



Iskra

Iskra TELA d.d.

Company introduction

Company profile

Iskra Tela is located in Ljubljana, Slovenia and incorporates more than 60 years of tradition and experience.

In 2005 we combined different programs from separate companies into one company.

This merger enables us to use and employ all the development and production capacities.

Today the company is globally-oriented, customer-driven and a provider of new solutions.

When considering development and research, quality and the environment are both crucial issues. ISO 9001 and ISO 14001 are the standards which we have achieved.

The synergy of the resources, quality policy, gives our partners the assurance for long-term successful cooperation.

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Production programmes




Antennas, antenna electronic and accessories  2 - 3


Batteries  4 - 5


Components and mechanical parts for automotive industry  6 - 7

EMC Electrical filters  8 - 9

Measuring systems for machine tools  10 - 11

Electro plating  12 - 13

Time relays and sensors  14 - 15

Toroidal transformers and cores  16 - 17



Antennas, antenna electronics and accessories

- TV Antennas LOG, YAGI / UHF, VHF, COMBI
- Indoor, Camp Antennas
- FM / DAB Radio Antennas
- SAT Antennas, Receivers
- GSM, DCS, UMTS, GPS Antennas
- Wireless Antennas: Wi-Fi, LAN, WAN
- Professional Antennas

- Antenna electronics
- A/V Links, A/V Cameras
- Accessories, cables
- Individual SAT systems
- MATV, SMATV systems
- PAY TV systems
- Consulting, Projecting, System installations





Batteries

Professional batteries

Zinc air alkaline batteries for:

- Road signalization: compact, 6 V, 25 - 150 Ah
- Electric fences: 4PPF, 6 V, 40 Ah
6PPF, 9 V, 55 - 160 Ah
8PPF, 12 V, 60 Ah

Zinc air saline batteries for electric fences:

- 6AS4 8,4 V, 55 Ah
- 6AS6 8,4 V, 90 Ah

Benefits of zinc air batteries:

- high energy density
- high and constant voltage specially alkaline batteries
- good low-temperature performance
- environmentally friendly with no mercury or cadmium content

Consumer batteries and accessories

Daily occasion batteries

Rechargeable batteries

Accessories





Components and mechanical parts for the automotive industry

Development of new ideas and products

Development projects for the automotive customers based on the cooperation with companies in the Technology Park of Ljubljana.

Design and construction of

Tools for:

- Metal parts
- Plastic components

Production

- a) Metal parts from different types of metal sheets
 - contacts, holders, pins, housings, drawn parts etc.

b) Plastic components

- plastic parts from different materials like PE, PP, PS, ABS, etc.
- technical plastic parts with over molded metal inserts.

c) Electrical products

- cores, cable sets, tasters, switches etc.

Assembling:

a) assembling of finished products with various assembly operations and technologies

b) assembling of electrical parts together with other Iskra companies





EMC Electrical filters

Single line feed-through filters

Applications: automation, data handling, communications technologies.

Single line feed-through filters reduce EMI and noise in power and data lines.

Single-phase filters

- Single-phase chassis mounting filter
- Single-phase general purpose filters
- Single-phase two-stage general purpose filters
- Single-phase multi-stage filters
- Single-phase high-power filters

Applications: Frequency converters, telecommunications, medical equipment, automation.

Single-Phase filters are intended to reduce conduction EMI energy along the power supply lines and data cables. By reducing conduction of EMI energy they also reduce radiation energy.

Three-phase filters

- Three-phase compact filter
- Three-phase high power filter
- Two-stage three-phase filter
- Three-phase output filter

Applications: Motor drives, Three-phase inverters, Output filters.

Three-Phase filters reduce the conductive EMI energy along three-phase supply lines in motor drives.





Measuring systems for machine tools

Linear Encoders for length measurements:

Linear encoders measure the position of linear axes and are suitable for positioning accuracy on machines. The scales are protected against chip, dust and cooling water and are designed for use on various machine tools and installations such as: Lathes, Milling machines, Drilling and boring machines, machining centres, grinding machines, EDM machines, Bending presses, welding machines, other positioning devices. Iskra offers a wide range of linear encoders requiring different types of feedback signals for manufacturers and end-users of machine tools:

- **DRO Incremental glass linear encoders** types: TGM111, 113, 115, 130, 131, 170 (are used primarily on conventional metal

working machine tools): lengths 70mm to 3040mm

- **NC Incremental glass linear encoders** types TGM133, 173 (used for CNC machine tools), lengths from 120mm to 3040mm
- **Long lengths linear metal tape encoder** type TGM190; lengths from 3m to 30m
- **Absolute Linear encoders** types TCM133, 173 for CNC and semiconductor's equipment and robots

The rotary transform mechanical rotation into a series of electrical pulses. The operating principle is based on optoelectronic techniques. They are used in various industrial fields for accurate angle, position and rotation speed measurements.

- **Miniature** TGR22, 23, 24 (diameter

22mm) and standard TGR10, 11 12, (diameter 58mm) rotary encoders types: up to 5000 lin/rev, while the TGR30 is a hand-wheel for manual positioning.

- **Angular encoders** TGR61, 62 (diameter 90mm); TGRT71-72 (diameter 170mm) are primarily used for high precision angle measurement for rotary tables; 6000, 9000, 18.000 and 36.000 lines/7REV.

Family of 1, 2, 3 and 4 axis digital position readouts for applications on different kinds of machine tools (lathes, milling machines, drilling and boring machines, grinding machines, EDM machine etc.).

A digital position readout system consist of 1,2,3 or 4 linear or rotary encoders for position measuring and a digital position readout unit for showing position value.

NP family NP10, 20, 20Z, 21, 30, 31 offer a great advantage over conventional measuring systems, and provide considerable improvements to new and used machine tools, substantially increasing productivity as well as productivity.

- NP 10 (X) one axis DRO
- NP20 (X,Z) two axis DRO for lathes
- NP20Z (X,Z,Zo) three axis DRO for lathes
- NP21 (X,Y) two axis DRO for 2 coordinate machines
- NP30 (X,Y,Z) three axis DRO for milling machines
- NP31 (X,Y,Z) three axis DRO for EDM machines

Iskra offers a complete mechanical and electrical retrofitting of all kind of old and used machine tools including projecting and installation of GE FANUC CNC control systems as well as main spindle and servo drives.





Electro plating

- Bright nickel- and chrome-plating on hanging automatic lines.
- Bright nickel-plating of small objects in drums on automatic lines with the option of prior copper plating.
- Bright zinc plating on hanging automatic line. The plated objects are passivated blue or yellow and can additionally be protected against corrosion on request. This increases resistance to corrosion by a factor of four.
- Bright zinc-plating of small objects in drums on automatic lines.
- Silver-plating small metallic objects in drums or larger objects on hanging automatic lines.
- Copper-plating small objects in drums.
- Tin-plating small objects in drums with the options of prior copper plating.
- Gold-plating decorative objects.
- Manual and mechanical grinding of all types of metals to a high bright.
- Thermal processing.
- Nitriding.
- Eloxal processing and leaching of aluminum.
- Degreasing of aluminum.





Time relays

- **CRT relays** are miniature relays having a wide selection of time periods and functions.
- **CRT time relays** are available with plastic housing as well as with 8-pole and 11-pole connectors.
- **Characteristics of TRE time relays** are wide selection of time periods and 8 dual time functions, as well as universal supply voltage 24-240V ADC. TRE time relays are available with plastic housing; widths of 22,5 mm or 17,5 mm. Mounting is on DIN rail 35 mm or mounting panel.
- **TRD time relays** are used in narrow time periods. The setting of time with BCD connectors on the head boards of the time relays allows the setting of desired times without malfunctions. TRD time relays are available with plastic housing; with widths of 45 mm. Mounting is on DIN rail 35 mm or mounting panel.





Toroidal transformers and cores (Strip Wound Cores, Transformers)

Strip wound cores

Materials:

- Silicon alloy - oriented and non-oriented electrical steel
- Nickel alloy - high permeability and oriented electrical steel

Insulation of strip wound cores:

- Coated with epoxy resin
- Plastic caps
- Polyester film

Shapes:

- Strip wound toroidal cores
- Strip wound CM, CE, CU, C3U, CG
- Strip wound cut cores
- Custom design cores

Applications:

Mains transformers, Insulating transformers, Current transformers, Transducers, Inductors, Chokes, Current clamps, Converters

Toroidal cores are intended for different mains and insulation transformers up to 3 kVA. They are also intended for current transformers. Toroidal cut cores are intended for current transformers and current clamps and chokes.

C and other cores are intended for different mains and insulating transformers up to 13 kVA.

Rectangular cores and rectangular cut cores are intended for current transformers and current clamps.

Transformers

- Toroidal transformers;
- Custom-designed toroidal transformers;
- Current transformers;
- Transformers on C cores

Applications:

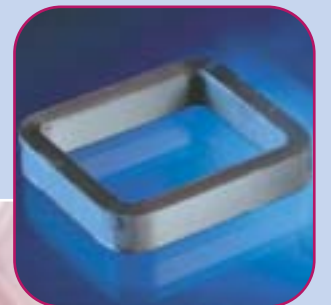
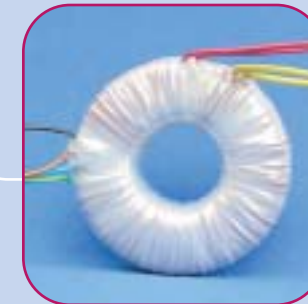
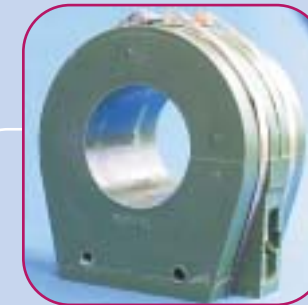
Mains transformers, Insulating transformers, Power supplies, Measurement equipment, Medical equipment, Industrial applications

Toroidal transformers are single-phase mains and insulation transformers for output power of 3 kVA. They can have different primary and secondary voltages.

Current transformers, current clamps are intended to measure load current and for current sensors.

Transformers on C cores are single-phase mains and insulation transformers for output power of 13 kVA. They can have different primary and secondary voltages.

Three-phase transformers are made on C3U cores.



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Antennas, batteries and industry electronics

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