

ALU Ranger

VERTICAL CNC MACHINING CENTER

Composite panel processing for cladding facades, furniture, sign boxes, etc

MC 3416

Overall dimensions
21' 8" L x 7' D x 7' 10" H

Working field
11' 2" x 5' 2" x 4"

MC 5016

Overall dimensions
26' 7" L x 7' D x 7' 10" H

Working field
16' 5" x 5' 3" x 4"

Space saving and maximum accessibility

Machine frame electrowelded with monolithic structure

"Gantry" type beam

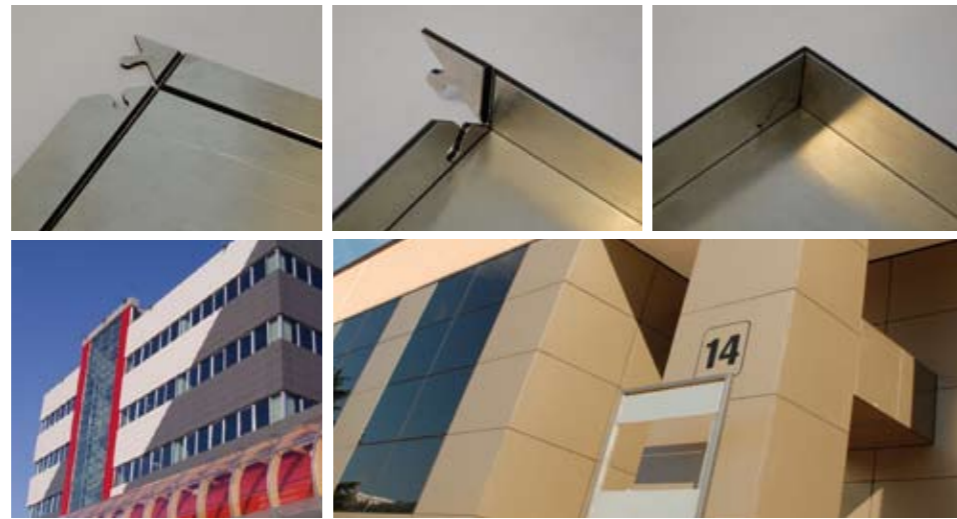
Three-Axis movement with brushless AC servomotors and YASKAWA digital drivers

High production speed with dedicated working units

Friendly user programming with ACM specific variable parametrics (macros)

Cad-cam and Nesting software

Vertical working table and panels are always Clean from shavings, due to advanced dust extraction system and gravity



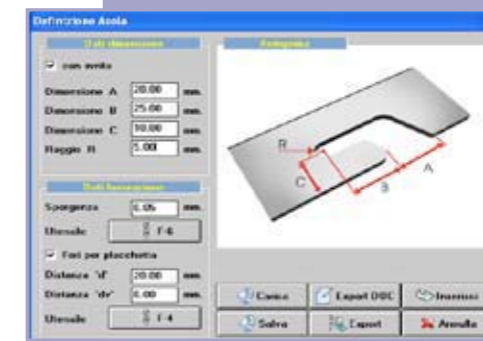
Programming software

Panel dimensions



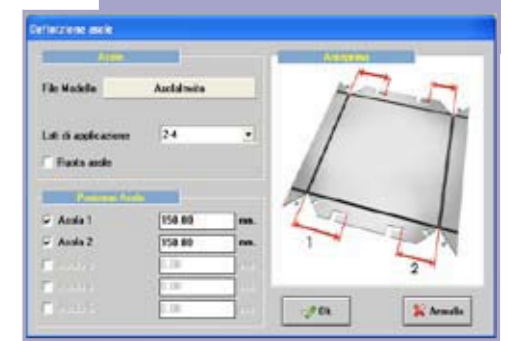
- Cassette dimension
- Return fold height
- Extra processes
- Priority process selection

Fixation slot - Creation



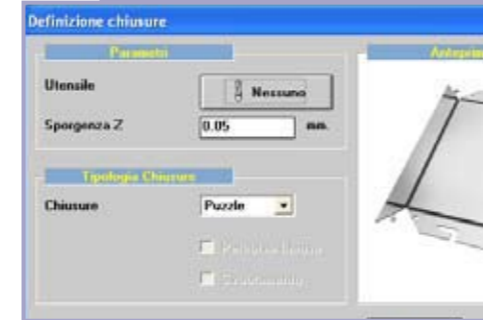
- Fixation "slot" file creation
- Definition of geometric parameters
- DXF exportation for reinforcement plate

Fixation slot - Positioning



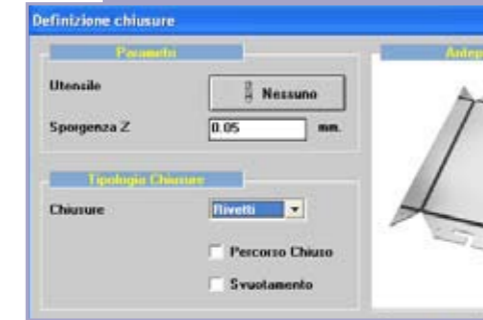
- Slot positioning on return fold
- Choose quantity of "slots"
- Select "slots" created previously

Corner closure "JIGSAW"



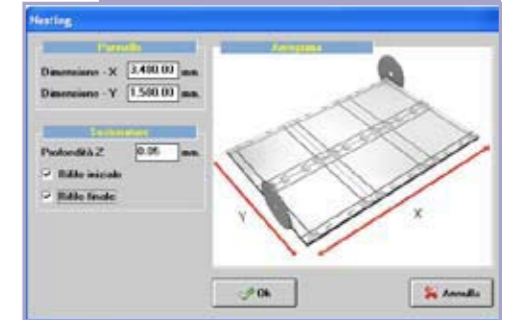
- Corner closure "JIGSAW" cassette
- Automatically inputs parameters for the chosen return fold height

Corner closure - "Rivet"



- Corner closure "RIVET" cassette
- Automatically inputs parameters for the chosen return fold height

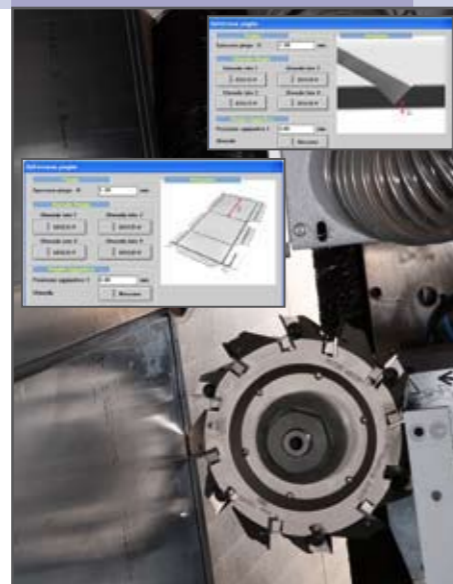
Nesting



- Work optimization, reducing scraps
- Optimization of the panel surface direction

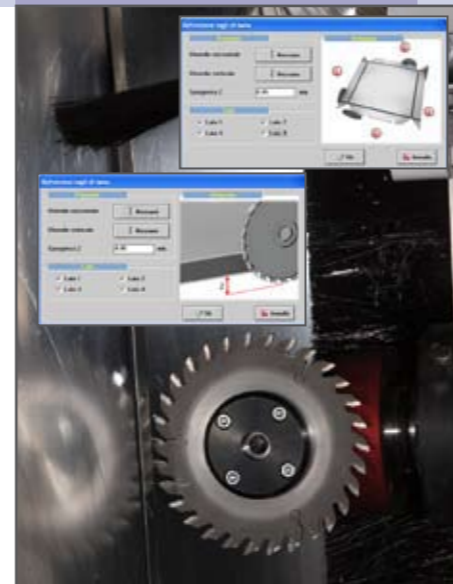
10 position tool changer

"V" grooving



"V"grooving dedicated independent unit for return folds

Panel squaring



Circular saw aggregate to cut and square composite panels (Optional)

Corners and fixation slots milling



Milling tool, mounted on a ISO 30 cone, available in tool magazine, controlled by the routing unit

Boring for corners and rivets



Boring bit, mounted on ISO 30 cone, available in tool magazine, controlled by routing unit





Standard equipment

Panel holding



Area 1

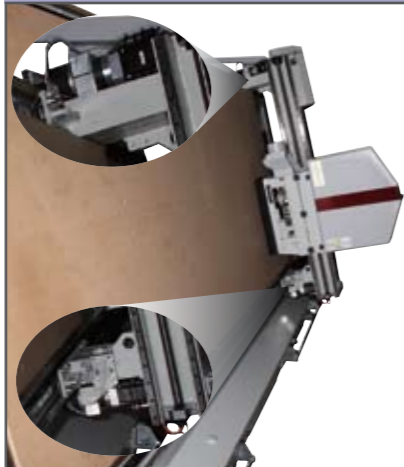


Area 2



- Vacuum working table, divided in two areas with MDF sacrificial board for panel hold down.
- Standard vacuum pump: 250 m³/h

Gantry



- Gantry type beam with twin-motor drive
- High sturdiness and precision

Control panel



- Industrial PC, Microsoft Windows XP, 17" LCD Color Screen
- Ethernet connection, 4 USB ports, keyboard and mouse
- ASPAN Cad-cam software programming

Optionals

Remote control



- Hand-held CNI 850
- Program start
- Manual axis control "JOG"
- Speed control "Override"

Extra vacuum pump



- Total 500 m³/h (250+250)
- To work on panels of small dimensions

Increased routing unit



- 7,5 Kw ISO 30 - 18000 RPM