Water jet cutting technology with dual shuttle table
For particularly high throughput

The dual shuttle table in the Waterjet Cutting System (WCS) integrated generates a high throughput. Optionally, a round table may be applied, ensuring both parallel loading during production time and short cycle times.

Further advantages of WCS integrated:

- ✔ Dual shuttle table
- ✔ Parallel loading
- ✔ High throughput
- ✔ No thermally induced distortions
- ✔ No heat affected zones
- ✔ Set up for further automation
- ✔ Meets increased safety demands by completely closed work space
- ✔ Optimal reproducibility of processing procedures
- ✔ Fully automated processing
- ✔ Integrable into automation lines

The 5-axis Waterjet Cutting System (WCS) integrated by gKteso not only ensures perfect cuts or clean 3D-trimming. It also provides highest efficiency through its dual shuttle table or optionally a round table. These additional modules permit parallel loading during production time resulting in short cycle times. The five axes enable absolutely precise, multi-dimensional cutting of workpieces made of mixed plastics, composite materials or carbon (CFRP). The Waterjet Cutting System (WCS) integrated model allows also automatic loading. Furthermore, the system is completely integrable 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 abrasive materials to the water jet. After cutting, the fine quartz sand may be collected and separated in a sludge removal unit.

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

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Water Cutting System base
A perfect solution for complex applications

Due to the controlled multi-axial features of the WCS integrated by gKteso, numerous materials and even most complex patterns may be cut spatially. Herein, 3D-cutting with a tolerance of 0.1 mm proves to be very precise. Since structural changes are lessened with the application of abrasive-waterjets, this procedure is specifically favorable in materials research and in construction. Also for heterogeneous work pieces made of ceramic-metal mixtures, water jet cutting offers optimal cutting conditions. Trimmings of composite plastics in the automotive supplier industry, as for example dashboards, are carried out with multi-axial water jet cutting systems as well.

Technical data:

Work space	500 mm x 500 mm x 200 mm
Maximum velocity	1 m/s
Repetition accuracy	0.05 mm
Path accuracy	0.1 mm
Pump	flexible, according to the requirements
Nozzle diameter	0.25 mm / 0.35 mm
Maximum pressure	6000 bar
Control	Bosch-Rexroth (DIN-programming)

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