
KOVOLIT

History of the company KOVOLIT, a.s.

1921



Establishment of Koloferra - machine shop

1934



Establishment of the Forge division - production of die forgings from aluminium, copper, brass and bronze alloys

Subsequently, a foundry division was established - aluminium alloy castings

1995



KOVOLIT a.s. became part of a strong group KOVOLIT & REMET GROUP a.s.

2000



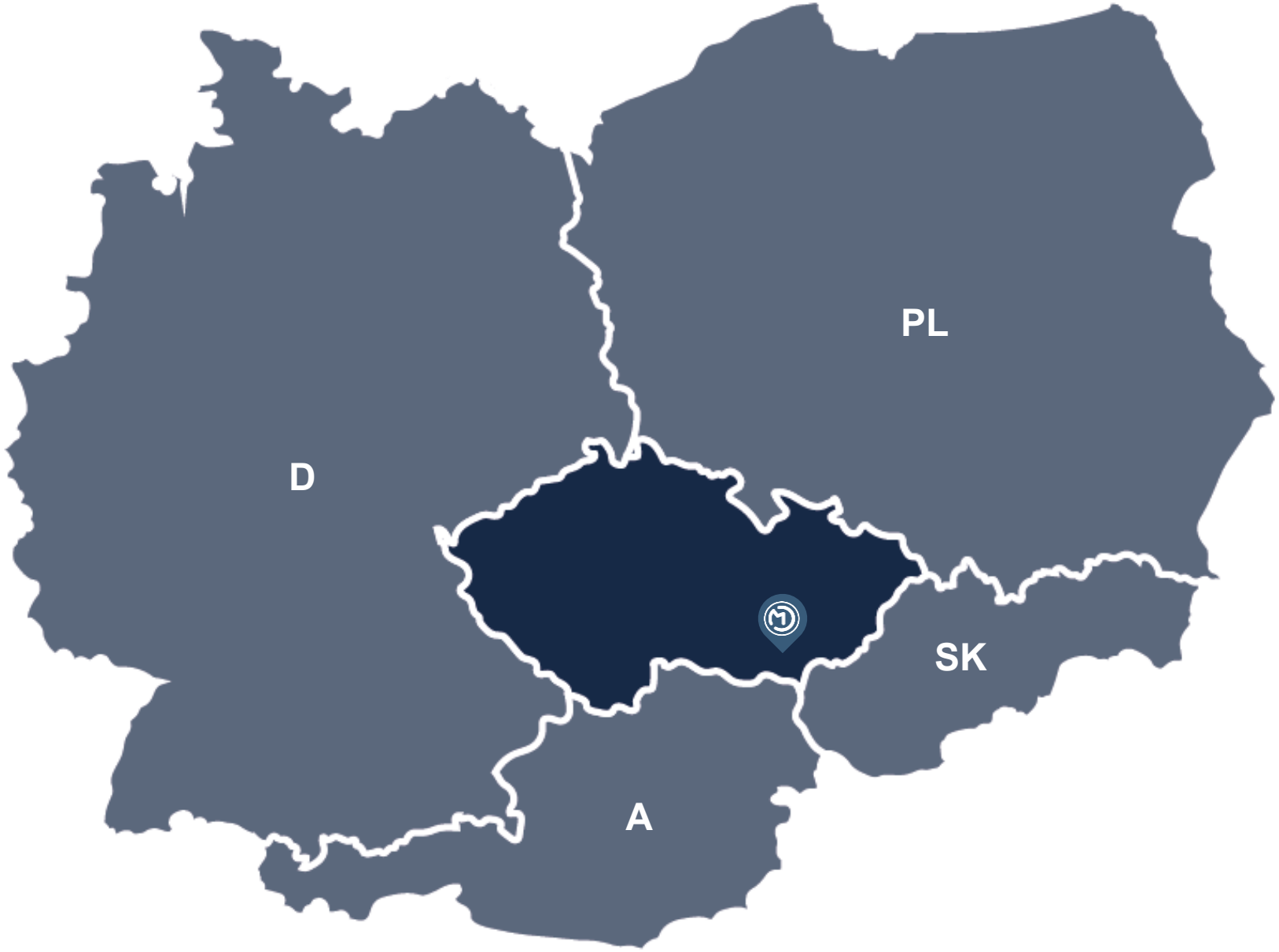
Development of production divisions and establishment of a CNC machining division

2022



Today, KOVOLIT, a.s. is a purely Czech company.

KOVOLIT, a.s.



KOVOLIT, a.s.

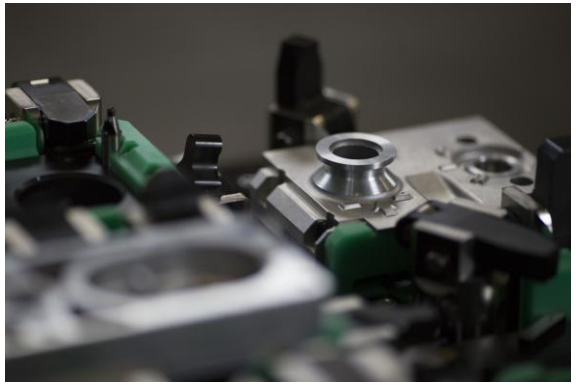
Foundry



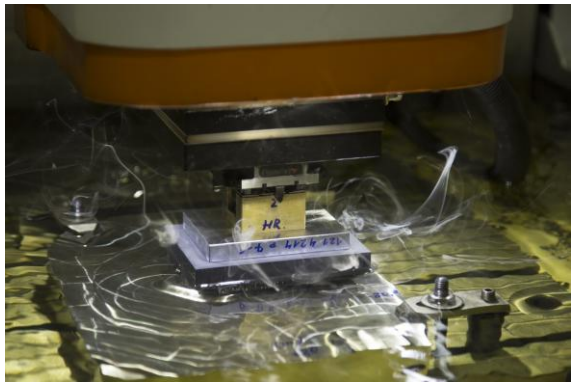
Forge



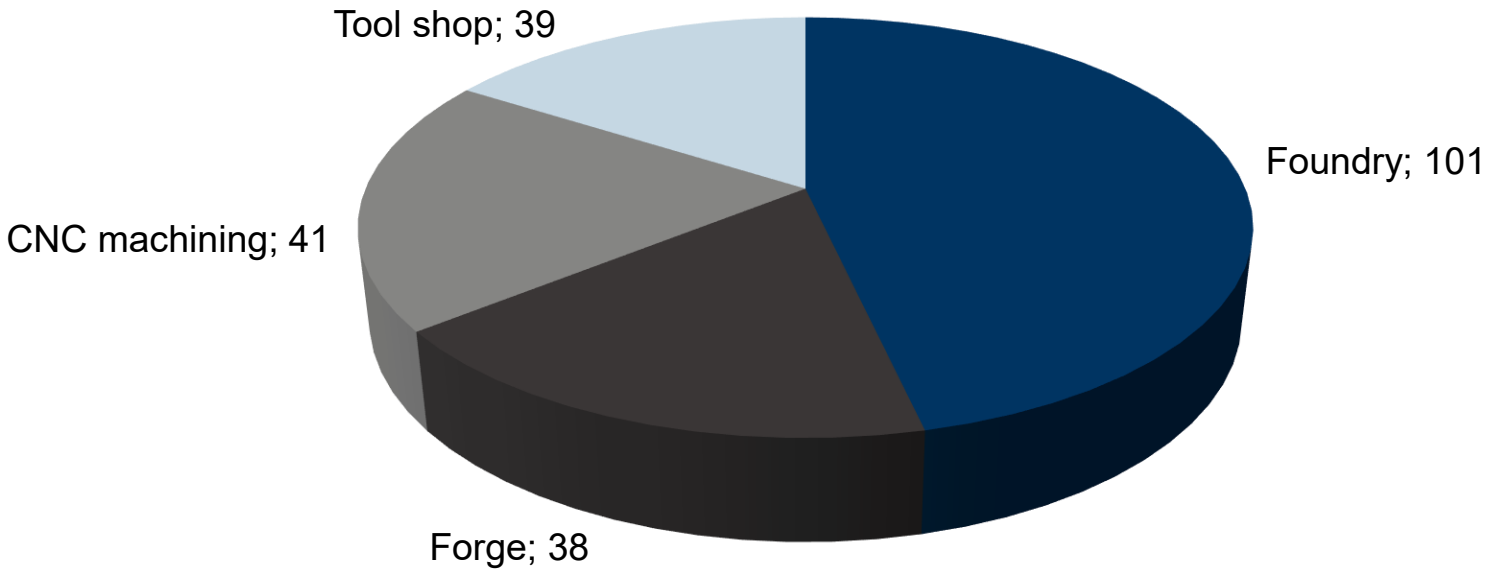
CNC machining



Tool shop



Employee data



Foundry - Production facilities

- melting furnaces Striko from 350 kg to 3,000 kg
- Wollin heads for release agent
- Bühler casting machines 400 t – 1,050 t of pressure force
- Kawasaki and ABB automatic extraction robots

The following operations:

- trimming
- tumbling
- blasting
- grinding
- impregnation



Castings of aluminium alloy

High pressure castings



- optimal for thinner walls
- higher risk of porosity in thick walls
- mostly focused for AUTOMOTIVE industry production
- Bühler casting machines

Low pressure castings



- optimal for thicker walls
- lower risk of porosity
- lower series

truma

IFE Innovations For Entrance Systems

JUNGHEINRICH

Valeo

brose

Forge

Forge I



- forgings from 5 g to 38 kg
- 11 forging presses from 1.25 MN to 16 MN
- forging presses Šmeral, Žďas, Weingarten

Forge II



- forgings and extrusions from 20 g to 500 g
- automatic forging lines
- annealing and hardening furnaces Realistic

Forging Shop







- **Production with the longest tradition in the company KOVOLIT, a. s.**
- 11 forging machines
- hot die Forgings from aluminium, copper, brass and bronze alloys
- cold extrusion from aluminium alloys
- trimming machines
- blasting machines

NEW Project – Realisation Phase – Forging Press - ŠMERAL LZK 2500P

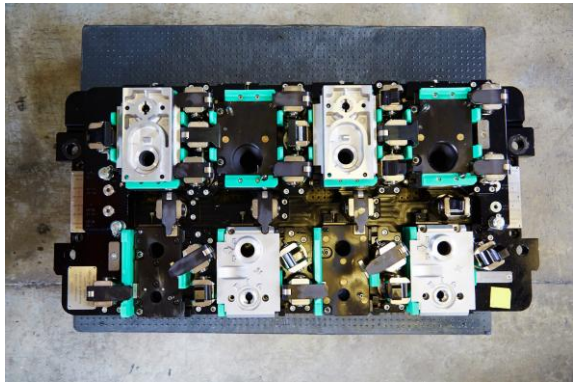


Main Technical Parameters	Value	Unit
Rated forming force	25	MN
Rated stroke	1.6	mm
Ram stroke	320	mm
Clamping range (ram down, adjustment up)	905	mm
Ram adjustment (manual)	10	mm
Throat	1,410	mm
Table dimensions (width x depth)	1,340 x 1,470	mm
Ram dimensions (width x depth	1,320 x 1,100	mm

Further investment for pre-heating etc. feasibility study runs.

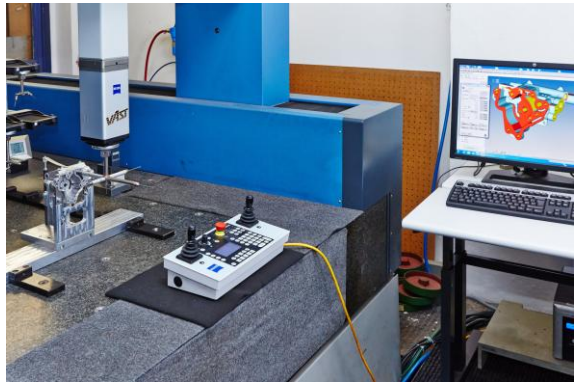
CNC machining





- the youngest, dynamically developing operation
- 20 production machines Chiron, Okuma, Mazak, Muratec
- reliability, quality and high productivity
- professional hydraulic fixtures
- CNC tools with cooling
- washing (Dürr)
- leak testing

Quality control

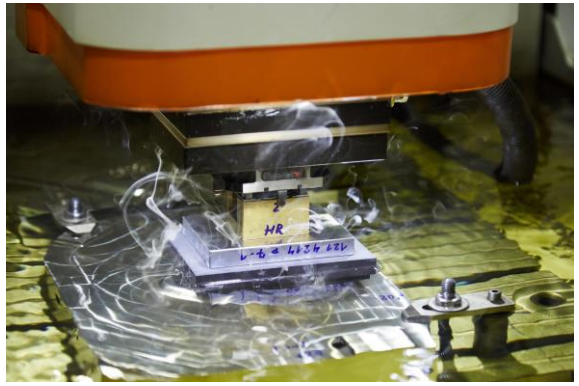




- 3D measuring machines ZEISS, MITUTOYO
- contourograph MITUTOYO
- surface measuring machines MITUTOYO
- X-Ray YXLON
- SPECTRO MAXX optical spectrometer
- Round test RA – 2200
- KEYENCE VL 700 3D optical scanner

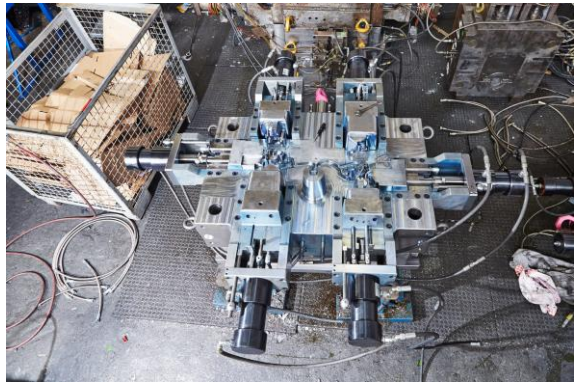
Tool shop

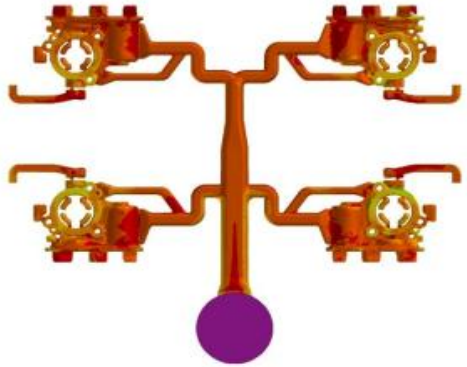




- dies for pressure and gravity casting
- dies for forging
- trimming tools and special jigs
- dimensions of tools up to 1200 X 1200 mm
- weight up to 5t

Tool Design





- creating and redesigning 3D model
- customer support in design development
- software: Pro Engineer / PTC Creo
- casting simulation using ProCast software

Quality Certificates

- **Certificates IATF 16949:2016, ISO 9001:2015, ISO 14001:2016**



ZERTIFIKAT ◆ CERTIFICATE ◆ 認證證書 ◆ СЕРТИФИКАТ ◆ CERTIFICADO ◆ CERTIFICAT

Management Service

CERTIFICATE

Certificate Registration No.: **12 111 9503 TMS** / IATF Certificate No.: **0532365**

IATF USI: **L6STYG**

The Certification Body
of TÜV SÜD Management Service GmbH
certifies that the organization

KOVOLIT, a.s.
Nadrazni 344
664 42 Modrice
Czech Republic

for the scope

Production of Die Forging of Al-Alloys and Cu-Alloys, Extruded Pieces, Pressure Die Casting, Low-pressure and Gravity Casting of Al-Alloys into Metal Molds including Heat Treatment, Finishing, Impregnation, and Machining
(without Product Design as per Chapter 8.3)

has established and applies a Quality Management System.

An audit was performed and has furnished proof
that the requirements according to

IATF 16949
First Edition 2016-10-01

are fulfilled.

Issue date: **2024-07-23**

Expiry date: **2027-07-22**

Fred Wenke
Head of Certification Body
Munich, 2024-07-23

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ZERTIFIKAT ◆ CERTIFICATE ◆ 認證證書 ◆ СЕРТИФИКАТ ◆ CERTIFICADO ◆ CERTIFICAT

Management Service

CERTIFICATE

Certificate Registration No.: **12 100 9503 TMS** / Order No.: **704127407**

The Certification Body
of TÜV SÜD Management Service GmbH
certifies that the organization

KOVOLIT, a.s.
Nadrazni 344
664 42 Modrice
Czech Republic

for the scope

Production and Sale of Die Forging of Al-Alloys and Cu-Alloys, Extruded Pieces, Pressure Die Casting, Low-pressure and Gravity Casting of Al-Alloys into Metal Molds including Heat Treatment, Finishing, Impregnation and Machining. Development, Manufacturing and Sale of Die Castings Dies, Chill Molds, Drop Forging Molds and Special Jigs

has established and applies a Quality Management System.

An audit was performed and has furnished proof
that the requirements according to

DIN EN ISO 9001:2015

are fulfilled.

The certificate is valid from **2024-07-23** until **2027-07-22**.

Fred Wenke
Head of Certification Body
Munich, 2024-07-23

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ZERTIFIKAT ◆ CERTIFICATE ◆ 認證證書 ◆ СЕРТИФИКАТ ◆ CERTIFICADO ◆ CERTIFICAT

Czech

CERTIFICATE

Management Systems Certification Body No. 3053
TÜV SÜD Czech s.r.o.

confirms that

KOVOLIT, a.s.
Nádražní 344
CZ – 664 42 Modřice
Ident. No.: 00010235

has established and applies
an environmental management system for

- **production of pressure die castings and coquille castings of Al-alloys**
- **production of forgings and extruded pieces of Aland Cu- alloys**
- **manufacturing of castings moulds, drop forging dieand special jigs**

Based on the audit performed, Report No. **15.958.123**
compliance with the requirements of the standard
has been proved according to

ISO 14001:2015

This certificate is valid from **23.04.2024** until **16.04.2027**
Certificate registration No. **15.958.073**

In Prague on 23.04.2024

S 3053

TÜV SÜD Czech s.r.o. • Novovysočská 994 • 142 21 Prague 4 • Czech Republic • certification@tuvsud.com

THANK YOU FOR ATTENTION.

