
TYNESIDE
LASERS
INTEGRATED CUTTING & FABRICATION

Trumpf TruLaser L3040 6kW Fibre Laser

TRUMPF TruLaser L3040 – 6 kW Fiber (L81)

- **6 kW fiber laser source** delivering high cutting speeds and excellent edge quality across mild steel, stainless steel, aluminium, and non-ferrous materials
- **Repeatable cutting accuracy with typical tolerances of ±0.1 mm**, supporting consistent part-to-part quality in production runs
- **Stable Series 3000 machine platform**, engineered for precision and reliability over long production cycles
- **Low heat input** resulting in minimal distortion, ideal for tight tolerances and downstream bending and fabrication
- **BrightLine fiber technology** for clean, burr-free edges and reduced secondary finishing
- **Efficient gas and energy usage**, helping lower per-part cutting costs
- Well suited to high-mix, medium-to-high volume production, enabling fast changeovers without sacrificing accuracy
- **Proven TRUMPF controls and automation compatibility**, ensuring dependable and scalable manufacturing
- **Customer benefit:** tight tolerances, repeatable accuracy, and reliable delivery



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Flow IFB 4020 Waterjet

Flow IFB Waterjet – HyPlex Drive Pump | 4000 × 2000 Bed

- **High-pressure Flow IFB waterjet system** designed for accurate, flexible cutting across a wide range of materials
- **HyPlex direct-drive pump (50 hp)** delivering stable pressure and reliable performance for production cutting
- **Large 4000 × 2000 mm cutting bed**, ideal for full-size sheets, plates, and nested components
- **Cold-cutting process** with no heat-affected zone, eliminating distortion and preserving material properties
- **Typical cutting tolerances of ±0.2 mm**, with excellent repeatability for production and fabrication work
- **Capable of cutting thick and heat-sensitive materials**, including steels, aluminium, stainless, plastics, composites, and specialist materials
- **Consistent edge quality** suitable for downstream bending, welding, and fabrication without rework
- **Highly flexible for prototypes through to batch production**, supporting fast changeovers and mixed-material jobs
- **Customer benefit:** accurate, distortion-free parts cut to size, ready for fabrication



Pressbrake – LVD PPED 4000/200

LVD PPED Press Brake – 200 Tonne | 4000mm Bed

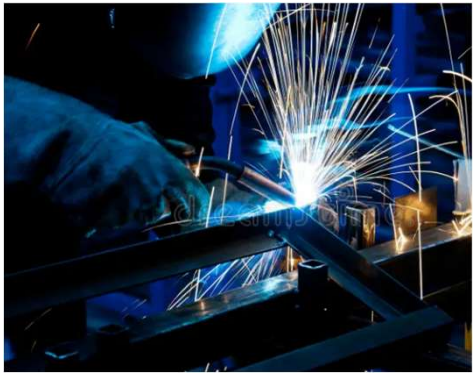
- **rmaksa**
- **High-performance LVD PPED CNC press brake** designed for accurate, repeatable bending in production environments
- **200-tonne bending force**, providing the capacity to form a wide range of material thicknesses and component sizes
- **4000mm working length**, suitable for long folds, large panels, and multi-bend parts
- **High repeatability and angular accuracy**, supporting consistent bend results across batch production
- **Precision CNC backgauge system**, ensuring accurate part positioning and reduced setup times
- **Rigid machine frame and reliable hydraulic system**, delivering stable performance and repeatable results over long runs
- **Ideal for high-mix and repeat production**, supporting fast changeovers and efficient workflows
- **Bends produced to tight tolerances**, typically ±0.5° angular accuracy (material and tooling dependent)
- **Customer benefit:** accurate, repeatable bending that integrates seamlessly with laser and waterjet cutting



Welding & Fabrication

- **Welding & Fabrication Capability**

- **Comprehensive in-house fabrication services**, supporting cut parts through to finished welded assemblies
- **MIG and TIG welding capability**, suitable for mild steel, stainless steel, and aluminium fabrication
- **Skilled coded and experienced welders**, delivering consistent weld quality and repeatable results
- **Powered and manual rolling equipment**, enabling accurate forming of cylinders, cones, and curved components
- **Drilling, tapping, and countersinking operations**, completed in-house to reduce secondary processes and lead times
- **Fabrication built around accuracy and fit-up**, ensuring assemblies meet dimensional and functional requirements
- **Designed for repeat production as well as one-offs**, supporting OEM schedules and fabrication demand
- **Quality-focused processes**, ensuring weld integrity and dimensional consistency across batches
- **Customer benefit:** fully fabricated assemblies delivered ready for installation — reducing supplier count, lead times, and rework.



Secondary operations

- **Secondary Operations & Supply Chain Management**

- **In-house secondary operations**, including drilling, tapping, and countersinking
- **Accurate hole and thread preparation**, supporting reliable assembly and fit-up
- **Subcontracted machining and finishing**, managed through a trusted supplier network
- **Full supply chain coordination**, covering machining, finishing, inspection, and delivery
- **Single point of contact**, reducing administrative load and communication risk
- **Controlled workflows and scheduling**, ensuring parts progress smoothly through each stage
- **Consistent quality management across suppliers**, aligned to customer and OEM requirements
- **Designed to support complete projects**, from cut parts to finished components
- **Customer benefit:** one managed process delivering finished parts on time — without the complexity of managing multiple suppliers.



Accreditations







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- **ISO9001:2015**
- **ISO14001:2015**
- **ISO45001:2018**
- **BS EN 1090-1:2009+A1:2011**
- **BS EN 3834-3:2021**
- Certificates available upon request.

Get in touch

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