



KBCUT HD3 and HD5

3D double-side driven CNC gantry system

Gantry type cutting robotic system for plasma and oxy-fuel cutting with double-side drive, precise positioning system with rack and pinion on 3 or more linear axes and exceptional speed and dynamics. 2 rotational axes for torch inclination allow bevel cutting technology for any angle required.

Low backlash, precision gears, as well as highly rigid and precise rail guiding system enable the smooth motion and excellent cut quality in corners and small holes.

It is the best choice when cut quality and productivity are of biggest importance. Especially in thin sheet plasma cutting, the system delivers high quality and productivity, thanks to its dynamic capabilities.

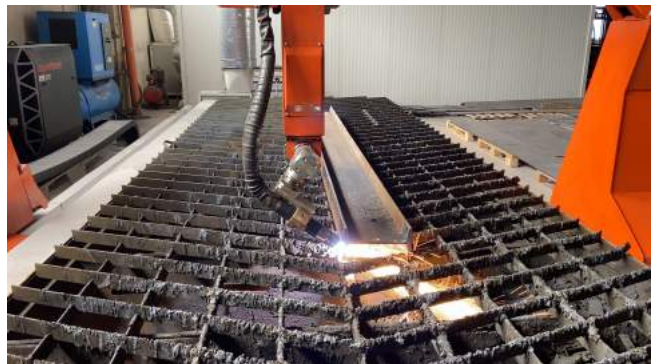
KEY FEATURES

- 3 and 5-axis gantry system design;
- Plasma and oxy-fuel processes available;
- Large variety of the work-area's dimensions;
- Multiple plasma and oxy-fuel torches support;
- Work-table with fume extraction and mechanical valves guaranteeing good extraction ability and simple robust design;
- Cutting widths from 1.5 to 5m;
- Cutting lengths up to 30m;
- Positioning speeds up to 30000 mm/min;
- Machine motion accuracy ± 0.10 mm/m with ± 0.05 mm/m repeatability.



BEVEL CUTTING SYSTEMS

- 2 rotational axes for torch tilting and inclination range from -90° to $+90^\circ$;
- Automatic bevel plasma cutting technology from -45° to $+45^\circ$ tilt angle;
- Extremely easy programming of bevel parts in 2D CAM nesting system;
- Advanced automatic adaptive distance control measuring initial arc voltage and maintaining its value;
- System capable of straight and bevel cutting:
 - metal sheets;
 - 3-side cutting of profiles, tubes and beams.



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