Corporate presentation of

Metallwarenfabrik Gemmingen GmbH. & Fém-Művek Kisbér Kft.

01 Basic information

02 Product overview

03 Production depth

04 Mission & Vision

Company history

1961

Foundation of the Metallwarenfabrik Gemmingen GmbH. in Germany

1982

Establishment of a new production branch GEKO power generators in Gemmingen

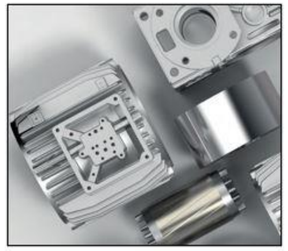
1991

Establishment of the subsidiary Fém-Művek Kisbér Kft. in Hungary

1998

Takeover of the power generation division of the EISEMANN brand in Gemmingen

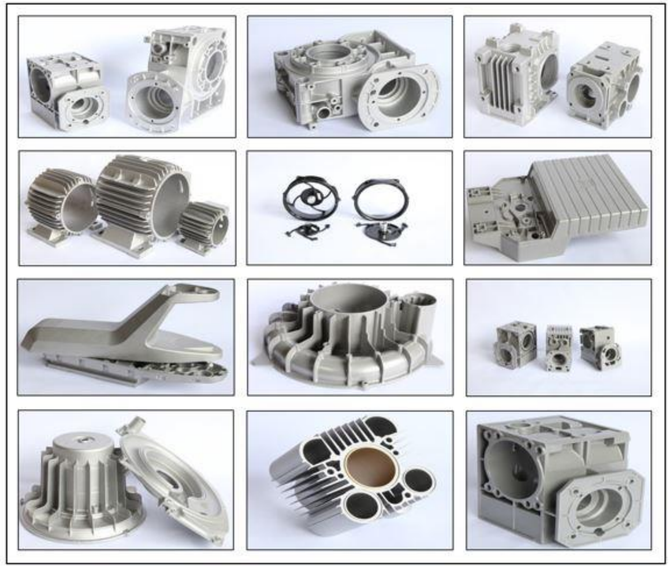

MG
GEKO
EISEMANN




EISEMANN BSKA 3


EISEMANN
BSKA 2


EISEMANN



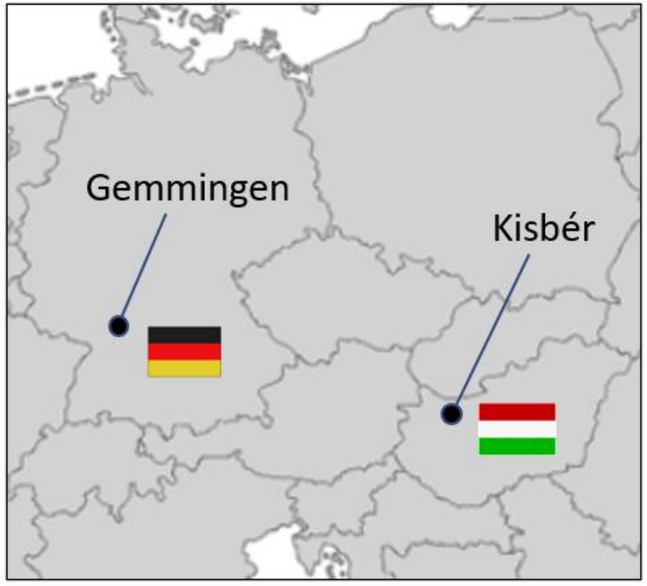

MG
GEKO
EISEMANN


GEKO
R7401


GEKO
Silent


GEKO
GEKO


EISEMANN
Katastrophenschutz
Niedersachsen


Gemmingen
Kisbér

Electric steel stamping & further processing

Production site: Gemmingen (GER)
Revenue (2022): 25,2 [Mio €]
Employees: appr. 50
Core competencies:

- Electric steel stamping
- Rotor & Stator manufacturing
- Tool maintenance

Machinery:

- 4 x high speed stamping presses with punching forces from 110 - 250 t
- 1 x rotor die casting cell

ISO 9001 certification

Aluminium HPDC & further processing

Production site: Kisbér (HUN)
Revenue (2022): 14,5 [Mio €]
Employees: appr. 170

Core competencies:

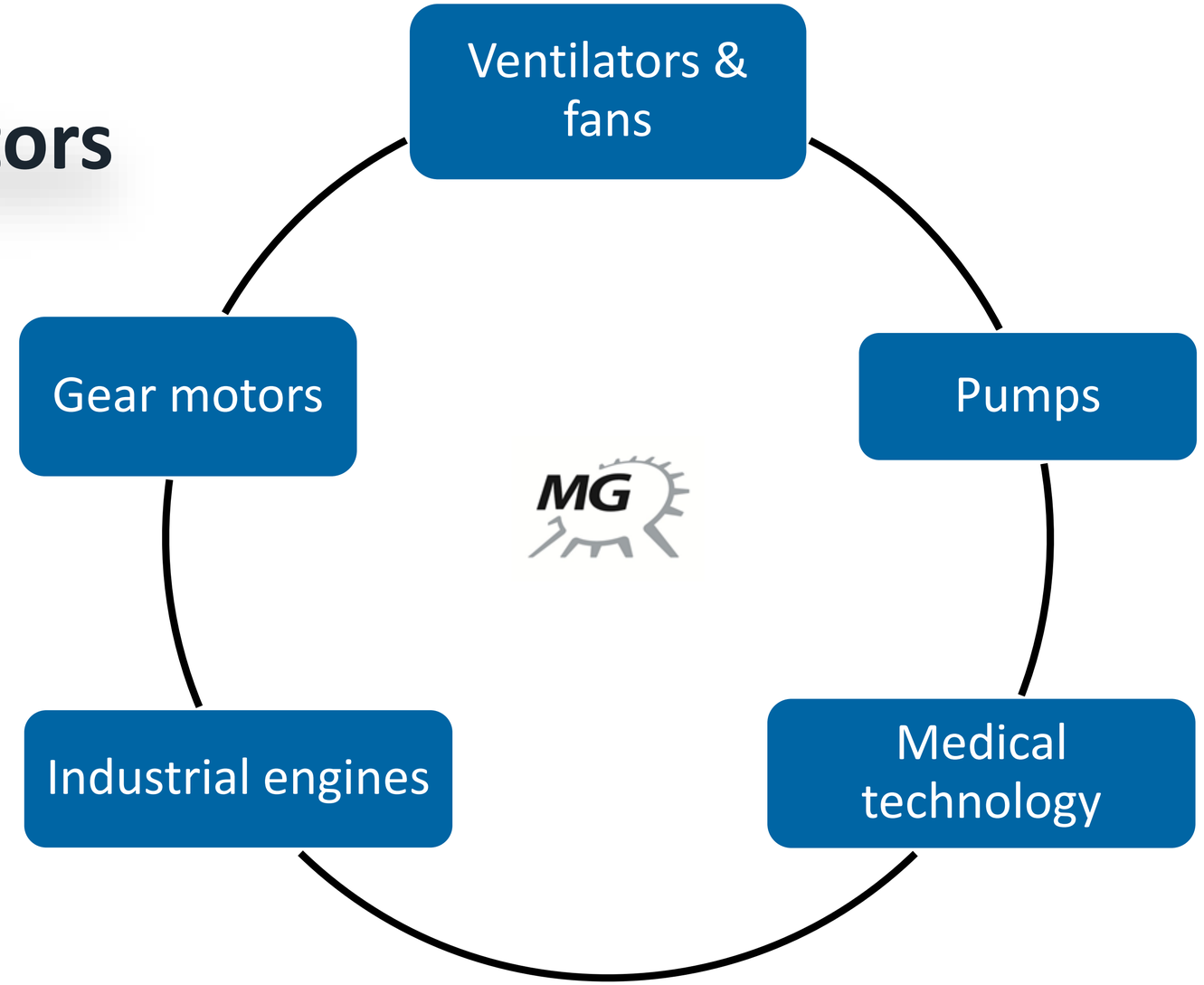
- Aluminium HPDC
- Surface pretreatment
- CNC machining
- Tool making and maintenance

Machinery:

- 18 x DCM with closing forces from 300 - 900 t
- 5 x troval slide grinding machines
- 2 x shot blasting machines
- 3 x CNC machine centers
- 3 x CNC lathes

ISO 9001 & ISO 14001 certification

Industry sectors



Investments at the production site Kisbér in 2023

- 1 x fully automatic Italpresse Gauss die casting cell with 750 t closing force
- 1 x fully automatic Italpresse Gauss die casting cell with 550 t closing force
- 1 x general overhaul + full automation of an existing 900 t die casting machine
- 1 x Brother SPEEDIO R650Xd1 CNC machining center
- 2 x Nabertherm melting furnace
- 1 x introduction of ERP system
  „Navision Business Central”

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Electrical steel stacks

Catalog program for the production of stamped standard IEC stator and rotor stacks from electrical steel in the frame sizes 56 – 132 with own stamping tools up to an outside ø of 200 mm (single sheet)

Customized stator and rotor lamination packages in 56 - 132 sizes for electric drives

Die-cast rotors

Catalog program for the HPDC of rotors from different aluminium alloys according to IEC standards in the frame sizes 56 – 112 with own tools

Customized die cast rotors for electric drives in 56 - 112 sizes

Die-cast parts

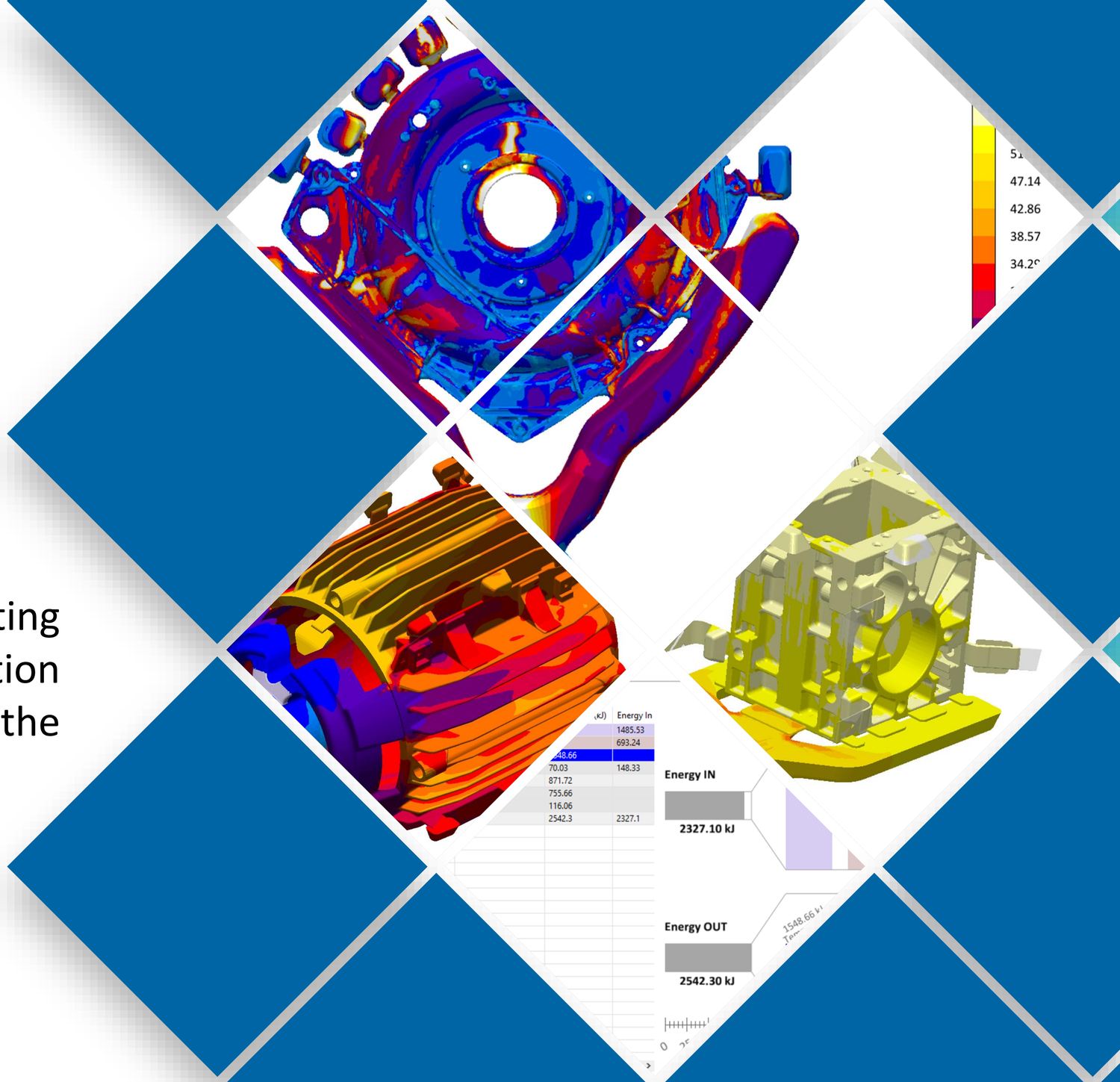
Customer specific complex aluminum castings with a product weight from 0,1 up to 6,0 kg

Customized die cast parts for electric engines & alternators in 56 - 112 sizes

Catalog program for the manufacturing of HPDC parts from aluminium according to IEC standards in the frame sizes 56 - 112 with own die casting and trimming tools

Casting simulation

Computer-aided simulation of die casting processes (mold filling and solidification processes) in the development phase of the products



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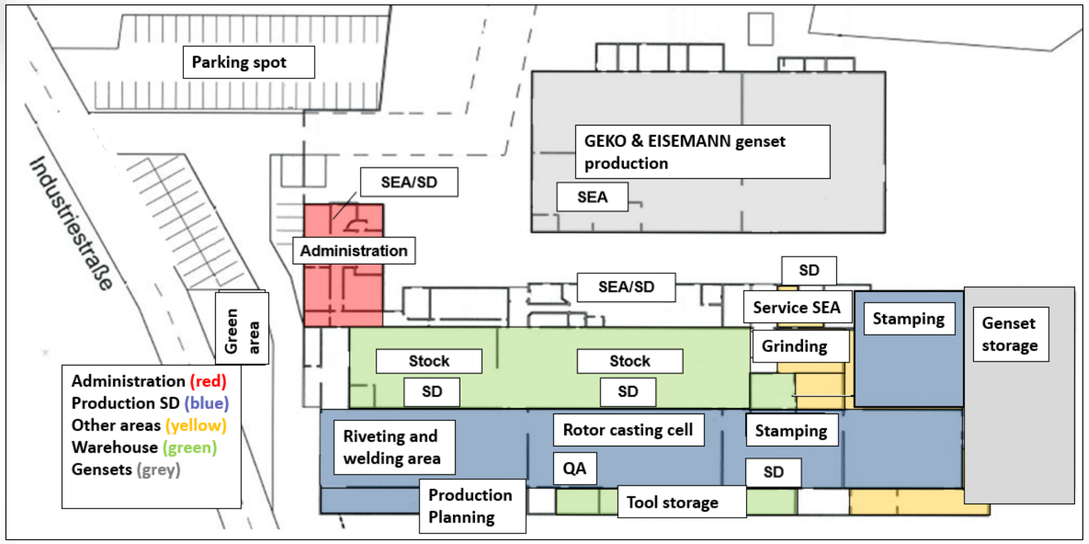
Site Gemmingen

Annual electric steel consumption:

appr. 6.000 t

Sheet thickness: 0,65 / 0,5 / 0,35
Sheet grade: M800 / M400 / M270

Alloys:
EN AC-47100 / AlSi12Cu1(Fe) / 231D
Pure Aluminium 99,7



Stamping shop Gemmingen

1 x SAL 250 t Schuler

1 x BSTA 160 t Bruderer

2 x BSTA 110 t Bruderer

Rotor die casting Gemmingen

1 x fully automatic Cannon Ergos rotor casting cell with 2 furnace systems, as well as a loading and unloading system

The following interlocked rotors can be produced on the equipment:

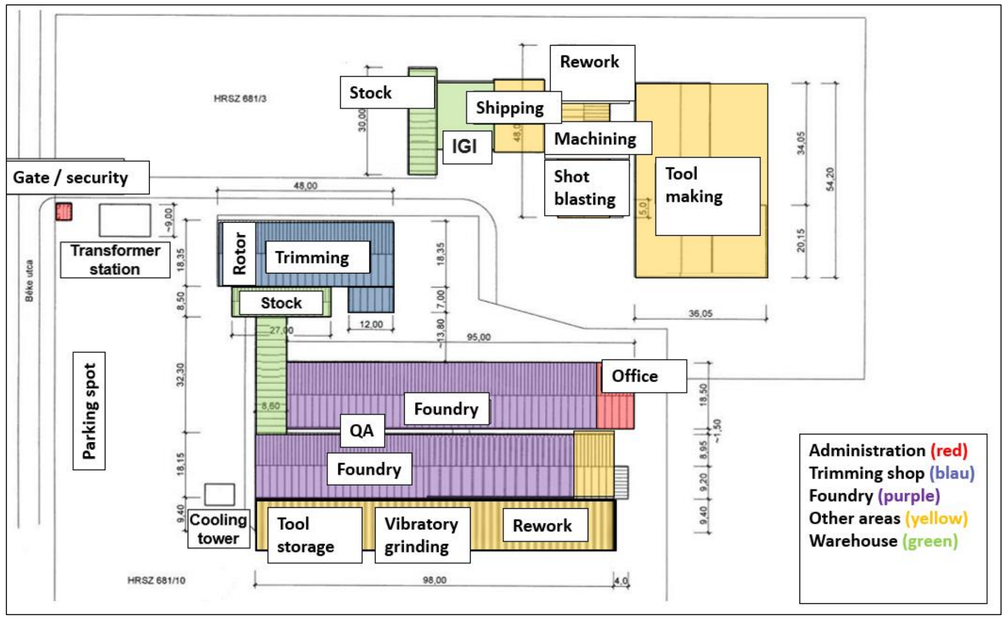
Outside ø:	40 - 90mm
Iron length:	30 - 150mm

Site Kisbér

Annual aluminium consumption:

appr. 4.000 t

Alloys:
EN AC-47100 / AlSi12Cu1(Fe) / 231D
EN AC-44300 / AlSi12(Fe) / 230D
Pure Aluminium 99,7



Foundry Kisbér

1 x fully automatic die casting cell from Idra (700 to.)
3 x fully automatic die casting cell from Italpresse Gauss (550 / 750 / 900 to.)
14 x die casting machine from Italpresse Gauss (300 – 850 to.)

CNC machining shop Kisbér

1 x Nakamura-Tome CNC lathe

2 x Spinner CNC lathe

1 x Okuma
CNC machining center

1 x Spinner
CNC machining center

1 x Brother
CNC machining center

Tool making Kisbér

In-house design, development, manufacture and maintenance of tools enables flexibility and well-founded know-how from a single source

Machinery:

3 x CNC machining center (5-axis)
2 x vertical eroding machine
1 x wire eroding machine
traditional turning-, and milling machines as well as grinding machines

Quality assurance

Measuring rooms at both locations with 3D CMM from Wenzel for ongoing quality control.

Micro-Vu optical measuring machine for testing the stamped sheets made of electrical steel as well as spectral analysis for examining the aluminum raw material.

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Mission

- Customer satisfaction & long term customer retention
- Highest product quality
- Continuous improvement

Vision

- Increase of added value for the customers
- Strengthening the market presence in the existing markets and entering into new markets
- Extension of the product portfolio

Thank you for your attention!