL delivers

- Customized solutions - planning of machines in collaboration with the customer
- Execution/testing of applications for specific types of joining in a test setting
- Support in the planning of a new factory or production
- Design of all mechanical and supply-related machine parts
- Design of the controller, sequencing programs and communication interfaces
- Production of the mechanical machine parts
- Installation and initial commissioning of all machine parts
- Testing of the machine and determination of the welding parameters
- Disassembly, transport and installation at the plant of the customer
- Initial commissioning and, where necessary, linking into a line in the plant of the customer
- After Sales Service and the delivery of spare parts



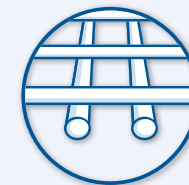
Our experienced service team offers professional advice and support, either on site or by telemaintenance.

- Spare parts
- Repairs
- Maintenance/servicing
- Remote maintenance
- Upgrades
- Modifications
- Training

Our highly qualified project managers support you as the relevant contact persons so that the individual tasks can be discussed intensively and solved together with you.

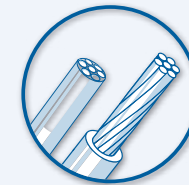
Foresighted project planning leads to developments and CE-certified designs that are matched to the subsequent work processes so as to reduce the life cycle costs.

We gained our know-how in the construction of special machinery in many complex projects.



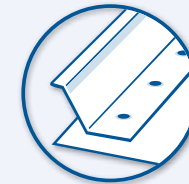
Wire products

Pages 6-8



Conductors & Cables

Page 10



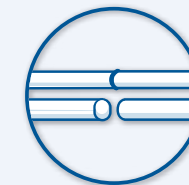
Sheet metal products

Pages 12



Coil joining

Page 14



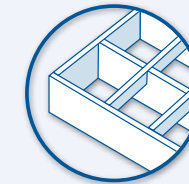
Wire joining

Page 9



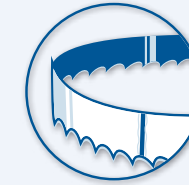
Automotive

Page 11



Grating

Pages 13



Bandsaws

Page 15

Custom solutions

Did you not find what you were looking for?

IDEAL offers flexible, fully customized solutions according to customer requirements.

Give us a call!



IDEAL mesh welding machines are widely used in the wire goods industry. Leading manufacturers of wire goods, prefer to use our machines when they are looking for flexible and economic production of meshes and grids.

IDEAL also specializes in automatic production lines which often require further processes such as stamping, punching, bending, etc., so that at the end of the line our customer produces a complete part ready for sale, in one operation, with minimal labour.

We offer our customers various series of modular-designed welding machines that produce grids and meshes of all kinds that are made with pre-straightened and cut wires. Here we pay special attention to ensuring that our machines are highly versatile and flexible. Easy and quick set-up for product changes, make our machines suitable for any sized production run, small too large.

IDEAL stands for a new level of efficiency and environmental consciousness in welding technology. We have developed highly-efficient welding systems that set new standards with regard to economic and ecological factors through the use of energy-saving technologies and components to conserve and recycle energy.

Typical applications

- Animal cages
- Cable trays
- Dishwasher baskets
- Barbeque grills and oven racks
- Sales and display stands
- Security mesh fencing
- Shopfitting products
- White goods
- Wire baskets
- Wire shelving



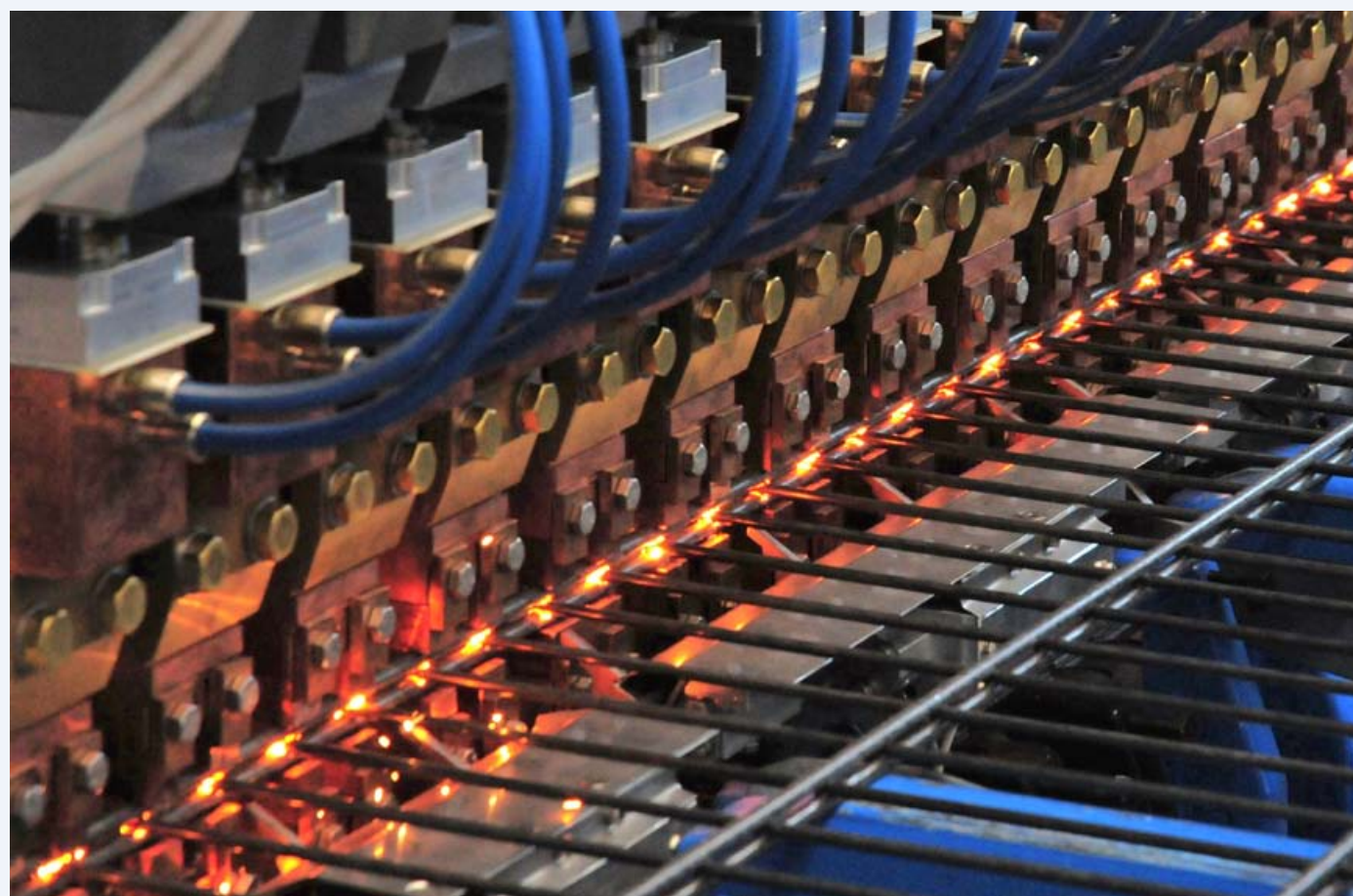
Security fence type 358

Typical applications

- Decorative fences
- Double wire fences
- Fences for pets and wild animals
- Gabions
- Mobile fences
- Security fences
- Standard wire welded fencing mesh



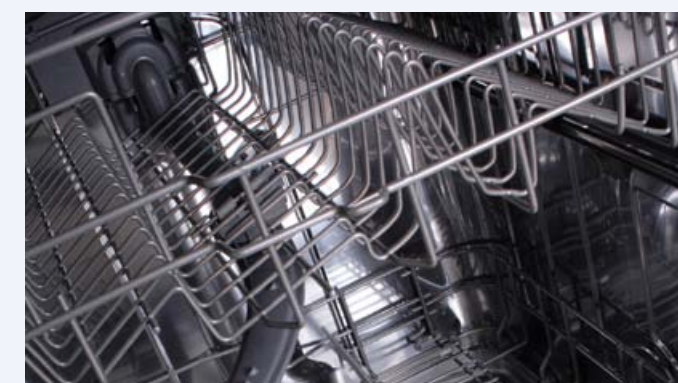
Shopfitting and display mesh



Welding portal



Gabion wall



Dishwasher basket



Supermarket shelf

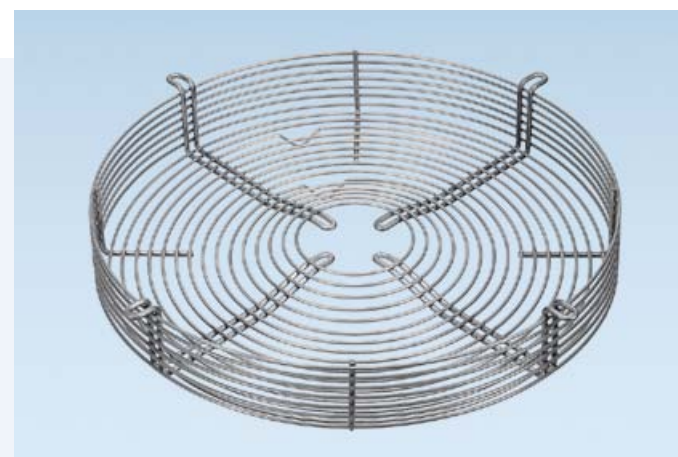


IDEAL CNC-jig welding machines combine a high level of economy with an extreme degree of flexibility. Work pieces made of wire, sheet metal or a combination of both, are welded in custom made jigs. Flexibility is the main advantage for our CSR VERSAWELD.

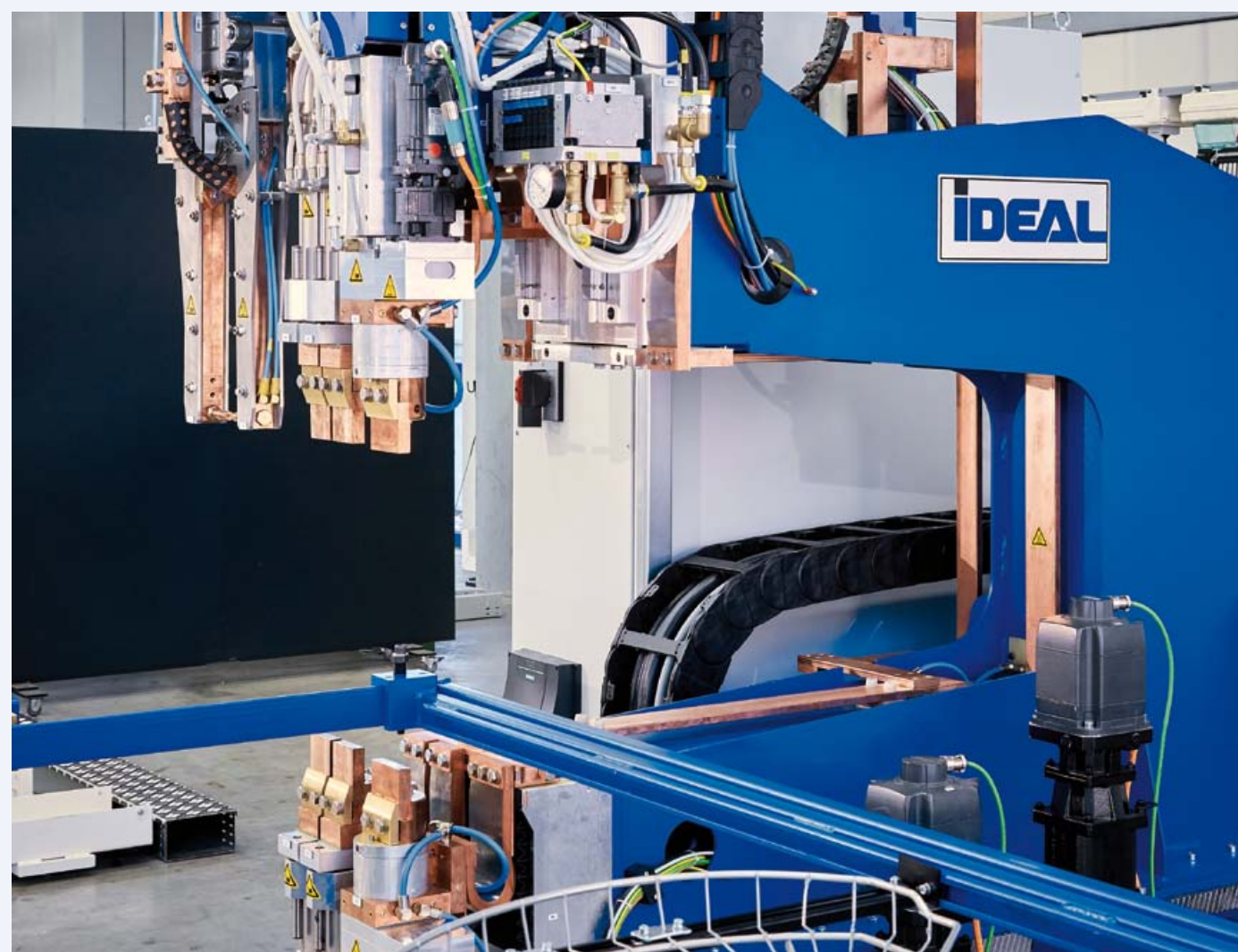
Simultaneous loading and unloading of the work pieces is possible through linear or rotary tables, incorporating multiple jigs. It is possible to weld 2- or 3-dimensional products in a single operation, eliminating multiple processes.

Typical applications

- Decorative items
- Garden or kitchen mesh gratings
- Fan Guards
- Furniture industry
- Shelving
- Shopfitting
- Switch cabinet construction
- Wire pallets
- Wire/sheet products



3D fan guard



CSR VERSAWELD for wire and sheet products

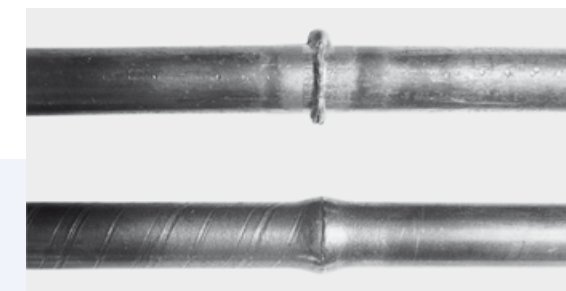


IDEAL supplies proven and reliable welding machines for the joining of wires made of steel, stainless steel and non-ferrous metals in wire drawing plants and cable works.

Short cycle times can be achieved with our pneumatic welding machines offering high production rates in the joining of rings, frames, shaped parts and other articles made of round or profile wire. T- welded joints are also possible.

Typical applications

- Cable works
- Drill extensions
- Ferro-concrete connections
- Household cutlery
- Medical instruments
- Shaped parts made of round and profile wire
- Steel cord joints
- Wire articles
- Wire drawing
- Wire frames
- Wire rings



Butt welding and multi-pulse welding



Flash butt welding of wire for reinforced concrete steel



Dual force welding of copper wire



Welding of steel cord



T-welding



DSH 130 wire butt welder



Our butt welders are used in the cable industry for the joining of stranded conductors in continuous extrusion lines. The welds are done using the enclosed resistance welding procedures with sleeves made of glass, ceramic or graphite.

When it comes to various conductor core cross-sections, there is a choice between manually-operated machines and special solutions, incorporating pneumatic or hydraulic systems.

Typical applications

- Cable joining
- Cable products
- Extrusions lines
- Cable sheathing lines
- Wire stranding machines



Separated, molten cable end



Tapered cable end-twisted during the separating procedure

Our cable separators have been developed for the cutting of wire cables. The parting is done by means of resistance heating, where the ends of the wire are melted into one another, so that fraying is prevented.



LSO 630 butt welder for stranded conductors



Welding of stranded conductors



IDEAL offers automated welding machines and robotic solutions based on resistance welding technology. Compliance with strict quality standards and thorough documentation of processes makes us an accepted partner for the automotive industry.

We offer 90 years of experience in the areas of joining and connecting technology, automation and engineering, which allows us to provide rational manufacturing of innovative products to meet our customers stringent requirements.

Typical applications

- Aluminium frames
- Door stiffeners
- Gear rims
- Lordosis braces
- Nut and stud welding
- Steel profiles
- Reinforcing profiles in doors or chassis
- Rims for cars, trucks, agricultural machinery, heavy earthmovers and motorcycles
- Seat frames made of sheet, tube or wire
- Stabilisers for automobiles



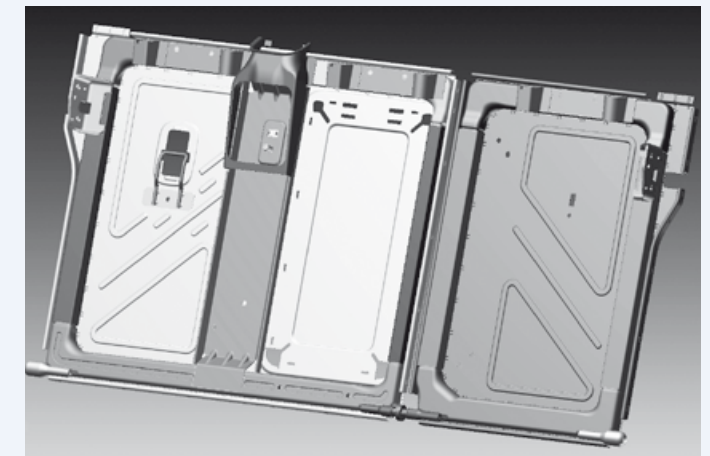
AS for strip and wheel applications



Aluminium rims



Welded gear rims



Back seat



Door stiffeners with welded nuts



Constant operation/uptime and a consistently high level of quality are crucial in the manufacture of sheet metal components.

IDEAL offers many options for quality assurance and process recording to ensure final products meet our customers stringent quality standards.

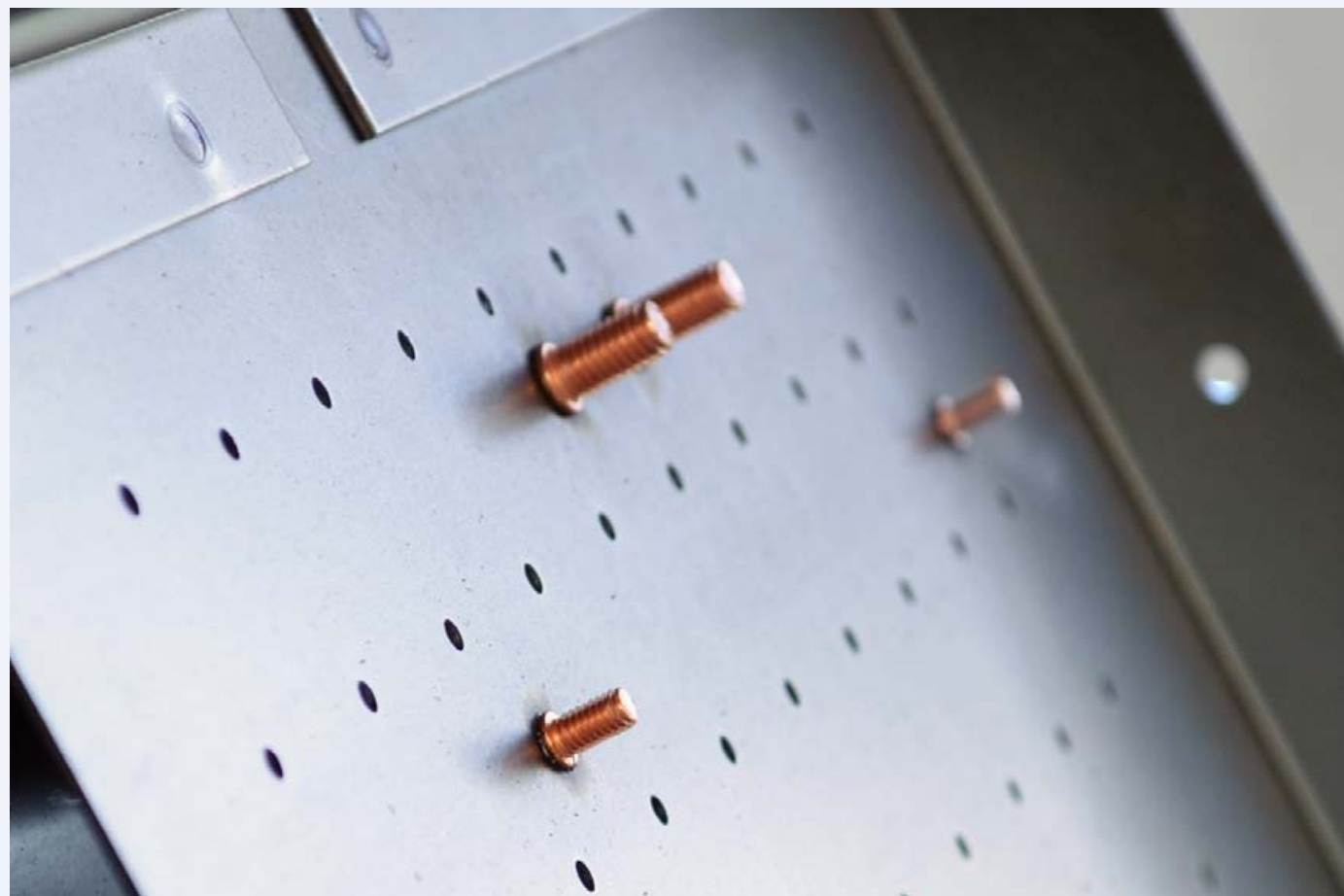
Our CNC jig welding machines have been optimized for automation in the sheet metal industry and can handle various welding procedures in a single setup. Used for everything from the joining of two sheets of metal to highly complex 3D components, our machines can be operated as a stand alone workstation or incorporated into an automatic processing line.

Typical applications

- Automotive applications
- Sheet metal brackets and stiffeners
- Drawer systems
- Handles
- Welded Wire mesh and grating products
- Reinforcing profiles
- Sheet metal cabinets and enclosures
- Switch cabinets
- Welding nuts
- Welding studs



Stud welding



Switch cabinet elements



IDEAL welding machines are successfully used by our customers worldwide to join work pieces made of steel, stainless steel and aluminum due to their consistently high welding quality.

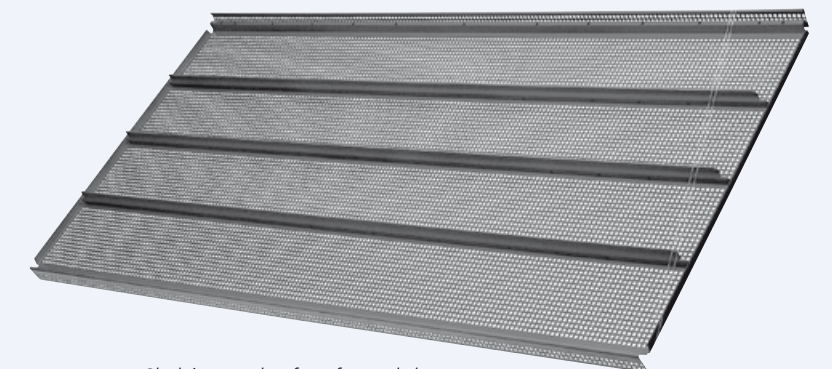
Multiple-spot welding machines and automated production lines are developed to meet individual customer requirements, for the economical manufacturing of products of various configurations and dimensions.

Typical applications

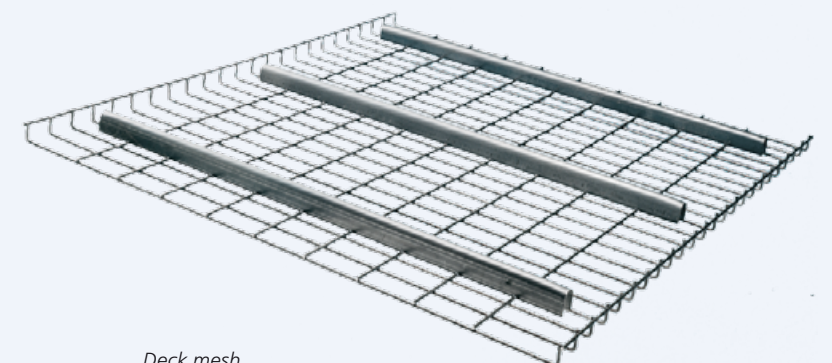
- Deck mesh
- Edge insulators for pressing grids
- Protection and mesh walls
- Side bars / banding
- Side strips for grating
- Stairs and steps
- Storage applications
- Wall elements
- Welded grating
- Window and door frames



Anti-slip grating



Shelving made of perforated sheet



Deck mesh



The quality requirements for the joining of strips constantly get tougher. For that reason we take advantage of the benefits of a laser; high welding speeds and perfect welding quality. IDEAL laser transverse weld seam machines cut and weld strip of various grades and material combinations by means of a laser beam in one clamping operation.

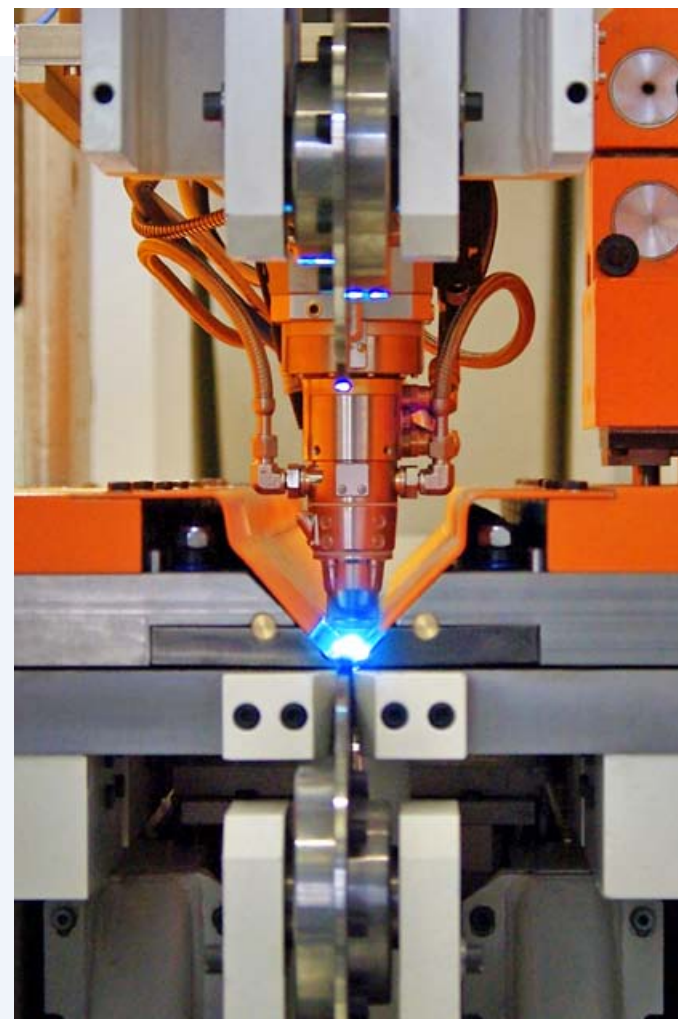
For smaller sizes of strip we offer flash butt welding and arc welding machines in semi- or fully automatic forms, and with built-in shears to cut off the ends of the strip. Reliable MIG/MAG, TIG or plasma welds are produced.

Typical applications

- Coating lines
- Continuous annealing lines
- Galvanisation lines
- Inspection lines
- Pickling lines
- Tube lines
- Press and stamping lines
- Profiling lines
- Cold rolling lines



LBS 041 welding process



LAS 300 during the welding operation



Flash butt welding, deburred



Arc welding



Laser welding



Since 1923, IDEAL has been a leading manufacturer of butt welding machines for the safe and secure joining of band saws of all types.

Butt welding machines are used to weld band saws of various material grades for both wood and metal.

Our Flash butt welding machines are used world wide in a great many ways including the production and finishing of band saws and band knives of all types.

Typical applications

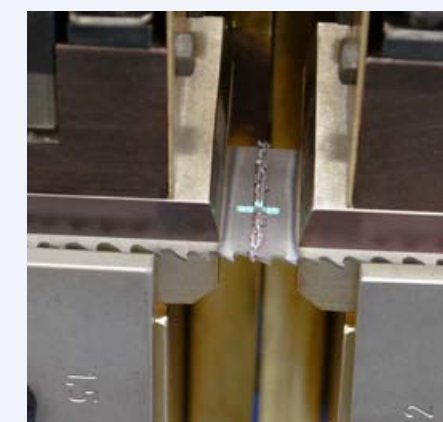
- Bi-metal band saw blades
- Carbon band saw blades
- Band knife blades
- Band saw blades for the food industry
- Flash butt welding of surgical grade steel
- Coil joining of strapping material
- Extensions for drill bits or taps
- Flash butt welding of dissimilar metals
- Coil joining on continuous lines of strip material
- Cutlery



BAS 300 flash butt welding machine for the series production of bandsaws



Flash butt welding



Heat treatment



Weld seam, undeurred



IDEAL-Werk

C.+ E. Jungeblodt GmbH + Co. KG

P.O. Box 1508
59553 Lippstadt/Germany

Phone +49 (0) 29 41 2 06-0
Fax +49 (0) 29 41 2 06-169

www.ideal-werk.com

IDEAL-Welding Systems L.P.

3294 Pyramid Drive
Rockford, IL 61109, USA

Phone +1 (815) 874 4349
Fax +1 (815) 874 4015

www.idealweld.com