Welcome to Direct-Line!



info@dldh.hu, www.dldh.hu

Introduction

1991

Founda–tion of Direct–Line Ltd.

1994

Becoming 100 % Hungarian owned

1996

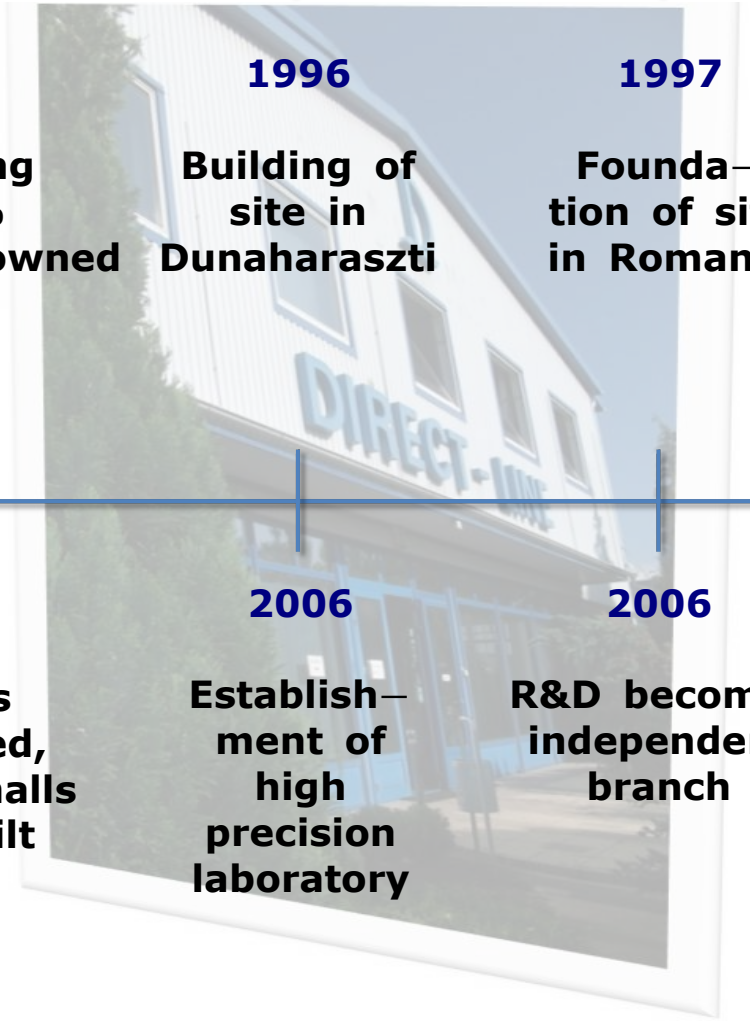
Building of site in Dunaharaszti

1997

Founda–tion of site in Romania

1998

Establishment of manufacturing branch



1998

1. ISO certificate

2002

Site is extended, further halls are built

2006

Establish–ment of high precision laboratory

2006

R&D becomes independent branch

2012

Establish affiliated laboratory of BME

Fields of activity

R&D

Product development

Technology development

Further R&D projects

Production



Trade

Trade of self-developed products

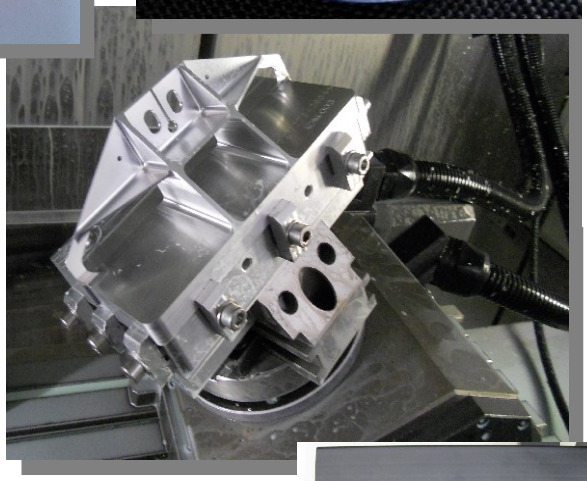
Trade of stainless steel raw materials

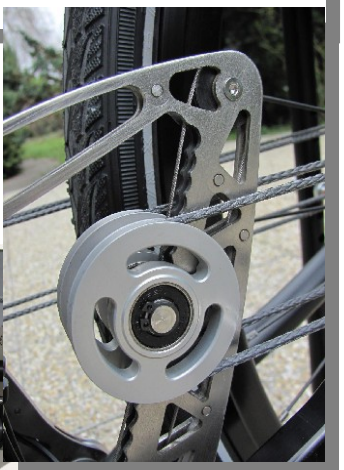
Our exclusive R&D partners

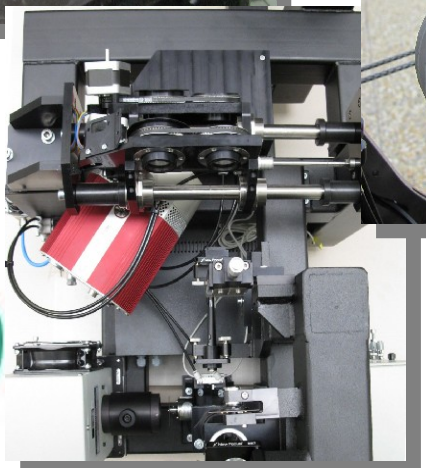
- *Gömböc*
- *CERN*
- *Admatis - ESA*
- *Fraunhofer Institute Aachen*
- *KFKI*
- *BME*
- *Schwinn Csepel: Stringbike*
- *etc.*









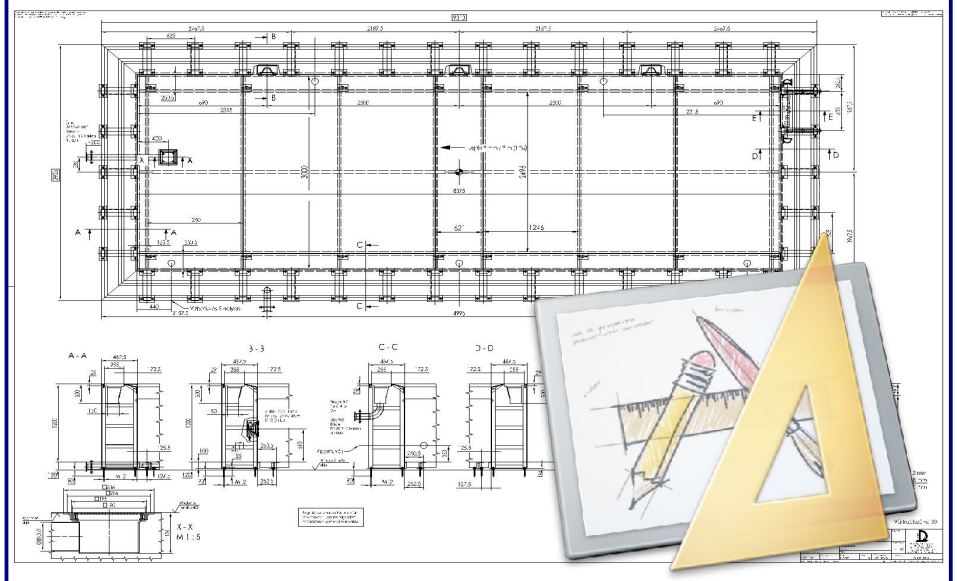


MŰEGYETEM 1782

effective automated safe integrated hard turning polishing TAP

Overall implementation

1. Design





2. Manufacturing

3. Installation







Industrial equipment

Stainless steel solar collectors



Sewage water equipments



Vacuum distillation system



Heat exchangers



Ventilation towers



Drainage devices



HaXSoN

HaXSoN: ***Hardware-XWindow-Software-Network***

Integrated hardware-software system, which arranges Xwindow based terminals into a network





Solar collector

- Material: stainless steel
- Unique manufacturing technology
- Flat collector, water film
- Several types of building in:
  - fixing on roof
  - mounted on a frame
  - sink to the wall
  - as projecting roof
  - filling element for railings

“Puritan” spraying machine













Operation

- Pressurizing the tank with car pump or compressor
- 6 bar pressure sprays out complete liquid amount
- Problems related to gas engine do not appear

Comfort

- Power source does not have to be carried
- Easy to handle
- Noiseless operation

Safety

- No risk of fire
- No moving parts endangering user

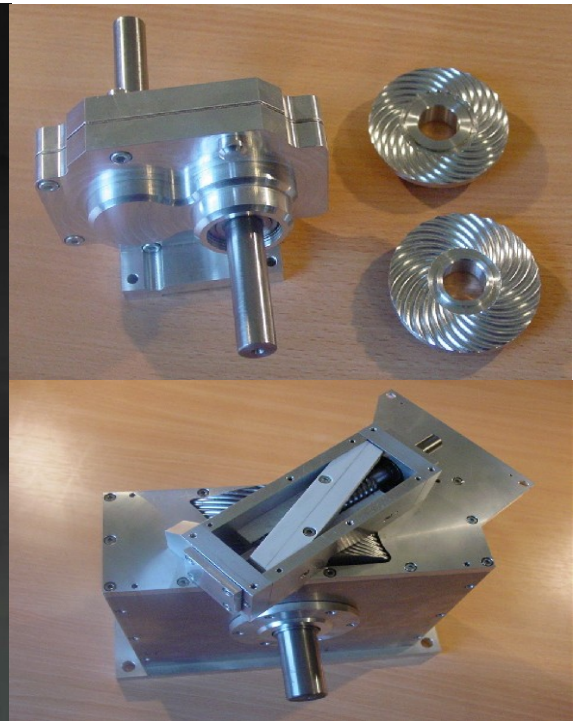
Long lifetime

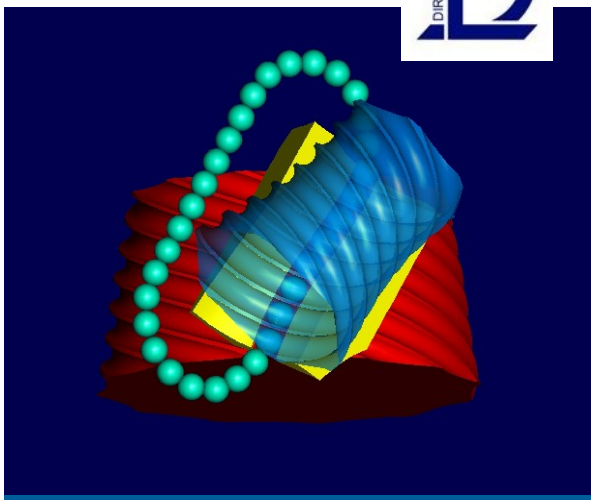
- Tank made of stainless steel, resists aggressive media
- No unnecessary and moving parts
- Auxiliary parts standardized, made of elastic polimer

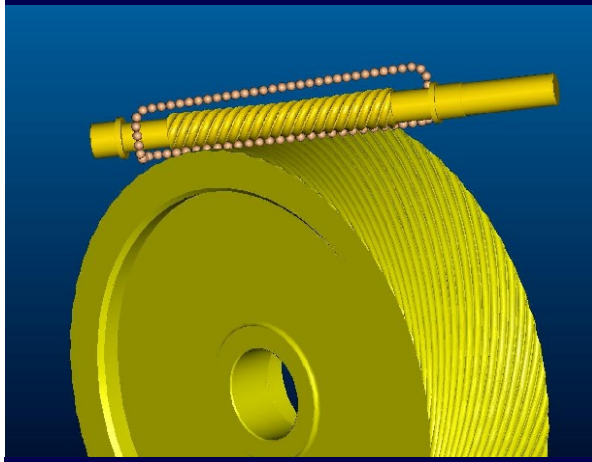
Roller gearing transmission

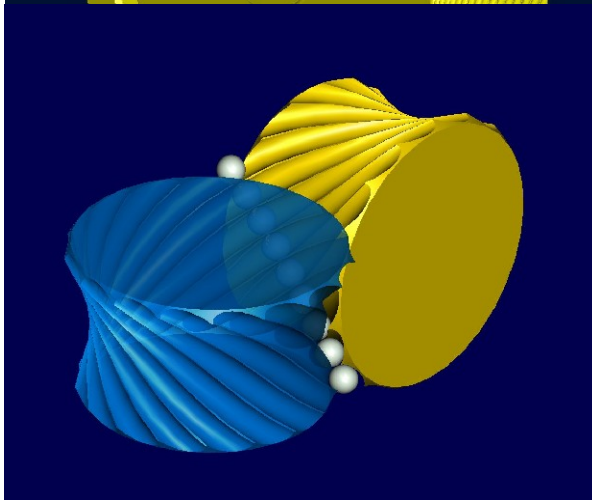
- *New driving machine element system*
- *Patented in 50 countries*
- *Driving and driven elements are connected via balls in slots with special, very complex geometry*
- *Small friction, small driving torque, high efficiency*
- *Arbitrary axis arrangement*
- *Economic production technology is in development*
- *Application: vehicle, aeronautical industry, CNC*









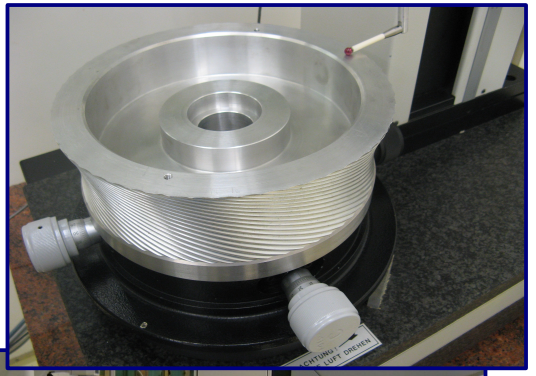


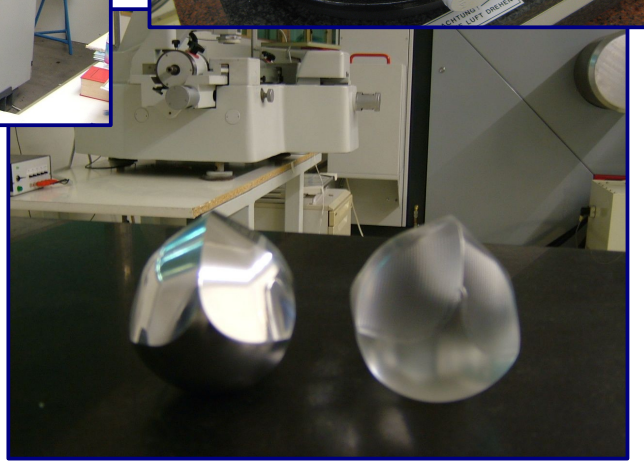
Chipping

Milling cutter with 5 axis (Fehlmann)

Parts with more complex geometry





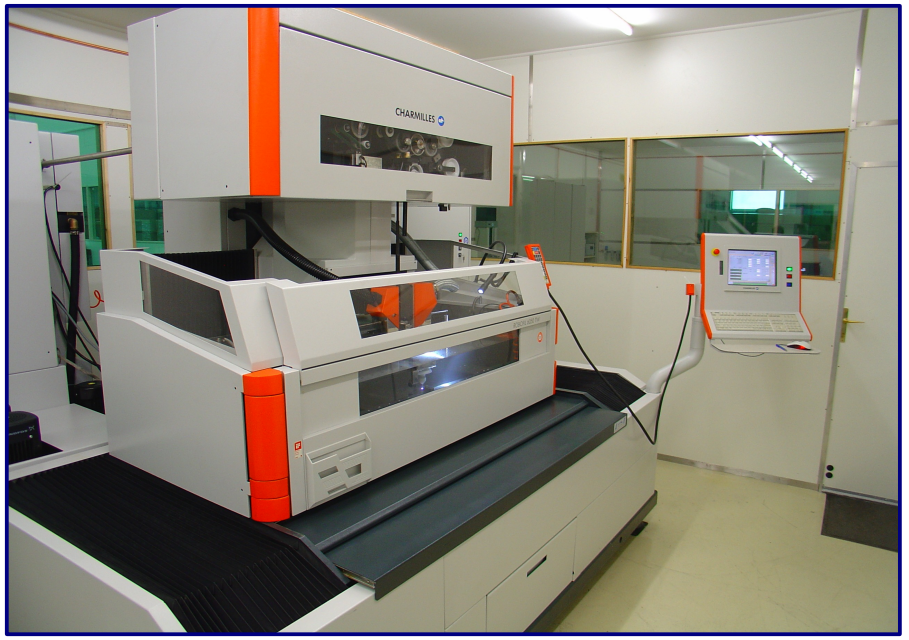


CNC lathe



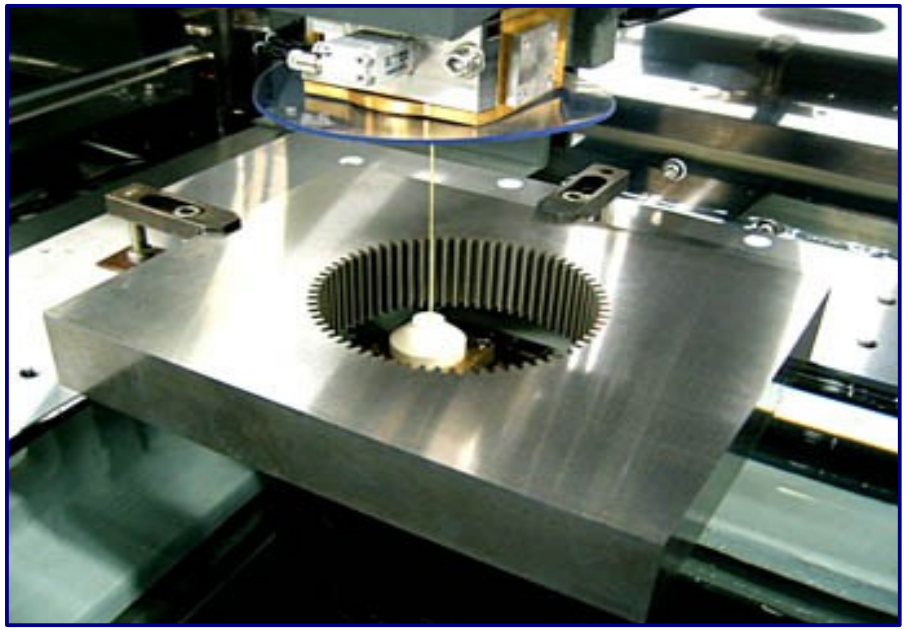


Wire EDM



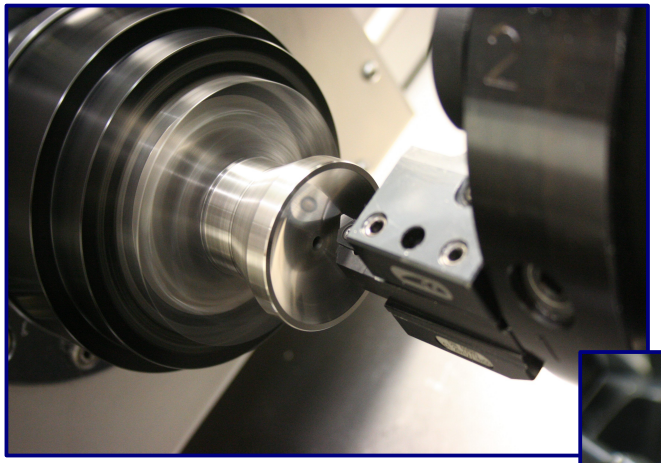


- *Meas. res.: 0.05 µm*
- *Thinnest wire: 25µm*

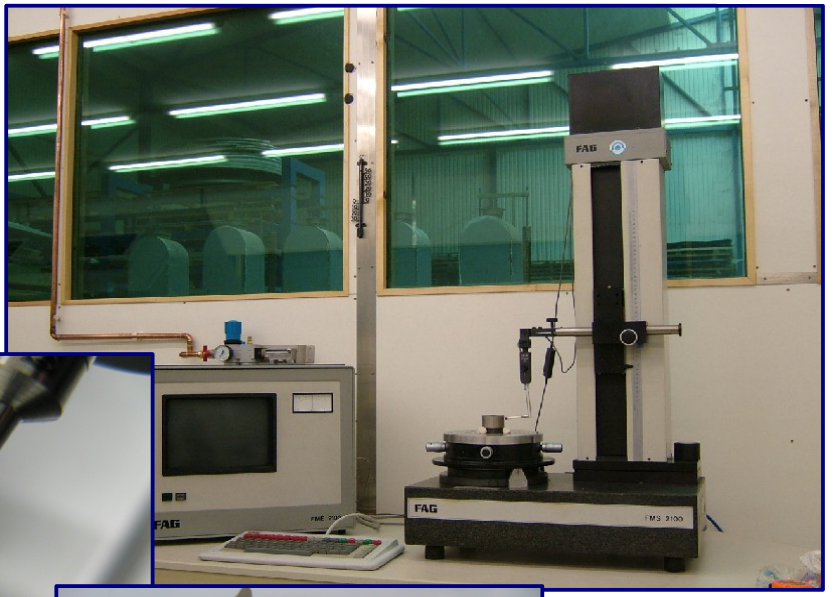


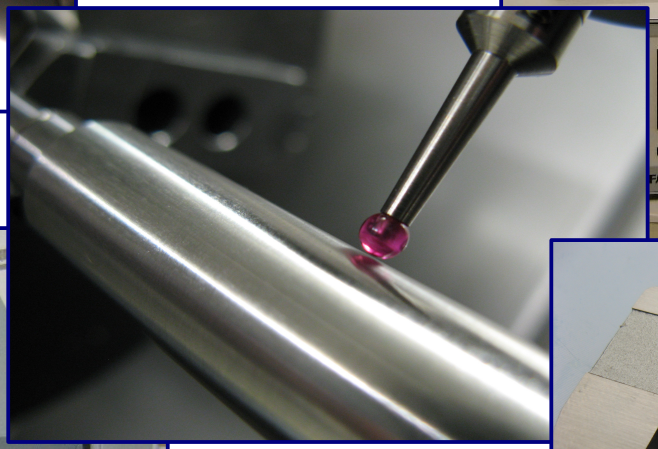


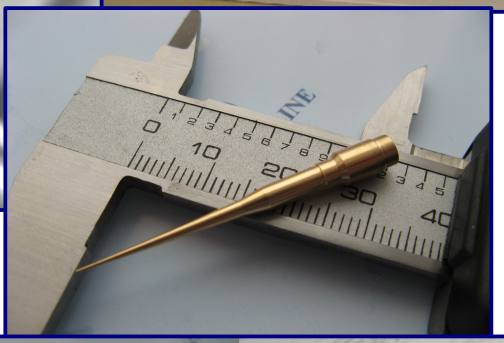
High precision machining

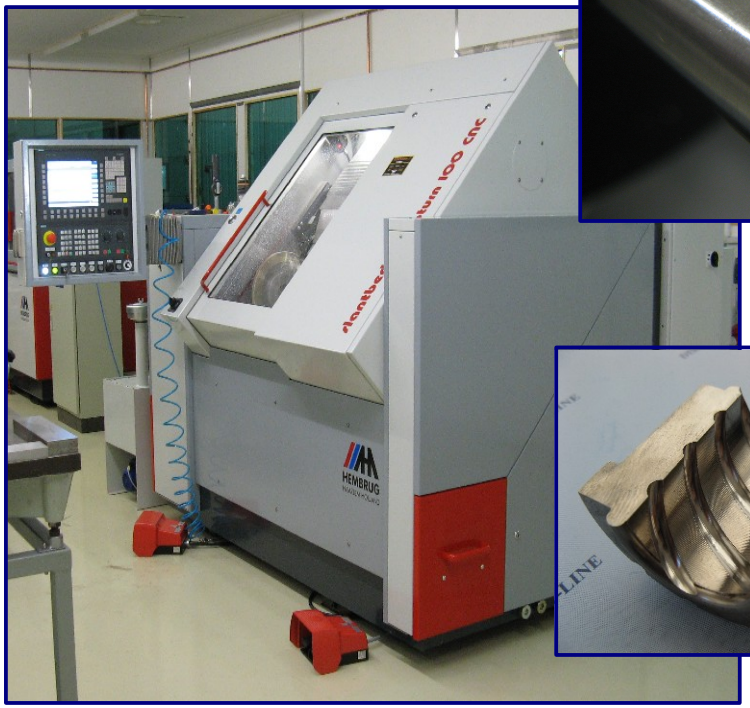


Accuracy:
0.01 µm







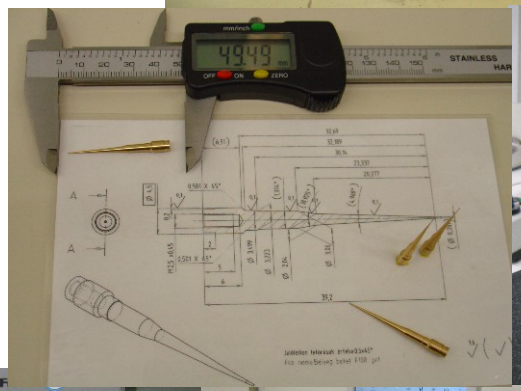


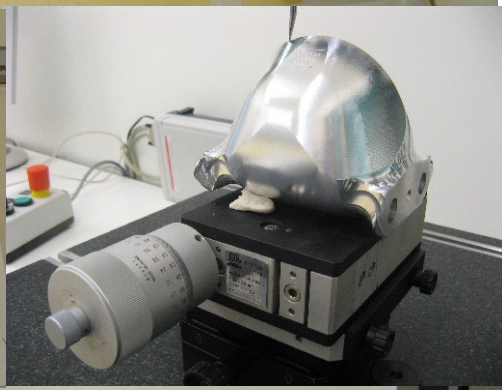


Measuring laboratory

- *FAG FMS 2100 roundness meas. equ.*
- *MAHR MarSurf CD120 profile meas. equ.*
- *Perthen Perthometer C5D roughness meas. dev.*
- *Zeiss measuring microscope*
- *Zeiss Abbe vertical optimeter*
- *Manual measuring equ., master gauges*

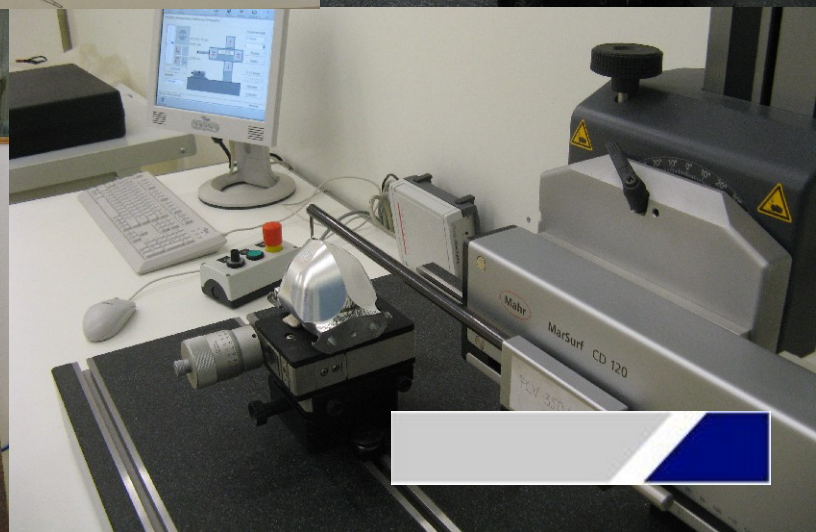












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