

KIBERYYS

The New Robotics Generation

KB WELD
Robotized welding systems



Gold medal ITF Plovdiv 2010

www.kiberyys.com

TECHNICAL SPECIFICATIONS

		KBWELD M3	KBWELD M5	KBWELD HD3	KBWELD HD5
Number of axes (all axes in interpolation)		3	5	3	5
MOTION AND ROTATION RANGE					
Longitudinal motion - X axis (along the rail)	L	1000 - 50 000 mm			
Maximal transverse motion - Y axis	W	500- 1500 mm	500-1500 mm	500- 1500 mm	500- 1500 mm
Vertical motion - Z axis	H	200- 1000 mm	200- 1000 mm	500- 1500 mm	500- 1500 mm
Range of rotation around Z-axis		-	+/- 360 °	-	+/- 360 °
Range of inclination of torch		-	+/- 90 °	-	+/- 90 °
SPEED					
Speed range on linear axes		0 - 7 500 mm/min	0 - 7 500 mm/min	0-30 000 mm/min	0-30 000 mm/min
Speed of rotation around the vertical axis Z		-	0-45°/s	-	0-120°/s
Speed of torch inclination		-	0-45°/s	-	0-120°/s
ACCURACY					
Positioning accuracy		+/-0,4mm	+/-0,4mm	+/-0,15mm	+/-0,15mm
Repeatability		+/-0,2mm	+/-0,2mm	+/-0,1mm	+/-0,1mm
ELECTRICAL DATA					
Mains supply		3-phase, 380V +/-10%, 50Hz			
Nominal consumed power		2,1 kW	3 kW	1,9 kW	2,8 kW
PAYLOAD					
Additional load		30 kg	30 kg	60 kg	60 kg

OPERATOR INTERFACE

Programming unit



Remote control unit



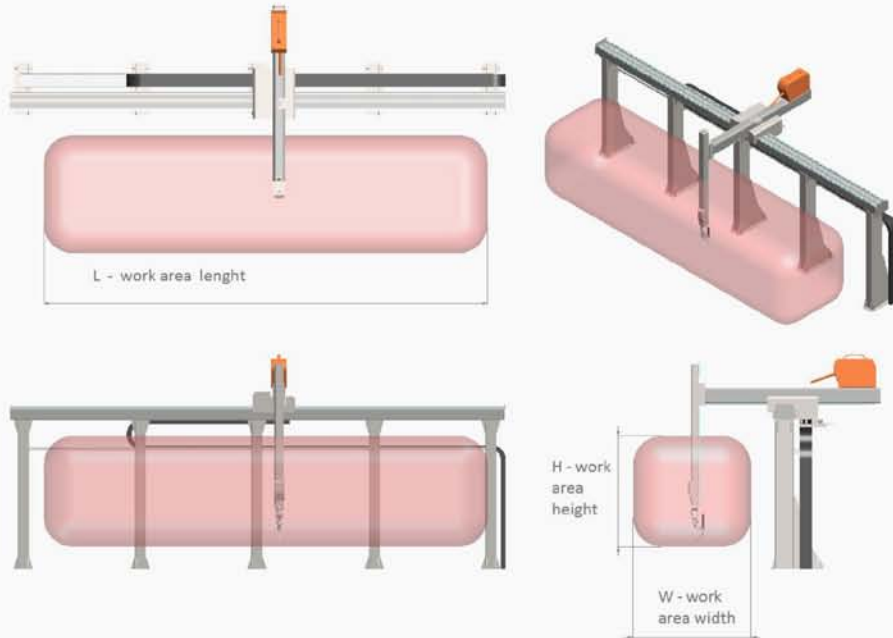
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WORK AREA



In the modern world, the market has an increasing demand for variety of products, which requires flexibility and versatility.

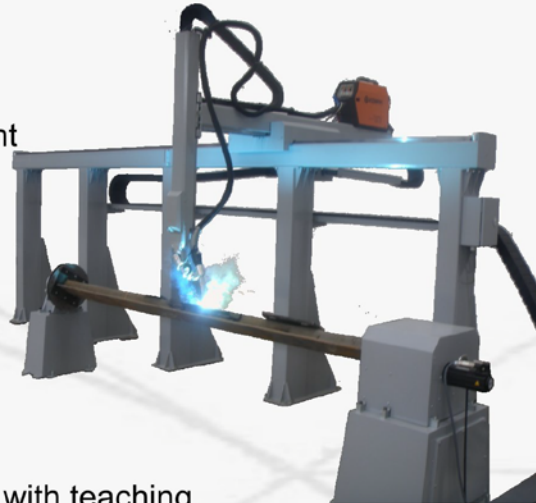
At the same time, the producers are faced with higher requirements in terms of quality and productivity.

This forces the companies to investigate the potential for robotization of the processes, in order to guarantee the constant level of quality and productivity.

The main challenge is to answer the question about the appropriateness of the investment.

The new generation robotized systems for welding and cutting KIBERYs give the answer to this challenge, thanks to many advantages:

1. Much faster return on investment
2. Increased reach for larger weld pieces
3. Intelligent functions for seam searching and seam tracking
4. Function for torch oscillation with frequency and amplitude adjustment
5. User-friendly interface, close to human perceptions, which enables for faster programming with teaching
6. Exceptionally good system for internet support and upgrade
7. Precise motion control and guiding rail system, which guarantees excellent accuracy and repeatability +/- 0,1mm
8. High work and transport speeds
9. Possibility to collect detailed process parameters values from actual feedback from the process
10. Possibility for synchronized control of multiple robotized systems, connected in a network
11. Reliable components inside
12. Possibility for control of various processes – MIG/MAG, TIG, SAW, Plasma and laser cutting

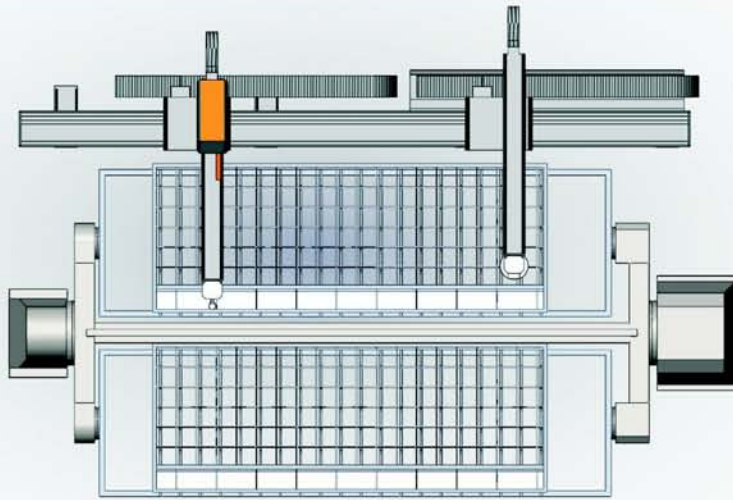






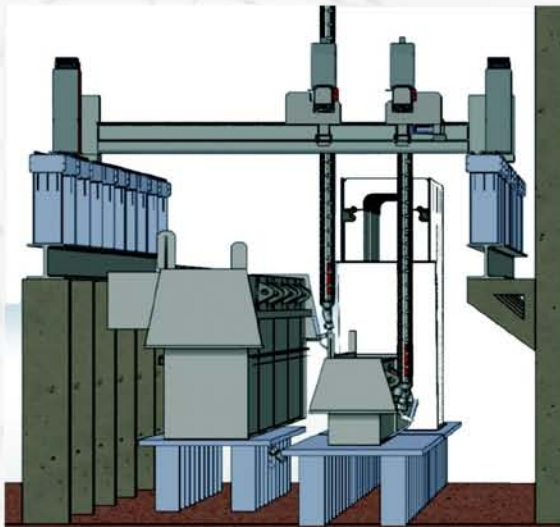
TURN KEY SOLUTIONS

Detailed design and analysis of job



Optimization
of individual
operations

3D simulation of the processes to be performed



Analysis of
operating range and
accessibility of welds

Preliminary assessment of feasibility and productivity

