



Title

MODULAR AND RECONFIGURABLE STRUCTURE FOR A ROUTER GANTRY CNC MACHINE



Inventor/s - Contact

Cornel Ciupan, Claudiu-Ioan Rusan, Mihai Ciupan
Cornel.ciupan@muri.utcluj.ro



Patent/ Application number

Patent application OSIM no.: A/10073/02.12.2022



Short presentation

The invention relates to a mechanical structure for a router gantry machine. The structure of the machine, made of extruded aluminum profiles, consists of two upright beds (M) connected by connecting elements (5) and a table (B) that can be placed at different heights, the uprights (M) having the guides placed at the top on which the gantry (G) moves, in the shape of a straight beam, which provides increased rigidity compared to a "U" shaped gantry.

By applying the invention, the following advantages are obtained:

- modular mechanical structure, simple and reliable, at a low production cost
- increased rigidity in relation to the weight of the structure
- reconfigurable structure in relation to the dimensions of the parts and the type of operation (milling, laser or AWJ cutting).



Applicability

Machine tools



Images

