



NC jig welding machines

Weld just about any wire and sheet metal product. Just in time.





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.

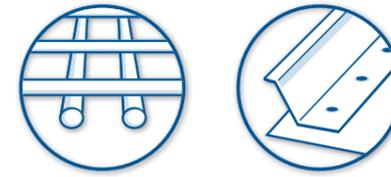
Our sales and service office in the United States – IDEAL Welding Systems in Rockford, IL – has offered machinery, systems and spare parts in the US, Canada and Mexico since 1995.

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 contribution 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.

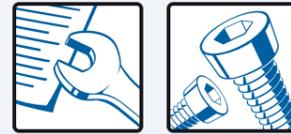


NC jig welding machines from IDEAL are widely used in the wire and sheet metal goods industry. Leading companies utilize these machines for preference so as to manufacture their products in a flexible and economic way.

The machines of type VERSAWELD® CSR are characterised by their wide variety and a very high degree of flexibility. The modular design of the machines allows the individual implementation of customer- and even product-specific requirements through the use of various options that relate to actual practice.

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.

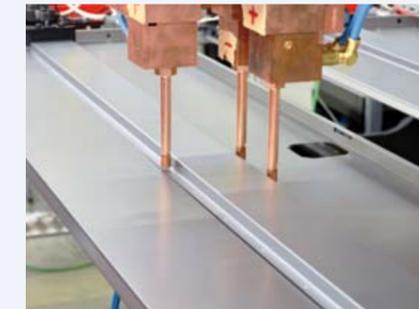


Typical applications – Sheet metal and/or wire products

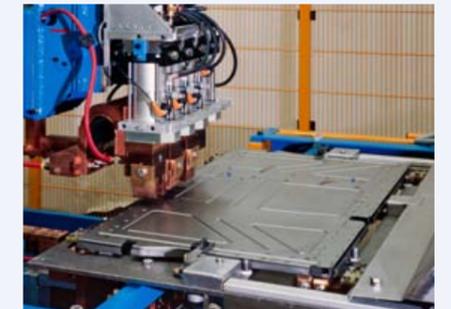
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| <ul style="list-style-type: none"> • Animal cages • Automotive applications • Containers and cabinets on wheels • Decorative fencing • Dishwasher baskets • Forge-welded gratings • Gabions and stone boxes | <ul style="list-style-type: none"> • Industrial gratings and mesh • Mesh panel fences • POS stands and display articles • Pull-outs, drawers and fittings • Protective gratings and meshes • Racks and grills for ovens and cookers • Safety fences | <ul style="list-style-type: none"> • Shelving systems • Shopfitting • Supermarket trolleys • Switch cabinets • Transport and logistics • White goods • Wire baskets |
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Automotive components



Sheet metal furniture and shelving systems



Rear seats for cars



White goods



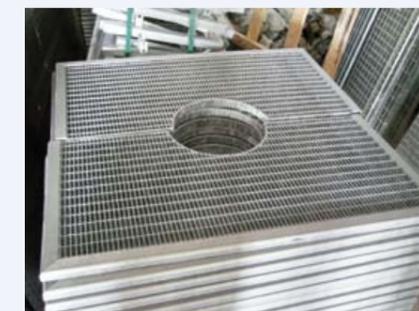
Container mesh



Shelving



Supermarket trolleys and shopfitting



Forge-welded gratings and press rosts



Fan-Guard protection

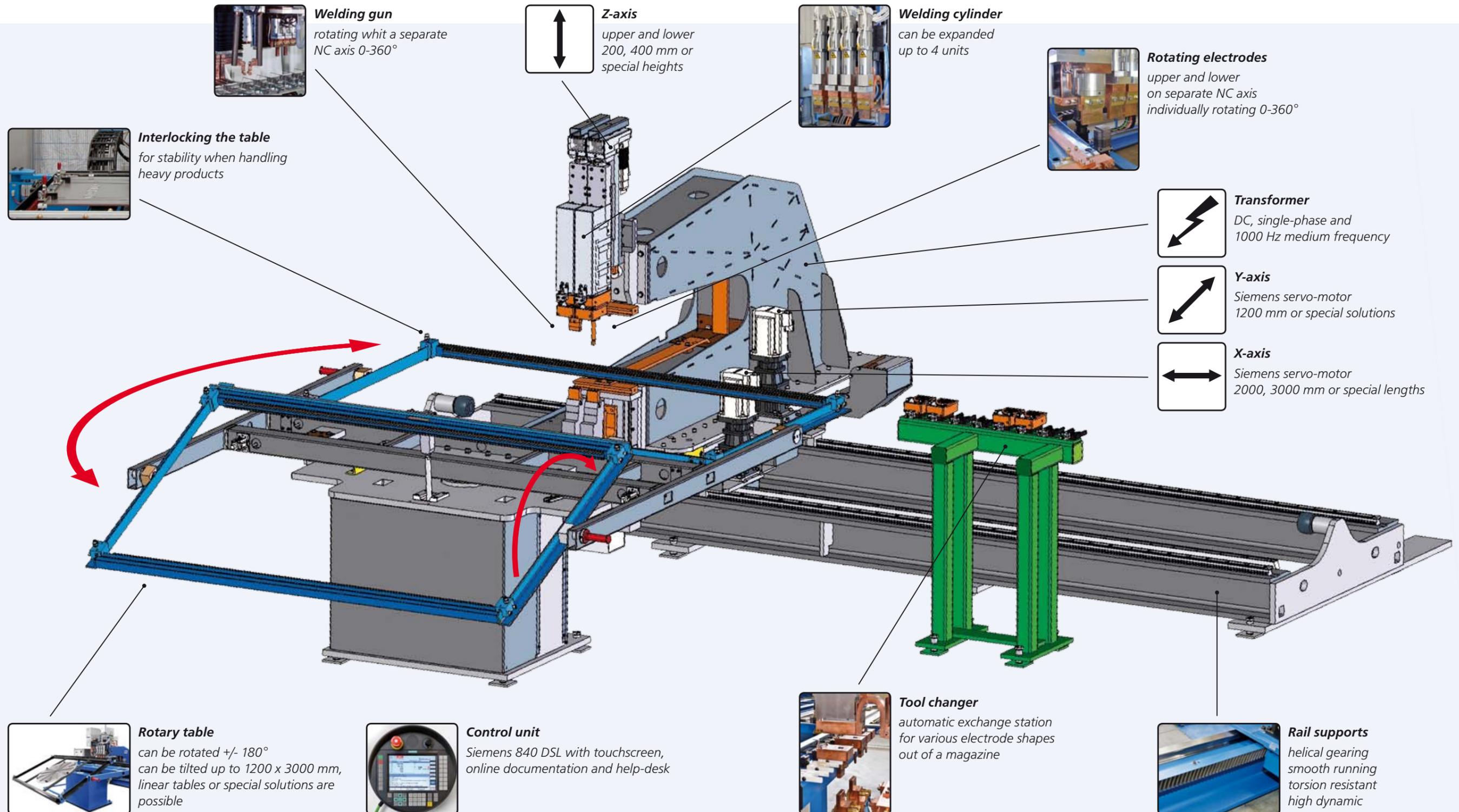
High tech as standard

The VERSAWELD® CSR NC jig welding machines are characterized by a wide variety of application options and simple handling. Products made of wire and/or sheet metal are placed into jigs on the rotary table that is served manually.

While the products are being manufactured on the one table side, the operator loads or unloads the other side. This allows optimal utilization of the machine and minimizes downtime. Both sides of the table can be programmed independently of one another. Product changes and new set-ups are possible within a very short time thanks to the intuitive form of programming and the use of the corresponding templates or jigs.

IDEAL offers a wide range of various table versions and loading facilities. The shape and dimensions of the product jigs can be matched individually to the particular requirement.

Through the use of NC-controlled axes the machine can be programmed and controlled in the X-, Y- and Z-directions to achieve precise positioning. The result is a high degree of precision and the best possible welding quality.



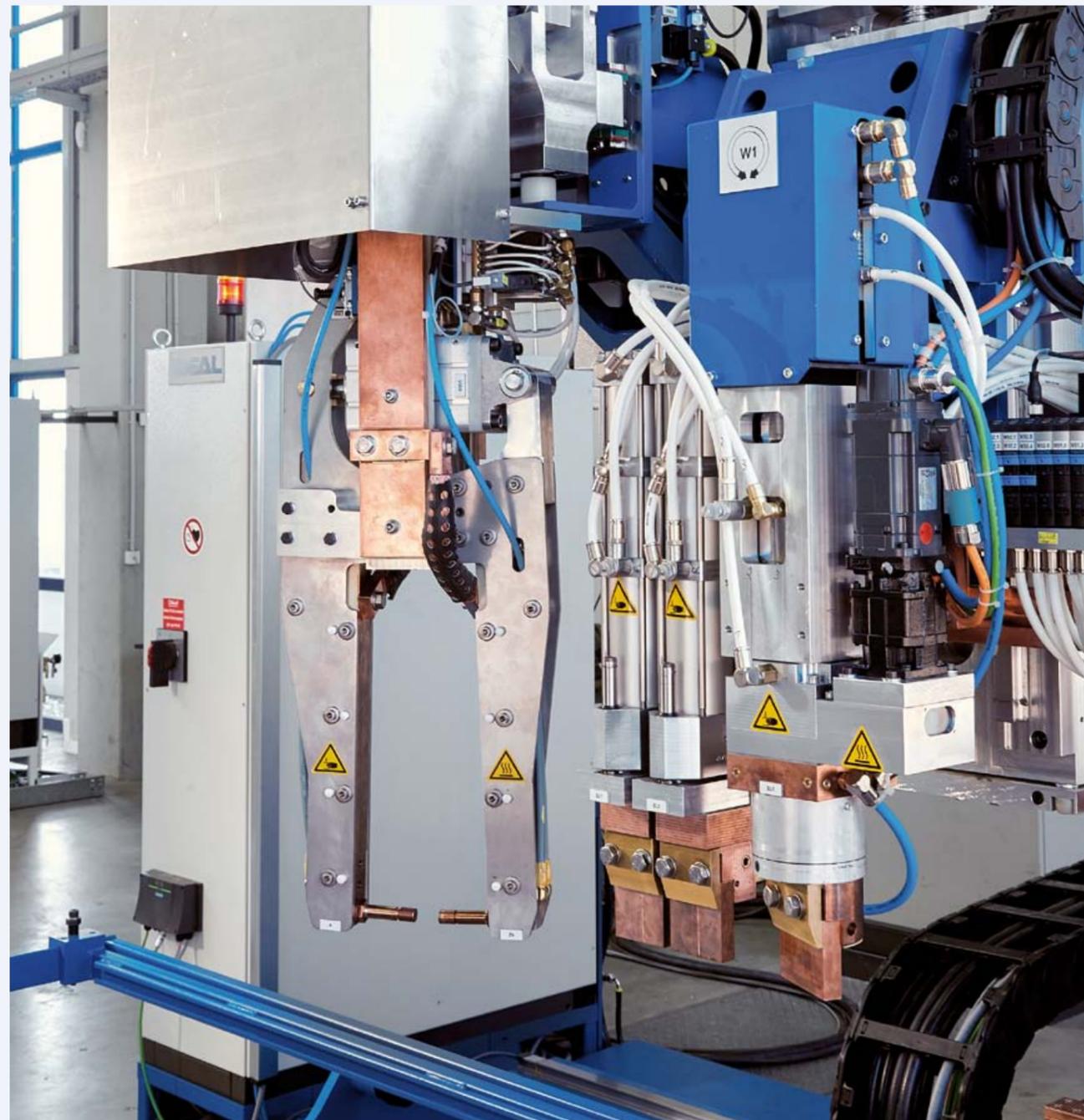
Options and accessories

The requirements of our customers and the market – in conjunction with constant development and refinement – form the basis for the accessories for our NC jig welding machines. All our equipment has modular design and can be adapted to suit particular requirements by using the appropriate, well-tested accessories.

Our wide range of accessories offers the possibility to customize your welding machine individually and suit your production process – now and in the future.

The various accessory elements can also be retrofitted and provide you the certainty that the welding machine is set up ready to handle future tasks. This security of investment and the ability to react in a flexible manner to your market requirements can be achieved by upgrading or converting your system.

In addition to classical software updates we can also offer an upgrade of the switch cabinet or electronic components.



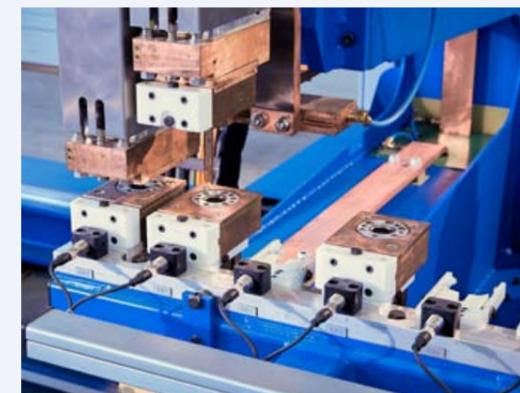
Welding pliers and up to 4 cylinders on NC rotating console



Welding gun and 4 welding cylinder unit



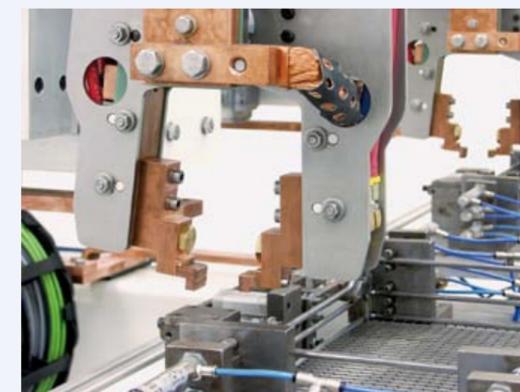
Jig design; pneumatic fast setup



Automatic tool changer with electrodes



Programmable NC welding unit with exchangeable insert



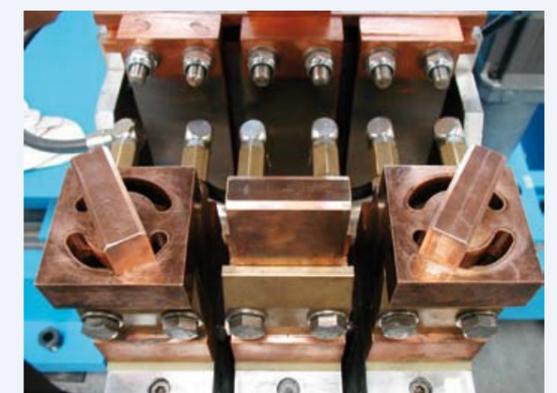
Programmable NC welding pliers (duplex); 0-360°



Pick and Place



Programmable NC rotating head; 0-360°



Manual rotating electrodes

Custom solutions - from the idea to the realization

Working on the basis of the well-proven VERSAWELD® CSR machine concept, we proudly realise custom solutions – tailored to the individual tasks and requirements of your market or needs. Our know-how supports also complete solutions and manufacturing lines in different dimensions.

Our highly capable team of engineers, designers and technicians would be always pleased to give you all the advice and practical support in realizing your project. The requirements are determined and planned while working in close collaboration with you.

Over more than 90 years IDEAL has achieved a well-known name in the market and developed and designed a correspondingly large number of welding machines.

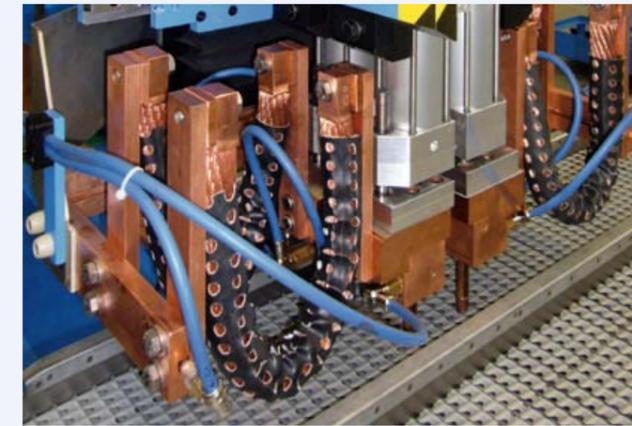
Please feel free to contact us !

IDEAL Know-How

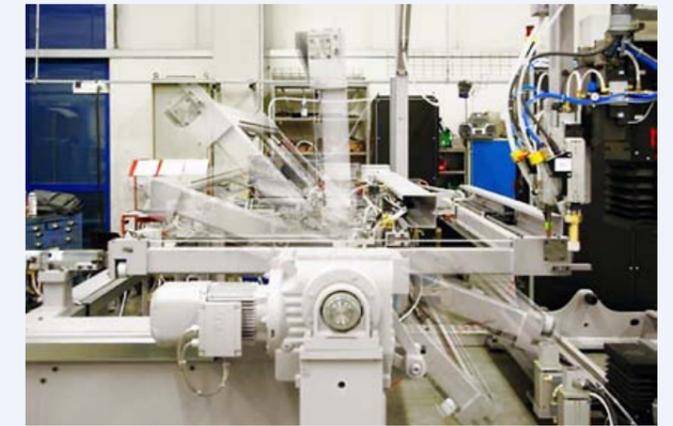
- + Design
- + Planning
- + Production
- = everything from a single source!



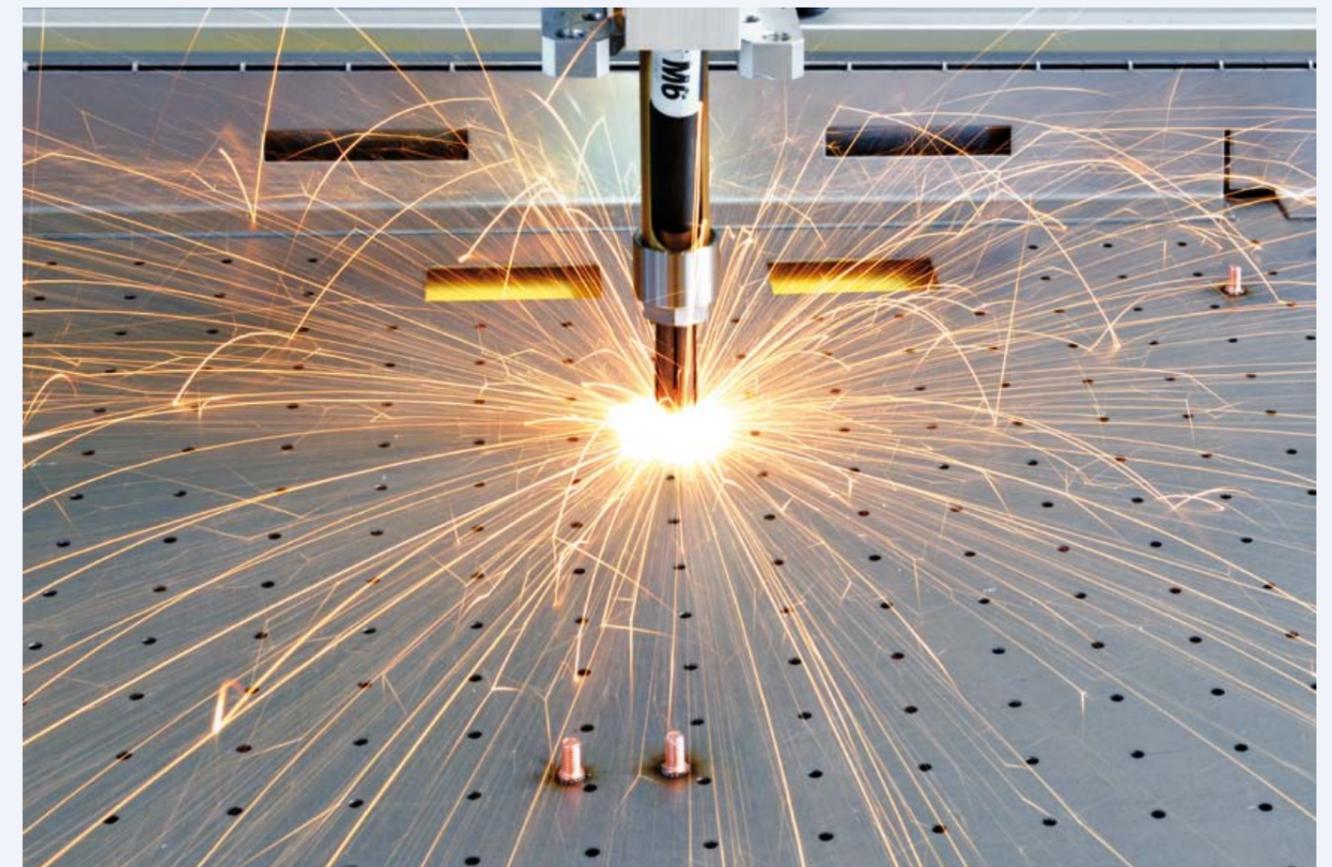
CSR Production with robot application



Multi-point welding for agricultural use, for example a harvester



Rotating table in motion



Stud welding, programmable feeding and positioning in various configurations (also including welding nut)



Dual welding machine with independently operating joining processes



Linear table with free access walk-in working area



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