presentation
2023

WELCOME TO MOTOR JIKOV

MOTOR JIKOV GROUP is a group of four companies focused on engineering and foundry industries

MOTOR JIKOV Slévárna
MOTOR JIKOV Strojírenská
MOTOR JIKOV Fostron
MOTOR JIKOV GREEN

COMPANY PROFILE

- The tradition of MOTOR JIKOV Group goes back to 1899
- Genuinely Czech company associates four stock companies with one czech owner
- Focused on the engineering and foundry industries
- The main line of business: the foundry industry, machining, assemblies and special processes
- Focused especially on the automotive and consumer industries

The mutual link of the production programmes enables the implementation of synergies and achieving competitive production effectiveness.

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HISTORICAL MILESTONES

We are Czech company with the tradition of metallurgical and engineering production since 1899.

1899 JULIUS ŠKRLANDT and co.
The foundations of engineering and foundry production established.

1911 UNION, the engineering factory and foundry in České Budějovice
Production of water turbines, assemblies and repairs of engines.

1948 MOTOR UNION, national company
Production of components for automotive industry.
Production of two-stroke and four-stroke engines.

1954 MOTOR, national company. Production focused on automotive industry under the “JIKOV” trade mark – fuel and air-pressure systems.

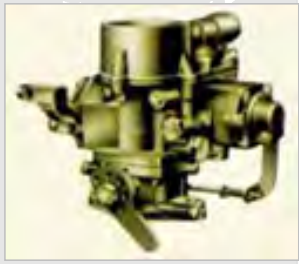
1980 Start of production of fuel system components and carburettors for Škoda 105, Škoda 120 and consequently for Škoda Favorit. Start of production of high-pressure compressors.

1991 MOTOR JIKOV, stock company

1992 Joint venture with Robert Bosch.

1995 Incorporation of MOTOR JIKOV to M.I.C.B., the engineering group. Production of MOTOR JIKOV brand obtains international certification. Start of production of airbag components for TRW Aschau. Acquisition of Lada Soběslav.

1996 Start of licence production of four-stroke engines Fichtel & Sachs.



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HISTORICAL MILESTONES

We are Czech company with the tradition of metallurgical and engineering production since 1899.

2000 Joint venture with Tecumseh Products Company.

2001 Start of production of riveting tools for Textron Fastening Systems (Infastech).

2004 Production extension of parts and other components for main customers – TELEFLEX, AUTOMOTIVE, TEXTRON E-Z-GO and ELECTROLUX.

2006 Start of production and machining of aluminium alloy castings for Briggs & Stratton.

2008 Start of production for SCANIA AB.

2009 Production of the first domestic CNG vehicle refuelling appliance in the Czech Republic and introduction to market.

2013 Launch of construction of public CNG (compressed natural gas) filling stations

2017 Industry 4.0: Castings inserted into machining centers by robots - machining, deburring and assembly Valve Housing and Retarder Housing parts for Scania.

2019 Industry 4.0: Automatic line consisting of a five-axis machining center, measuring machine, washer and EDM.

2022 Industry 4.0: Research and experimental development in the field of 3D printing of tool steels in collaboration with VŠTE.

2023 Clean energy investments (solar), energy saving measures

PRODUCTION AND BUSINESS STRATEGIES

MOTOR JIKOV GROUP

Everything under one roof

FOUNDRY

- Pressure castings from Al and Zn
- Low pressure castings from Al
- Castings from grey cast iron
- Castings from ductile iron

MACHINING

- CNC NC turning, milling, grinding, honing
- Materials: steel material, aluminium, conventional and stainless steel, carbon steel, alloy Cu Al, cast iron, plastics, castings, forging

ASSEMBLY

- Subassemblies and assemblies, including inspection and testing
- Installation of rivet guns, pedal systems, CNG filling stations, pressure regulators

DEVELOPMENT AND SPECIAL PROCESSES

- Casting development, creating 3D models, simulating performance
- Developing and producing pattern equipment
- Developing and producing moulds and trimming tools
- Clamping preparations, machining single purpose machines
- Surface finishing and heat treatment
- Assembling single purpose machines, templates and lines
- Testing and measuring equipment and products

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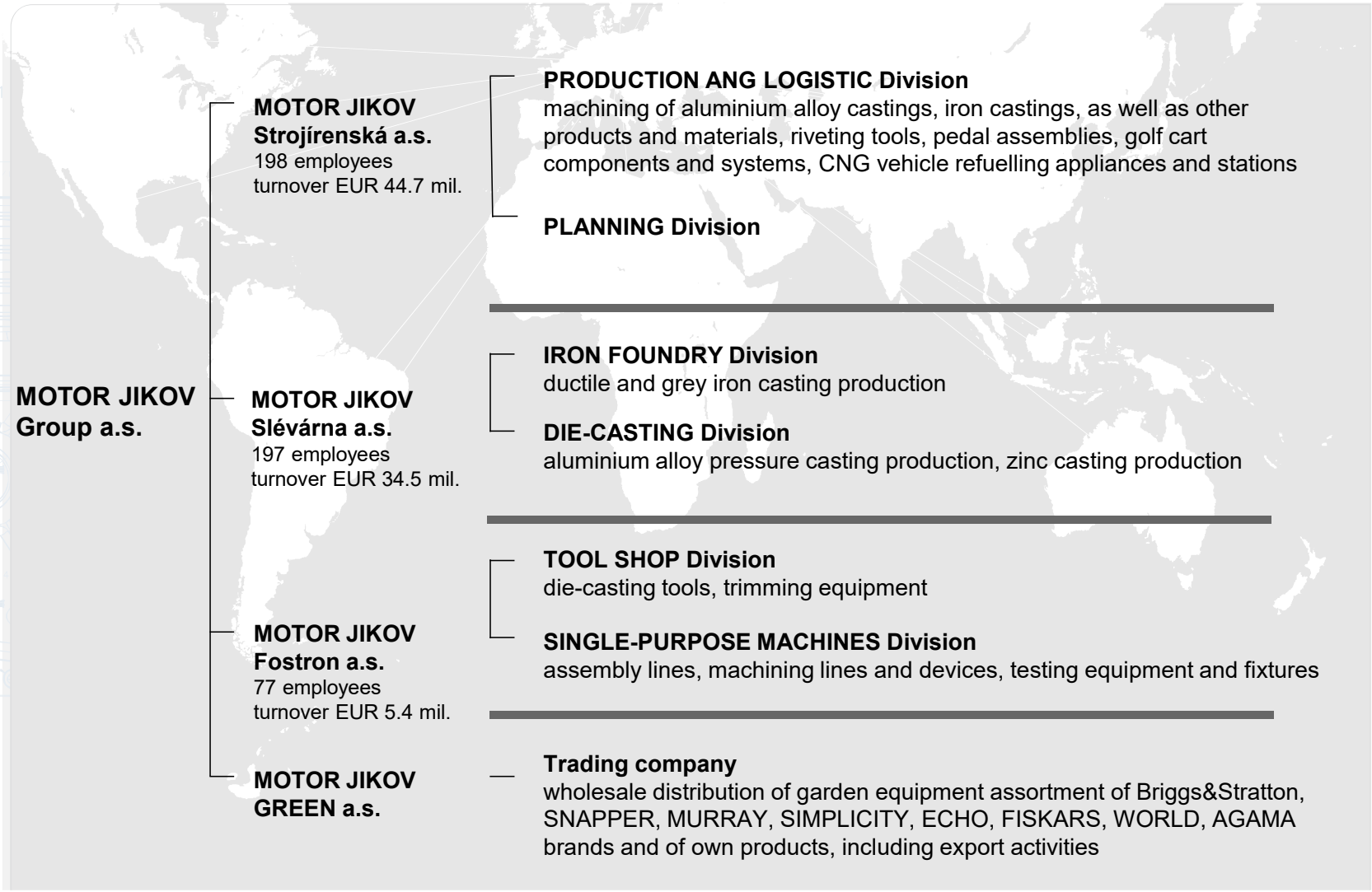
ORGANISATIONAL STRUCTURE

MOTOR JIKOV GROUP
Has a strong potential for innovation and a wide scope of production and services.

It employs almost 800 employees and in year 2022 it achieved sales in the amount of EUR 93.1 mil.



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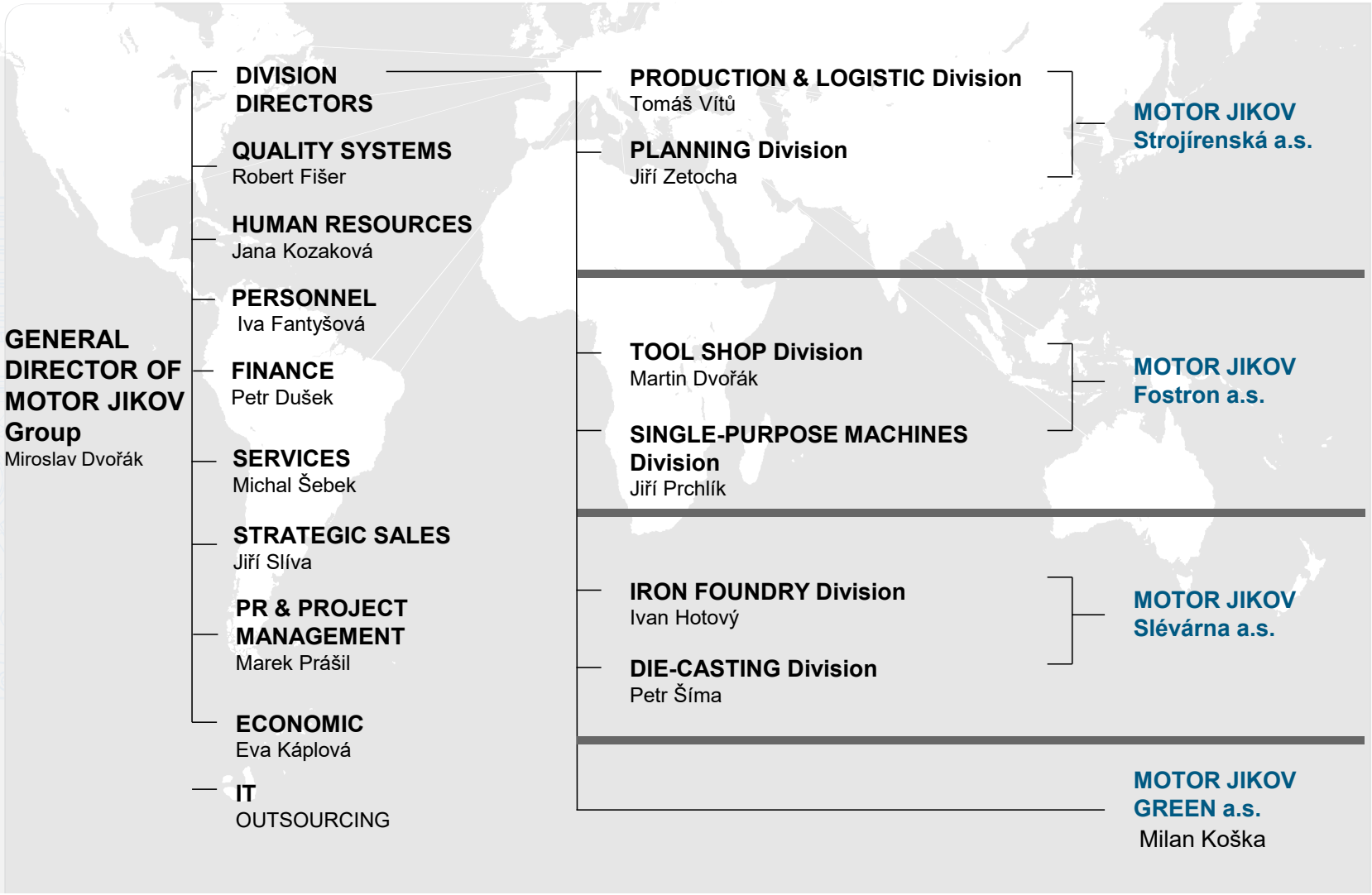
Management organisation of MOTOR JIKOV GROUP

The top management of the company defines their internal values and principles, promotes their management procedures, professional behaviour standards and responsible behaviour philosophy.



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Czech Republic

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CUSTOMERS WORLDWIDE

Two thirds of production are exported.

Main customers are global and multinational automotive and consumer corporations on five continents.

America

Brazil
Canada
Mexico
United States

Europe

Czech Republic
Denmark
Estonia
France
Ireland
Italy
Cyprus
Germany
Netherlands
Poland
Portugal
Rumania
Slovak Republic
Spain
Sweden
Great Britain

Asia, Oceania

Australia
China
India
Japan
Korea
Malaysia

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OUR PARTNERS

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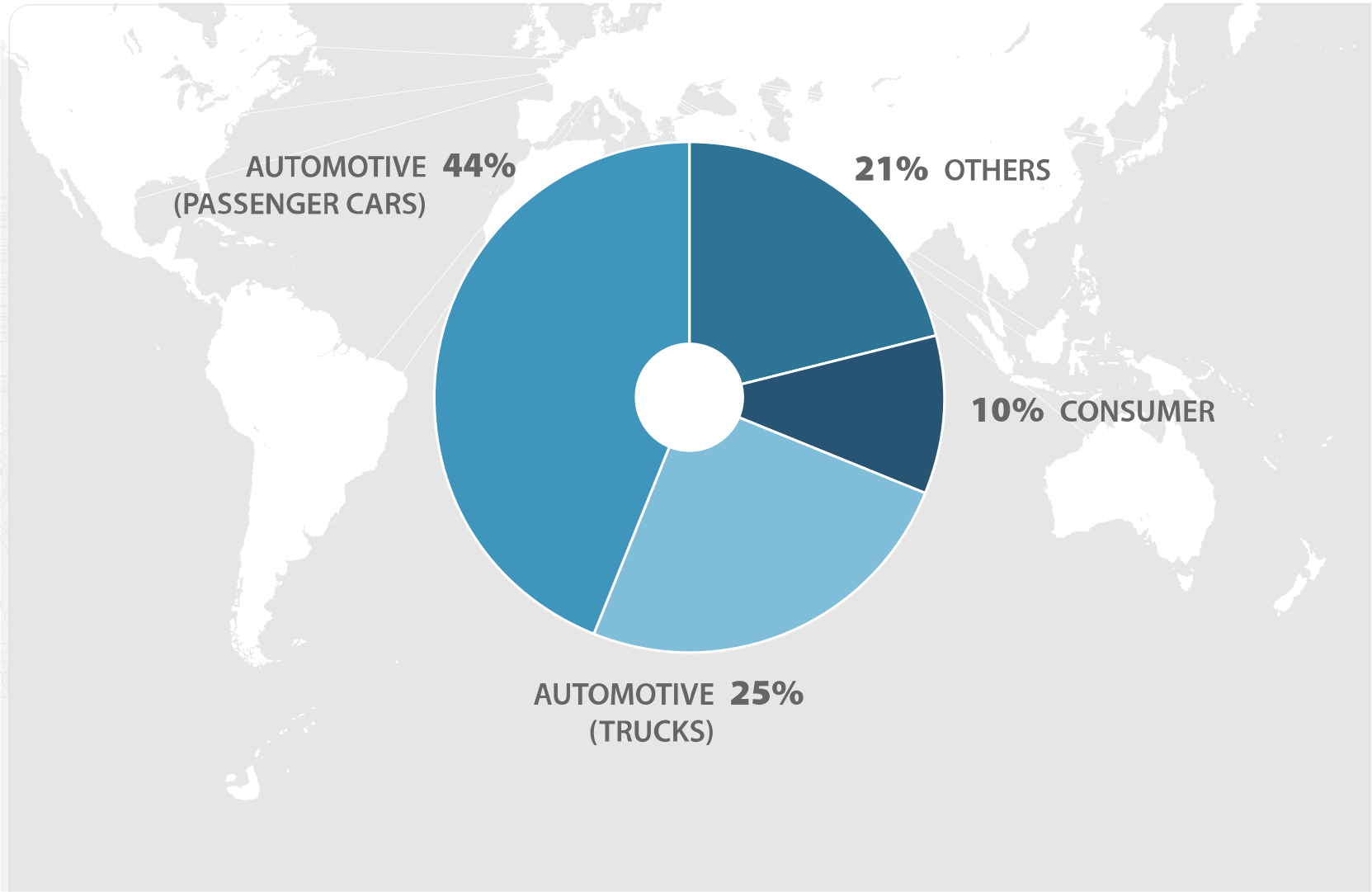
MAIN ECONOMIC INDICATORS

We lay focuses on customer satisfaction, quality, development of new products and education of employees.

Annually we invest significant figures in development.

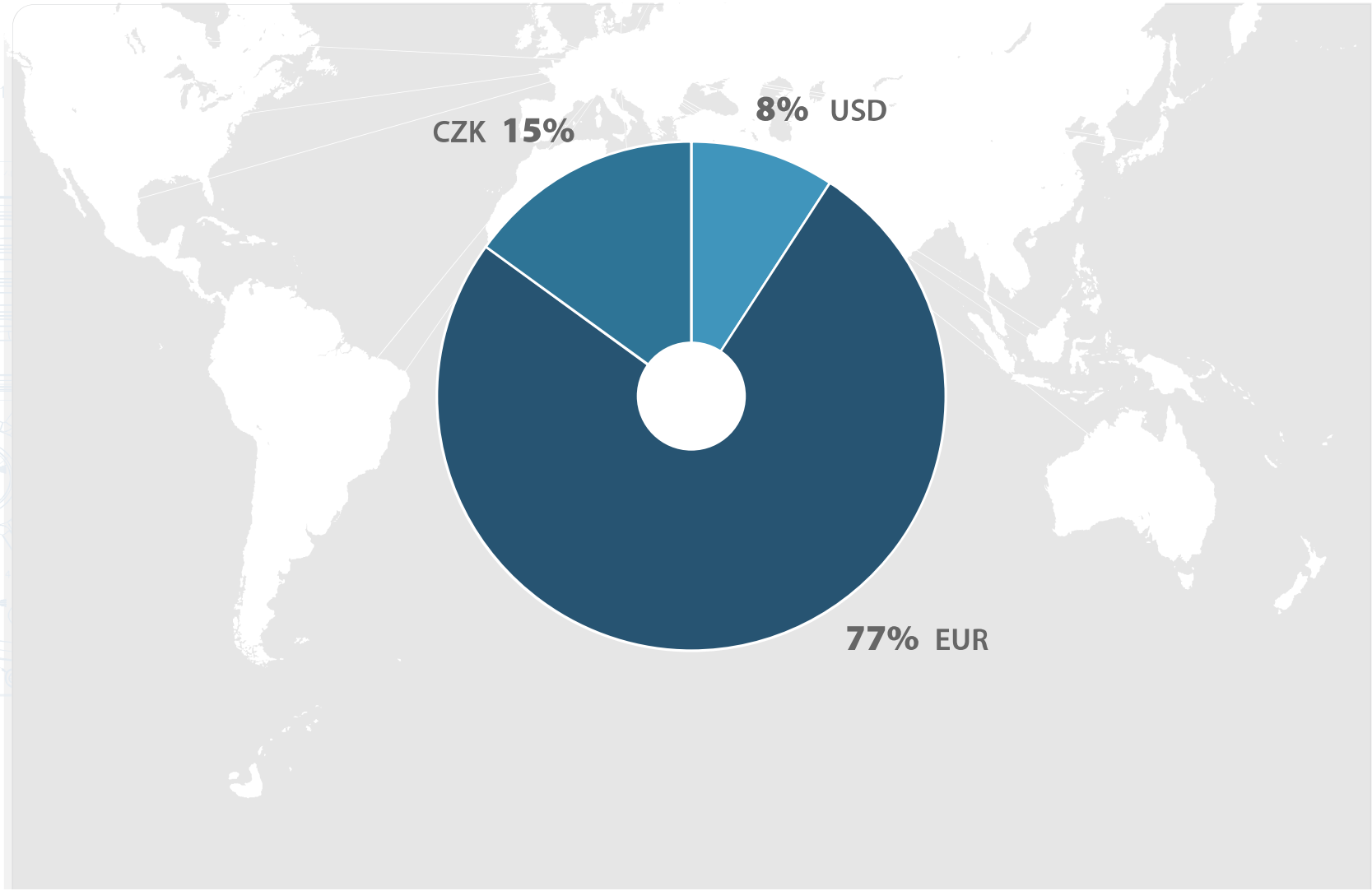
SALES BY INDUSTRY

Sales in 2022
– EUR 93.1 mil.



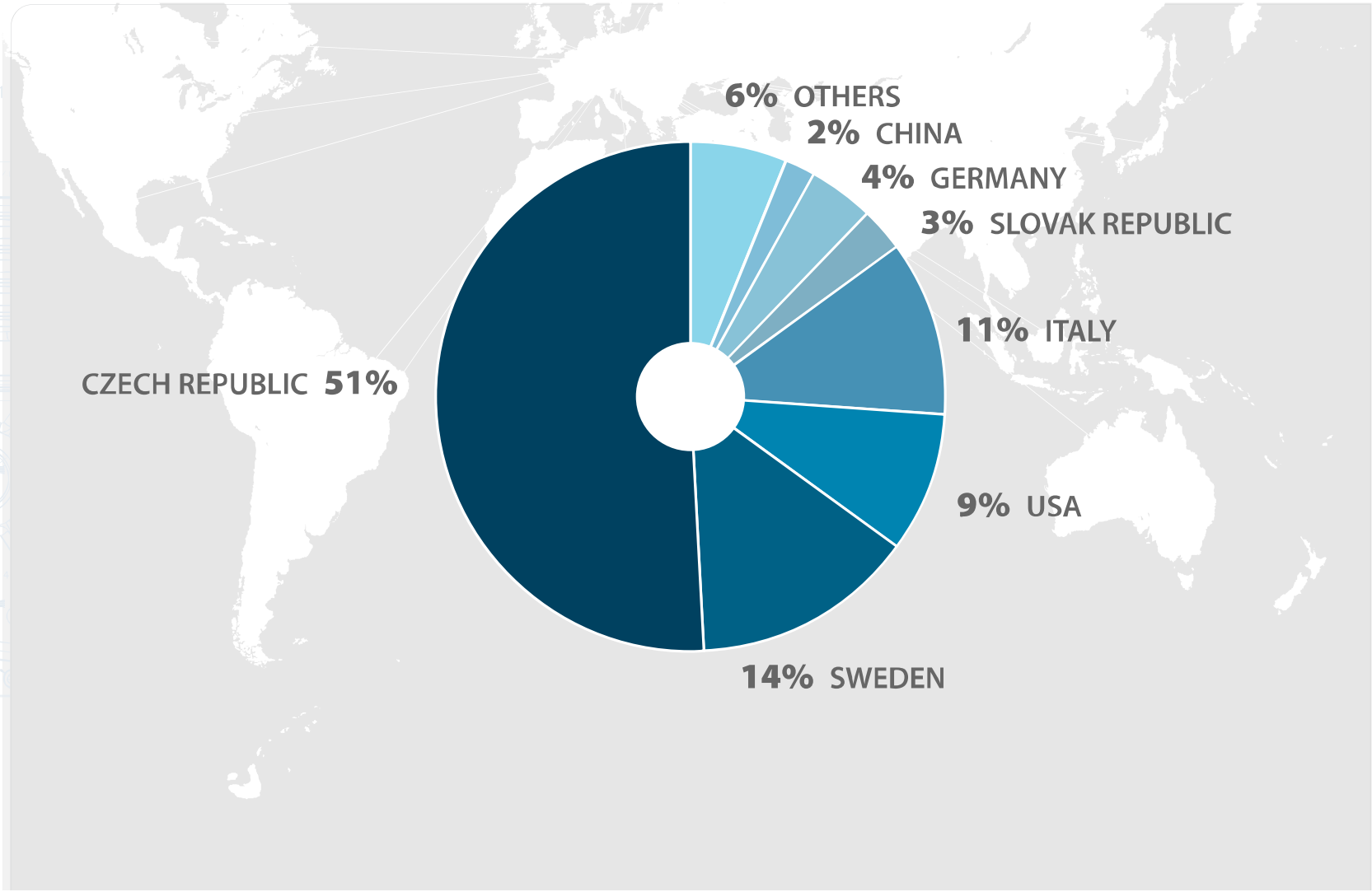
SALES BY CURRENCY

Sales in 2022
– EUR 93.1 mil.



SALES BY TERRITORIES

Sales in 2022
– EUR 93.1 mil.



CERTIFICATION

The companies are certified according to internationally accepted standards by **TÜV NORD CERT GmbH**

MOTOR JIKOV Strojírenská a.s.	**IATF 16949 : 2016**	**EN ISO 9001 : 2015**	**EN ISO 14001 : 2015**
MOTOR JIKOV Slévárna a.s.	**EN ISO 9001 : 2015**	**IATF 16949 : 2016**	**EN ISO 14001 : 2015**
	IATF 16949 : 2016	**EN ISO 9001 : 2015**	
MOTOR JIKOV Fostron a.s.	**EN ISO 9001 : 2015**		

MEMBERSHIP IN ORGANISATIONS

Členství:

Automobile Industry Association

South-Bohemian Chamber of Commerce

Confederation of Industry of the Czech Republic

NGV Europe Association

Czech Biogas Association

Chamber of Commerce of the Czech Republic

Czech society for quality

NGV Association

Foundry Association of the Czech Republic

Association of Engineering Technology

Czech Mechanical Engineering Society

MOTOR JIKOV Slévárna a.s.

MOTOR JIKOV Slévárna is focused both on serial production of grey and ductile iron castings for important industrial companies all over the world and on high-pressure and low-pressure die-casting of top quality and technologically demanding Al and Zn castings for automotive, textile and consumer industry. Products are delivered in any stage of treatment according to customer requirements.

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IRON FOUNDRY DIVISION

IRON FOUNDRY DIVISION

Production possibilities

Grey and ductile iron castings
Weight from 0.5 to 20 kg
Optimal series from 1,000 to 500,000 Pcs
Annual technical capacity max. 10,000 t

Material
EN GJL 150, 200, 250, 300
EN GJS 400 – 12, 500 – 7, 600 – 3, 700 – 2

Melting
Two EGES 3 MW medium frequency induction MELT & HOLD melting furnaces of the volume 2 x 4 t and melting output 6.1 t/hour

Moulding
Frameless moulding line DISAMATIC 2013 LP/PLC-B, vertical dividing plane, size of sand moulds 535 x 650 x 120–360 mm

Production of cores
4 “Schalco“ (hot box) machines, we purchase the core mixture

IRON FOUNDRY DIVISION

The Iron Foundry is equipped to produce castings of the weight from 0.5 to 20 kg

Portfolio of castings

Portfolio of castings

Fender holders

Gearbox hubs

Golf cart axle elements

Axle components

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DIE-CASTING DIVISION

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DIE-CASTING DIVISION

High-pressure die-casting

TVC – Technological Development Centre

Development of technological procedures and automated workplace concepts for the production of high-pressure aluminium castings with automatic operation and minimum production times.

Al and Zn high-pressure die-casting

Al castings up to the weight of 7 kg and Zn castings up to the weight of 3.5 kg, max. tooling dimensions 1600x1200x1000 mm

Machined materials
Aluminium alloys
Al 226 (EN 1706 EN AC-46000, DIN 1725-226 AlSi9Cu3, AA A380.0, JIS H 5302 ADC12)
Al 231 (EN 1706 AC-47100, DIN 1725-231 AlSi12Cu1, JIS H 5302 ADC1C)
Al 239D (EN 1706 EN AC – 43400 AlSi10Mg (Fe))

Zinc alloys
Z410 (EN 12844 ZPO410, DIN 1743-2 Z410 (ZnAl4Cu1)),
Z430 (EN 12844 ZPO430, DIN 1743-2 Z430 (ZnAl4Cu3))

Aluminium high-pressure die-casting machinery
3x COLOSIO PFO 560
2x Bühler SC 66
4x COLOSIO PFO 1000

Zinc high-pressure die-casting machinery
Frech DAW 20t to 315t

DIE-CASTING DIVISION

The essential part of production is intended for the international automotive and consumer industries.

Rocker cover

Thermostat housing

Flange adapter

Gearbox cover

Crankshaft holder

Bracket alternator

DIE-CASTING DIVISION

Low-pressure die-casting

Production possibilities

Al low-pressure die-casting

Castings from 0.1 to 20 kg, max. dimension of ingot moulds 1600x1200x1000 mm
Furnace volume max. 800 kg
Average time of casting cycle 4-6 minutes

Material
Aluminium
Currently used:
EN AB 42100 - AlSi7Mg0.3

For new projects we can process:
Silumin – aluminium and silicon alloys (AlSi, AlSi7Mg, AlSi10Mg)
Aluminium and copper alloys (AlSi9Cu)

Low-pressure die-casting machine
KURTZ AL16-12SR
2x LPM BPS800-SX

Heat treatment
The Realistic continuous hardening and tempering line for T4-T6 heat treatment.

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DIE-CASTING DIVISION

Low-pressure die-casting

Production is intended for international automotive industry.

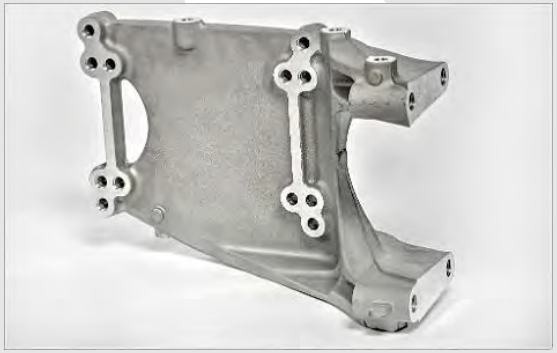
Gearbox beam

Spacer for truck tanks

High-pressure compressor housing

Stroke cylinder

Support arm



Carrier

MOTOR JIKOV Strojírenská a.s.

The company focuses on the production of components for golf carts and trucks, handling technology, consumer technology, printing and textile industry, woodworking machines and machining tools, hydraulic systems and filtration systems and newly compressed natural gas vehicle refuelling appliances. MOTOR JIKOV Strojírenská continues in the 80-year tradition of Soběslav engineering production and it was established by the merger of UNI CZ and ADACO Jindřichův Hradec.

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PRODUCTION DIVISION

PRODUCTION DIVISION

. Main activity is machining of castings for global markets.

Compressors, spring brake cylinders, air-pressure regulators complete the product portfolio.

High-pressure hydraulic filter head

Tow ball

Bearing Flange

Fender holder

Arm control

Bearing housing

PRODUCTION DIVISION

We produce professional riveting tools, which are used in the electrotechnical, automotive, aviation and shipping industries.

Production of filtration and hydraulic systems and components for manufacturers of trucks and handling technology.

Golf cart brake and accelerator pedal Electric

Golf cart spindle assembly

Golf cart brake drum

Thermostat housing

XT generation tool for nutserts

Flange assembly

PRODUCTION DIVISION

We produce professional riveting tools, which are used in the electrotechnical, automotive, aviation and shipping industries.

Production of filtration and hydraulic systems and components for manufacturers of trucks and handling technology.

Rocker cover low and up

Oil pan cover

Thermostat housing

Side cover

Flange assembly

Outlet pipe

PRODUCTION DIVISION

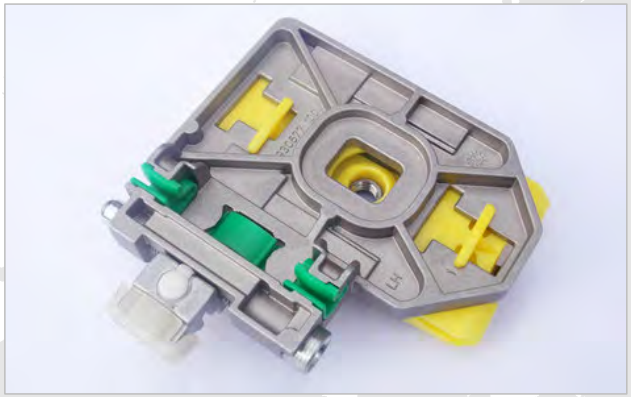
Assembly shop in Nové Hrady

The company extended its production capacities by passenger car window control assemblies for foreign customers.

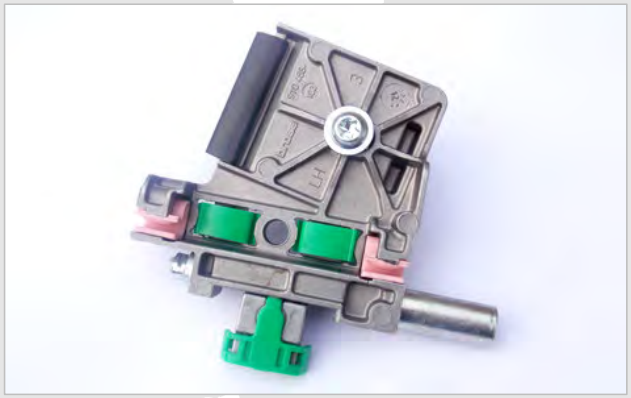
PRODUCTION DIVISION

We specialize in production of very demanding castings – assemblies for automotive industry.

Daimler



Lamborghini



VW

Audi

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CNG DIVISION

CNG vehicle refuelling appliance and filling stations

Development and production of compressed natural gas (CNG) vehicle refuelling appliances and filling stations intended both for individuals and companies.

CNG is ecological alternative fuel for motor vehicles.

The project brings significant fuel cost savings and contributes to environmental protection.

1st prize - E.ON ENERGY GLOBE AWARD 2011, category AIR

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CNG DIVISION

Activities in the field of CNG:

Production of CNG vehicle refuelling appliances of the JIKOV trademark

Installation of domestic CNG vehicle refuelling appliances

Construction and installation of company internal filling stations as well as public filling stations

Complex service assurance

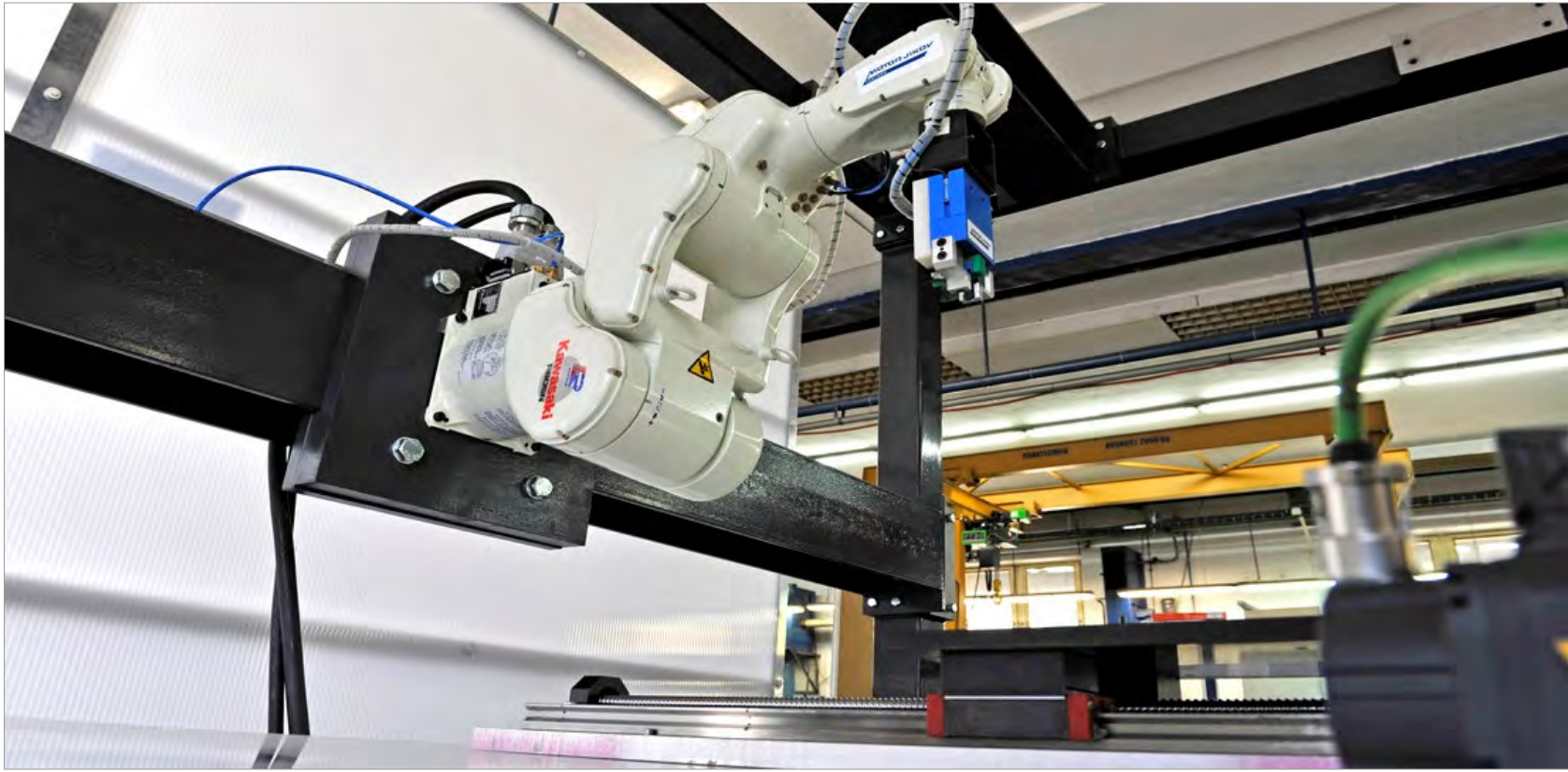
Design and engineering service

Calculation of savings, consulting

MOTOR JIKOV
Fostron a.s.

The company is a partner dealing with the complex specific requirements of customers from automotive and other industrial sectors.

It focuses on development, design and production of moulds, tools, devices, single-purpose machines and automated production lines.



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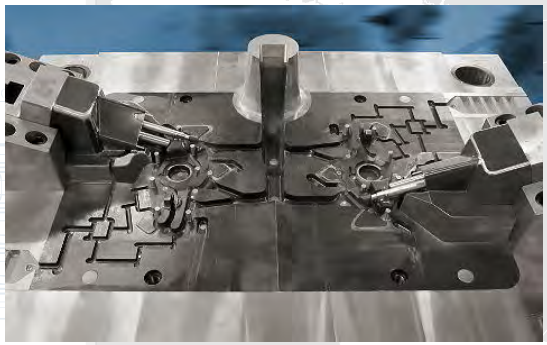
TOOL SHOP DIVISION

TOOL SHOP DIVISION

The production program is focused on single- and multi-cavity pressure tools for production of aluminium or zinc alloy castings, and trimming tools.

For the development and production of die-casting tools we process own 3D technical documentation, including simulation of the filling process.

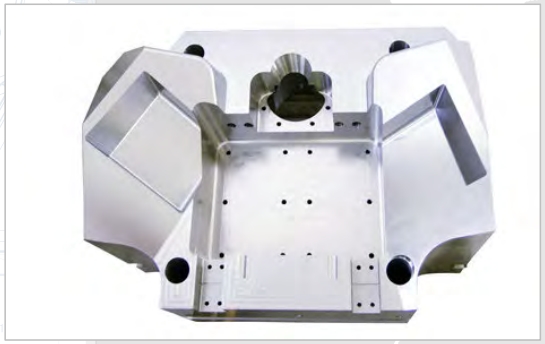
We also offer production according to customer documentation.



Die manufacturing and completing

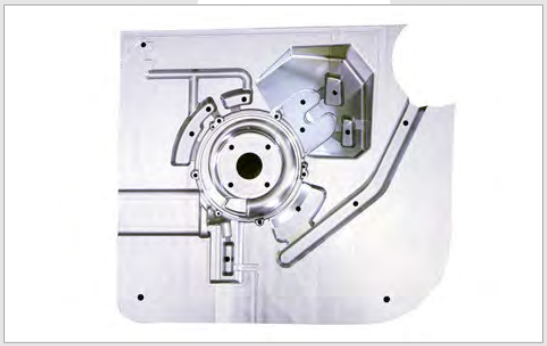
Die-casting tool with 4 sliders

Tooling frame



Tooling frame

3D check



Insert

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SINGLE-PURPOSE MACHINES DIVISION

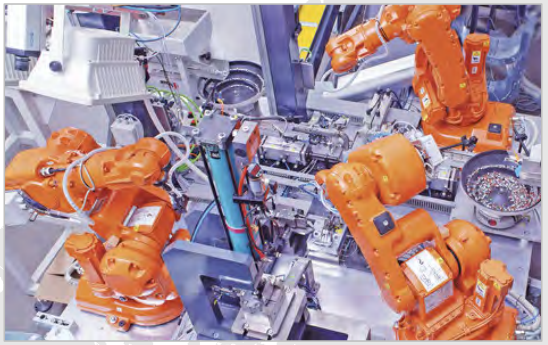
We specialise in development, design and production of single-purpose machines and automated production lines.

SINGLE-PURPOSE MACHINES DIVISION

Every machine is uniquely produced according to customer using the latest technologies and considering effectiveness and productivity.

Construction of single-purpose machine

Robot applying sealing to cover



Automated single-purpose machine – robotic line

Assembly single-purpose machine with rotating table

Assembly line

Fixture

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PASSENGER CAR

We produce a wide range of components for passenger cars of leading global brands.

Belt idler pulleys

Mirror holders

Tow ball

Gearbox body for wipers

Oil pump cover

Window control assembly

Bracket of LED headlight

Car boot lock

MOTOR JIKOV

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TRUCK

Rocker cover up assembly

Cooling system pipe

Gear box component

Gear box beam

Side cover assembly

We produce a wide range of components for trucks and commercial vehicles of global brands.

Tank holder

Oil pan cover

Flange pipe assembly

Cooling systém pipe

MOTOR JIKOV GREEN a.s.

MOTOR JIKOV GREEN is the exclusive distributor of Briggs & Stratton products - SNAPPER, MURRAY and SIMPLICITY, further of products under the Japanese trademarks ECHO, FISKARS and other private trademarks offering the WORLD and AGAMA garden equipment assortment.

Distribution of own products of the Mechanisation Division on domestic and foreign markets is a matter of fact.

www.MJGREEN.cz
www.ECHOJAPAN.cz
www.sekackyWORLD.cz
www.strojeAGAMA.cz

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GARDEN EQUIPMENT

We dispose of wide distributor network with service background.

Key partners are domestic as well as foreign companies.

STELLA SLEV

MM691150

ELT2440RD

CS-310S

THANK YOU FOR ATTENTION

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