



Founded in 1976 as a one-man operation, Feinmechanik Ulrich Klein GmbH rapidly developed into a highly capable precision engineering company that employs more than 50 technicians and specialists in Velbert today.

While in earlier years individual parts were produced in small production runs, and also technical drives and small gearboxes, today one of the main fields of activity is the development and manufacture of manipulators for scanning electron microscopy.

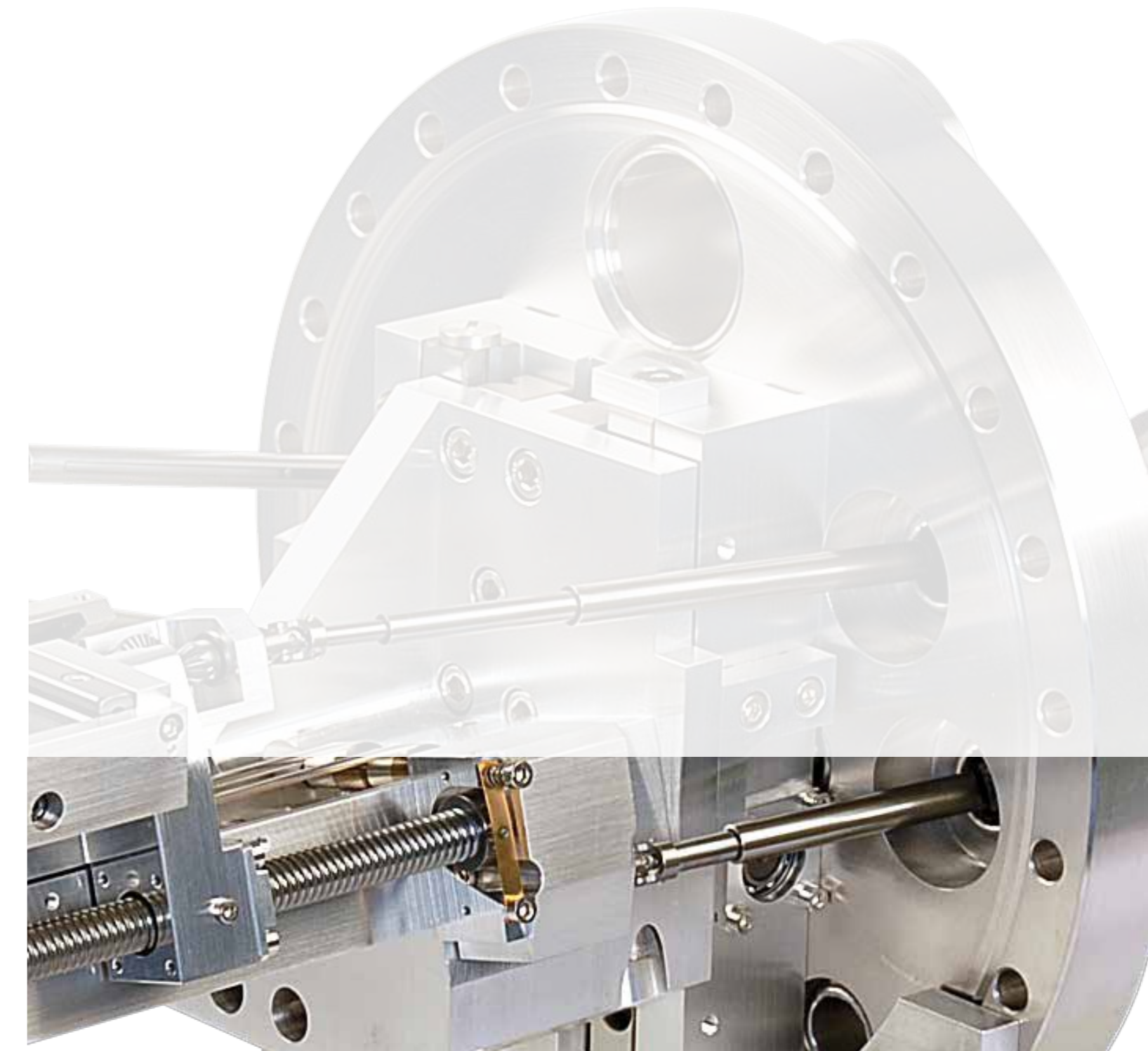
All the devices are developed and designed on CAD systems in our own design office to the specifications of the customer. Quality, innovation and precision have been part of our corporate philosophy for more than 35 years now and form the basis for the success of our products. What you will find here is an inventive spirit combined with perfect know-how and the very latest high-precision CNC technology.

Our customers include leading makers in scanning electron microscopy, materials testing institutes, universities, mechanical engineering and processing industries.

- Manipulators
Development, design and production on CAD systems for scanning electron microscopy, for example, which find application worldwide through our partner companies.
- Linear and cross tables
for all kinds of areas of application, either standard items or made to order, for example as a measuring table and/or handling system.
- CNC parts production
on machining centres and CNC turning, milling and gear-cutting machines.
- Technical drives
- Linear drives up to 10 kN

We solve (your) problems – without any problem!

Feinmechanik Ulrich Klein GmbH



Fine mechanics in precision



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Gear wheels / CNC turned and CNC milled parts



Toothed belt wheels - various pitches up to \varnothing 100 mm
Gear wheels up to module 1.5 resp. \varnothing 100 mm



Worm gears and worm wheels up to module 1.5 resp. \varnothing 100 mm



Spur wheels, gear sets, etc. up to module 1.5 resp. \varnothing 100 mm

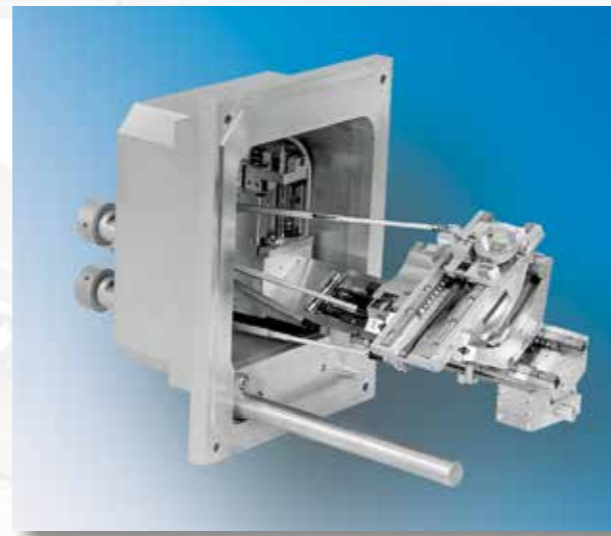
Manipulators



5-axes-manipulator for scanning electron microscopes SEM



Module for heating- and tensile tests assembled on top of a 5-axes-manipulator for SEM



Manipulator for scanning electron microscopes SEM



5-axes-manipulator for scanning electron microscopes SEM (X-, Y- and R-axes driven by Piezo-motors)



High-precision probe scanner / manipulator
X- and Y-axes = 130 mm travel, Z-axis = 40 mm travel



5-axes-manipulator for UHV-applications

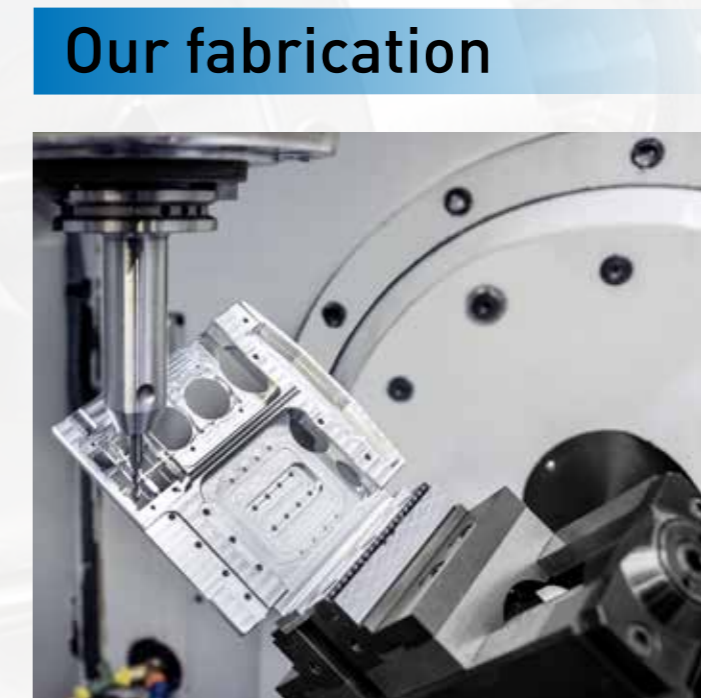
Linear and cross tables



Cross table with locking screws, roller bearings



Cross table with height alignment, roller bearings



Cross table with micrometer screws, roller bearings

Accessories for manipulators



Airlock for samples up to 200 mm / 8 inches



UHV-rotary-feedthroughs with handwheel and 4-digit position meter, motor-flange available

Linear actuators



Linear actuators up to 10 kN

