

TECHNICAL CHARACTERISTICS

- Part length min /max 300 mm to 2600 mm standard
- Part width min /max..... 30 mm to 210 mm (unlimited after removing stops)
- Part thickness min /max de 15 mm à 200 mm en standard
- Max distance between 2 machinings (X axis)..... 2600 mm
- Vertical travel (Y axis) 250 mm
- Transversal travel (axe Z) 250 mm
- Programming ISO language (by CAD/CAM via network or USB stick, optional)
- Mobile parts movement speed 0 to 120 m/min.
- Compressed air pressure 6 bars
- Voltage..... 380 volts triphasés + terre + neutre

MAIN TOOL HOLDERS

- Vertical or horizontal routing unit - 1,5 kW - 18000 t/min.
- Chain mortising unit - 2,2 kW – 3000 t/min.
- Alternax mortising unit - 1,1 kW – 3000 t/min.
- Single chisel mortising unit - 2,2 kW – 3000 t/min.
- Spinning unit - shaft length 100 mm, ø 50 mm - 4 kW - 6000 t/min.
- Anuba hinge inserting unit - 0,6 kW – 2800 t/min. - with loading magazine

COMPLEMENTARY EQUIPMENT

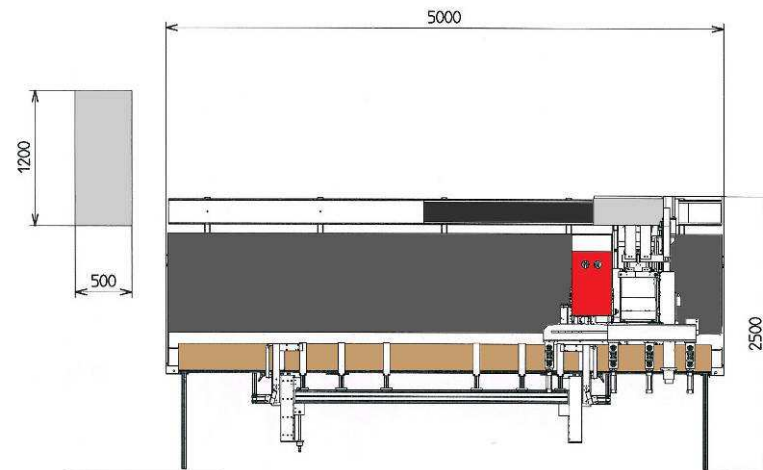
- Frequency variator for tool speeds from 3000 to 18000 t/min.
- Fast shifting system by HSK50 cone type
- Bar code reader
- Vertical or horizontal loading magazine
- Evacuation conveyor belt or rollers

DIMENSIONS



Structure

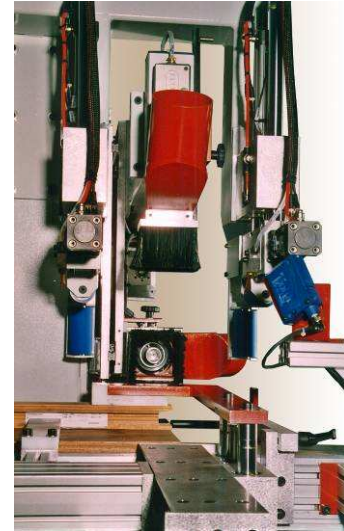
- Frame structure made of welded steel
- Prismatic rail guidance with recyclable roller casings
- Unit drive by brushless servo motors controlled by computer



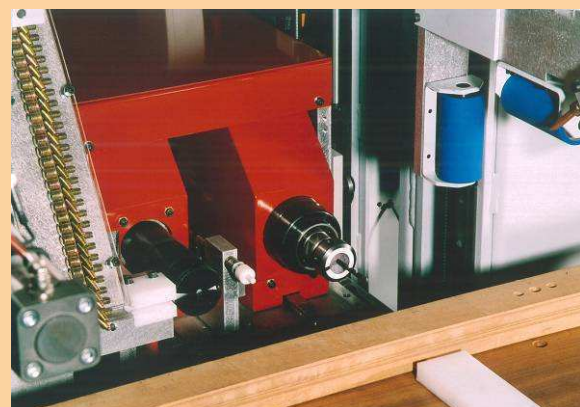
3120 Machining center

- Center only height : 2500 mm
- Electrical cabinet height : 2000 mm
- Control consol height : 1800 mm

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Vertical & horizontal routing units



Anuba hinge inserting unit with screwing spindle

CNC 3100 machining centers for joineries



Example of a 3120 machining center equipped with 2 vertical and horizontal router units and an Anuba hinge inserting unit.

Today, the production series are more and more reduced. The same goes for the deadlines.

Product customization has become a requirement. In order to answer to all these necessities, PARVEAU designed the CNC 3110 & 3120 machining center, configurable as desired according to the requirements of your company.

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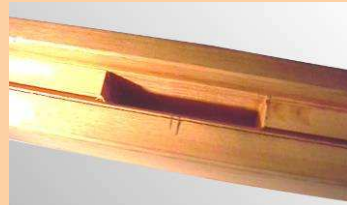


IT CAN DO

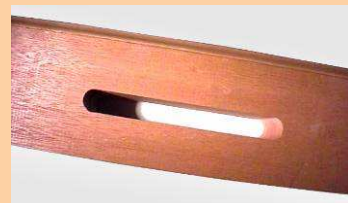
- Mortises for lock casings
- Drains for frames
- Drains for support parts
- Mortises for door handles
- Drills for mechanical assembling
- Drills for handles (3 holes)
- Drills for locks
- Notches for striker plates
- Notches for hinges
- Drills for dowels
- Routes for ventilation holes
- Inserts hinges
- Etc....



Machinings for a lock casing



Mortising



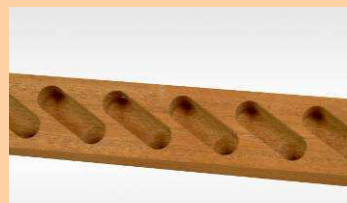
Route for ventilation hole



Routing for striker plates



Drain in support part



Consecutive routings



Drilling for assembling

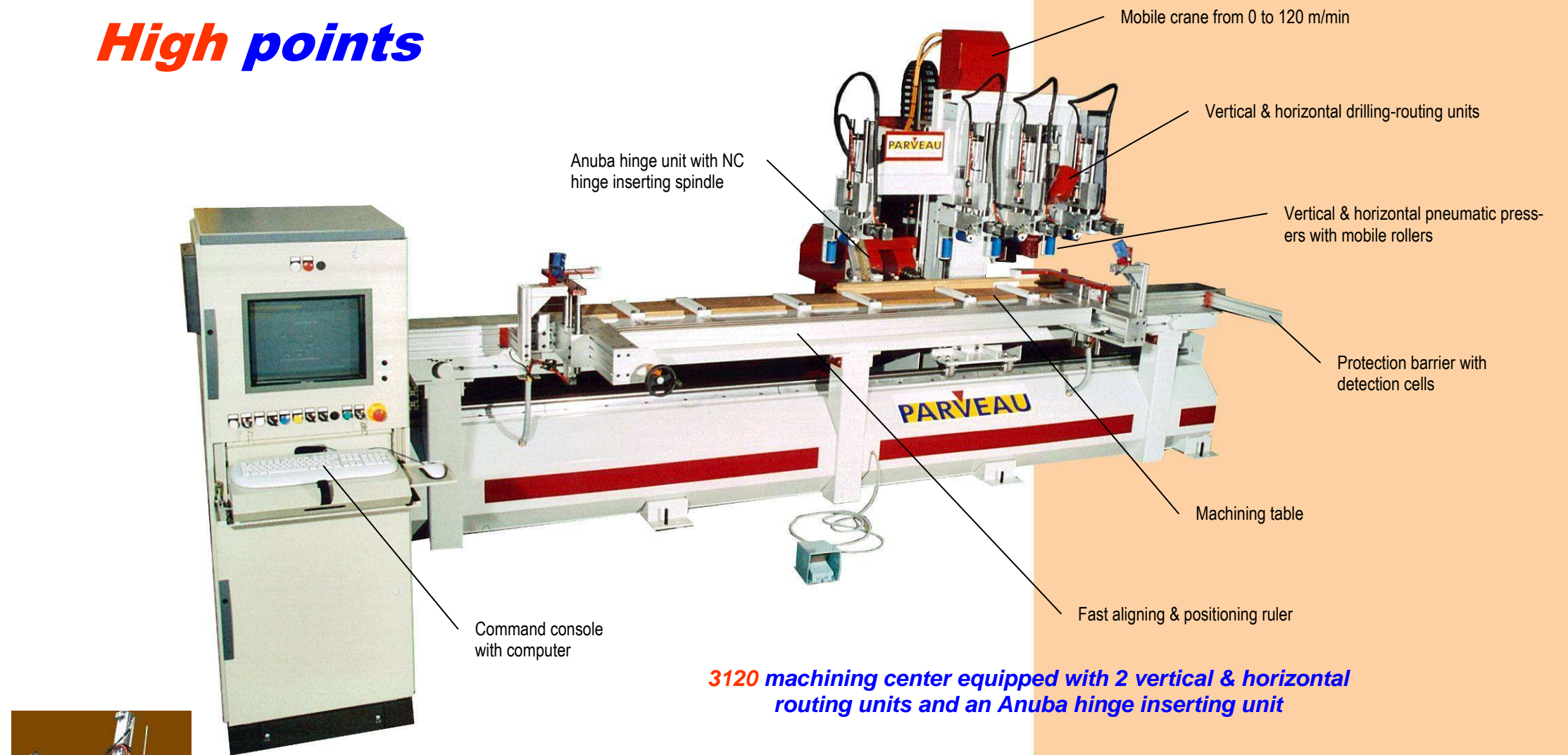


Various routings

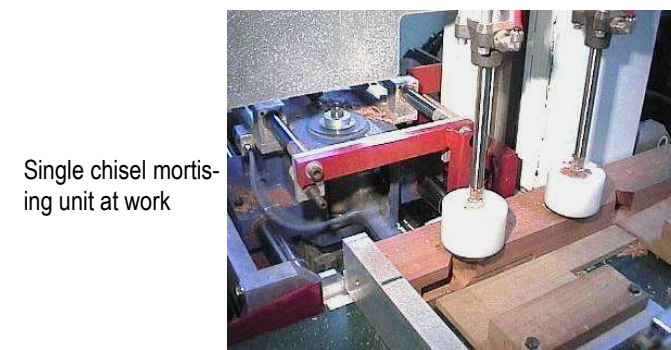
CONCEPT

- This machine is proposed under 2 structures : with 1 vertical column (Réf. 3110) which can receive 1 to 2 tool holders or with 2 vertical columns (Réf. 3120) which can receive more than 2 tool holders.
- All the axis can be digitalized and are driven by computer.
- It makes **all the machining longitudinally** : drilling, mortising, routing, hinge inserting, etc...
- This machine can be made following several versions : configurable depending on the client's requirements, flexible working rates, with or without loading magazine and/or automatic evacuation.

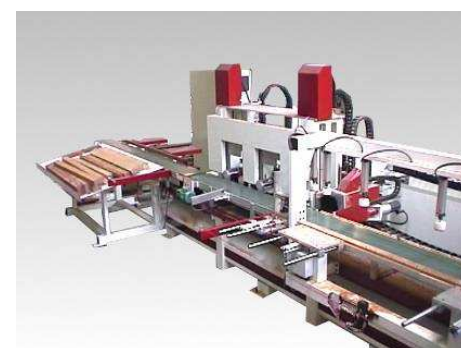
High points



Tilted drilling unit for drain making



Single chisel mortising unit at work



Example of a center equipped with a loading conveyor belt and a storing unit for the machined parts

USAGE PRINCIPLE

- The part is placed on the machining table.
- The operator launches the corresponding program or **scans** a bar code (sticker on the fabrication sheet or previously stuck on the part). Thus the machine recognizes each part and downloads the corresponding program. The information comes either from a program using **ISO language**, or a **CAD/CAM** program (option).
- The tool holders move numerically. The part remains still. Each type of machining is made by **tool holders, specialized** by function and side. The machine is capable of machining on 2 sides.
- The machined part is evacuated manually or automatically by motorized conveyor (option).



Detailed view of the table equipped with a backing ruler that allows to position the parts in counter-reference. It avoids the stops on the machining side, thus avoiding collisions.

PROGRAMMING

- Programming the machine can be done with **ISO** language or a **CAD/CAM** program (option).
- Transmitting data is done via the network or a numeric storage device.
- Bar code reading system can be added, for part identification (option).
- Remote maintenance can be done by the PARVEAU after-sale service (option - needs a dedicated telephone line).



Bar code sticker allowing part identification (option)