



## Your entry into the world of laser cutting Laser Cutting System base

High performance lasers or high focusable lasers are applied in LCS base. gKteso emphasizes on the laser beam source, the laser beam guidance, the processing head as well as the cutting nozzle.

### Further advantages of LCS base:

- ✓ Task-specific industrial laser
- ✓ Low space requirement
- ✓ Set up for suction adaptor
- ✓ Set up for further automation
- ✓ Meets increased safety demands by completely closed work space
- ✓ High throughput
- ✓ Optimal reproducibility of processing procedures
- ✓ Fully automated processing
- ✓ Integrable into automation lines

The 5-axis Laser Cutting System (LCS) base by gKteso is a cost-effective entry model into the world of laser cutting. LCS base is ideal for 3D-trimming and target processing of various materials. LCS base achieves precise cutting results, particularly required in the serial production of car displays or in medical devices.

The 5-axis Laser cutting center LCS base by gKteso makes processing of complex and even three-dimensional outlines possible. Areas of limited access or multidimensional apertures may be processed by laser cutting in a precise, efficient and powerless manner. Particularly worth mentioning are the high-quality laser beam source, the laser beam guidance, the processing head and the cutting nozzle. The high professional focusing optics bundle the laser beam and consequently generate the required intensity for the cutting process.

During the cutting process, the laser beam moves along the desired part contour, melting the material as it goes. The cutting nozzle, disposed concentrically with the laser, provides the process gas, which protects the focusing optics from vapors as well as from splashes, pushing the removed material out of the kerf. Hereby, the cutting gap is hardly wider than the laser beam itself. Due to the heat generated in laser cutting, certain effects on the material's cut kerfs are not always avoidable. In order to choose the optimal laser, it is important to prove beforehand, whether the material tends to liquefy, vaporize or oxidize during the cutting process.

# Laser Cutting System base

## One solution – many applications



LCS base by gKteso is the perfect solution, as hardly any material is able to withstand the powerful laser. Steel plates, stainless steel constructions or complex workpieces are cut multi-dimensionally and precisely. The variety of objects that can be cut with lasers ranges from heavy to light-weight, from thin to thick. Especially in the supplier industry, the Laser Cutting System (LCS) base is ideal for fast and process-reliable cutting of components made of steel, stainless steel or aluminum. Steel may have a thickness of up to 40 mm, stainless steel of up to 50 mm and aluminum of up to 25 mm. Laser cutting systems by gKteso are also the perfect choice for precise insertion of holes or gaps into plastics, paper or stone.

### Technical data

Workspace	500 mm x 500 mm x 200 mm
Total size	1800 mm x 1800 mm x 2900 mm
Color	RAL 7024 / RAL 7035
Laser	Optionally CO <sub>2</sub> -Laser, green laser, solid state laser
Maximum velocity	1 m/s
Repetition accuracy	0.05 mm
Path accuracy	0.1 mm
Control	Bosch-Rexroth