

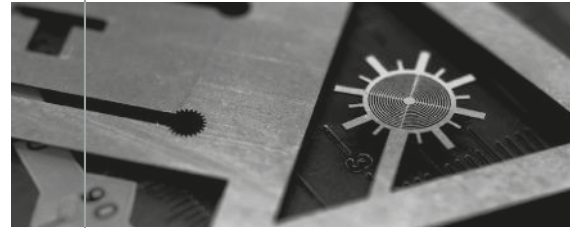


MACHINE INSTALLATION, SERVICES & TECHNOLOGIES

OUR LASER FINEBLANKING CENTERS

- Sheet thicknesses 0.03 - 3.0 mm
- Max. dimensions 780 x 500 mm
- Perfect for all metallic materials
- Lower thermal impact due to pulsed Nd-YAG, fiber laser sources
- Spot diameter < 25 µm
- From 80W - 3,000W average power
- Perfect for quantities 1 - 500,000

Possible tolerances according to sheet thickness t	
t < 0,5 mm	± 0,01 mm
t > 0,5 mm	± 0,02 mm
t > 1,25 mm	± 0,03 mm



MICRO WATERJET CUTTING

- No material limitation, sandwich composite possible
- Travel distances 750 x 600 mm
- Material thicknesses from 0.1 mm - 10 mm
- Tolerances of +/-0.03 mm possible
- Cold cut: no structural change
- Beam diameter from 0.3 mm
- Biocompatible for medical technology



BENDING & FORMING TECHNOLOGY

- CNC precision swivel bending up to 500mm
- Toggle presses up to 2.2 tons
- Pneumatic presses up to 20 tons
- Hydraulic presses up to 40 tons
- Tolerances according to DIN ISO 2768 mK finer by arrangement

PUNCHING TECHNOLOGY

- 40 t - Press
- Servo feed
- Installation space 500x400x300 mm
- Sheet thicknesses up to 2.5 mm



ULTRA SHORT PULSE LASER PROCESSING

Ablation, microstructuring, black marking and laser microcutting

- Cold removal, without any process force
- Ideal for filigree µm-precise 3D shapes
- Perfect for carbide, diamond, glass/sapphire, ceramics, etc.
- Surface finishes up to Ra 0.1 µm possible
- Ideal for embossing dies and chip breakers



FINISHING

- Electropolishing
- Vibratory finishing and polishing in centrifugal machines
- Tumbling in vibratory systems
- Satin finishing/scotching
- Ultrasonic cleaning
- Micro and polishing blasting

LASER MARKING

- Temper marking
- Black Marking
- Engraving markings



DESIGN & TOOL/JIG CONSTRUCTION

CAD/CAM

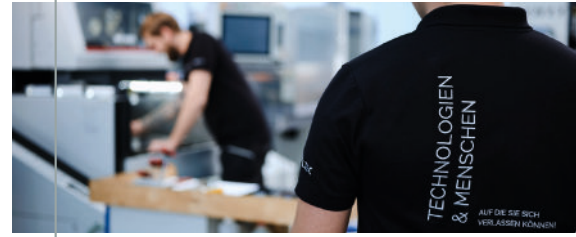
- Own construction
- Solidworks
- SolidCAM / PEPS / DCAM /...
- DXF, STEP, IGES, Parasolid, ...

WIRE ERODING

- Travel 400 x 300 x 220 mm
- Starting hole eroding machine

SURFACE GRINDING

Dimensions up to 600 x 350 mm



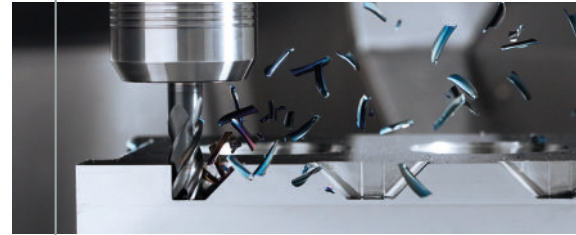
CNC PRECISION MANUFACTURING

HSC 5-AXIS MILLING

- Travel X=705 mm, Y=425 mm, Z=610 mm
- Spindle speed up to 24,000 n^l
- 3-axis and 5-axis parts
- Automated assembly

CNC-TURNING

- Tornos DT13 sliding headstock automatic lathe
- Max. diameter 13 mm
- Bar loader- tolerance +/- 0,002 mm
- Driven tools



QUALITY

MEASURING MACHINES

- Alicona µCMM optical 3D measuring machine
- Optical and tactile coordinate measuring machine
- Keyence digital measuring projectors
- Measuring and profile projector



CERTIFICATIONS | SERVICES

- DIN EN ISO 9001
- DIN EN ISO 13485
- DIN EN ISO 14001
- Guaranteed batch traceability
- Initial sampling possible on request



One-stop solution, binding deadlines and consistently high quality -
when will you test HAILTEC's high-precision metal solutions?

We look forward to your enquiry!

HAILTEC GmbH | Gangstetten 2 | D-72531 Hohenstein | sales@hailtec.de | +49 (0) 7387 988 58 0