



ALLTUBE

Universal Laser processing automation in real 3D is the outstanding characteristic of the ALLTUBE laser machine. The two robot arms can operate completely synchronized and enable joining processes during laser-scanner operation.

Special applications request machine systems out of standard solutions

The ALLTUBE turns out as a very flexible laser system that provides full 3D processing. We are offering a machine system that turns to all users who look for machine solutions outside of standard laser applications.

Universal usage

The ALLTUBE – a universal 3D laser robot machine- allows material processing and automation for different non-metal and metal materials.

High quality material processing automation

The basic machinery of the ALLTUBE consists of two robot arms combined with a FEHA Laser and a scanner system designed for automated processing of complex parts. The intuitive control software requests no special skills. Large inspection windows allow an easy monitoring of the process.

Highlights

- 3D processing of different materials
- complex laser processing possible by synchronous robot movement
- chain-linking of several process steps
- easy process monitoring by large inspection windows
- easy and intuitive operation of complex processes

A customer solution for
ROBU Glasfilter-Geräte GmbH



Tailored for application



Can you imagine the possibilities?

Machine Characteristics

- Flexible machine concept based on combination of laser scan head and two robots
- Robot systems of the newest generation that allow synchronous operating
- Large inspection windows for easy process monitoring
- Easy and intuitive machine control system
- Class 1 Laser machine

| Technical Data: | |
|------------------|---|
| Dimension | 3900 mm x 2150 mm x 2350 mm |
| Weight | 2900 kg incl. laser source (approx.) |
| Dynamics | 10 mm/sec |
| Accuracy | Positioning: $\pm 30 \mu\text{m}$ |
| Processing range | 500 mm x 200 mm x 200 mm |
| Laser source | HYPERICO ₂ Laser power 520 ... 1650 Watt |
| Robots | 2 ABB 6 axis |

Application samples

- Fusing of glass parts – engraving glass surfaces
- Stainless steel 3D welding
- Stainless steel 3D welding and cutting
- Cutting and drilling of metal tubes

FEHA LaserTec GmbH

FEHA is a worldwide niche supplier in CO₂ laser and optics within high volume markets and high-tech solutions. FEHA offers the HYPERICO₂ high power CO₂ laser series and the MICROSTORM™ Q-switched high power CO₂ laser series.

