

The routing "giant"

R500 is a heavy-duty large sized machining center with **wide work areas**, adopting **high-tech solutions**.

It is suitable for a wide range of applications: caravan and insulating walls, elements for prefabricated houses and any other components of large dimensions.

The main application field is however the **nesting machining** of large panels for the production of cabinet doors, upholstery frames, boat furniture.



Routech solutions for Nesting

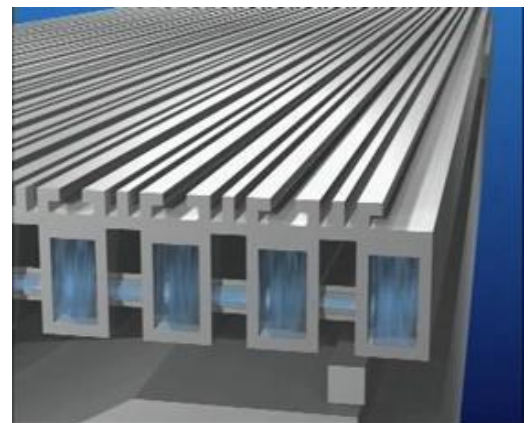
The most important aspect of nesting machining is the workpiece fixing and hold-down by means of the through-passing vacuum.

R500 ensures an utmost hold-down, allowing to machine at the same time up to 3 superimposed panels, with consequent increase of productivity.

Routech has achieved this result adopting the following solutions:

- **Vacuum canalization** within the table structure.
- **High-capacity vacuum**, concentrated on the table area involved in the machining operation.
- **Pressure shoe** integrated in the dust hood of the routing unit.
- **Pressure rollers** with dynamic intervention.

The positive workpiece hold-down, combined with the features of the machine structure with mobile



Pic. 1
Vacuum canalization within the table structure



Pic. 2
Pressure rollers with dynamic intervention

gantry and double X-axis transmission, allow to obtain a cutting quality not easily achievable with conventional routers.

Safety enclosure

R500 is fitted with a cabin which completely encloses the head unit thus ensuring:

- Drastic reduction of dust and noise.
- Protection against material ejection.
- Easy viewing of machining operations.



Pic. 3
Safety enclosure all-around the head unit

Integration in automated processing lines

The performance of R500 fully comes out in integrated production lines.

Highest productivity, reduction of manpower, improved organization of the production flow, are only some of the advantages why numerous clients opt for integrated Routech solutions.

Routech is able to meet specific production requirements offering a wide range of solutions with numerous configuration possibilities, with the integration of:

- Automatic loading and unloading systems.
- Automatic pick-up systems from stacks.
- Automatic handling systems with or without spoil-board.
- Software for program generation.
- Customized solutions.



Pic. 4
High-productivity work cell with automated preloading, loading and unloading, for the production of upholstery frames



Pic. 5
High-productivity work cell with automated loading and unloading on roller tables, for the production of thermo-insulating panels



Pic. 6
R500 for just-in-time production of stair strings (right and left stringers during the same machining cycle)