



RK-213-SERVO

CNC NESTING

FASCINATING PERFORMANCE AND PRECISION



- ➔ Reliably proven machine has long been used to perform milling work in 2D and 3D space. In engraving and wood-carving, various industries and business. The main use is the manufacture of doors, furniture and elements of products in facades, jewelry workshops, the manufacture of souvenirs, sculptures and much more.
- ➔ The main use is in the processing of wood, MDF, chipboard, plywood, any polystyrene, artificial stone, acrylic glass, plexiglass, plastic, non-ferrous metal.



**PREMIUM QUALITY
2 YEARS WARRANTY
AND UNLIMITED SUPPORT**

Working area	2100x3000mm / 2100x4000mm
Z-axis spindle movement	170mm (optional 200mm / 300mm / 400mm / 600mm)
Z-axis transmission type	Ball screw
Type of transmission on the X and Y axis	Helical gears
Type of displacement motors	Servo motors
Working speed	0-20m/min
Spindle speed	0 – 18.000rpm
Spindle power	6kW (optional 9kW)
Spindle cooling type	Air Cooling (optional water cooling)
Vacuum pump power	2x 7.5kW
Machine size	3800x2900x2450
Weight	1750kg



DUSTPROOF DESIGN



HIGHLY DURABLE



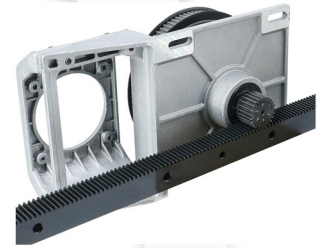
STAINLESS BODY



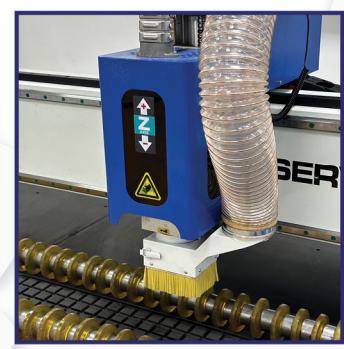
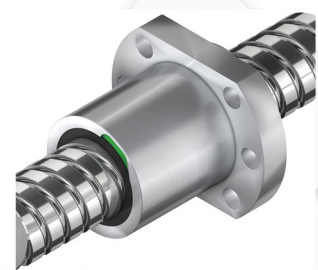
FAN COOLING



Movement along the X and Y axes of our machine tool uses a helical rake. This solution allows to achieve high speed performance without compromising the accuracy of treatments.



Due to the almost complete elimination of the backlash, highly accurate movement of the portal, caliper and spindle along the X, Y and Z axes is ensured when processing the program using CNC for complex products with a high degree of accuracy.



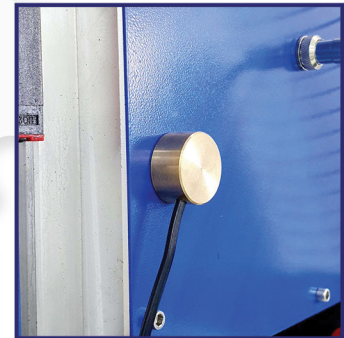
ELECTRO SPINDLE 6kW – 18.000rpm

The design of the spindle is based on the best design solutions of the world's leading manufacturer of spindles - HSD (Italy). High rotational speed (18.000 rpm) and optimum power (6 kW) make it possible to process parts made of wood, as well as chipboard, MDF, plastic, acrylic and other materials.

The machine bed is made of thick walled rectangular pipes, which, along with a large number of transverse beams, provide an excellent level of rigidity and vibration resistance.



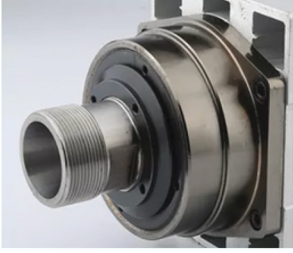
Due to the increased stability and rigidity, they ensure high accuracy of the portal and high-speed spindle movement along the X, Y, Z axes. High accuracy of processing and durability of the machine operation are achieved without loss of accuracy parameters.



MEASUREMENT AND CALIBRATION OF TOOL LENGTH

Carries out automatic control of tool length and allows, when starting work, to quickly enter data on the table surface (Z=0) and material height. Provides fast input of parameters, protection of a surface of a table that increases productivity of the machine and the level of safe work.

HQD new air-cooled spindle



HIGH PRECISION OF ROTATION

Precision steel ball retainer, which ensures the electric spindle swing accuracy at high speed grinding.



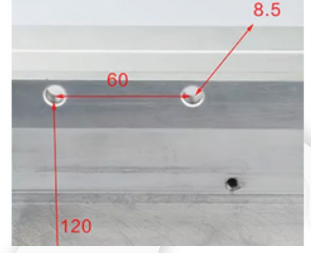
FAN COOLING

Convenient and easy, no water pipes/skins and pumps, navigation plug connect to use.



GREASE LUBRICATION

The spindle is greased. High temperature resistant lubricant.



DURABLE

The body is made of fine stainless steel. The body is smooth and not easy to rust.



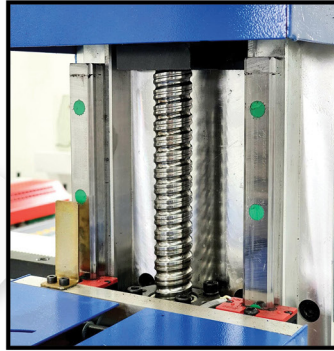
Strictly sealed and dustproof



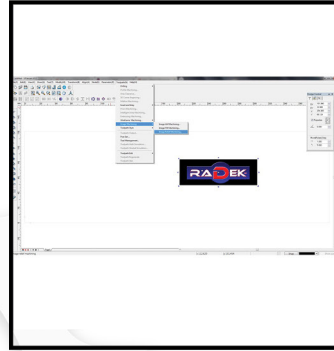
FEATURES



HG20 Taiwan HIWIN square rails, tilted teeth rack



Z axis Taiwan TBI Brand ballscrew



Ucam software (licenced)



Fuling Inverter 7.5kW



Control system: NC STUDIO



LEADSHINE drivers



Vacuum pump 7.5kW air cooling



Electrical parts Schneider

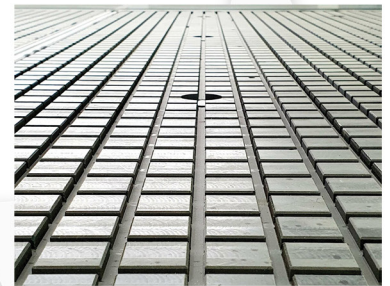
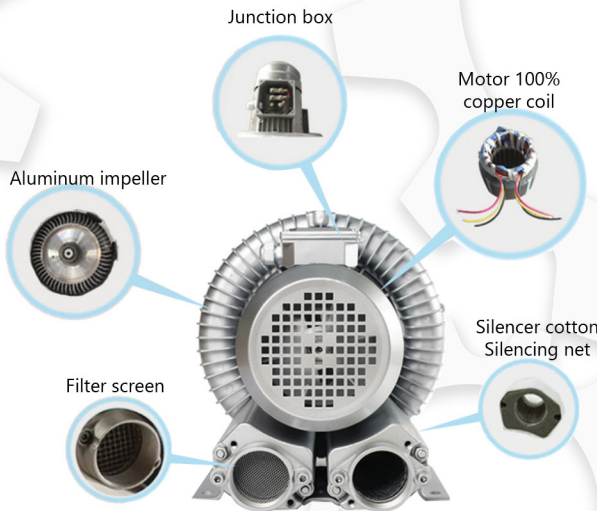
Max. Airflow
530m³/h



DUSTPROOF DESIGN



FAN COOLING



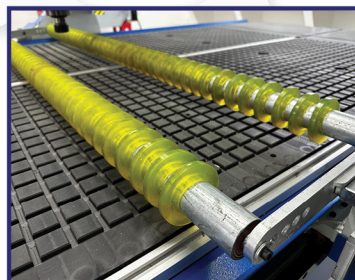
Aluminum desktop covered with wear resistant plastic, specially designed for use with a vacuum pump. This table allows you to quickly and permanently install the workpiece on the work. Also, the workpiece on the table can be mechanically fixed with clamps, for this, the table was divided into 4 zones using a T-shaped profile.



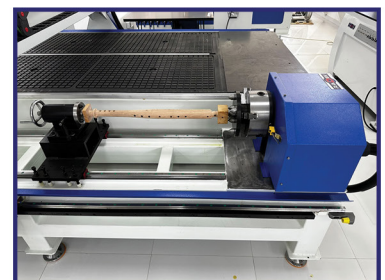
Automatic oil lubricating system



INCLUDED DUST COLLECTOR 3kW WITH 2 BAGS AND FLEXIBLE HOSE



PRESS ROLLERS FOR MORE CONVENIENT FEEDING



OPTIONAL 4 ROTATION AXIS