

**UNIQUE TECHNOLOGICAL SOLUTIONS**

**A S I N G**

Automation

Mechanical Engineering

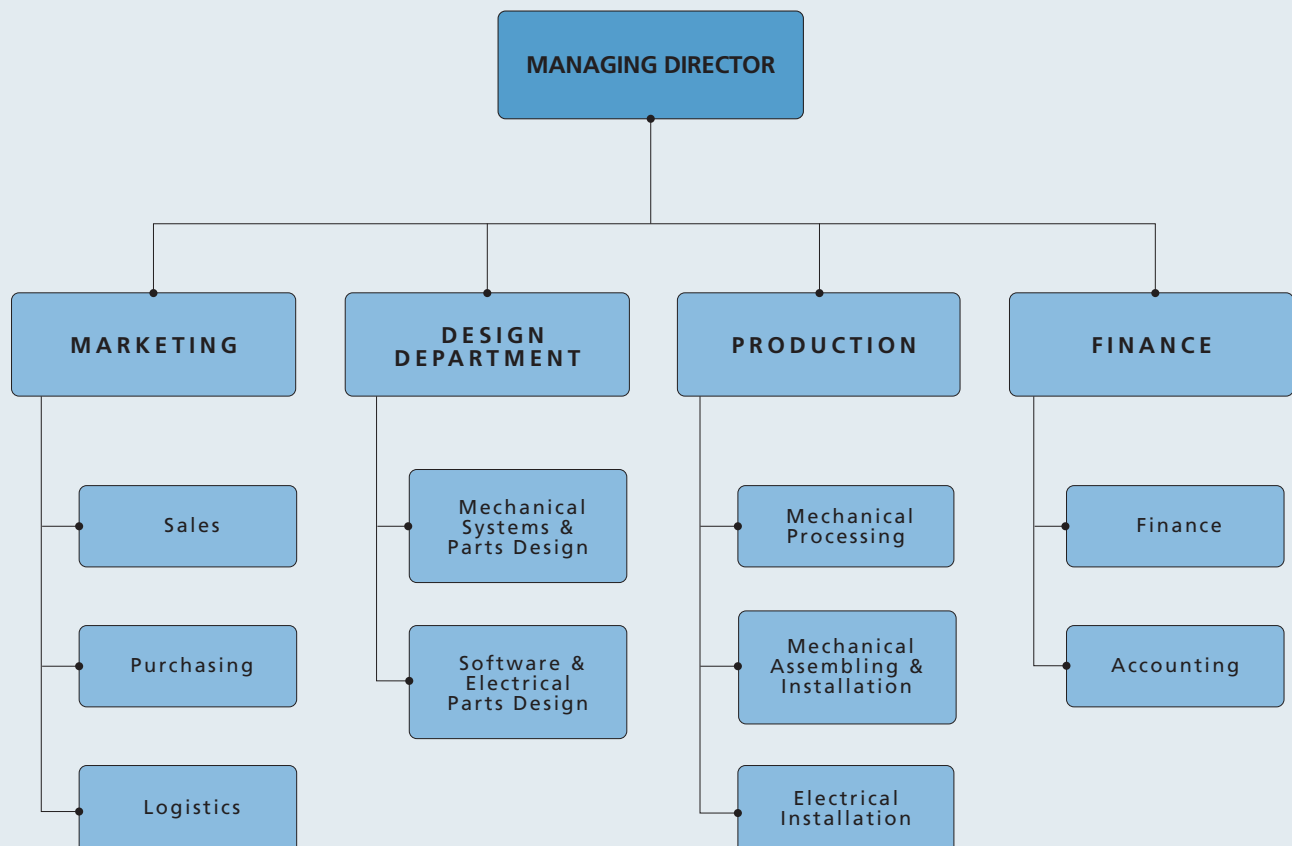
Engineering

 **Iskra**

## BRIEF COMPANY PROFILE

Company:	Iskra Avtoelektrika ASING, d.o.o.
Name used:	Iskra ASING, d.o.o.
Address:	Vrtojbenska cesta 62, SI-5290 Šempeter pri Gorici
Tax number:	47965657
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## ORGANIZATION CHART





## YEARS OF DEVELOPMENT AND GROWTH

Iskra Asing is a subsidiary company of Iskra Avtoelektrika, d. d., Šempeter pri Gorici. It was established in 1992. Our operations were started in the 1980s, when the first production facilities were set up in the parent company for their own needs.

After the economic and political changes in the 1990s, Iskra Avtoelektrika, d. d., became a completely foreign-market-oriented company; our unique projects won recognition there because they were designed in accordance with the requirements of our customers and implemented by applying our own know-how and solutions.

Although Iskra Asing was not able to provide numerous references, we did manage - thanks to our persistence, expertise and experience - not only to get over the critical initial years, but also to consolidate our reputation with the established customers and generate the interest of potential clients.

Today, our knowledge is being built into products for our customers, both from abroad and from Slovenia. For the latter, we also undertake projects which enable them to co-operate with highly demanding foreign business partners: this means, both recognition and reference for our company.

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## FLEXIBLE PRODUCT RANGE

**Iskra Asing provides their customers with designing, production and engineering services in the following technological and production areas:**

- machines for the production of rotors and stators of electrical rotation machines;
- assembly devices, lines and systems;
- test and measurement systems.

**According to the requirements of our business partners, we also develop and manufacture:**

- special purpose automated machines and devices for processing metal and nonmetal materials, for metal forming, as well as combined processing and assembly lines;
- automated manipulation and transport devices.

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## QUALITY IS BASED ON KNOW-HOW AND EXPERIENCE

Iskra Asing employees are distinguished by their high level of knowledge, experience gained over the development years, and above all by their ability to adapt to the requirements of our customers, and creativity in searching for new solutions. Modern hardware and software is of great help to us. During the project implementation we co-operate with our sub-contractors who are specialists in the production of certain machine parts and technological equipment.

By constantly perfecting our knowledge and by modernising hardware and software, we take care of our own progress and development; in addition, new findings enrich our approaches to solutions.



### CUSTOMER SATISFACTION IS THE BEST REFERENCE

We supply the customers in the car industry, electrical and metal-processing industry - but also in other areas - with machines, devices and equipment which are manufactured for both, production and laboratories. The needs, requirements and financial possibilities of our customers are taken into account from the first draft solutions to the conclusion of projects; we also keep up with development and technological trends in the world. Our success is acknowledged by our business partners who contact us again if they need a new solution for a production process or laboratory testing.

#### Our solutions enable the customers to manufacture quality components which are built into renowned trademark articles:

BMW, Opel, Citroën, Mercedes-Benz, Renault, Peugeot, Bosch, etc.

### OUR CUSTOMERS ARE OUR PARTNERS

In the past twenty years we have manufactured hundreds of devices, machines and pieces of technological equipment for the parent company Iskra Avtoelektrika. We are still their preferred supplier and we supply them with products from our entire product range.

Our major Slovenian business partners are: Cimos, Revoz, TPV, Saturnus, Gorenje, KIG, Niko, Vibronova, Rotomatika, LIV Kolesa, TCG Unitech Lth-ol, Danfoss, Trata.

We have delivered machines and technological equipment to the following foreign partners: AVTO VAZ, Togliatti, and Tarasov Works Inc (Russia), IskRa, o.o.o., Grodno (Belarus), and Electroprecizia, Brasov (Romania), IAI Iran.

### QUALITY AND BUSINESS EXCELLENCE

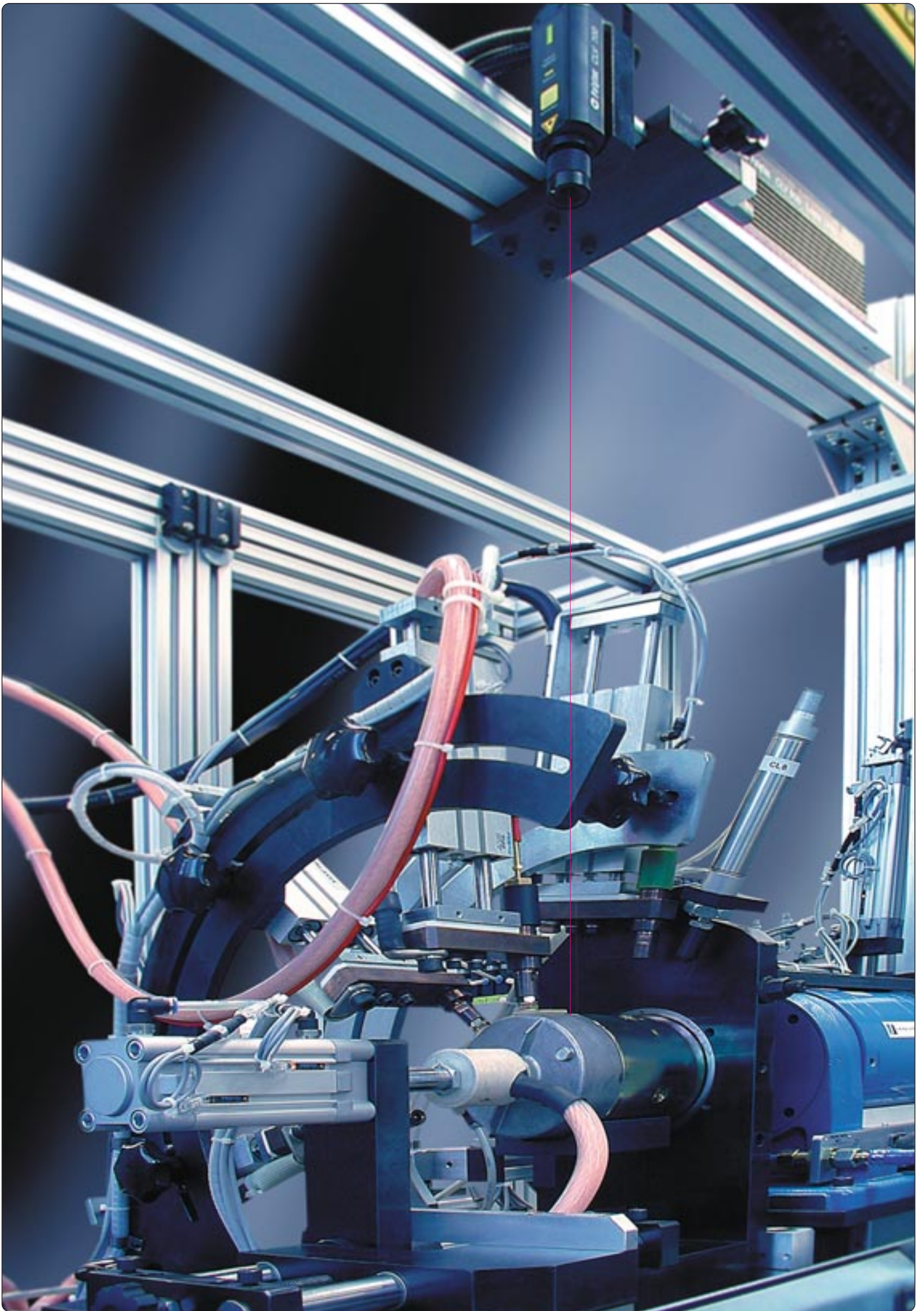
The ISO 9001 certificate which was obtained in 2000, and the ISO 14001 obtained in 2002, show how highly quality is rated in our company.

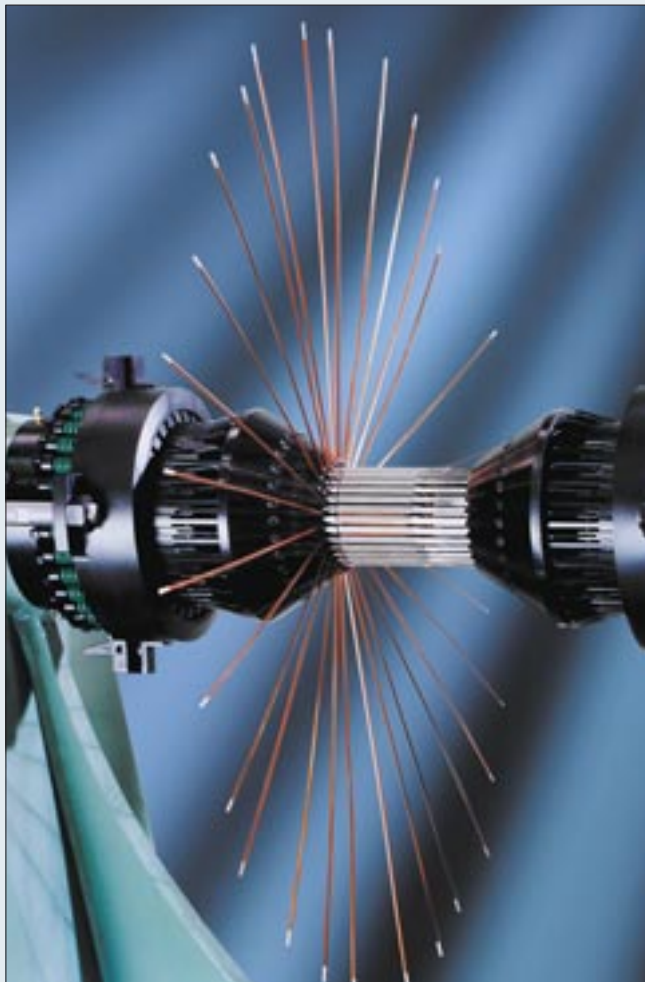
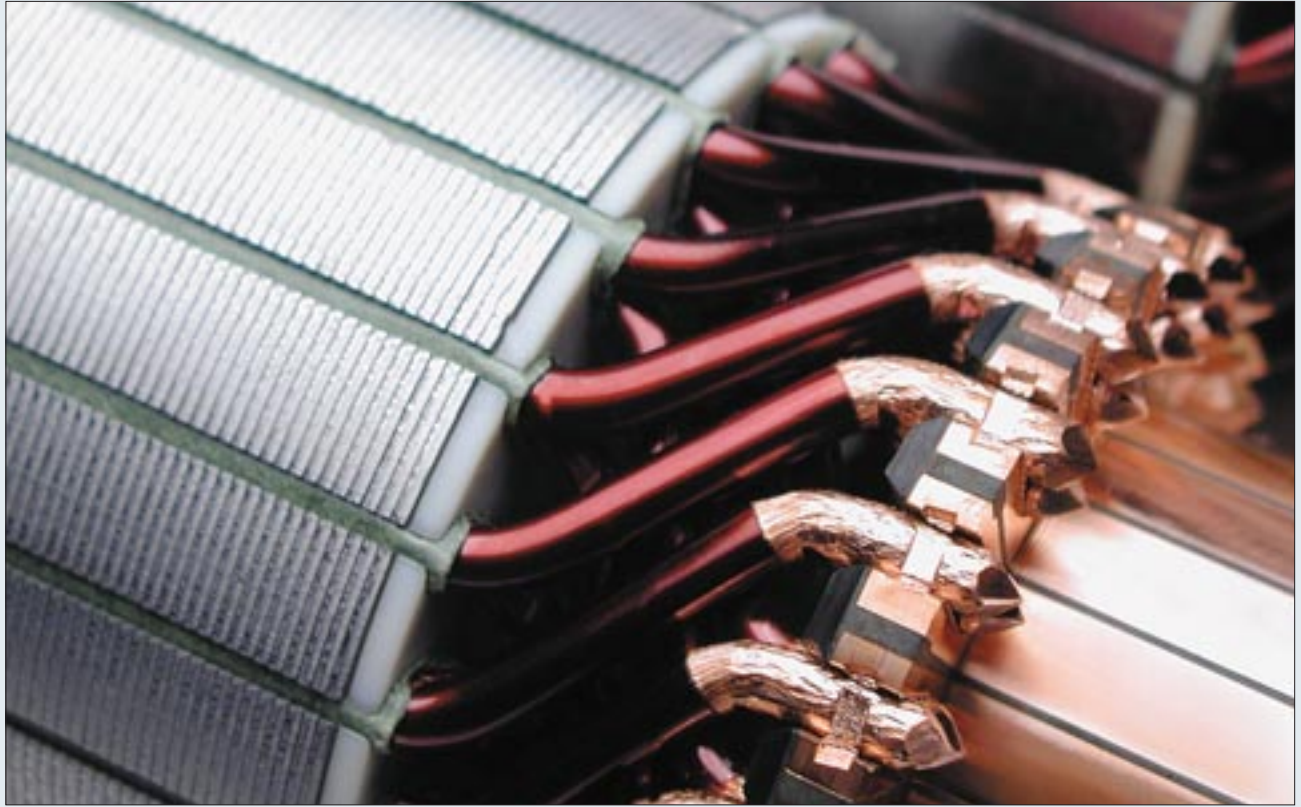
We are committed to taking constant care of the control and implementation of our own quality standards, which also include co-operation with suppliers and at the same time define relations with our customers; their satisfaction is regularly assessed.

#### The business reputation of our suppliers is another quality warranty. They are:

Festo, SMC, Siemens, Indramat, Mannesmann Rexroth, Bosch, Römheld, Suhner, Advantech, Baltec, SKF, Moeler, Miyachi.







### MISSION

Iskra Asing, d. o. o., is an independent company within the group Iskra Avtoelektrika, which develops and manufactures unique machinery and technological equipment, according to the requirements of customers.

Our features include substantial support to our customers regarding development and technology, great adaptability, and responsiveness. We wish to be a preferred supplier, whose remarkable features are business excellence, as well as meeting and exceeding the expectations of our customers.

### VALUES

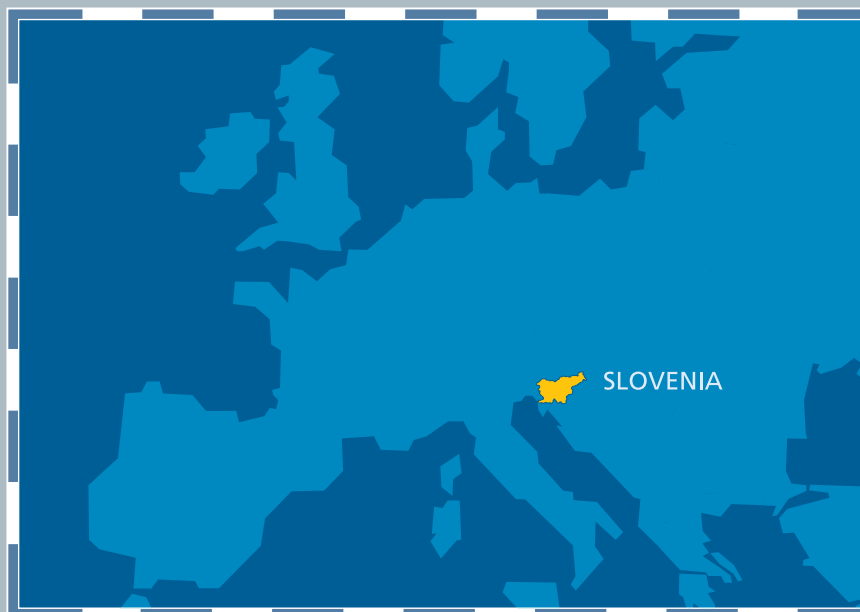
Our highly specialised staff cope with various events and changes; they distinguish themselves by creative co-operation, entrepreneurial spirit, and high quality awareness. Standards are changed by integrating common values: customers' satisfaction, respect for each individual, team work, enthusiasm, and innovation activity.

### VISION

Iskra Asing, d. o. o. pursues the vision of becoming an acknowledged manufacturer of machines and equipment for special technologies.

By offering original and quality products, our comparative advantages will be constantly increased, which will result in long-term company growth, profit generation, and increased return on capital.

Our vision will be accomplished if our activities are customer-oriented, if there is creative co-operation, if partnerships are established, if the staff is trained and included in achieving the common goals; other important elements are the support of our owners and development of the Total Quality Management System and Business Excellence.



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Laser unit

Measuring equipment

Contact unit





This is a universal test and measurement system designed for checking electrical characteristics and vibrations on **DC MOTORS** or similar **EQUIPMENT**, with the following features:

• Voltage	up to 48 V
• Power	up to 4 KW
• Stator diameters	from 106 to 125 mm
• Speed	from 300 to 8500 rpm
• Torque	up to 12 Nm

### TECHNICAL DESCRIPTION

The test and measurement system is completely computer-controlled. The measurement and testing process is done automatically; the only manual process is loading and unloading of the equipment tested. The test and measurement system consists of:

#### 1. CENTRAL ELECTRICAL CHARACTERISTICS MEASUREMENT UNIT:

- 1.1 control box with monitor No 1, UPS, and:
  - digital measuring equipment Hewlett Packard HP34401A
  - controls of Magtrol - Vibrometer dynamometer
  - controls of Indramat servo-unit
  - industrial PC and Siemens control periphery.
- 1.2 frame with clamp unit, contact unit, marking unit, and:
  - computer-controlled brake Magtrol - Vibrometer of the type Eddy Current Dynamometer 2WB65, water-cooled
  - linear servo-unit for connecting the equipment tested with the brake
- 1.3 computer-controlled PowerSupply Regatron TC.P.32.50.400.5
- 1.4 independent water-cooling system of the type Rittal SK3334.500
- 1.5 additional box containing Iskra Instrumenti shunts and Albright DC contactors
- 1.6 safety fence with Leuze light curtain

The test and measurement unit measures whether current, voltage, torque, and rotational speed are appropriate. The measurements are taken at three points of each motor tested, in the torque loop or speed loop for CW or CCW direction of rotation; the monitor No 1 displays the values measured in a table or a graph, as well as the status GOOD or BAD, which is obtained from the system for contactless measurement of vibrations through network connection.

#### 2. MEASUREMENT SYSTEM FOR CONTACTLESS MEASUREMENT OF VIBRATIONS:

- 2.1 antivibrational frame with laser probe clamp
- 2.2 laser-vibrometer Polytec equipment, including the CLV - 800 - V25 laser unit with a variable focus
- 2.3 box with integrated laser equipment and industrial PC for analysis and calculation of the values measured, including the monitor No 2

The system provides precise measurement of "the sources of structure-borne noise" (vibrations caused by bearings, brushes, commutator, rotor imbalance, and assembly errors) from a distance, as well as during the measurement cycle. It has to be "trained" according to the test batches, measurement analysis, and criteria definition for the significant parameters selected.

#### Other important features of the test and measurement system are:

- The entire measurement cycle lasts 15 seconds.
- Each motor checked and found to be GOOD is automatically marked; however, a signal for the elimination of the equipment tested is given for each BAD motor. The data on the inappropriate characteristic and on the type of the failure found are also given.
- The system makes it possible to record and store the values measured, and to display error statistics for the assembly batch selected; the data can also be forwarded through the internal or external computer network.

