

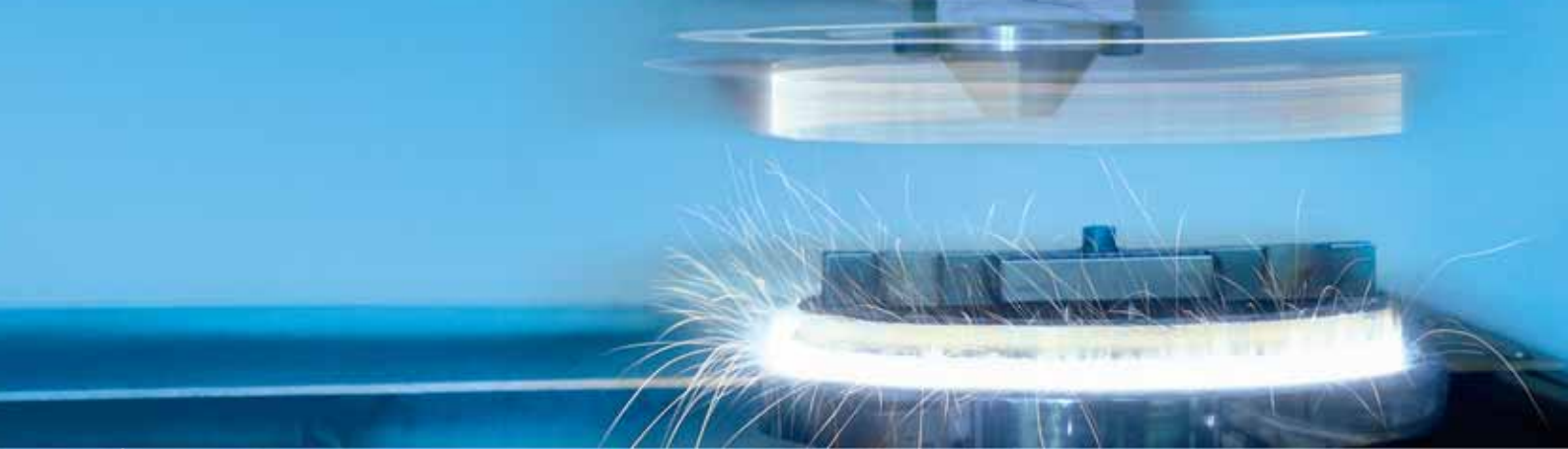
LASER SERVICES



Laser welding

Laser cutting

Full processing range



Laser welding – perfect welding seams, no further machining required

Whether automotive, mechanical or equipment engineering, medical or electrical engineering industries: wherever other processes are too expensive or cannot offer the required accuracy and reliability, laser beam welding is the primary option.

Scope of performance

- Laser welding with maximum welding depth of 8 mm.
- Welding with all standard 2D and 3D seam types.
- Butt, overlap, fillet welding.

Materials

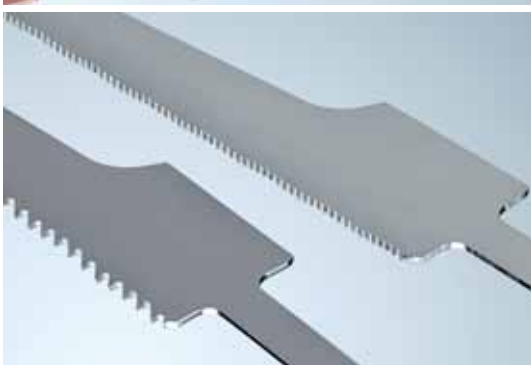
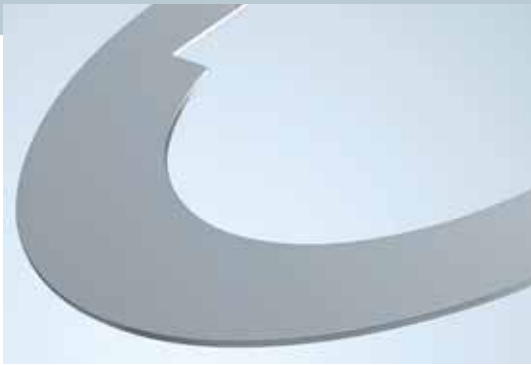
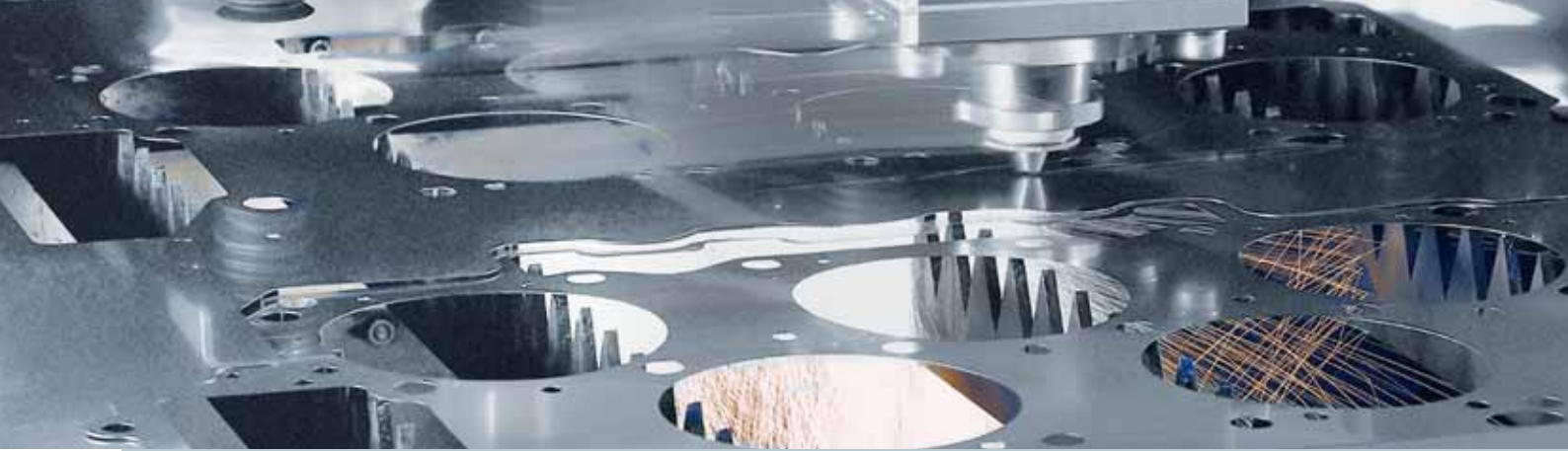
Steel and stainless steel, aluminium and aluminium alloys, titanium, nickel-based alloys and galvanised sheets.

Other materials on request.

Technical resources

Leading-edge laser systems for 2D and 3D processing with Nd:YAG and CO₂ lasers, with performance up to 6000 W (CO₂) and 3000 W (Nd:YAG).

*Stainless steel part for the electrical industry
Stainless steel guide for medical applications
Bushing for the automotive industry
Casing part for the automotive industry*



Laser cutting – flexible, fast and cost-effective

Scope of performance

- 2D and 3D laser cutting with ultimate precision.
- Cutting very small to large-format parts in thin and thick sheet metal.
From coils, sheets, tubes and profiles.
- Burr-free cuts, precision contours, smooth cutting edges.
- No further machining required.

Materials

Highly stable steel and stainless steel, electrical sheets, copper, aluminium, brass, bronze, titanium, nickel silver.

Many other materials on request.

Technical resources

2D and 3D laser cutting: top professional systems and units for cutting sheet metals and parts up to 1500 x 3000 mm, with sheet thicknesses up to 25 mm.

Fine blanking: accurate, burr-free cutting for very thin materials and foils using pulsed Nd:YAG lasers.

Electrical sheet

Cover for the electrical industry (3D laser application)

Copper PCB for the electrical industry

Saw blades, special tools



Full processing range – through to the finished component

Using traditional laser applications – welding, cutting, marking – we make the latest laser technology available to you as a multi-functional tool for production on time and on budget. We also offer follow-up machining to ensure high quality throughout, from sheet cutting to the finished product.

Scope of performance

- Bending and chamfering parts up to 3050 mm. Widths available in various sizes.
- Surface finishing.
- Laser marking: permanent, gentle on materials, suitable for a range of materials. For product design, labelling (e.g. serial numbers) as well as to satisfy traceability requirements.

Bending

Component production

Laser marking parts for medical applications

Laser marking parts for the electrical industry

LASER APPLICATION



From prototype to mass production – with certified quality

Laser applications in the itec laser job shop: means contract manufacturing with certified quality, from very small runs to mass production. Always with accurate laser cutting – and fine blanking – using high performance Nd:YAG and CO₂ lasers, on time, on budget, traceable at all times.

Utilise itec's expertise – for your own specialised application.

LASER SERVICES



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