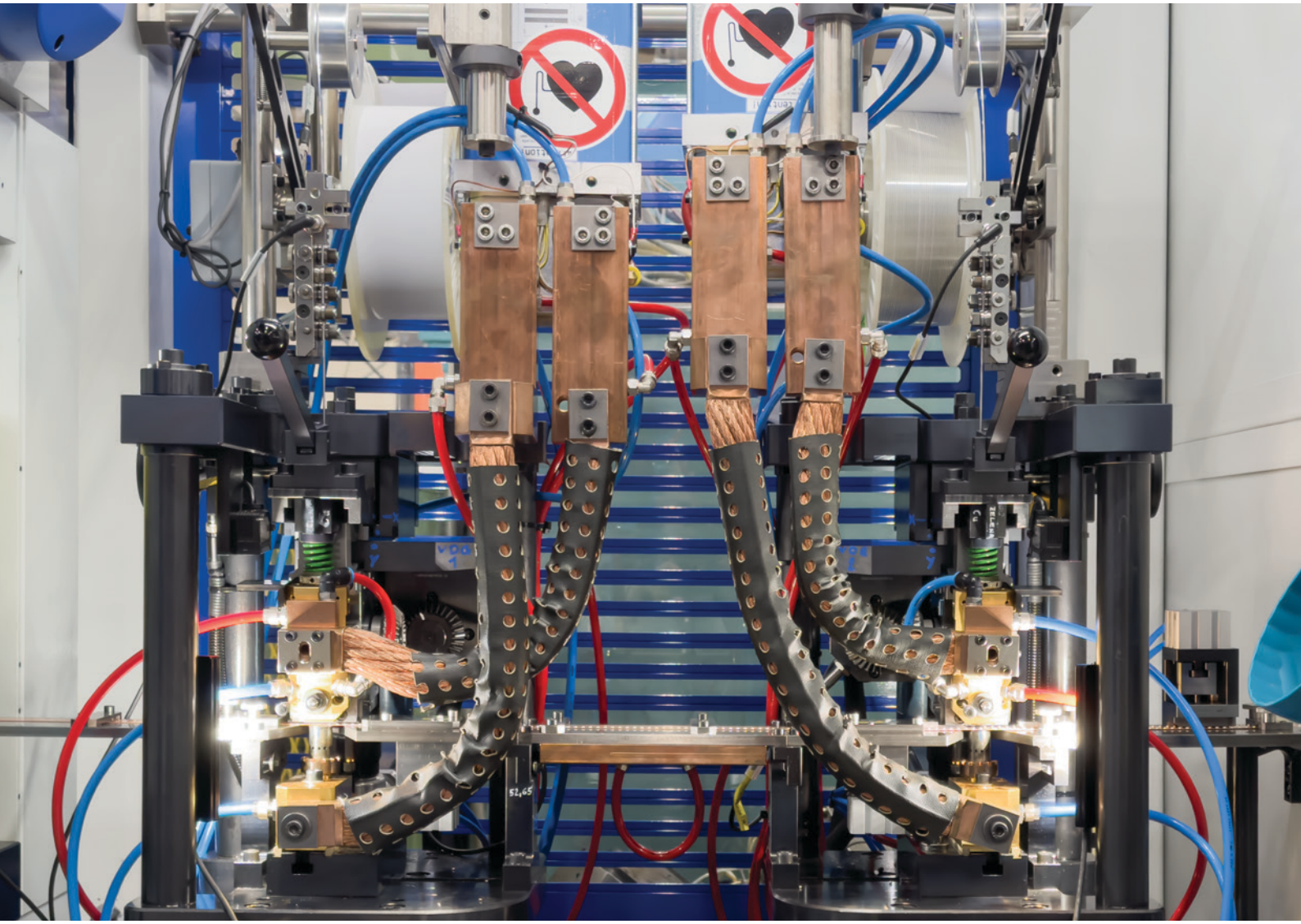
Iskra®

Manufacturing services
Electrical Contact Assemblies



Development • Prototyping • Manufacturing

Innovative. Smart. Sustainable.

iskra.eu

Our expertise

Iskra is a family-owned enterprise with a rich history spanning almost 80 years. Our journey began in Europe, from where we've grown into a globally recognized name in the field of cutting-edge technology.

Our expertise in the production of electrical contacts dates back to 1947, when we developed our first switchgear.

Our highlights

- Technology and design support
- Customized production according to the customer's requirements
- Modern contact production lines (2024)
- 100% welding control
- 100% robotic visual control
- Statistical monitoring of process stability (CPK)

From design to production

Product design and development

Selection of materials

Tool construction and production

Prototyping

Production

Products and materials

We produce contact assemblies of thickness up to 2.5 mm and width up to 120 mm with contact carrier materials like copper, brass, copper-plated steel, or other materials based on customers' requirements.

For the electrical contacts we use plates, wires or stripes made of various alloys of silver, nickel, tin and carbon, or other materials based on customers' requirements.

Electrical contact materials

Contact tips	Wires	Profiles
Silver and silver alloys Ag, AgNi, AgCu, AgCuNi, AgMgNi	Silver and silver alloys Ag, AgNi, AgCu, AgCuNi, AgMgNi	Silver and silver alloys Ag, AgNi, AgCu, AgCuNi, AgMgNi
Silver nickel AgNi10, AgNi15, AgNi20, AgNi30, AgNi40	Silver nickel AgNi10, AgNi15, AgNi20, AgNi30, AgNi40	Silver nickel AgNi10, AgNi15, AgNi20, AgNi30, AgNi40
Silver tin indium okside Ag/SnO2/In2O3	Silver tin indium okside Ag/SnO2/In2O3	Silver tin indium okside Ag/SnO2/In2O3
Silver zinc oxide AgZnO	Silver zinc oxide AgZnO	Silver zinc oxide AgZnO
Silver graphite AgC2, AgC3, AgC4, AgC5, AgC6		
Sintered Contacts AgW, AgWC AgC, CuW		

Additional services

Cleaning of the contact with ultrasonic washing machine

Ultrasonic washing uses high-frequency sound waves in a liquid medium to create tiny bubbles that gently clean the surface of electrical contacts, removing dirt and other contaminants.
This method ensures efficient cleaning, even in hard-to-reach areas, enhancing the conductivity and reliability of the contacts, leading to better performance and longer lifespan.

Sandblasting

Sandblasting is a process used to **remove old coatings, rust, scratches and surface impurities** from products. It involves propelling fine grains of abrasive material at high speed onto the surface of the contacts. By cleaning and smoothing the surface, sandblasting treatments ensure the electrical contacts are free from contaminants that could impair performance.

Vibratory deburring

Vibratory deburring is a process where parts are placed in a vibrating container filled with abrasive media. The vibration causes the media to rub against the parts, removing burrs, sharp edges, and surface imperfections.
This process ensures smoother edges and surfaces, reducing the risk of injury during handling and improving the fit and function of the parts in assembly.

Vibratory polishing

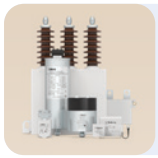
Vibratory polishing is similar to vibratory deburring but uses finer abrasive media and longer processing times to achieve a smooth, polished finish. The vibratory action gently polishes the surface of the parts, giving them a refined appearance.
This process also contributes to lower contact resistance and better performance, making the parts more suitable for high-precision applications.

Explore Iskra products and solutions

Product lines
Intelligent solutions for the future

Smart Energy Meters
leaflet

Products for electric vehicle charging stations



Capacitors
brochure package

Power Electronic
Capacitors

Power Factor Correction Equipment
for Low Voltage

Power Factor Correction Equipment
for High voltage

Manufacturing services
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