Supplier of high-precision

metal products

Ultrashort pulse laser processing

Laser precision cutting

Micro water jet cutting

Precision forming technology

HAILTEC

HAIL-TEC: SERVICES



PROTOTYPES

Whether laser cut leadframes or curved contacts: we realize more parts for you in less time and support your R&D department – from A to Z, even under time pressure

Laser precision cutting

Micro water jet cutting

Precision forming technology

Tool & fixture construction

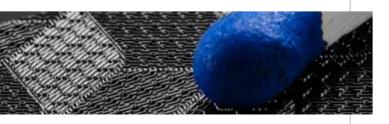
Surface finish

Nanogenous measurement technology



SMALL SERIES

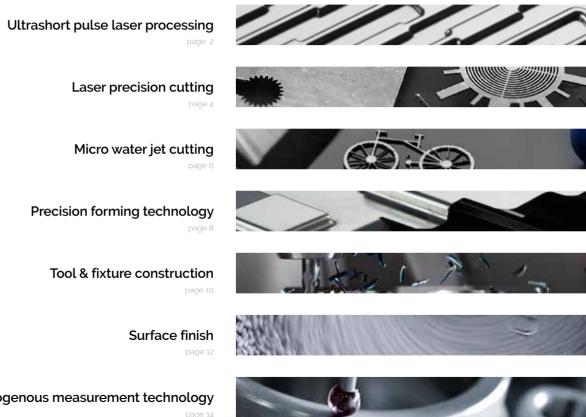
Laser-cut or punched form springs, contact parts, filigree pins etc.: We manufacture your components reproducibly and with batch traceability



ULTRASHORT PULSE LASER SERVICE

Ablation | Microstructuring | Black Marking

HAIL-TEC: TECHNOLOGIES



THE USP LASER JOBSHOP MAKES IT POSSIBLE

For embossing & stamping technology

ABLATION

MICROSTRUCTURING

of µm-accurate 3D shapes

Embossing stamp

Form and bending inserts

Mould plates

Font and number embossers

Cutting knives

Minter

For cutting tool manufacturers

Press plunger

Carbide inserts

Chip breaker

Microtools

Spiral processing

Manufacturing filigree 3D shapes without tools? Ultra-short pulse laser processing with the femtolaser catapults your parts to a new level.

Engraving, texturing, marking and microstructuring from 2D parts up to complex filigree 3D shapes.

Ideal for tungsten carbide, ceramics and diamond/PCD with surface finishes up to Ra 0.1 μm.

COMPLEX MOULDS WITH HIGH PRECISION

economical even for small batch sizes

CONCENTRATED FOCUSED

with the right "light"

Various steal alloys

Non-ferrous | precious metals

Nickel | cobalt alloys

Tungsten carbides

PCD/MCD/diamond

Ceramics

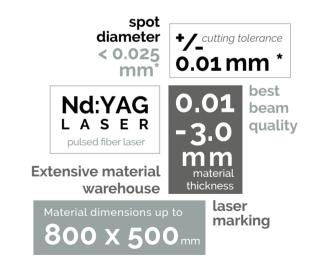
Hilumin, Tantalum

Pre-punched belts with press-in zone

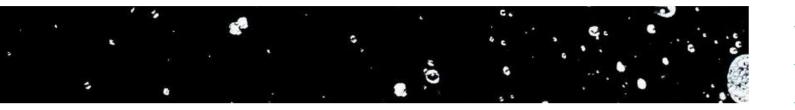
Light alloys

LASER PRECISION CUTTING





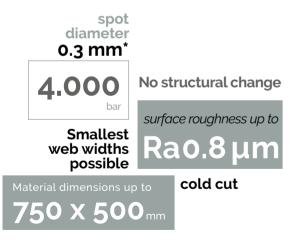
* depending on material, specification, contour geometry



Cutting a wide variety of materials without changing the microstructure

4.000 bar focused on 0.3 mm beam diameter

Sheet metal cutting just like wire-cut





* depending on material, specification, contour geometry

PRECISION FORMING TECHNOLOGY

PUNCHING, BENDING, FORMING

for your prototypes, samples, small and large series always the right solution

Contact parts | pins

Leadframes

Springs & clamps

Fastening elements etc.

Precision bent parts



toggle presses

precision bending machine

> in-house toolmaking

Automatic punching press up to 40t

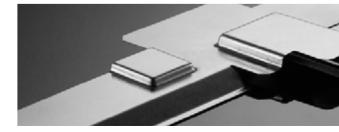


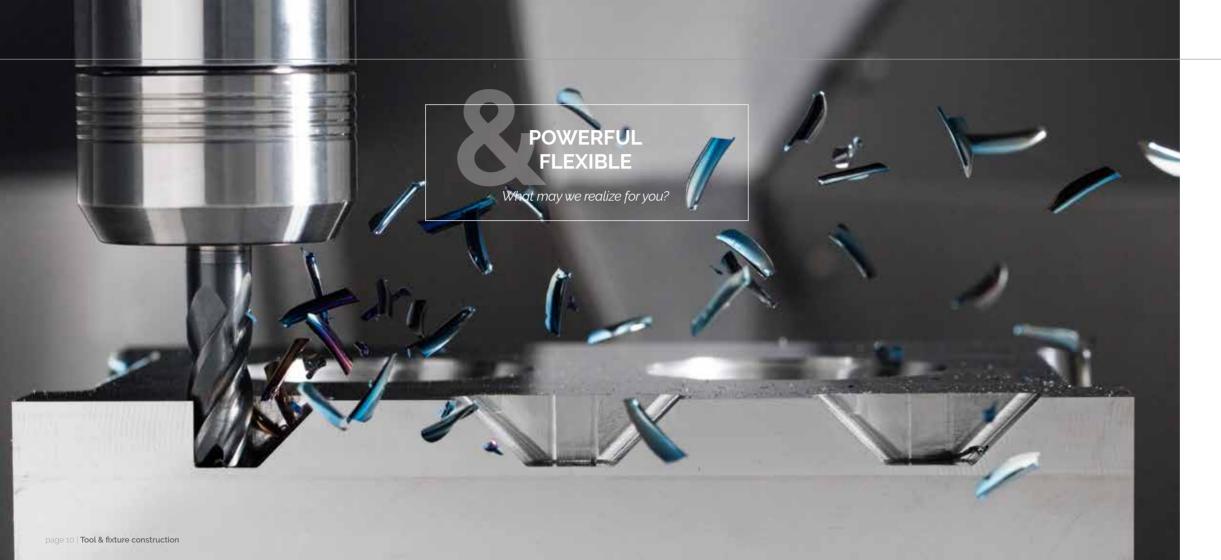
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TOOL & FIXTURE CONSTRUCTION

Construction

High-speed-cutting 5-axis milling

EDM wire cutting

Surface grinding

IN-HOUSE construction SOLIDWORKS Latest DCAM 0 CAD CUT D C A M CAM high manufacturing systems depth combinable PEPS

production technologies

SURFACE FINISH

deburring

degreasing

surface refinement

polishing

microblasting of surfaces

electropolishing

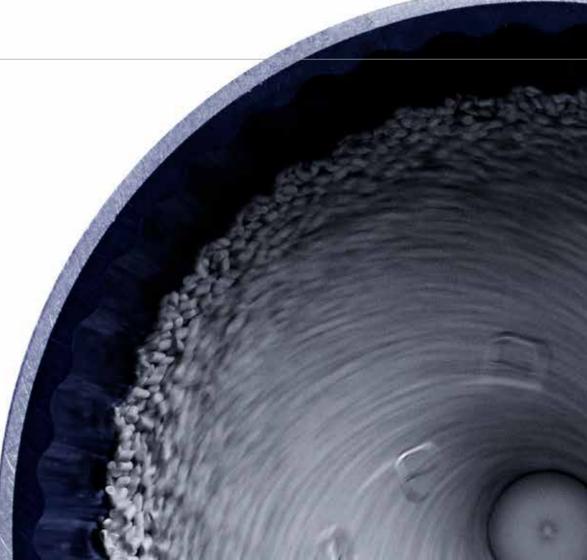
centrifugal and vibratory grinding

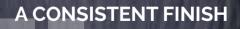
corrosion protection

heat treatment

calendering

surface polishing





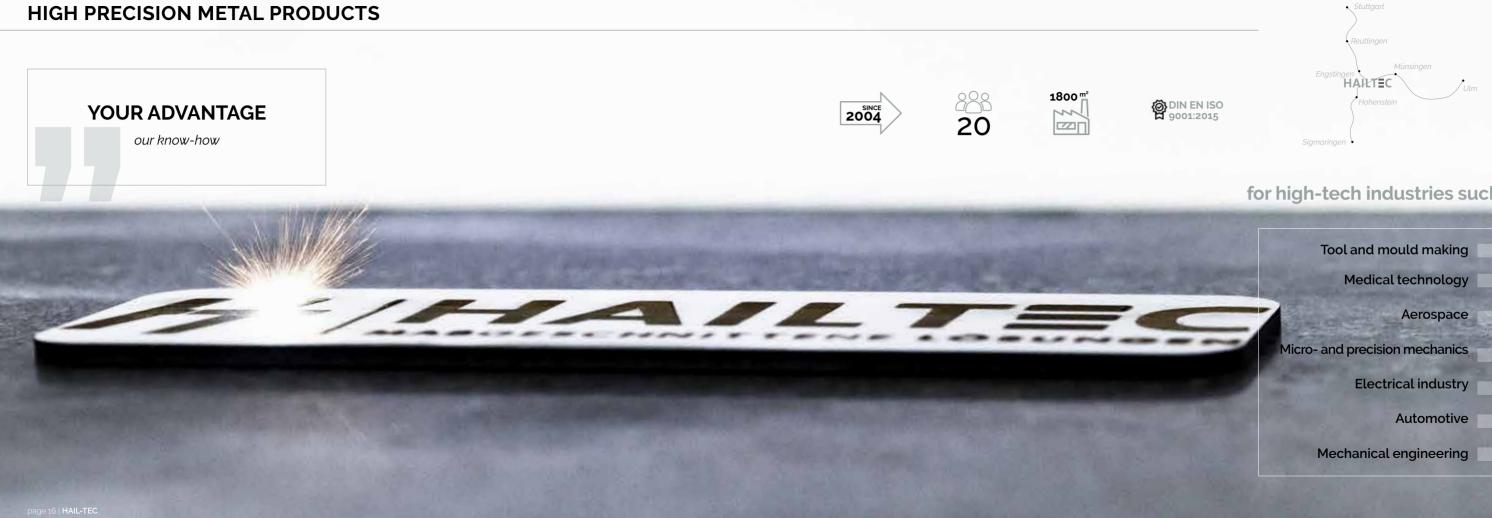


Surface Coordinate Metrology from Alicona

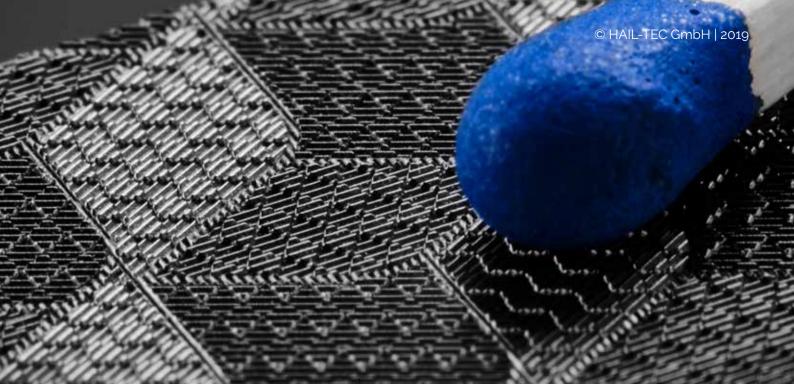
Digital Measurement Projectors

Digitization of components in the µm range

Reverse engineering



for high-tech industries such as



Everything under one roof, binding deadlines and consistently high quality – when do you test HAIL-TEC's high-precision metal solutions?



We are looking forward to your inquiry!

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