



# JANKOVITS

Engineering

## COMPANY PRESENTATION 2021



- 1992 – Jankovits Hidraulika is established as a family company
- 1997 – Workshop and office building are built in Győr Industrial Park
- 1997 – Cooperation starts with Széchenyi István University (Győr)
- 2001 – ERP software is being implemented
- 2005 – ISO 9001 certification
- 2006 – Site expansion starts, our team continues to grow
- 2008 – New field of activity: machine building
- 2011 – New factory hall
- 2017 – Company name is changed, rebranding
- 2018 – 3<sup>rd</sup> factory hall and office building opens

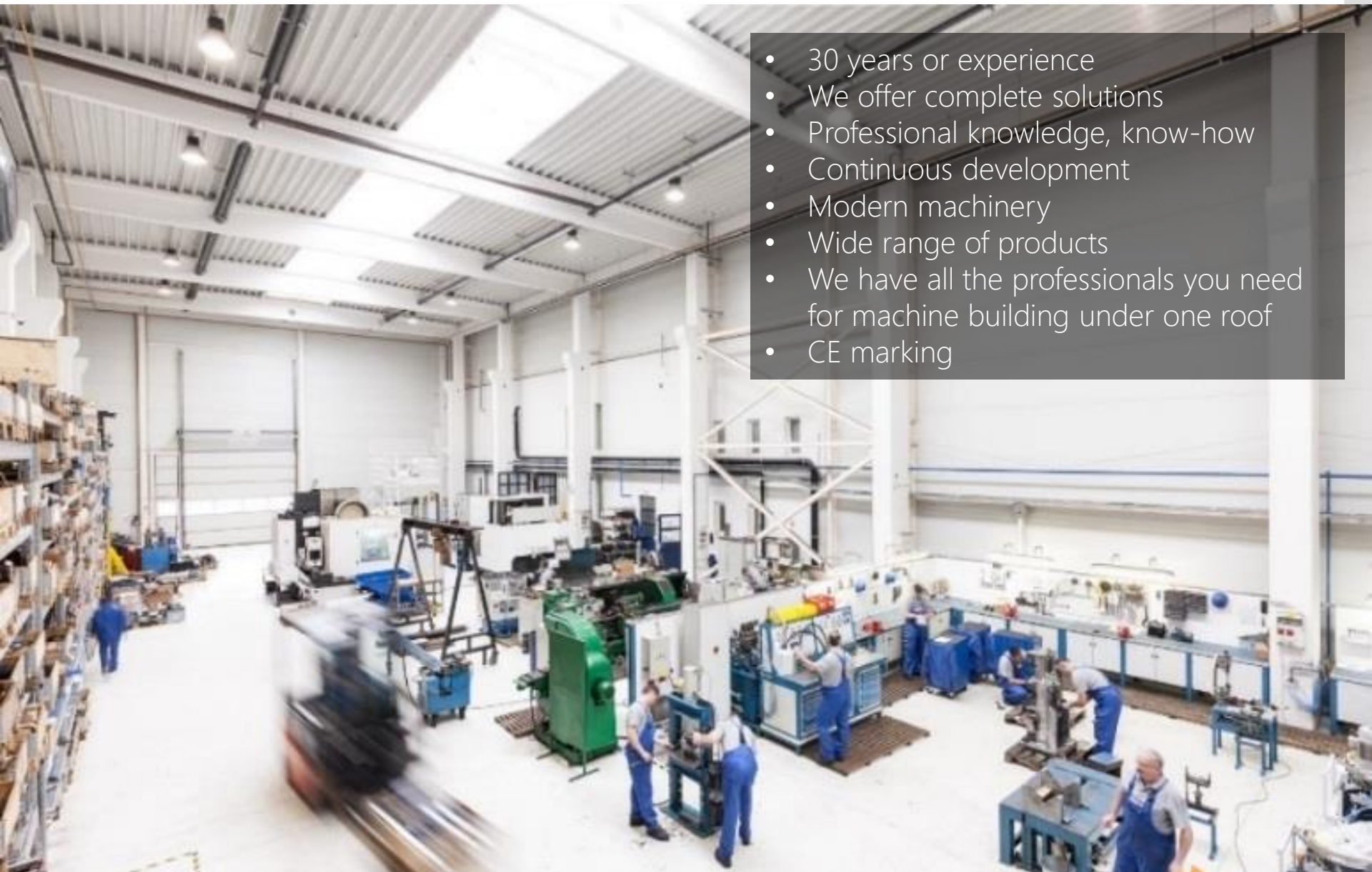


- 80 employees
- 7,2 million USD in annual revenue
- approximately 2500 clients
- 3 story warehouse, 1 million EUR inventory
- 900 m<sup>2</sup> office building and 1900 m<sup>2</sup> workshop
- 12 international brands are represented
- 100% Hungarian family ownership
- ISO 9001 certification





- 30 years or experience
- We offer complete solutions
- Professional knowledge, know-how
- Continuous development
- Modern machinery
- Wide range of products
- We have all the professionals you need for machine building under one roof
- CE marking



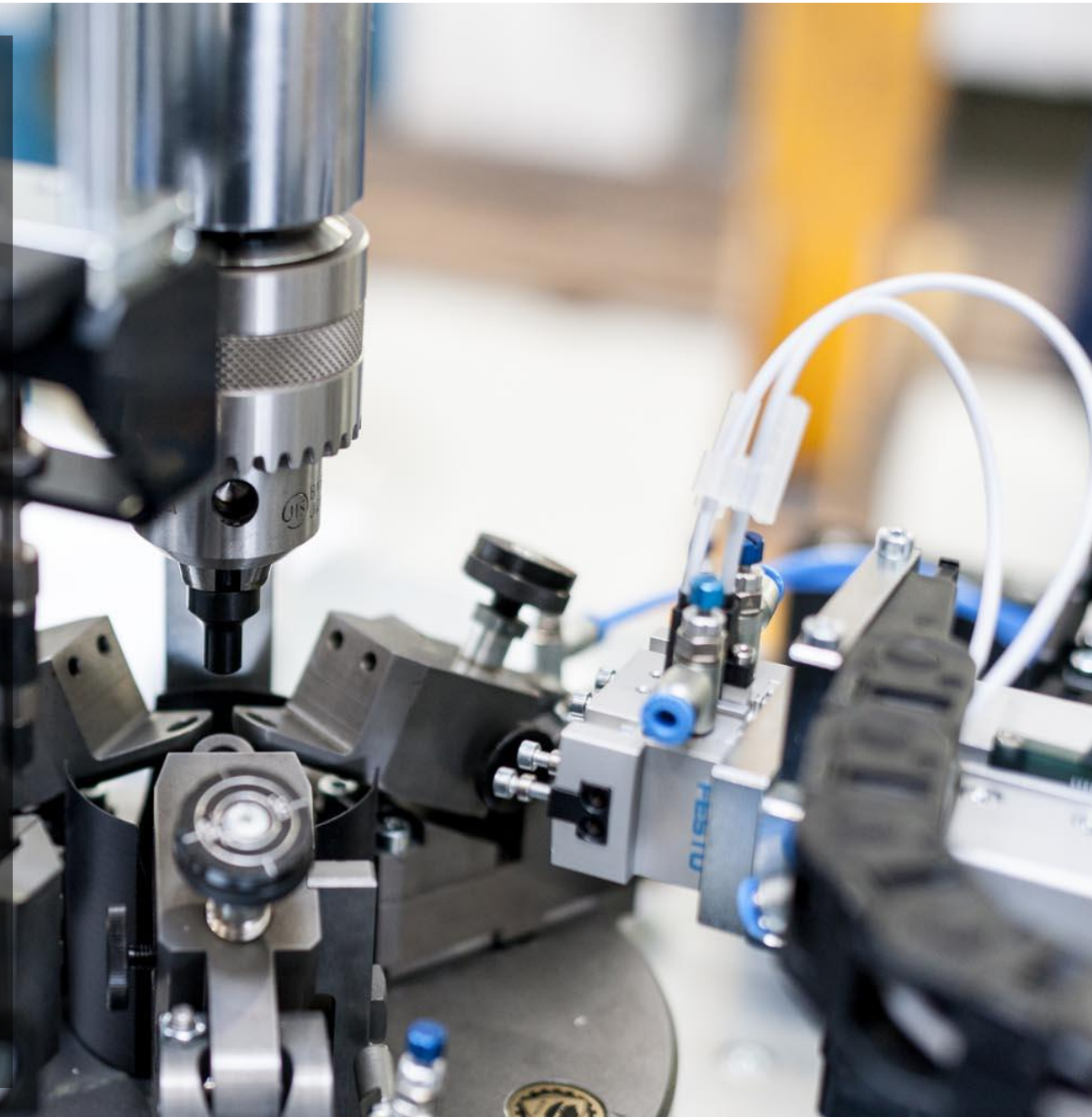
- 32 engineers (mechanical, mechatronic, electrical) – (40%)
- 12 people with secondary technical education
- 19 technicians (mechanic, electrician, machining)
- 17 office workers (financing, purchasing, marketing, IT, sales)

42 of our employees have an university degree. (52%)





- Hydraulic components
- Design, manufacturing and repair of hydraulic cylinders
- Hydraulic and mechanical service, diagnostics, maintenance, repair
- Design, manufacturing and repair of hydraulic power units
- Design, manufacturing and maintenance of custom purpose machines, production lines
- Industrial automation
- Overhauling, repair, maintenance of existing machines
- CNC machining: turning and milling
- Research and development





- Pumps
- Hydraulic motors
- Valves, manifolds
- Accumulators and accessories
- Coolers and heat exchangers
- Pressure gauges
- Filtration and sealing elements
- Hoses
- Fittings
- Hard chrome plated bars
- Control blocks
- Steel tubes
- Parts for hydraulic cylinders
- Parts for hydraulic power units





The value of our raw material stock is approx. EUR 1 million. Our partners can choose from more than 7.000 types of electrical, mechanical and commercial items or raw materials.



## Brands represented

**BUCHER**  
hydraulics

**HAWE**  
HYDRAULIK

**BERARMA**  
oleodinamica



**AHP MERKLE**  
BEWEGT

**asa** hydraulik

**OVAKO**

**CICROSA**  
HIDRAULICA

**EAT•N**  
*Powering Business Worldwide*

**FREUDENBERG**  
INNOVATING TOGETHER

**R+L HYDRAULICS**  
HYDRAULIC COMPONENTS BY TIMKEN

**MHA ZENTGRAF**  
FlowControl Technology

**EURO FLUID**  
HYDRAULIC

**Mitutoyo**

## Our partners

**rexroth**  
A Bosch Company

**Parker**

**exmar**

**rohrmertl**  
Stahlrohre

**Filtration Group**  
Making the World Safer, Healthier & More Productive

**BÜHLER**  
TECHNOLOGIES

**WSW**  
WÄLZLAGER

**FKB** GmbH

**SUN** hydraulics

**STAUFF**

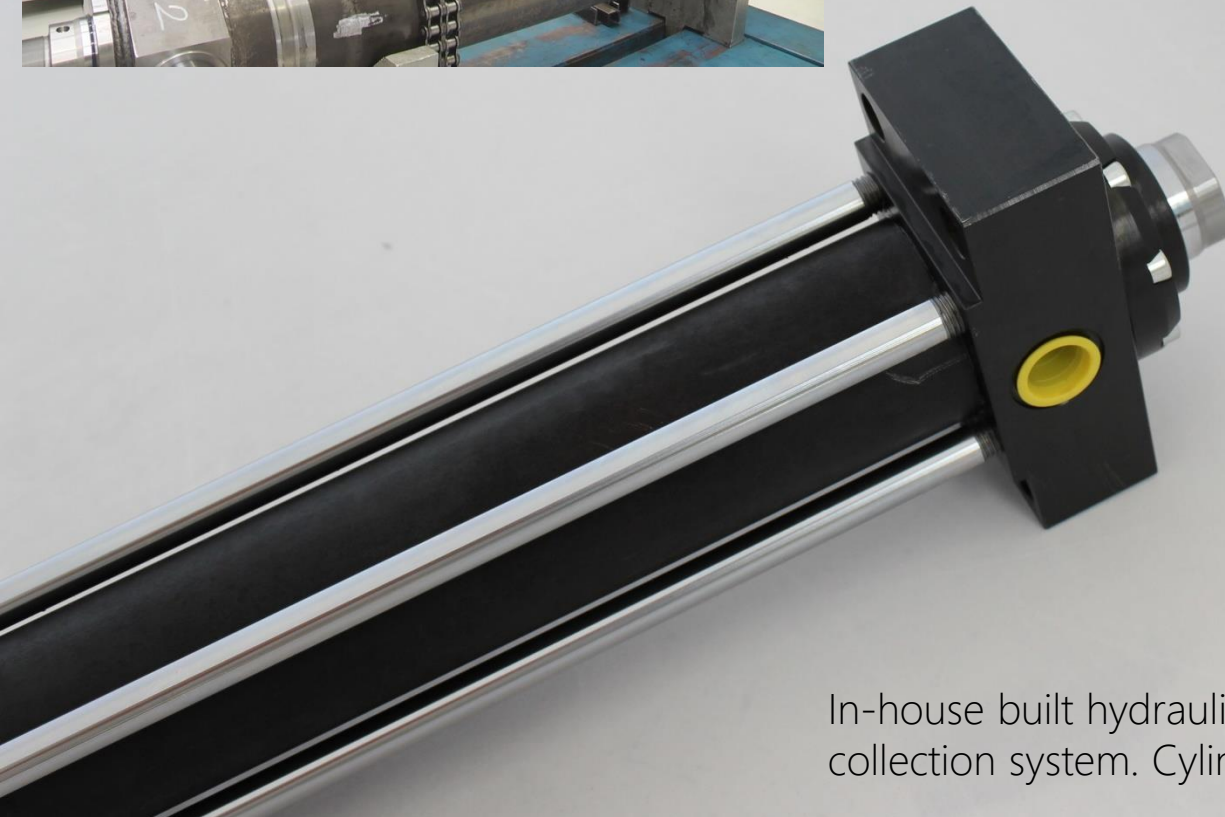
**OLEODINAMICA MARCHESINI**

**MAHLE**  
*Driven by performance*



- Design, development, manufacturing
- Service, diagnostics, maintenance, repair

Global cylinder management for companies:  
unique ID, lifetime tracking, development,  
documentation



In-house built hydraulic cylinder test machine with data collection system. Cylinders can be certified on demand.





### Field of use:

Hydraulic cylinder for waste compression

### Dimensions:

- Piston:  $D = 755$  mm
- Rod:  $d = 610$  mm
- Stroke:  $H = 2800$  mm
- Operating pressure: 200 bar
- Weight: 21 t



## Hydraulic cylinder overhaul: before and after

### Field of use:

60 t hydraulic cylinder for furnace tilting

### Dimensions:

- Piston:  $D = 300$  mm
- Rod:  $d = 260$  mm
- Stroke:  $H = 1600$  mm
- Operating pressure: 200 bar
- Weight: 3,5 t

- Design and manufacturing
- Custom and low volume production
- Diagnostics
- Maintenance, repair and overhaul
- Custom-engineered solutions





# Hydraulic power units in all sizes







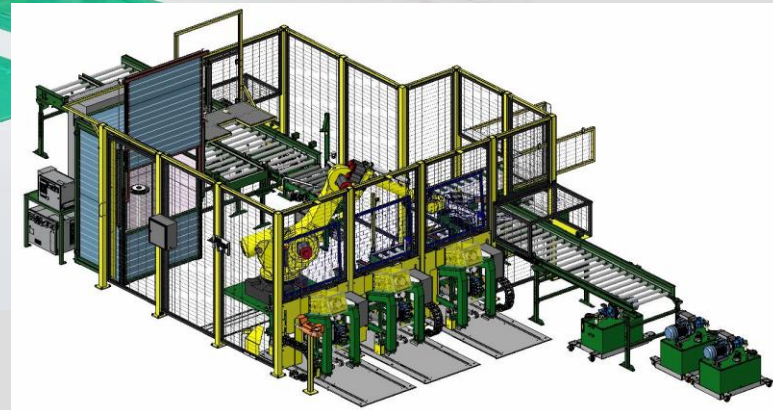




- Machines for all kinds of machinery
- Test machines
- Press machines
- Machines for final inspection
- Machines for assembling
- Clamping and fixing units, jigs
- Custom engineered machine components





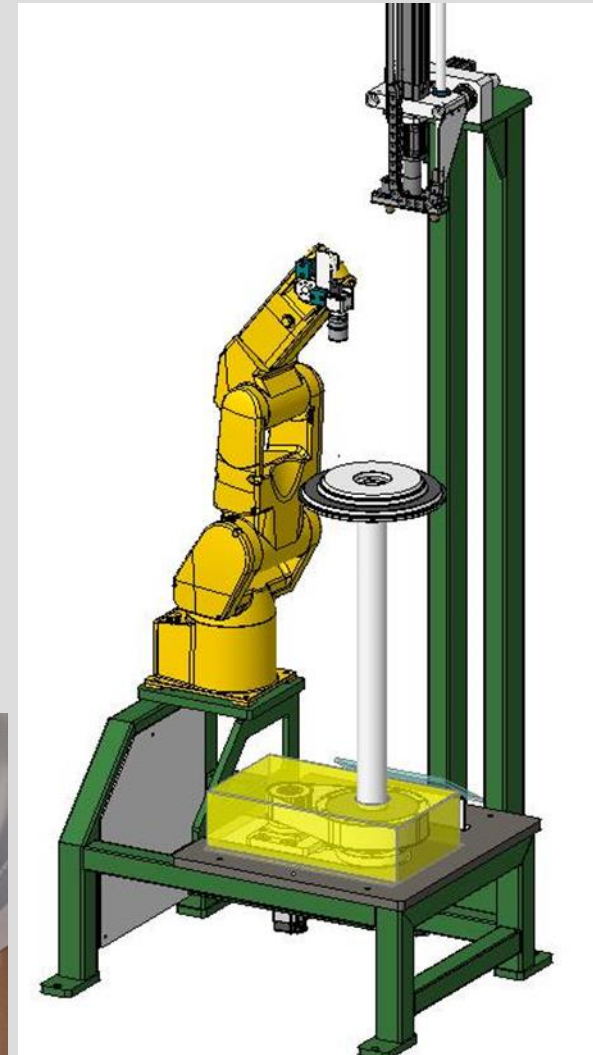
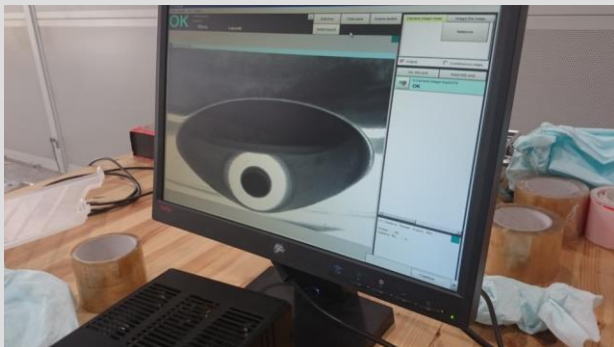


## Details:

- Visual inspection of embossed text
- Communicating with production control system
- Due to the wide range of products, the camera is positioned by the robot

## Field of use:

Automotive industry



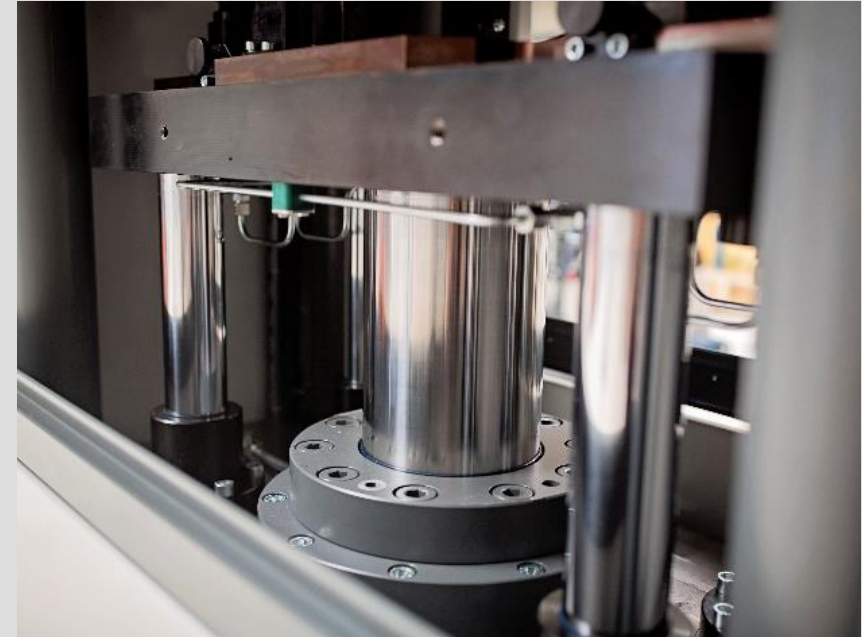


## 1500 kN crush test machine



### Field of use:

- Automotive industry
- Quality assurance lab



### Details:

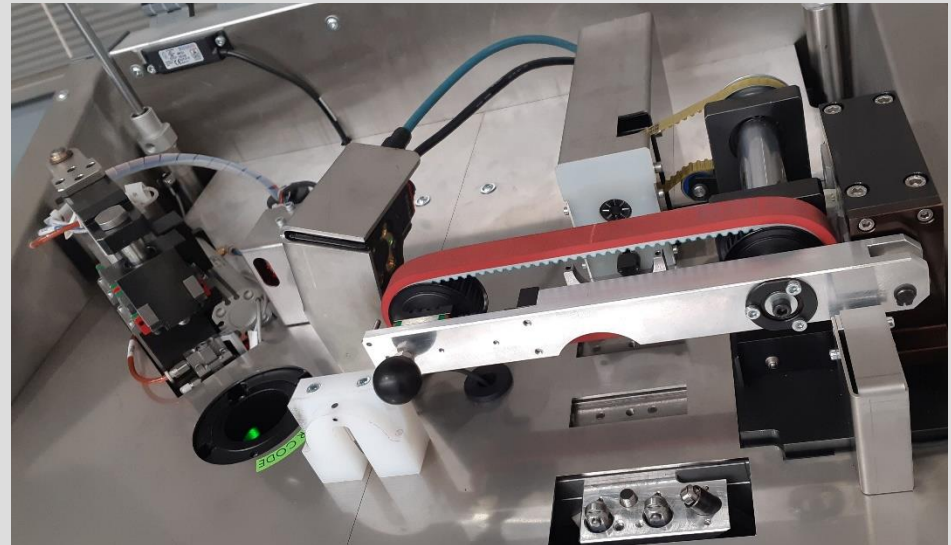
- 1500 kN pressing force
- VFD speed control
- Force-displacement graph, energy calculation and evaluation
- Data is being collected and written to customer's database



Field of use:  
Aerospace industry

- Details:
- Adjustable force, speed (rpm)
  - Automatic operation
  - Workpiece inspection (check) for every process
  - Quality issue detection





## Details:

- Custom designed and developed measuring equipment according to customer requirements
- In-process measurement for every single part
- High precision (3  $\mu\text{m}$ )
- Measuring, geometric checks



## Details:

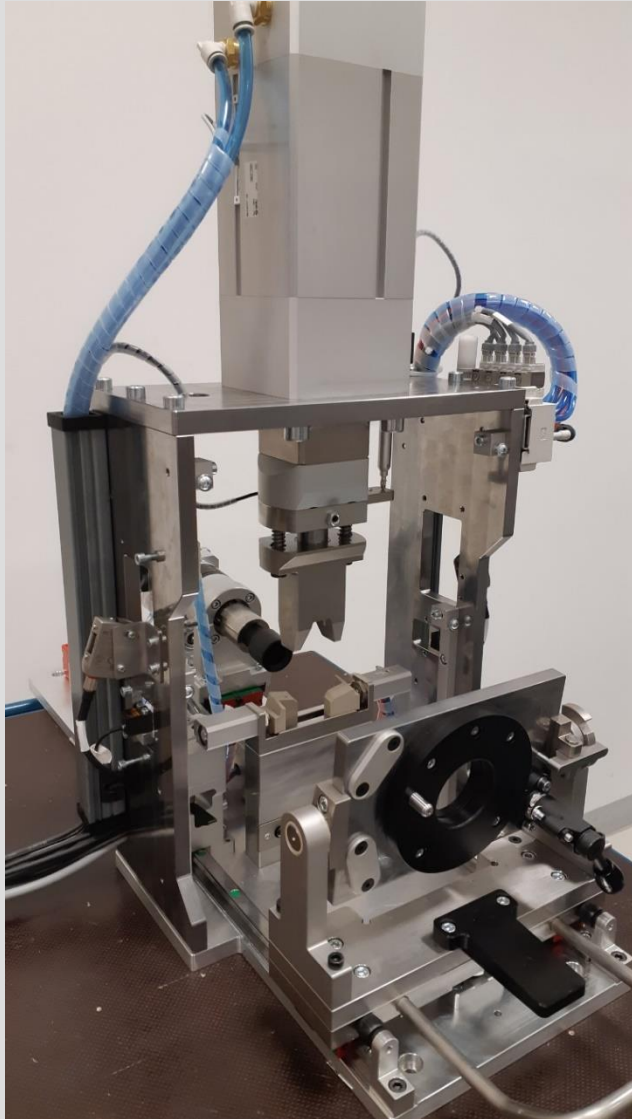
- Pipe fitting tightening using special tool bits
- Automatic operation
- Workpiece inspection (check) for every process
- Quality issue detection

## Field of use:

Automotive industry







## Details:

- Automatic pressing with force-displacement monitoring
- Torque check and axle positioning
- Workpiece inspection (check) for every process
- Quality issue detection

## Field of use:

Automotive industry





## Details:

- Automatic operation with manual loading
- Force-displacement measurement with visual checks
- Workpiece inspection (check) for every process
- Quality issue detection
- Communication with the production control system

## Field of use:

Automotive industry





## Details:

- $F=400$  kN
- Hydraulic operation
- Industrial PC
- Valve system for the rubber industry
- Special security requirements
- Technology-dependent machine

## Field of use:

Automotive / rubber industry





## Details:

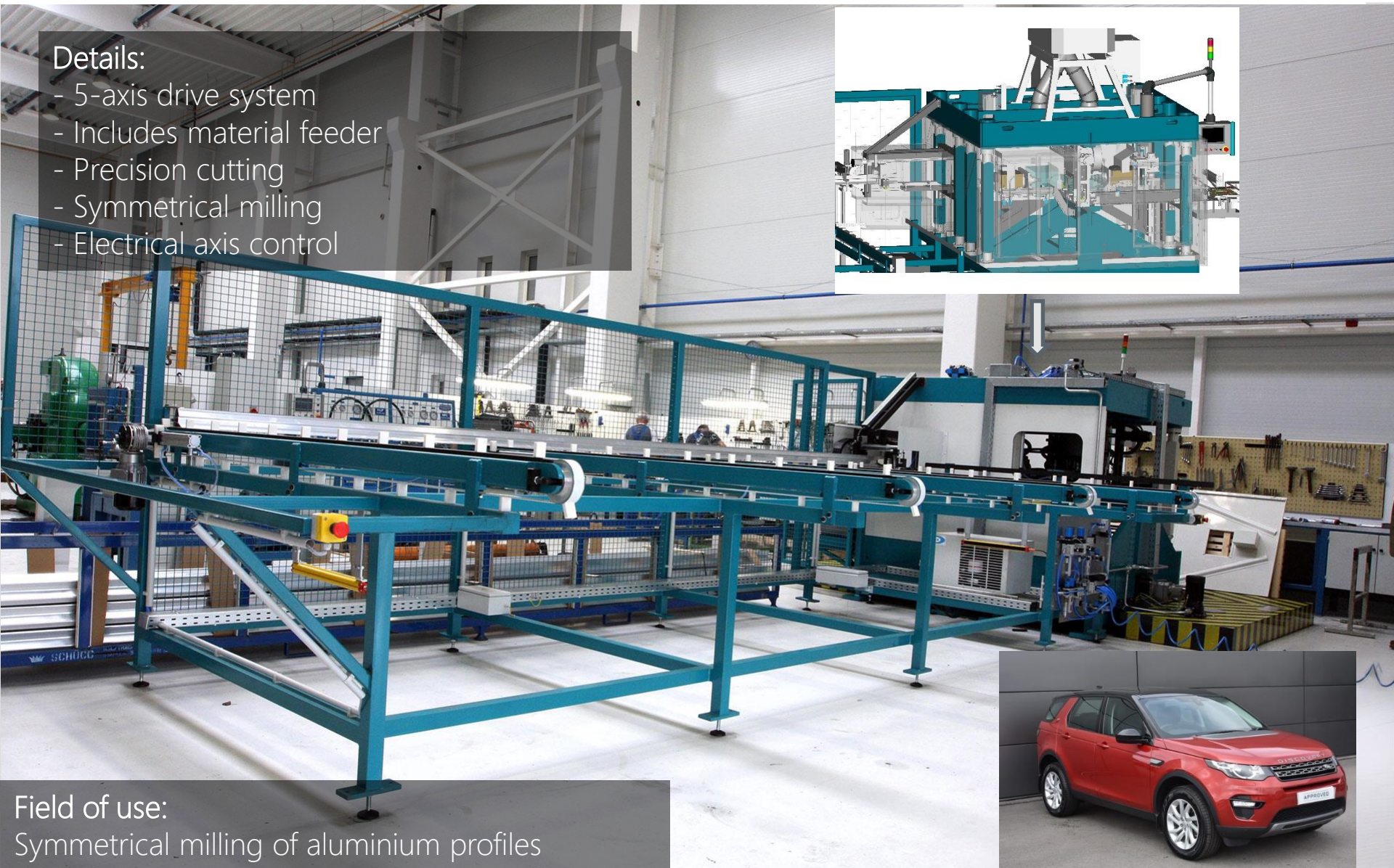
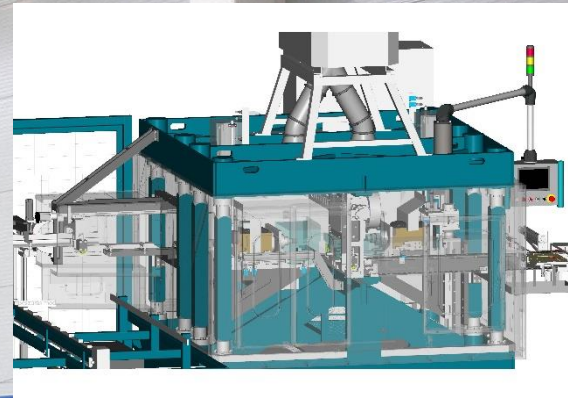
- $F = 1500 \text{ kN}$  (2x)
- complete solution: mechanical, electrical and technological execution
- joint development with customer



# Automatic aluminium profile cutting-milling machine

## Details:

- 5-axis drive system
- Includes material feeder
- Precision cutting
- Symmetrical milling
- Electrical axis control



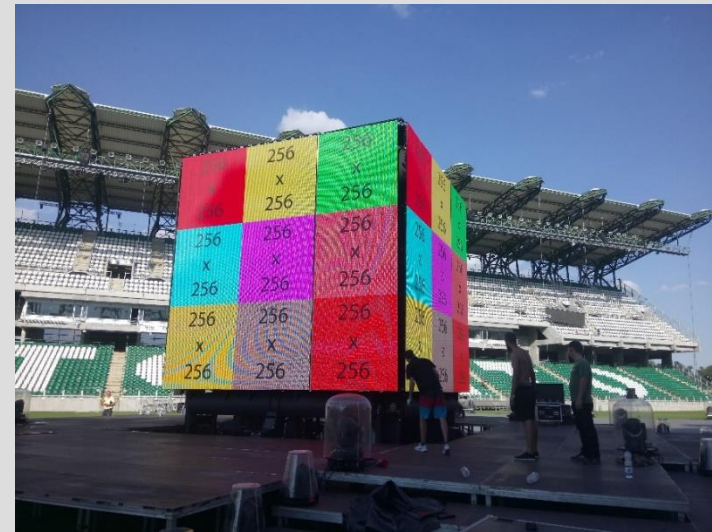
Field of use:  
Symmetrical milling of aluminium profiles











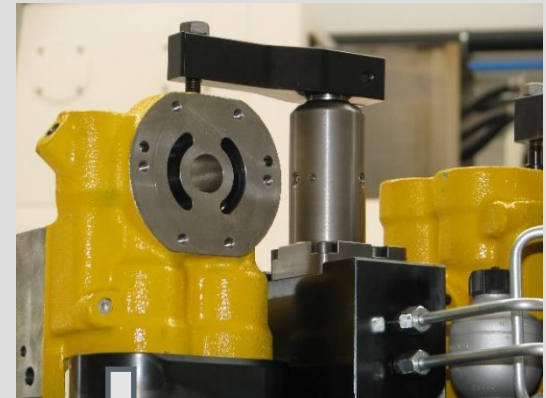
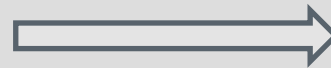
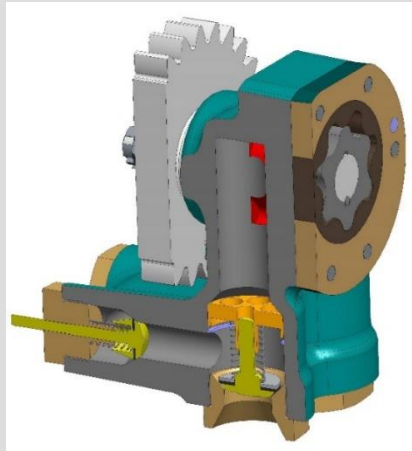


Design and development of additional equipment for production lines in cooperation with our partners.





## Development of axle lube fluid pump



Rotation: reversible  
Displacement: 26 cm<sup>3</sup> / rev.

- Hydraulic rectifier included
- Elaboration of assembly and final acceptance processes

Field of use:  
Agricultural machinery (lubrication of gears)





- CNC machining based on 2D/3D documentation or existing part
- CAD/CAM workflow
- Quality control using 3D coordinate measuring machine





## Wenzel LH 108 Coordinate Measuring Machine

Measuring range:

- X: 1000 mm; Y: 1600 mm; Z: 800 mm

Measurement accuracy:

-  $MPE_e = 1,8 + (L/350.0 \text{ mm}) \mu\text{m}$

Motorised indexing head:

- Renishaw PH10M

Software:

- Metrosoft CM 3.100







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Thank you for your attention!

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