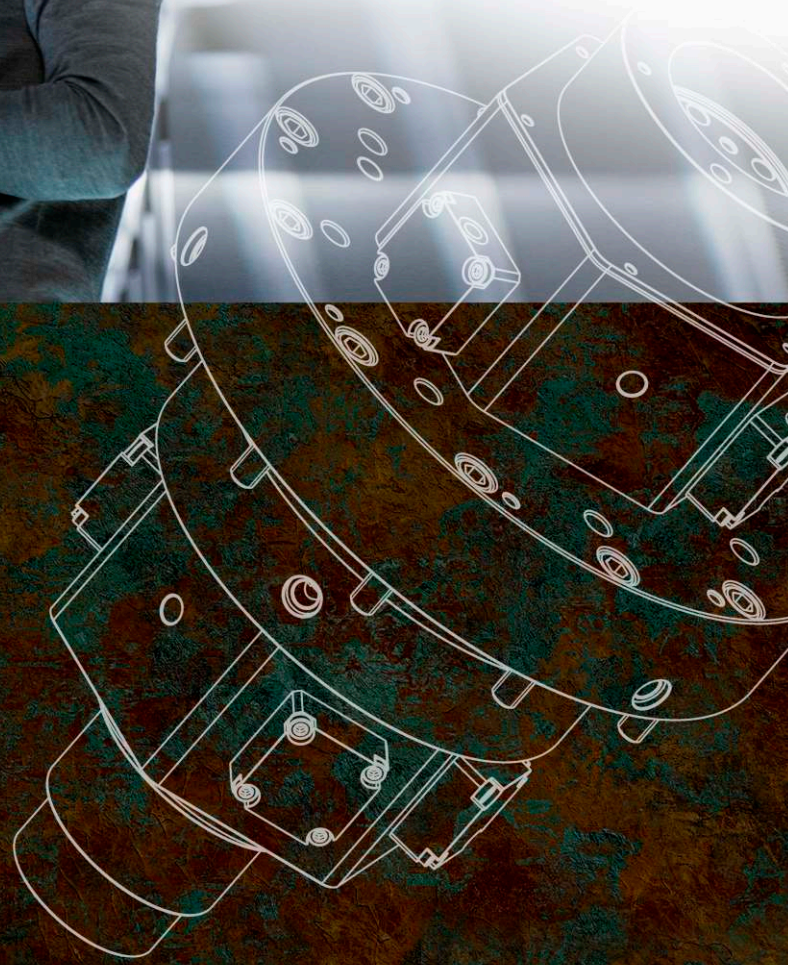




**LT**ULTRA  
OUR PROFESSION IS PRECISION



YOU WANT TO PRODUCE  
SPECIAL, ULTRA-PRECISE PARTS

WE'LL BUILD THE CORRESPONDING  
ULTRA-PRECISION MACHINE

**CUSTOM**ized

ULTRA-PRECISE MACHINING SOLUTIONS TAYLORED TO YOUR NEEDS  
TURNING | MILLING | PLANING | GRINDING | POLISHING | MEASURING

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# CUSTOMized

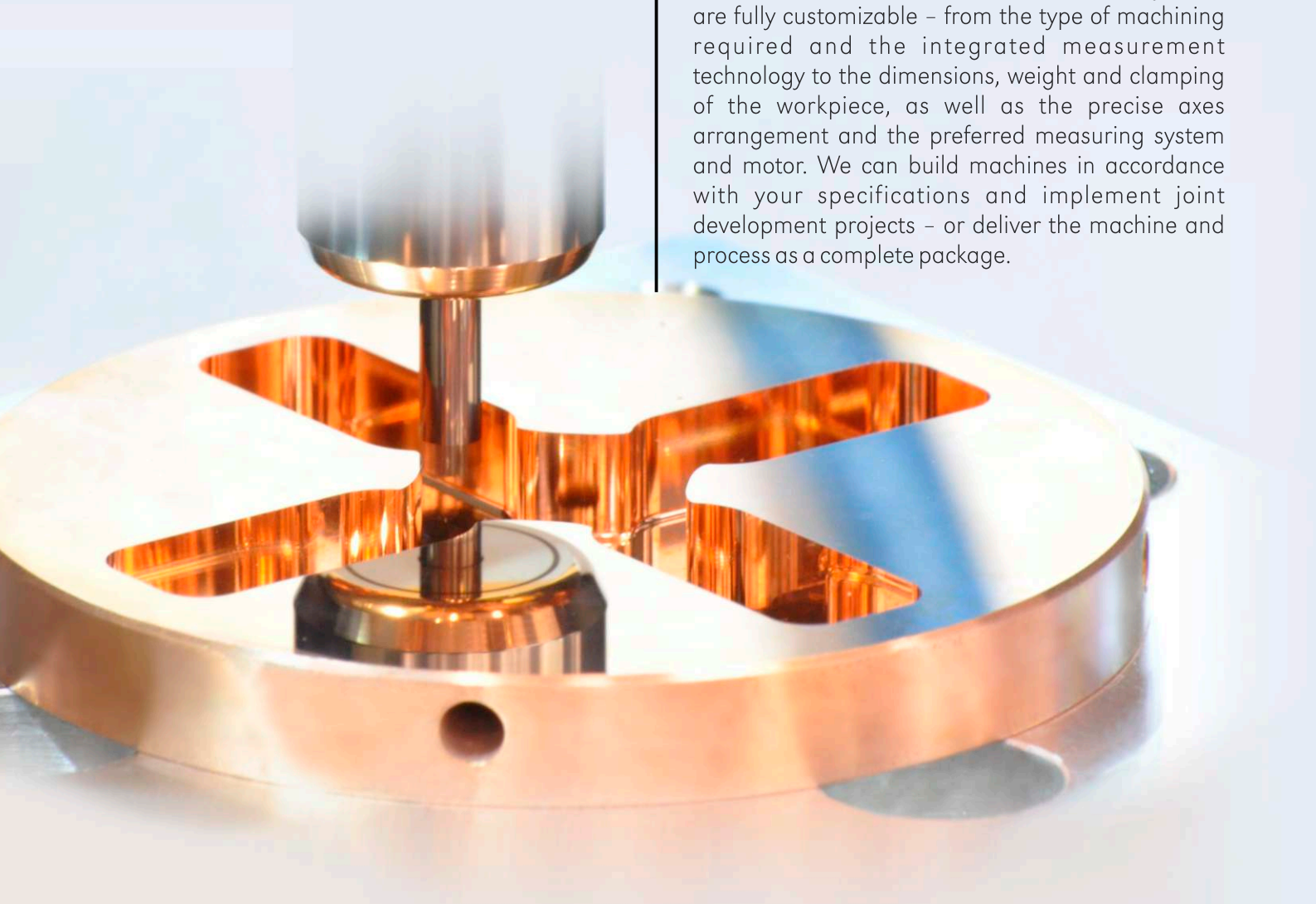
TURNING  
MILLING  
PLANING  
GRINDING  
POLISHING  
MEASURING

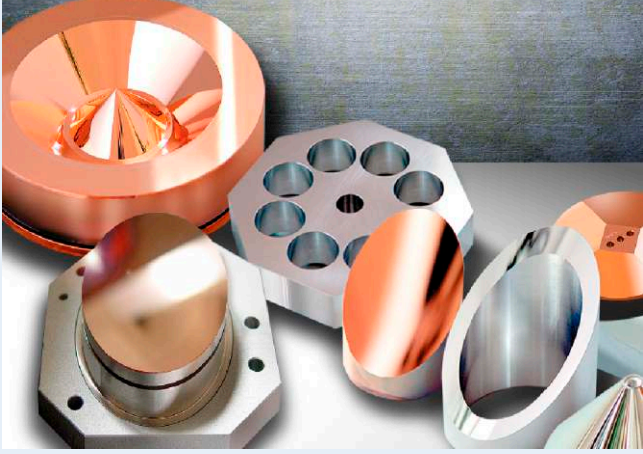
CONSULTING  
PROJECT PLANNING  
PROCESS DESIGN  
CONCEPT  
DESIGN  
SETUP  
COMMISSIONING

**CUSTOMized** solutions from LT ULTRA

Ultra-precise machining solutions tailored to your needs

Ultra-precision processes often require individual solutions to reach their full potential. Our systems are fully customizable - from the type of machining required and the integrated measurement technology to the dimensions, weight and clamping of the workpiece, as well as the precise axes arrangement and the preferred measuring system and motor. We can build machines in accordance with your specifications and implement joint development projects - or deliver the machine and process as a complete package.





**LTULTRA**  
OUR PROFESSION IS PRECISION

**The recipe:** customer-specific solutions developed in a short time frame and in close collaboration

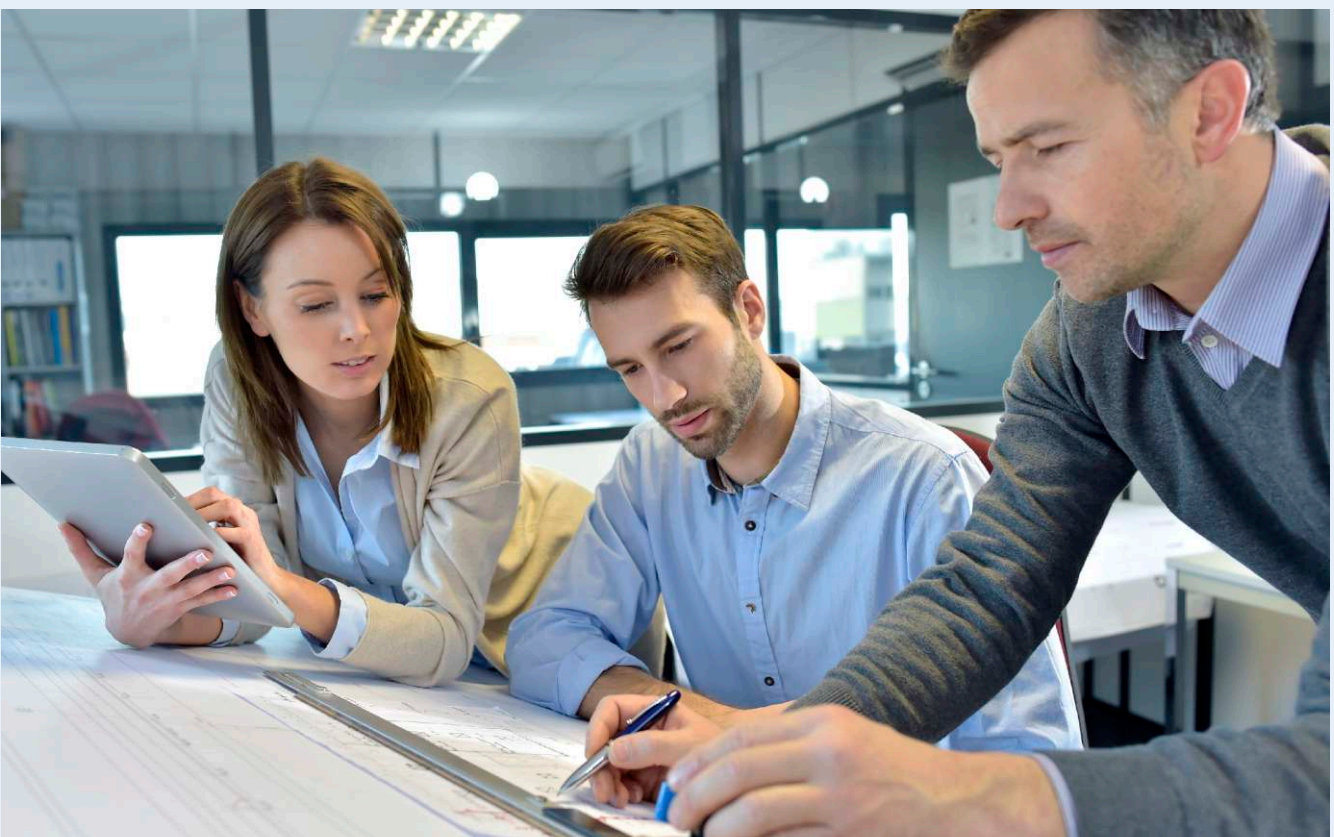
**The ingredients:** granite, air/oil bearings, precision drives, high-resolution scales, software, automation

With **CUSTOMized** solutions from LT-Ultra, you not only receive the highest quality ultra-precision machines, but also the ability to use custom solutions to harness new processes, increase quality, and improve the efficiency of your machining operations. From a variety of proven partial solutions, we can assemble a complete package – or develop a new machine entirely from scratch as required. We draw on our many years of experience in order to secure competitive advantages for our customers.

**CUSTOMized** does not end with commissioning of the machine. Instead, it also means ongoing support and assistance with expansions or conversions, as well as various services and consulting.

Special-purpose machines are our specialty. We can adapt our standard machines to your needs within a short time frame – or develop and build completely new machines for your application.

**The result:** the optimum solution for the production of your parts – with roughness values and precision in the nanometer range.



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## CUSTOMized

ULTRA-PRECISE MACHINING SOLUTIONS TAYLORED TO YOUR NEEDS  
TURNING | MILLING | PLANING | GRINDING | POLISHING | MEASURING

### Technical data:

Control system:	Programming resolution < 1 nm, 256 axes, short cycle times
Bearing types:	Hydrostatic (oil)/aerostatic/mechanical precision bearings
Drives:	Linear/torque motor, spindle drives, piezo drives, belt drives...
Travel paths:	From a few microns to several meters
Measuring systems:	Resolutions down to the picometer range
On the workpiece:	Dimensional accuracies of < 100 nm PV, roughness values of < 1 nm Ra

### Popular options:

Tool/workpiece changer, tool measurement, process monitoring, in-line measurement technology (optical, tactile), minimum-quantity lubrication systems, chip suction, precision temperature control, multiple machining processes in one coordinate system, FTA (FastToolAxis), balancing solutions