



Water jet cutting technology for precise edges

Entry-level model WCS base

The high pressure pump Streamline, integrated in the Waterjet Cutting System (WCS) base model, ensures a pulsation free high pressure water jet. This pump's feed flow amounts up to 15.2 liters per minute at a pressure of 3800 bar.

Further advantages of WCS base:

- ✓ No thermally induced distortions
- ✓ No heat affected zones
- ✓ Low space requirement
- ✓ 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 Waterjet Cutting System (WCS) base by gKteso is the ideal entry-level model for 3D-trimming. Mixed plastics, composite materials or carbon (CFRP) obtain clean and absolutely precise cutting edges when processed with WCS base. The five axes ensure multidimensional cutting of workpieces. The Waterjet Cutting System (WCS) base model allows automatic loading. Moreover, the system may be completely integrated into automated production lines.

Wood, leather, soft plastics, textiles, felt, sealing material, paper, cardboard, stone or glass wool, foams, cork or rubber are cut with pure water. Harder materials require the addition of a blasting abrasive to the water jet. Natural stone, steel, aluminum, carbon, carbon fiber materials, numerous types of glass, non-ferrous metals, hard plastics and composite materials, ceramic and cast metal can be separated precisely with this mixture. After the cutting process, the fine quartz sand may be collected and separated in a sludge removal unit.

All water cutting systems by gKteso, as this 5-axis water jet cutting system, are equipped with CNC-controls by Bosch-Rexroth that interpolate all axes as well as carry out an adaptive feed rate reduction, depending on the respective cutting process.

Water Cutting System base

A perfect solution for complex applications



Due to the controlled multi-axial features of the WCS base by gKteso, numerous materials and even most complex outlines may be cut spatially. Herein, 3D-cutting with a tolerance of 0.1mm proves to be very precise. Less structural changes through the application of abrasive-waterjets make this processing method very popular. Also for heterogeneous work pieces made of plastic-metal mixtures, water jet cutting offers optimal cutting conditions. Trimmings of composite plastics in the automotive supplier industry, as for example dashboards, are equally carried out with multi-axial water jet cutting systems.

Technical data

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| Work space | 600 mm x 600 mm |
| Maximum velocity | 1 m/s |
| Repetition accuracy | 0.05 mm |
| Path accuracy | 0-1 mm |
| Pump | „Streamline SL-V 50 Classic C” by KMT, 37 kW |
| Nozzle diameter | 0.25 mm |
| Maximum pressure | 3800 bar |
| Control | Bosch-Rexroth |