COMPANY PROFILE

KOVOFORM-CT s.r.o.

Your partner for injection molds and plastics

Toolshop and injection molding shop at one address in Planá near Mariánské Lázně, Czech Republic. From mold design and express repairs to the final molded part.

Mold service | **Toolmaking** | **Injection molding** | **CNC & EDM**



Mold plate after rough milling

About us

KOVOFORM-CT s.r.o. is a toolshop and injection molding shop in Planá near Mariánské Lázně, Czech Republic. We service, repair and build injection molds, offer precision CNC and EDM machining, and run series injection molding – all at one address.

We combine modern technology with long-standing toolmaking experience. The result is a fast intervention that extends mold life and cuts downtime in the customer's production.

Address	**Nádražní 854, 348 15 Planá**
Reg. No. / VAT ID	**21776571 / CZ21776571**
Business hours	**Mon–Fri 6:00–14:30**
Languages	**Czech, German, English**

48 h

standard mold repair, from receipt to dispatch

24/7

breakdown intake – weekends included

A1–A3

mirror polishing grades

±0.002 mm

wire EDM accuracy

What we do

Four core services under one roof

Mold service & repair

Express interventions, micro and laser welding, texture restoration, polishing and preventive maintenance.

Mold design & toolmaking

Turnkey injection molds – from CAD/CAM design through machining and spotting to sampling.

Injection molding

High- and low-volume production of plastic parts on Tederic 80 t and 130 t presses.

Machining & automation

CNC milling, grinding, sinker and wire EDM. Robot grippers (EOAT) and special-purpose machines.

We handle mold transport ourselves. We pick up the tool at your plant, repair it in Planá and return it to your press.

Express mold service and repair

Rapid diagnosis, precise welding and complete tool restoration

- **Micro and laser welding**

  Repairs of parting lines, worn edges, cores and cavity inserts. Minimal heat input, no distortion.

- **Texture and grain restoration**

  Scratches, local wear, dents and erosion marks. Seamless blending into the original texture (VDI 31 and others).

- **Mirror polishing**

  Manual and ultrasonic polishing and honing of cavities up to grades A1–A3.

- **Preventive maintenance and overhaul**

  Mold disassembly, deep cleaning, hot runner inspection, replacement of seals and worn parts.

TEXTURE REPAIR ON A CAVITY INSERT



1 Initial condition



2 Laser welded



3 Texture restored

48 h	24/7	6 t
standard repair	breakdown intake	max. mold weight

Mold design and toolmaking

Complete delivery from 3D design to molding trials



Mold plate after rough milling

01 **CAD/CAM design and optimization**

Mold design with a focus on cooling, ejection and the gating system.

02 **Precision toolmaking**

CNC machining, surface and cylindrical grinding, sinker EDM and wire EDM.

03 **Fitting and assembly**

Manual fitting and spotting of the mold's shaped parts.

04 **Molding trials and fine-tuning**

Sampling on site on our Tederic presses.

Add-on – automation: custom robot grippers (EOAT) and special-purpose machines.

Plastic injection molding

High- and low-volume production on Tederic presses

80 t

Tederic – clamping force

130 t

Tederic – clamping force

From taking over your mold through process setup, steady production and quality control to final packaging.

Materials processed

Commodity plastics	**PP, PE, PS**
Engineering plastics	**ABS, PC, PA6, PA66**
High-performance	**PPS GF40 (40% glass fiber)**
Elastomers	**SEBS (thermoplastic elastomer)**

Production without unnecessary downtime

Molding shop and toolshop are under one roof – if a mold fault appears, our toolmakers fix it immediately, with no trip to an external toolshop.

Machinery and equipment

Key technologies of the toolshop and molding shop

Technology	Machine / equipment	Note
5-axis milling	FHSM 5XC	work envelope 1020 × 610 mm
3-axis milling	Cincinnati Arrow 500, CME FS1, Hardinge Bridgeport VMC 1250	3 machines
Grinding	surface grinder, cylindrical grinder	surface and cylindrical grinding
Wire EDM	Fanuc Robocut α-C600iA	accuracy ±0.002 mm
Sinker EDM	Penta 650G	graphite electrodes
Laser welding	laser welder	repairs of cavity components
Injection molding	Tederic 80 t and 130 t	sampling and series production
Mold fitting	spotting press	fitting of parting surfaces
Measurement	coordinate measuring machine (CMM)	dimensional inspection
Conventional machining	lathe, band saw	preparatory and supporting operations

Software

Design, simulation and CAM programming in-house

CAD / CAM / SIMULATION

Autodesk Fusion + Simulation

3D design of molds and parts, technical drawings, CAM programming and simulation.

CAD / CAM FOR MOLDS

Cimatron

Dedicated CAD/CAM system for designing and manufacturing molds and tools.

CAM

WorkNC

CAM programming for CNC machining of complex freeform surfaces.

From the 3D model through mold design to the NC program – we handle the entire data chain ourselves.

Selected projects

Four jobs that show how we work

36 h

total repair time

Tool breakdown – automotive

Broken insert in a tool for dashboard covers. Micro laser welding and regrinding of the parting surface – the customer's line did not lose a single working day.

A2

polishing grade

Texture restoration

Erosion damage on cavity inserts for optical parts; the customer required VDI 27. The result is visually indistinguishable from the original.

28 h

from receipt to back on the press

Emergency weekend repair

Friday afternoon, the line is down. The mold arrived on Saturday morning and was back on the press, repaired, by Sunday afternoon.

500,000

parts produced without a stoppage

Preventive mold overhaul

Full disassembly before a large production run – new seals, hot runner inspection and re-polished cavities.

How we work together

From the first call to the mold back on your press

1

Inquiry

Call us or send a photo or 3D data of the damaged area.

2

Assessment

Our expert assesses the extent of the damage and proposes a procedure and a deadline.

3

Repair

Once approved, we start work immediately or schedule the mold pickup.

4

Delivery

We deliver the repaired mold from Planá straight to your press.

Inquiries and breakdowns

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