

Our services Molds repairs and modifications





Our goal is to provide complete services in the mold preparations for serial production (fine tuning), known as pre-service, preventive molds maintenances, repairs of burrs/flashes at parting lines, die spotting, dimensional correction of deformation, modification, molds polishing for painted parts, textured parts, as well as optical parts with mirror gloss

We are able to process molds up to a weight of 50 tons.

Facility layout aprox. 2600 m² of production area

2+2 bridge cranes

2 bridge cranes in two ships - max load 10 and 50 tonns



A word from our CEO

The intention of our company is to offer a comprehensive portfolio of services in the field of mold servicing, similar to the system of regular car inspections, but also service interventions in the event of various mold accidents.

We rely on the personal and professional approach, experience and manual skill of our staff, flexibility, communication and effort to solve the problem.



Aleš Koutný CEO



History of company



Starting a business

ALFA CHROM Company - chrome-plating plant



Division of activity into electroplating and service of molds and rollers

1999



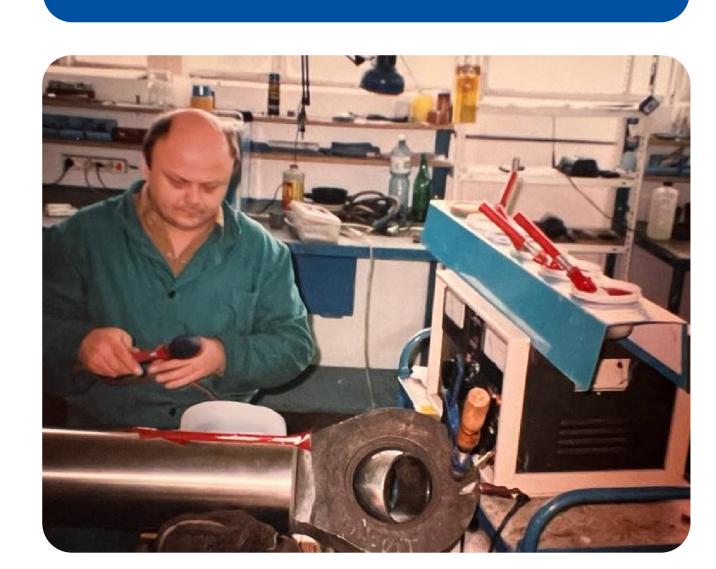
Buyout of ETA Litovel electroplating plant

first Skoda Octavia bumper

1. 11. 1991

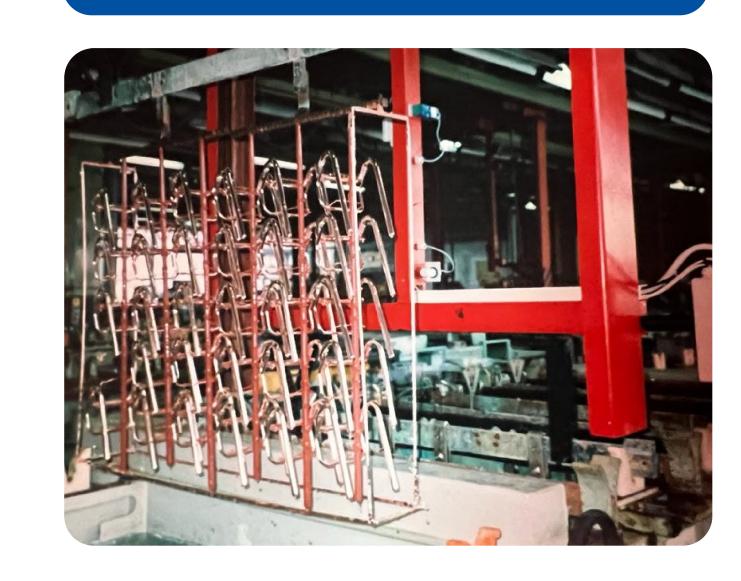
Purchase of Selective Plating technology

1993



1997

Lease of ETA Litovel electroplating plant



2001





Sale of electroplating plant

We start from scratch
Only service and 8 people

Construction of a new operating hall



Extension of the hall

2005 - 2012

1005 - ZUIZ

2003

Headquarter at the



address Polni in

Bruntal

2013 - 2014

Machine and technical equipment purchases

2015 - 2018



2021 - 2022

What do we offer you as part of the 2nd stage?

- > Complete mold disassembly
- > Cleaning from conservation, lubrication of moving parts
- > Connecting hydraulic circuits, checking function and tightness
- > Connection of cooling circuits, function and tightness check
- > Revision or assembly of electrical components
- Inspection of the parting lines of molds, execution of the image on the ink press
- > Complete photo documentation of all performed technological operations
- > Preparation for transport to the customer
- > Other services according to the customer's wishes





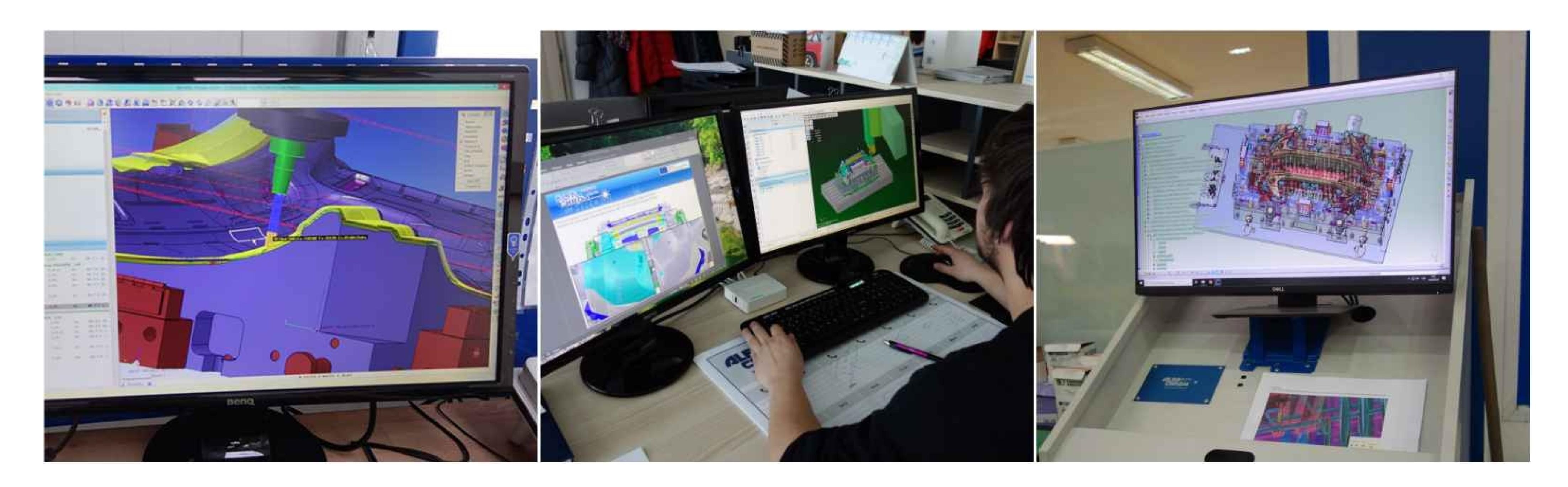
CAD/CAM Technologies

CAD

- Design solutions for modification and modification of molds
- > Preparation of 3D and 2D for machining
- We use Catia V5 prefered data formats CATPart, STP, IGS

CAM

- > Preparation of programs for CNC milling centers
- > We process data in the WorkNC program (formats used: native WorkNC data)



Micro-welding

Laser micro-weld

- > welding of complex, small and hard-to-reach shapes
- > the properties and types of additives are the same as for pulse micro-welding

Pulse Micro-TIG

- > Shape changes, dimensional correction and adjustments
- > Refurbishment of parting lines and inlet/feeding systems
- > refurbishment and modification of cutting and bending edges in stamping tools

Cold micro-weld

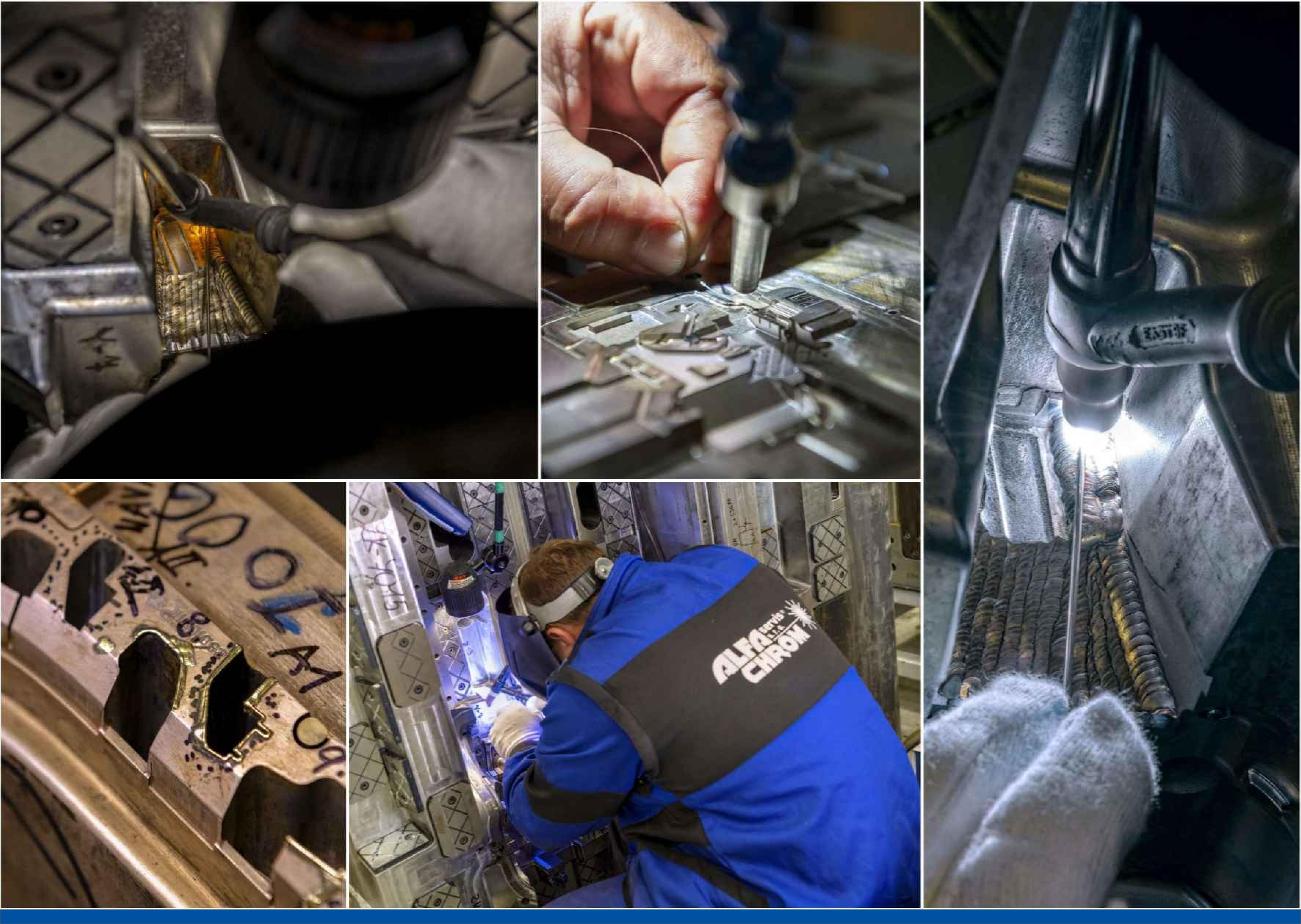
> Filling scratches and rough damages on the cylinders and hydraulic piston rods. Thanks to careful application the weld does not cause damage or affect the chrome coating.











CNC milling

5-axis CNC milling center FIDIA GTF2214

Axis travels: X=4200mm, Y=2200mm, Z=1400mm

Table dimensions: X=4000mm, Y=2000mm

Table load: 9000kg/m2

Spindle Parameters: HSK63A, 55 kW - 24.000 1/min – 88 Nm



6-axis CNC milling center FIDIA KR199 - 1200

Axis travels: X=1650 mm Y=750 mm Z=850 mm

Table dimensions: X=2000 mm Y=1250 mm

Rotary table diameter: 1200 mm

Rotating table load: 10000 kg

Total capacity of the table: 3500 kg

Spindle Parameters: HSK100A, 65 kW - 15.000 1/min - 124 Nm







EDM - spark erosion

Exeron EDM 316 XXL

Axis displacements: X=2000 mm Y=1180 mm Z=800 mm

Table dimensions: X=2500 mm Y=1350 mm

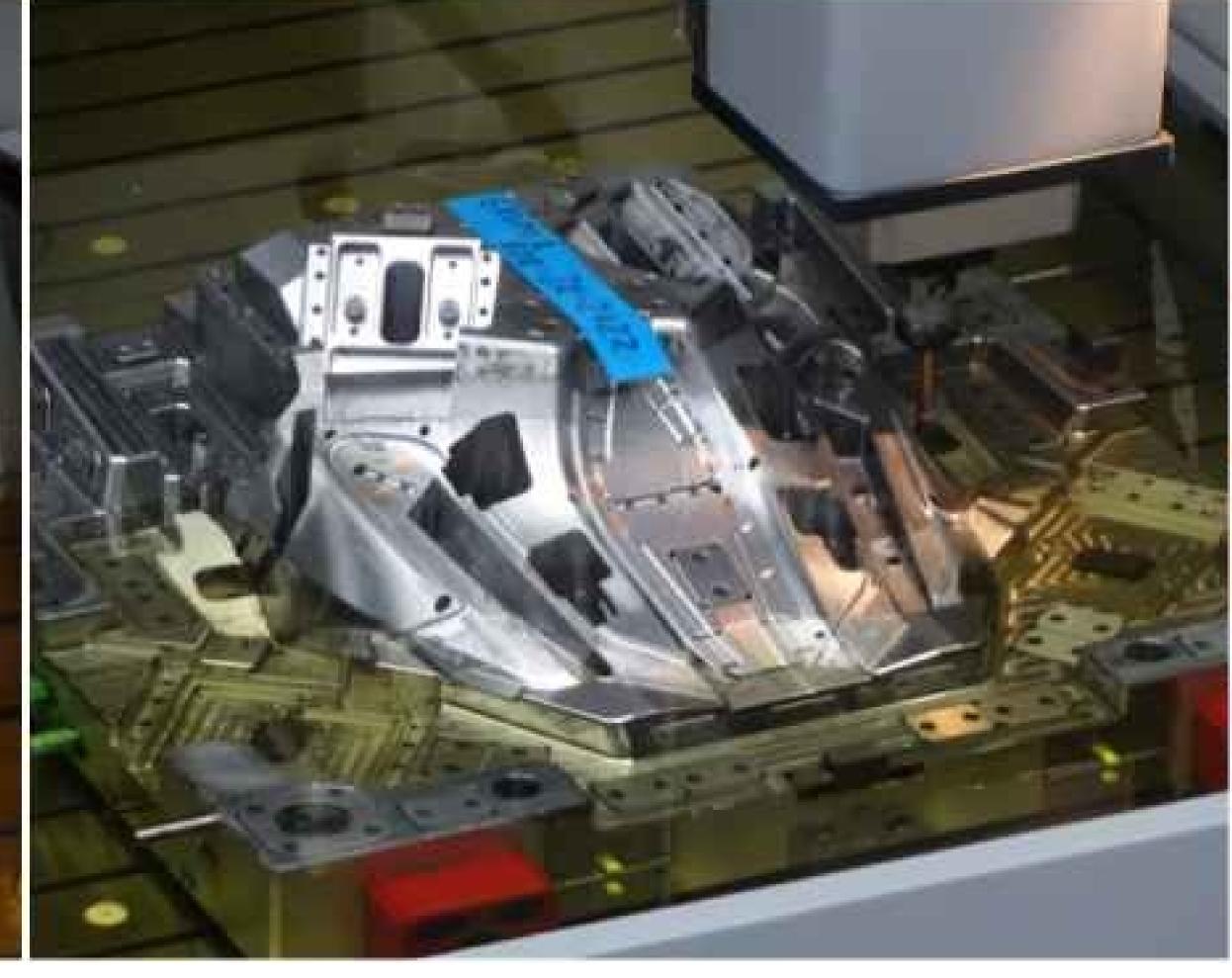
Workpiece load capacity: 8000 kg

High-speed generator Exopuls+ 120A with minimal electrode

wear and adaptive current control

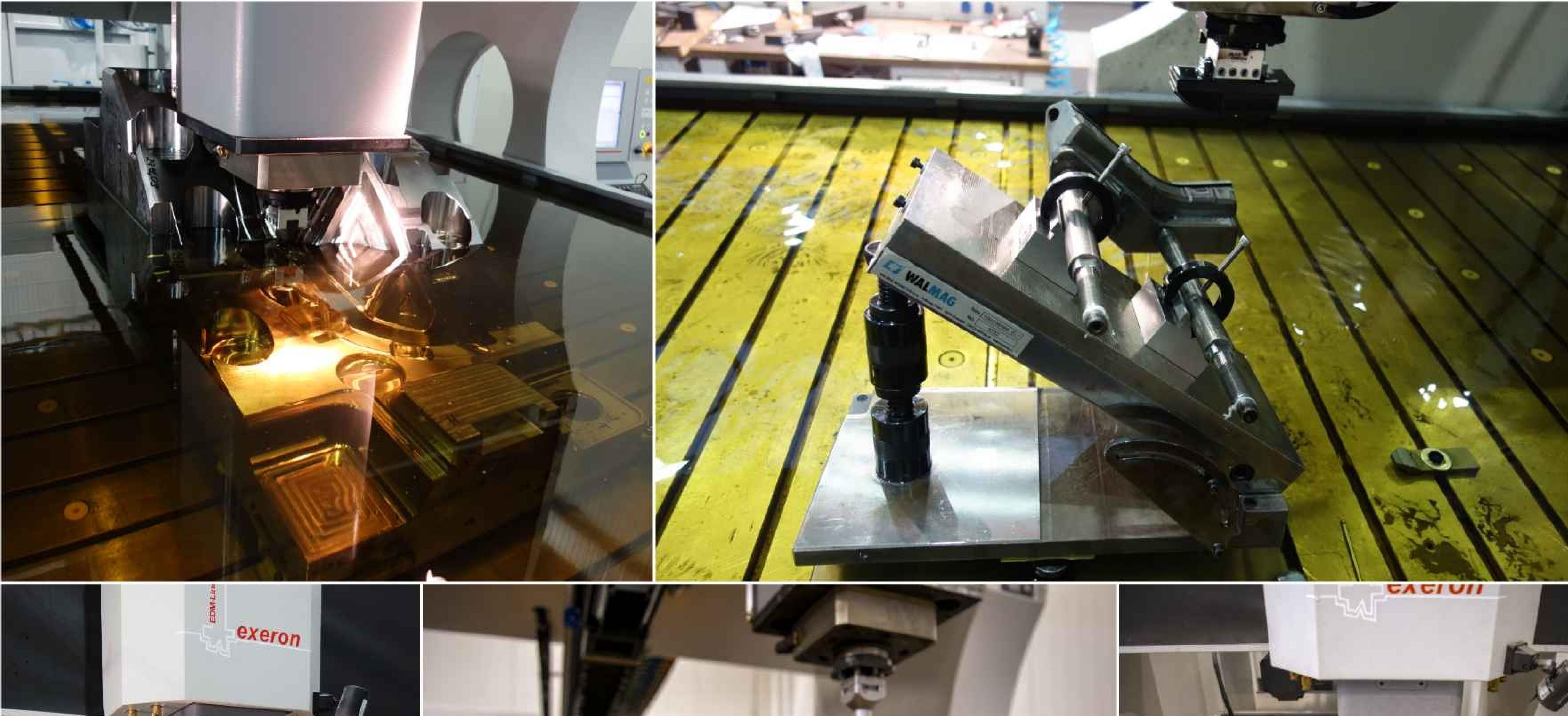
Clamping system: Erowa





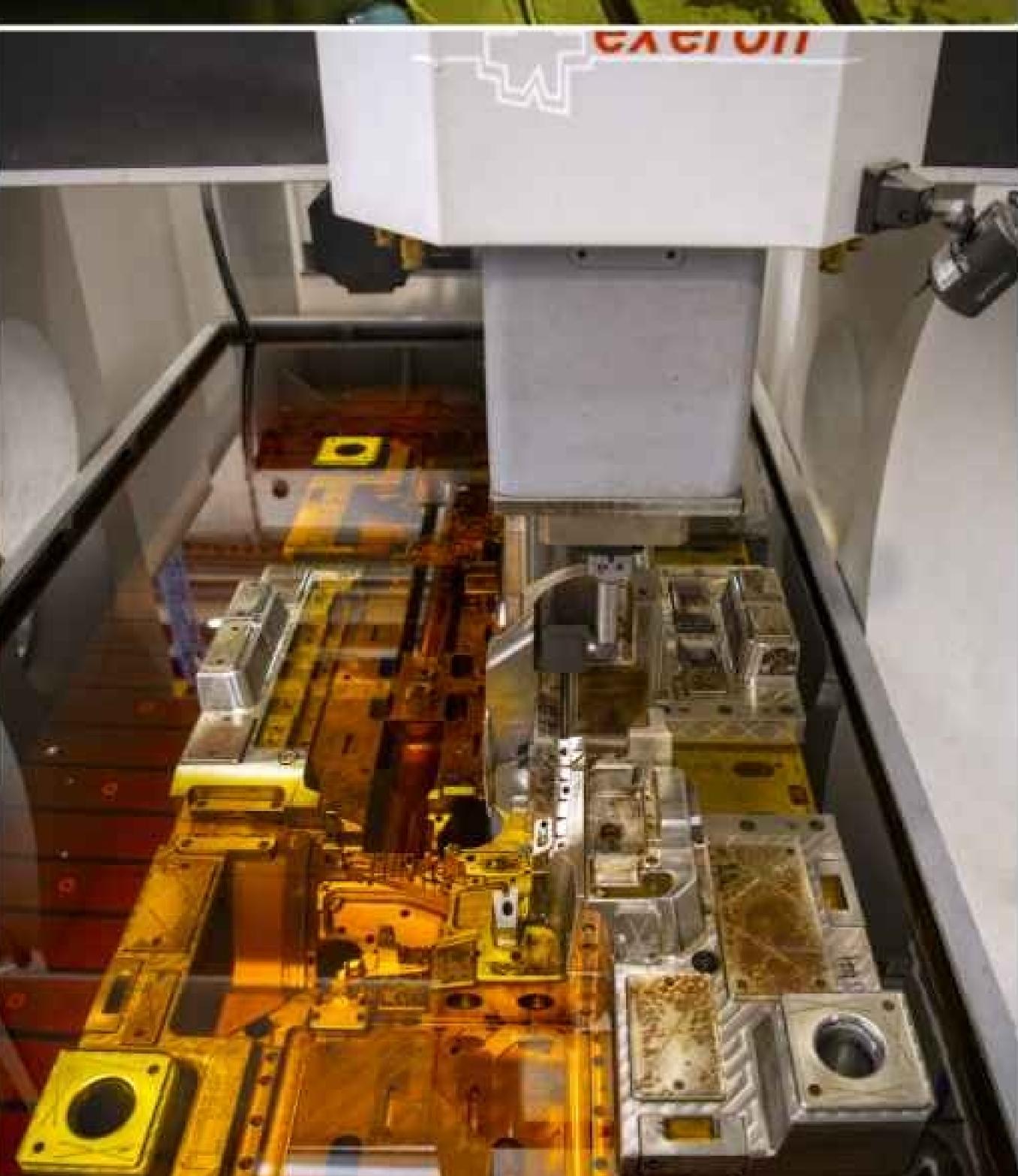












Polishing of mold shapes

Used for:

molds for the consumer and automotive industries









Die-spotting

We provide die-spotting and revisions of parting line of molds up to 60 tons of weight.

2 die-spotting machines:

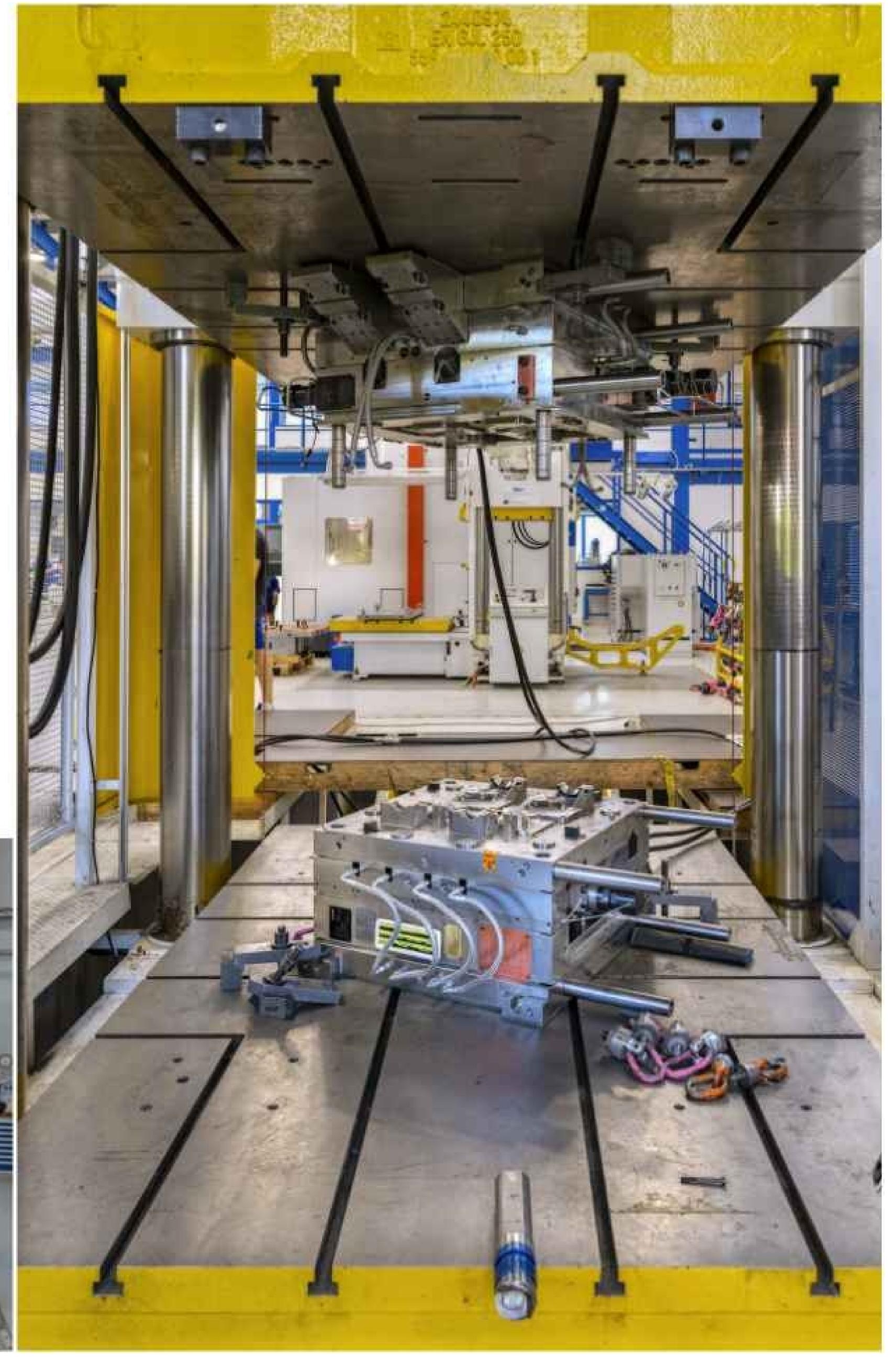
TUS 100 - weight of mold up to 10 tonns

die-spotting table with dimensions – 100 x 130 cm

TUS 200 - weight of mold up to 60 tonns

> die-spotting table with dimensions – 200 x 300 cm (eg. molds for automobile bumpers)

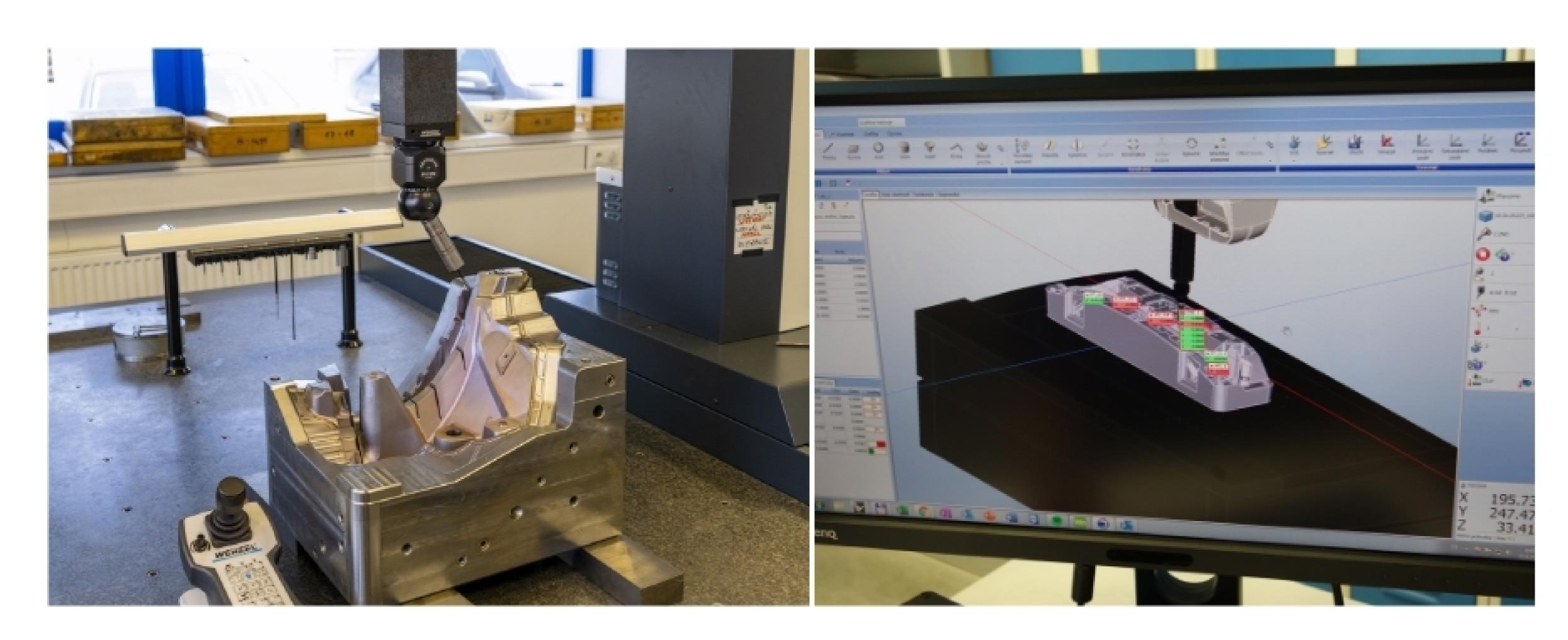






Measuring

3D measuring



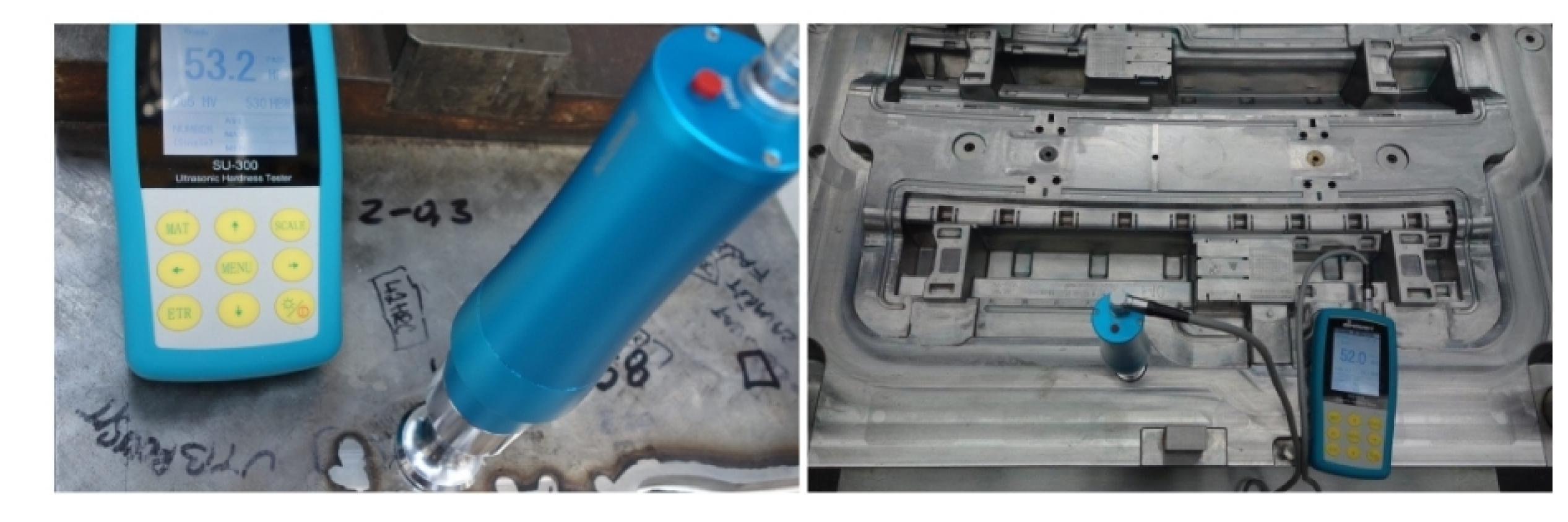
Chromium coating thickness measurement



Roughness measurement



Non-destructive hardness measurement



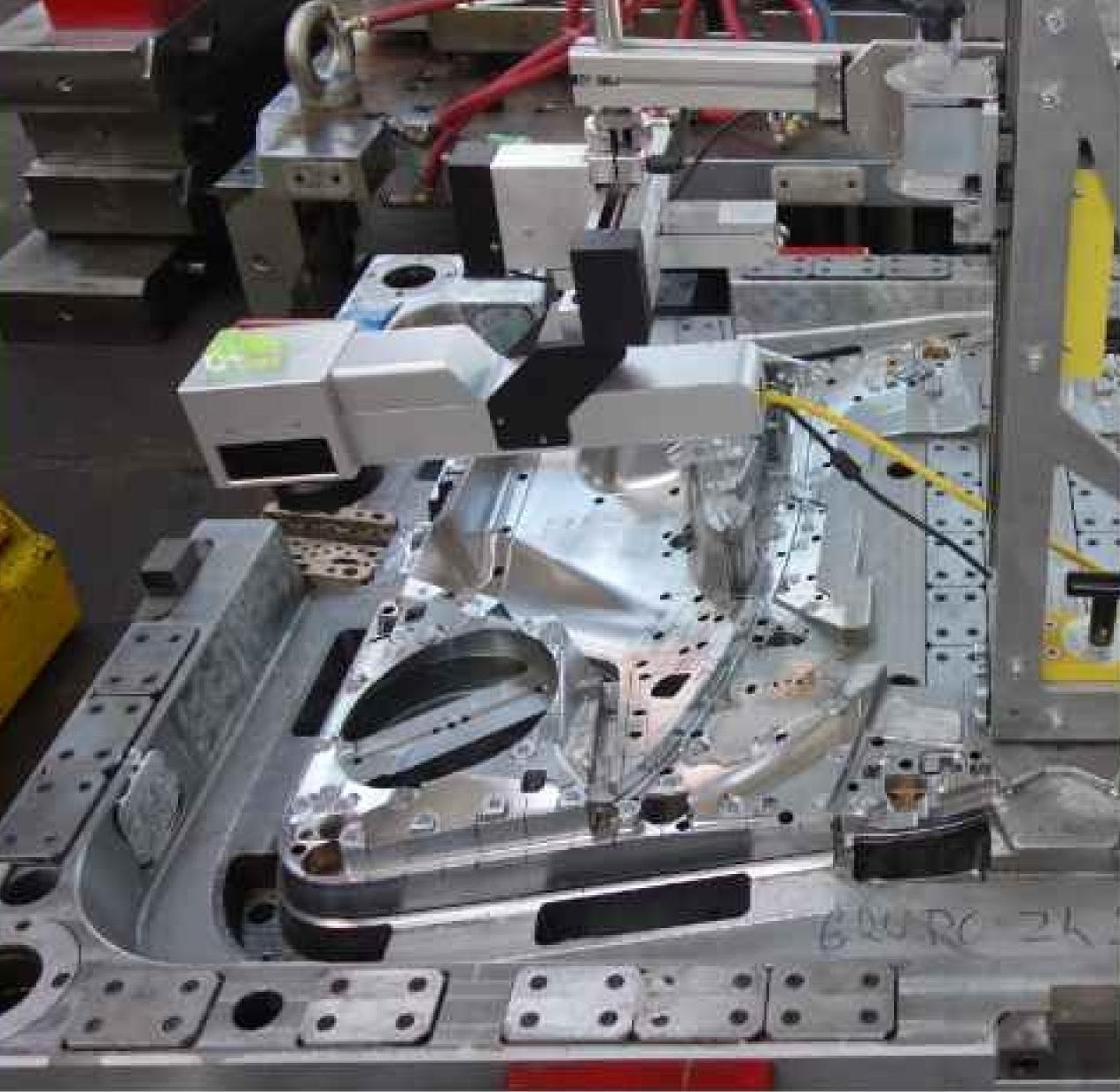
Engraving

HXM20 - COMPACTII

Smart laser is an engraving system, used directly for materials with low reflectivity (such as plastics, wood, paper and others), including for marking sub-metals with low reflectivity.

Use in the production of labels, date grids and labels.









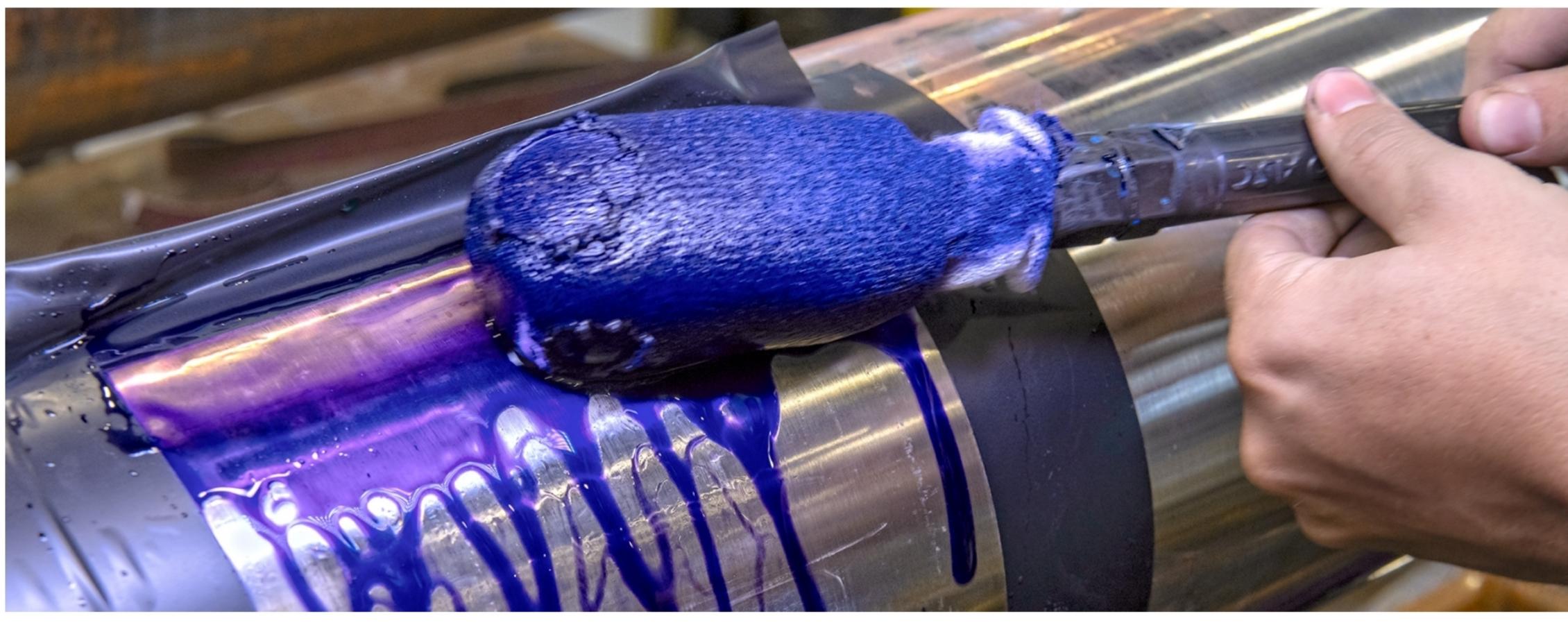


Repairing of rollers and pistons

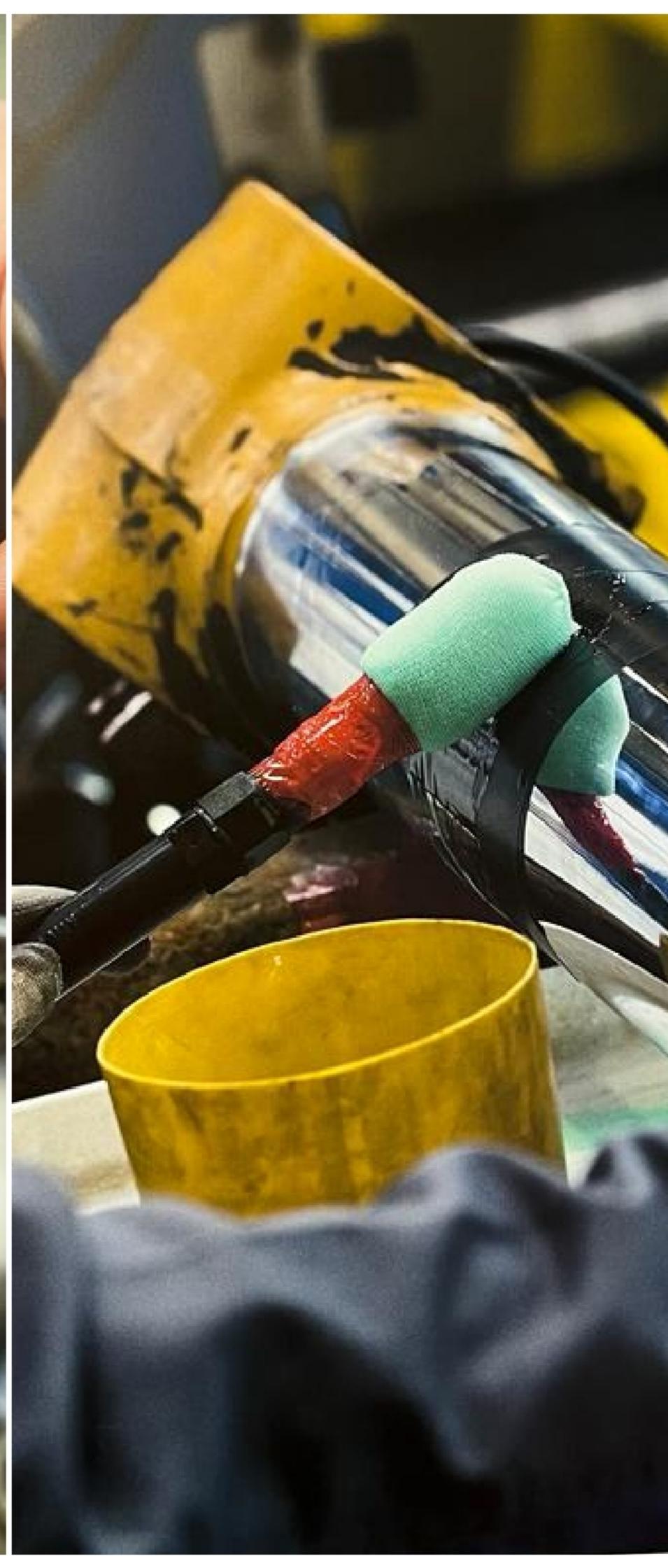
Local metal coating

Used for:

- > repairs of machine parts, molds, cylinders, hydraulic piston rods and rollers with plating (hard-chrome, nickel, etc.)
- > the possibility of applying a precisely defined layer
- > without the need for subsequent machining
- > anti-corrosion protection
- abrasion protection







Polishing and grinding head tool

We have developed a polishing and grinding head by which we can repair the surfaces of large rollers directly in the machine without the need of dismantling.





Cleaning unit for cooling circuits of molds

The device comes as a compact unit consisting of a tank (for its own active chemical substance), a water tank for washing, a capture sump, PP and PVC piping, stainless steel valves, a stainless steel heating coil and sensor, a thermostat, and a stainless steel pump with a frequency converter. Depending on the opted configuration, the unit can be equipped with a digital flowmeter for accurate flow measurement. For visual control of the flow, float flowmeters are provided according to the number of cleaned cooling circuits. The entire device is equipped with two fixed and two swivel hand wheels for ease of handling. The entire structure is welded from PP boards in order for it to be a self-supporting unit without the need of a supporting frame.

For 6 circuits with flush



For 12 circuits with flush





Magnetic clamping ball NEOSPHERE

The powerful magnetic chuck is switched on with the hexagonal T-key provided.

By turning the key by 120 °, the magnetic chuck is fully activated, and partial activation is also possible by positioning the workpiece. High quality NEOSPHERE consists of polyamide housing sphere, which is fitted with fine magnetic chuck poling.





Our customers























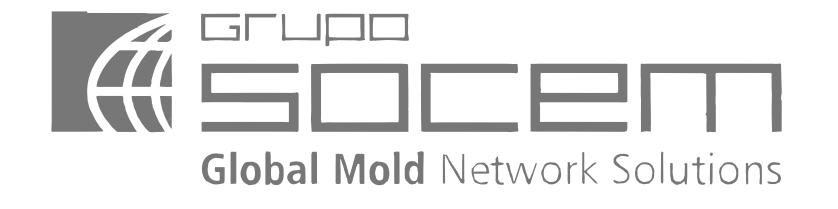




















Contact





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