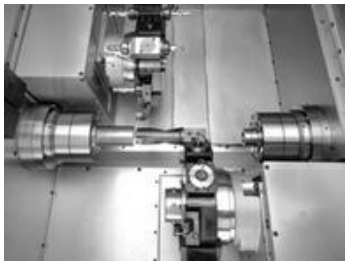
CNC Lathing
CNC Milling

Max Auer Propr. Lorenz Forster e.K.
CNC Machining / CNC Lathing / CNC Milling

Using the latest CNC technology, such as 1-spindle or 6-spindle machining centers we run three shifts to produce simple as well as highly complex ready-to-install precision lathed parts and milled parts according to customer drawings or prototypes in small or large quantities.

CNC lathing



- ✓ Processing of rods from 1.5 to 65 mm in diametre
- ✓ Parts up to 2000 mm in length on multi-axis machining centres
- ✓ Processing of collet-held workpieces up to 250 mm in diametre

CNC milling

- ✓ CNC milled parts on machines with 3 - 5 axes
- ✓ Mounting size of up to 630 mm
- ✓ Automated pallet change for highest productivity

Materials

We process all machinable material such as

- ✓ Steel
- ✓ Stainless steel
- ✓ Aluminum
- ✓ Non-ferrous metals
- ✓ Titanium
- ✓ Plastics

Production runs

- ✓ Runs from 100 pieces to mass production
- ✓ Individual pieces,
- ✓ prototypes

Grinding and Honing
Cold Roll Forming
Thread Rolling

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Our production range is completed by

Centreless grinding

for fine machining e.g. bolts and shafts

- ✓ Diametres from 1.5 to 60 mm
- ✓ Lengths up to 800 mm per pass or entry

CNC internal grinding

- ✓ Diametres from 8 to 120 mm

CNC external grinding

- ✓ Diametres from 6 to 150 mm
- ✓ Lengths up to 600 mm

Honing

Our honing processes achieve highest precision of measurements and shapes.

Precision saw cutting

- ✓ Precision saw cutting equipment to achieve flat, square, smooth surfaces of most metals
- ✓ Materials: steel, stainless steel, aluminum, non-ferrous metals, titanium, plastics
- ✓ Sawing up to a width of 400 mm

Thread rolling

We manufacture all standard and non-standard threads

- ✓ Plunge-cut rolling of M2 through M30 with a length of up to 60 mm
- ✓ Through-feed rolling of M3 through M16 with a length of up to 1,500 mm

Cold roll forming

Cold roll forming is a process of applying contours, knurls, sprockets etc. onto any machinable material.
Our production ranges

- ✓ Up to a diametre of 30 mm
- ✓ Up to a length of 1,500 mm

Tool / Prototype Building
Surface Finishing
Heat Treatment

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Tool and prototype building are also part of our services as is the surface finishing and heat treatment of lathed and milled parts.

Tool building and building of general equipment

We use manually and CNC controlled tooling machines to make complex tools for use in a variety of manufacturing processes. Our tools are used for the most cost effective and fast production of mass items in our manufacturing process.

Prototype building

Production of lathed prototypes and milled prototypes or small quantities

Surface finishing

Our range of services:

- ✓ Zinc coating (also Cr6-free)
- ✓ Nickel coating
- ✓ Electroless nickel plating
- ✓ Browning / bonderizing
- ✓ Chrome-plating

Heat Treatment

Our range of services:

- ✓ Tempering and hardening
- ✓ Hardening and case hardening
- ✓ Soft annealing
- ✓ Stress relief annealing
- ✓ Tempering

Surface finishing and heat treatment are supplied by our long-term, quality-certified partner, who is subject to our own QM system.

TIG Welding
EB Welding

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We offer the latest welding technology, self-evident with documentation according to customer specifications.

TIG welding
Welding of steel, stainless steel and cobalt alloys
Production runs: from prototypes to small series

TIG welding inside a shielding gas chamber
Welding of steel, stainless steel, cobalt and titanium alloys
Chamber size: Ø 500 mm by 1,100 mm
Workable area: L 500 mm by W 400 mm by H 200 mm
Production runs: from prototypes to small series

TIG-Welding on the horizontal rotary table
Welding of steel, stainless steel, cobalt and titanium alloys
Maximum length of workpiece: 900 mm
Maximum diametre of workpiece: 900 mm
Production runs: from prototypes to small series

Electronic beam welding
High vacuum welding for the cleanest possible weld seam, esp. for reactive metals such as titanium, niobium and stainless steel used e.g. in medical technology, precision engineering and research

Machine type: Leybold EBW 700/7,5-60 CNC U:60KV

Chamber size: 1,100 mm in length, 750 mm in width

Maximum height of workpiece: 600 mm
Workable area: 430 mm by 230 mm
Welding depth: up to 20 mm, depending on material and geometry of the workpiece

Production runs: from prototypes to small series

Quality Management

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Max Auer is certified according to **DIN EN ISO 9001** and committed to the **protection of the environment**.

We garantee **highest quality** through

- ✓ Permanent monitoring of the production process at each stage and in-process gauging
- ✓ Continuous process improvement
- ✓ Process stability analysis
- ✓ Statistical process monitoring
- ✓ Using advanced measurement technology
- ✓ Error analysis
- ✓ Application of the 8D-method
- ✓ Regular staff training to meet customer requirements
- ✓ Involvement of contractors in the QM system

Customer satisfaction through

- ✓ Flexible terms of delivery
- ✓ Production planning to accommodate customer requests at short notice
- ✓ Provisions for meeting customer requests for specific quality standards
- ✓ Support our customers in the design process
- ✓ Provision of product-specific information

and **delivery reliability** through

- ✓ Stock holding to ensure our ability to deliver
- ✓ Production control through the Kanban system
- ✓ Just-in-time delivery
- ✓ EDP based MRP system

Zertifiziertes Management-System
ZDH ZERT
DIN EN ISO 9001
Reg.-Nr.: Q1 0407008

For the highest quality and delivery reliability

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Max Auer – your address for
- ✓ Highly complex, ready-to-install CNC lathed and milled parts from all machinable material
- ✓ Surface finishing, heat treatment
- ✓ Tool and prototype building
- ✓ grinding, honing, thread rolling, cold roll forming
- ✓ The latest in welding technology: EB / TIG welding
- ✓ the realization of your product idea: from technical drawing to a marketable product

We are on the market since 1920 and offer
- ✓ Decades of experience
- ✓ Certification according to DIN ISO 9001:2008
- ✓ Environmentally friendly manufacture
- ✓ Data exchange via EDI (VDA bidirectional)
- ✓ Integration into the control of your production process following the Kanban system or just-in-time delivery
- ✓ Two production sites in Germany (Berlin, Hanover)
- ✓ Global deliveries to our international customers in Europe, China, India or Brazil

We are focused on the following sectors
- ✓ Automotive, automotive component industry, aviation and aerospace industry
- ✓ Mechanical and electrical engineering
- ✓ Medical technology (according to EU Guideline 93/42/EEC and the GMPA, clean room class D)
- ✓ Jewellery industry

Challenge us · We are here for you!

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