



ALU Ranger oneR PRO

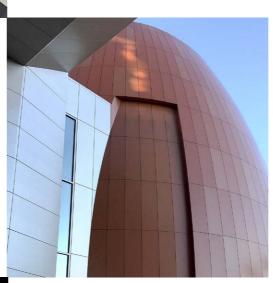
CNC Panel Router with Vertical Table for Architectural Panels

4221 6321



CNC panel router with Vertical Table for architectural facades panels processing

CNC panel router made for: ACM/ACP, ACM Mineral core, solid aluminium, panels with alu honeycomb and corrugated core, Fibrecement, HPL.





M MURATORI

ALU RANGER

ALUCOBOND[®]

LARSON®

ALPOLIC[®]

STACBOND[®] **ARCONIC[®]** ALUBOND[®] ALBOND[®] SIBALUX® **VITRABOND® ALUPANEL®**

NEOBOND[®]

VITRADUAL®

LUXE COAT®

ALUCOLUX[®] **FUTURAL**®

ALUCORE[®]

LARCORE[®]

PLASCORE[®] STARCELL[®]

.....

.....

COMPATIBLE PANELS

ACM / ACP PE CORE MINERAL CORE

SOLID ALU

ALU HONEYCOMB

ALUMINIUM CORRUGATED CORE

FIBER CEMENT

HPL

DOLUFLEX®

METAWELL®

HONYLITE[®]

CELCOMPONENTS®

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..... **TRESPA**® MAX EXTERIOR® POLYREY®

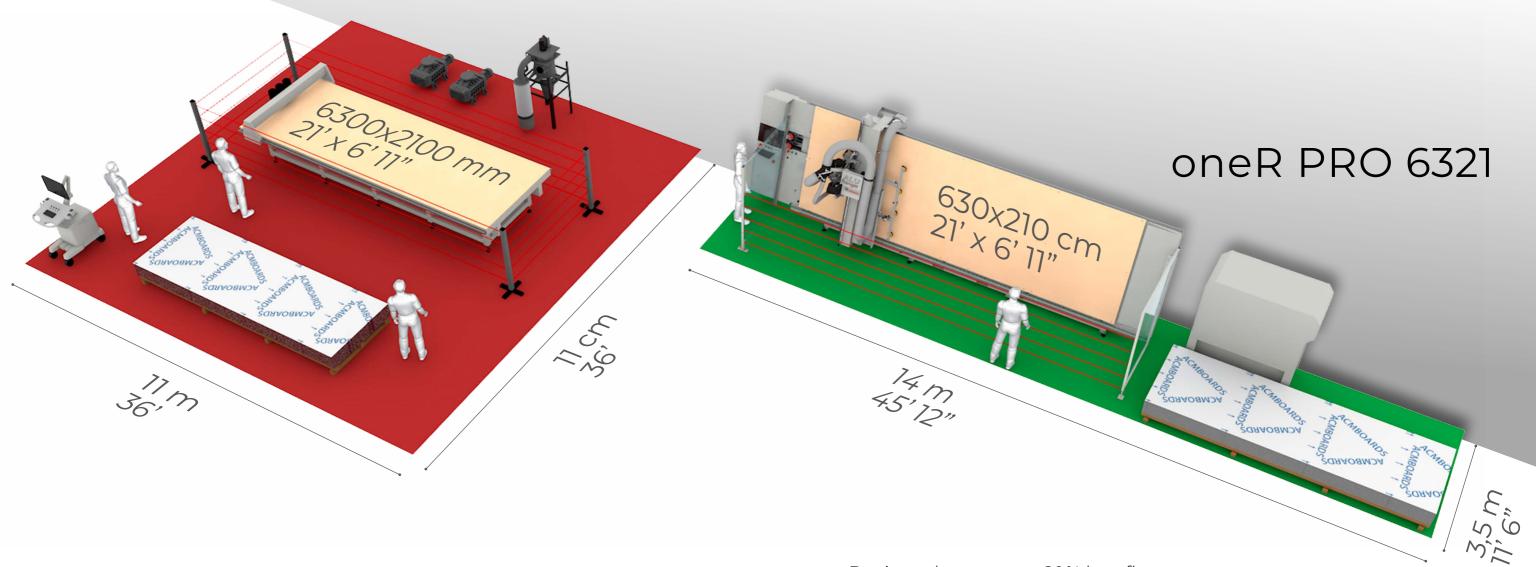
RESOPAL[®] **FUNDERMAX[®]**

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COPANEL[®] SWISS PEARL®

CEMBRIT[®] EQUITONE[®]

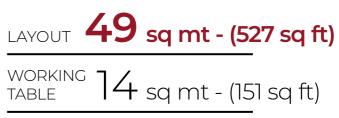
60% SPACE SAVING



- Designed to occupy 60% less floor space
- Ergonomic access to the Vertical Table
- Safer work environment for the operator
- Eliminate table prep, debris not held falls to the floor

CNC PANEL ROUTER CNC PANEL ROUTER 121 sq mt - (1305 sq ft) LAYOUT WITH HORIZONTAL TABLE WITH VERTICAL TABLE WORKING 14 sq mt - (151 sq ft) TABLE

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LOAD AND OFFLOAD

ALU Ranger

CNC Panel Router with Vertical Table for architectural facades panels fabrication.

Integrated automation

- Automatic loading and positioning without operators
- Increased productivity
- Zero risk of panels falling with patented holding device
- Ergonomically designed for easy panel off-loading

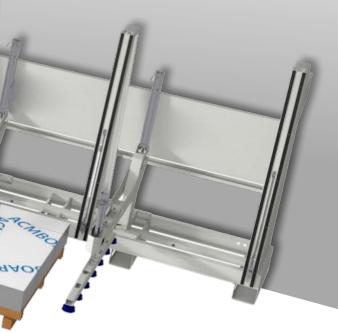
OFF Loader

Automatic Off Loader for processed panels by a tiltable vacuum holding table. Patented.

ALU Loader

GAAOBI

Loading - Positioning device for architectural panels with holding arms with suction cups connected to the vacuum system of ALU Ranger. Patented.





STRONG HOLD

- Vacuum zones designed for standard ACM panels
- Easy Release for processed panels (patent pending)
- No risk of panels falling during off-loading
- Vacuum pumps integrated inside the machine frame: less space required and reduced noise
- Possibility of resuming work on panels that have not been unloaded without losing the references





Vacuum panel holding with MDF sacrificial board.



Dry vacuum pumps (Made in Germany) • 4221 oneR PRO 1x250m³/h pump Std • 6321 oneR PRO 2x250m³/h pumps Std

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• Rapid selection of 24, 32 (respectively 4221, 6321) combinations of vacuum zones according to the ACM panel size (1.000–1.250–1.575 mm) (39"-50"-62")

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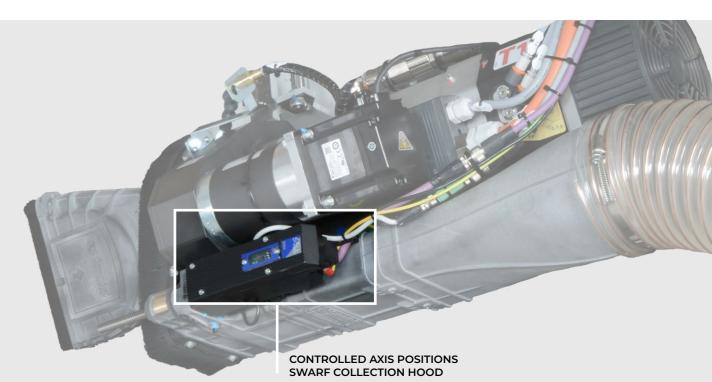


ONER PRO



Double dust collection (flute tool - aggregate) • Swarf collection for flute tool routing

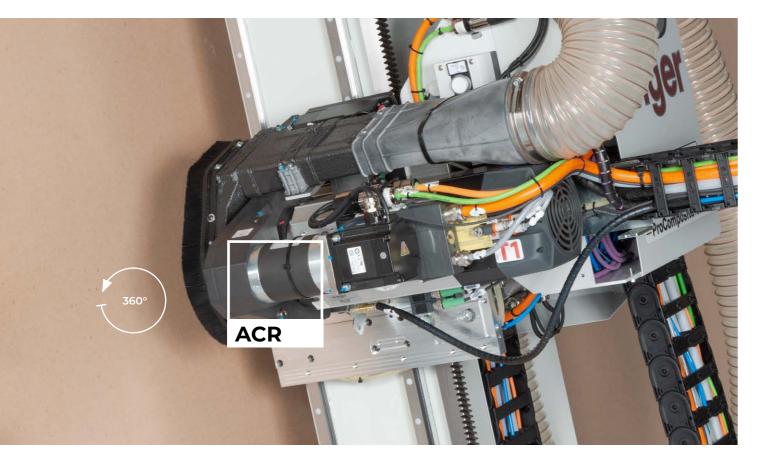
- Numerical Control axis positions swarf collection main hood
- Swarf collection whatever the direction of the aggregate



Swarf collection hood with multiple positioning during processing (PATENTED)



PROCESSING WITH FLUTE TOOL



R8A

ELECTROSPINDLE FOR FLUTE TOOLS AND AGGREGATES

- High-efficiency electrospindle
- High-resistance ceramic bearings
- Power 8 kW up to 24000 RPM -Electroventilated
- Numerical controlled integrated swarf collection hood (patented)

ACR

• Fourth positioning Axis 0-360° to cut in any direction with aggregates

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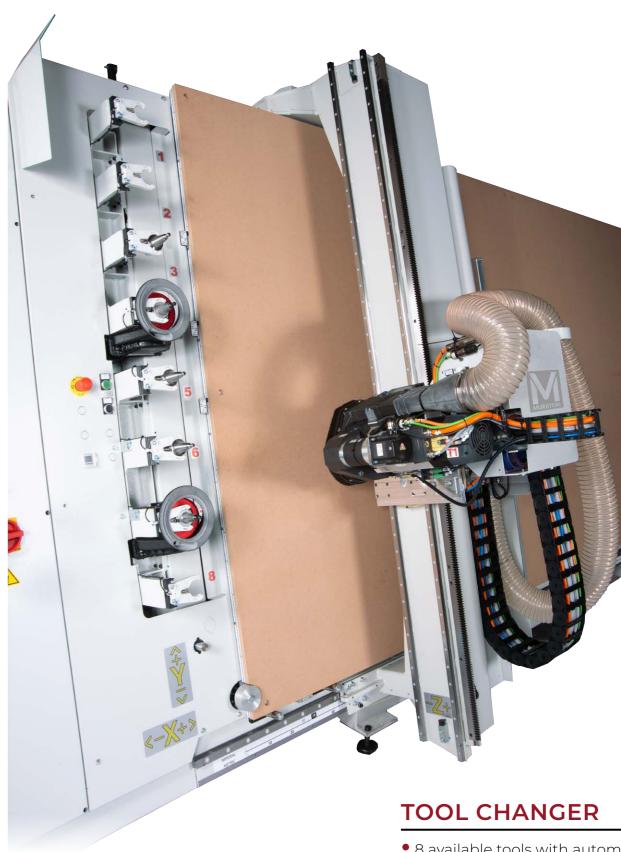
PROCESSING WITH AGGREGATES

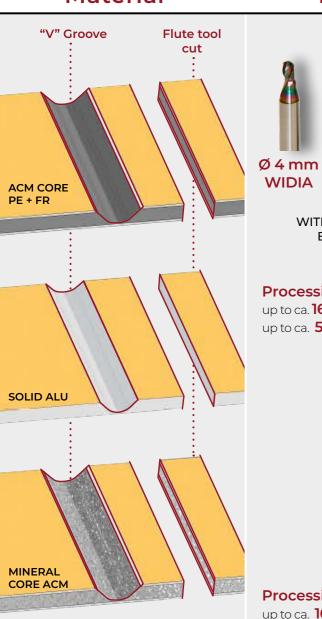
Material

Flute tool

VGroove

VERSATILE AND FAST









Ø6mm DIAMOND VGROOVE DIAMOND

up to ca. 16 mt/1' - 630 IPM (ACM MIneral Core)

- Processing speed*:
- up to ca. 30 mt/1' 1181 IPM (PE + FR core) up to ca. 8 mt/1' - 315 IPM (Solid Alu) Ø 10 mm up to ca. 12 mt/1' - 470 IPM (ACM MIneral Core)

AGGREGATE

WHISPERCUT® Diamond tips

VGROOVE _ Ø 125 mm

Processing speed*:

Processing speed*: up to ca. 6 mt/1' - 236 IPM

Processing speed*: up to ca. 6 mt/1' - 236 IPM



HPL up to 12 mm

FIBERCEMENT up to 10 mm

> **Processing speed*:** up to ca. 10 mt/1' - 393 IPM



IPM= INCHES PER MINUTE

* Indicative speeds for an optimal quality/duration ratio

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• 8 available tools with automatic change

• Cone presence sensor

VERTICAL STRUCTURE



- Table flatness is guaranteed by machining the frame vertically
- The robust vertical design absorbs more vibration which results in less chatter marks during processing that will extend tool life
- Operator's safety is increased by side protection barriers and a safety light curtain



Hand-held remote control (Opt)

- 4 lines and 16 characters
- Axis manual control "JOG"
- Speed control "Override"

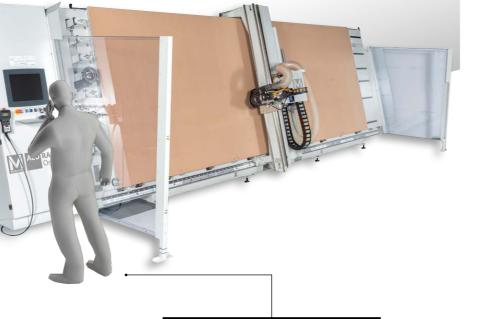


Top gantry motor



Electrical cabinet and control panel integrated into the vertical frame

- CE compliant
- Main components Made in Germany and Japan
- Perfectly accessible and free from electromagnetic disturbances



Ergonomic access to the work table

- Optimal control of the whole process
- Total view of the machine
- High level of safety for the operator



Industrial numerical control

- Up to 7 axis controlled (X,Y,Z interpolating)
- 17" LCD colour monitor
- Ethernet connection, USB, mouse



Automatic lubrication for linear guides



Automatic presetter for tool length

- Fully automatic
- Measurement tolerance ± 0.02 mm ± 0.0007 In



Origin pop-up stops

- Bearing for easy panel sliding
- Pneumatic control with safety sensor connected to PLC



Automatic lubrication for tools

PROGRAMMING WITH CAD/CAM SOFTWARE

DXF drawings

Possibility of creating, modifying and implementing

IMPORT OF DXF FILES

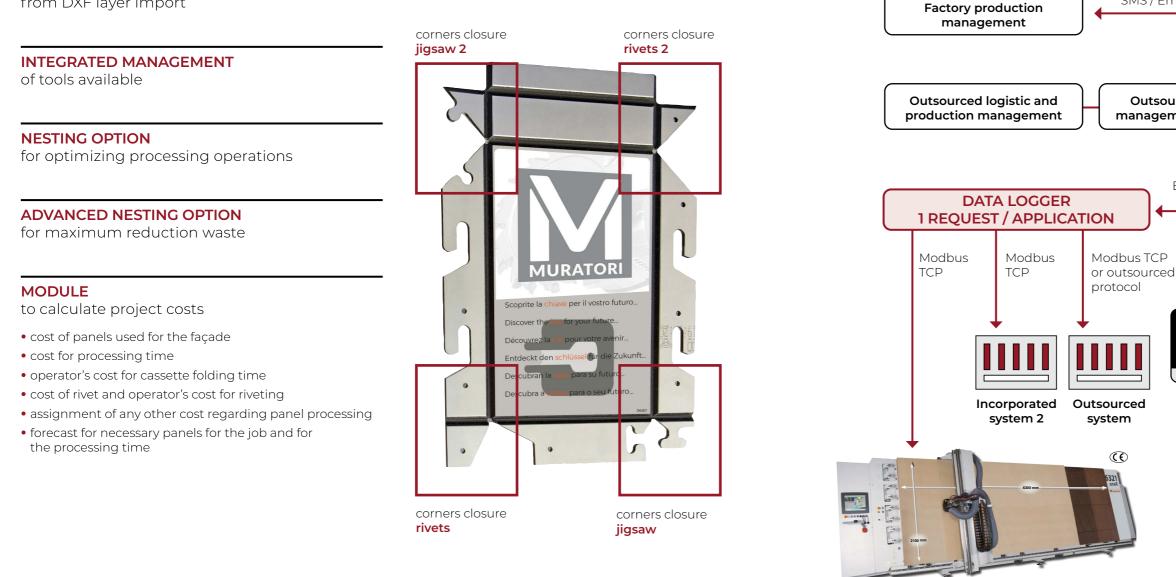
from Autocad[®] or other CAD programs

ESPORTAZIONE FILE CAM

to Vertical Machining Centre

AUTOMATIC TOOL ASSIGNMENT

from DXF layer import



SMART FACTORY_4.0

- Collaboration between operator, machine and devices
- System's integration

Mobile's

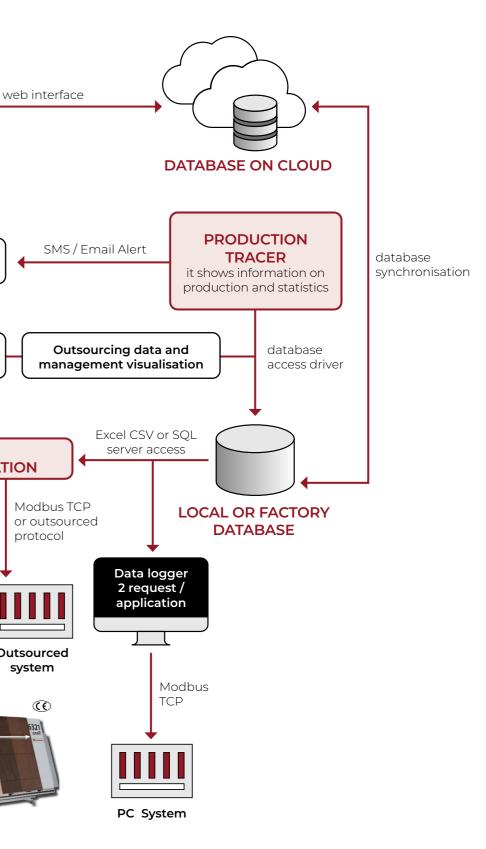
applications:

Android, IOS, Windows



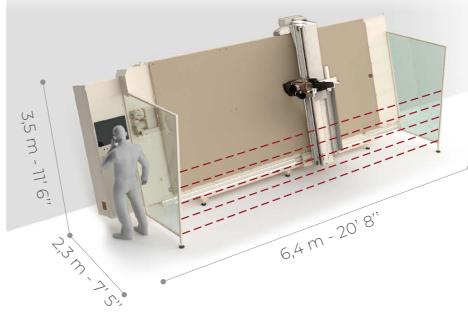
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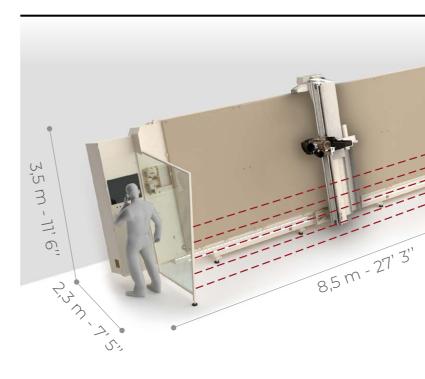
Incorporated system 1



DIMENSIONS

Technical features	ALU Ranger oneR PRO 4221	ALU Ranger oneR PRO 6321
Working table (mm)	X 4200 - Y 2100 - Z 90	X 6300 - Y 2100 - Z 90
Working table (imperial)	X 14' - Y 6' 11'' - Z 3' ½	X 20' 8" - Y 6' 11" - Z 3' ½
Panel holding, vacuum by working table with MDF sacrificial board (selection by PLC)	6 zones AUTO	8 zones AUTO
Panel holding vacuum by zones combinations	24	32
Vacuum pump	1 x 250 m³/h	2 x 250 m³/h
	1 x 147 Cfm	2 x 147 Cfm
Axis speed (Rapid)	X 30 - Y 30 - Z 10 mt/min X 1181 - Y 1181 - 394 IPM	
Electrospindle R8A	8 Kw - collet ER32 up to 24000 g/min	
Automatic tool changer - working table side	8 positions - cones ISO30 - cone sensor	
Total power	min 14 KW – max 24 KW	min 19 KW – max 29 KW
Max weight of panel under process	ca. 250 Kg	ca. 350 Kg
	ca. 550 Lb	ca. 772 Lb
Total weight	ca. 2700 Kg	ca. 3600 Kg
	ca. 5952 Lb	ca. 7930 Lb





We reserve the right to make modifications. The machine can include equipment not shown in standard version.

For photographic reasons some units are without protections. The use of machine must be made with all protections installed.

WORKING TABLE X 6300 - Y 2100 - Z 90 mm X 20' 8" - Y 6' 11" - Z 3' ½ SURFACE OCCUPIED L 8,5 m - P 2,3 m - H 3,5 m L 27' 3" - P 7' 5" - H 11' 6" SURFACE OCCUPIED WITH ALU LOADER L 15,3 m - P 2,3 m - H 3,5 m L 50' 2" - P 7' 5" - H 11' 6" WORKING TABLE SURFACE 14 m² - 151 sq ft SURFACE OCCUPIED ca. 19,5 m² - 210 sq ft

ALU Ranger 6321 oneR PRO

L 20' 8" - P 7' 5" - H 11' 6 SURFACE OCCUPIED WITH ALU LOADER L 11,1 m - P 2,3 m - H 3,5 L 36' 41" - P 7' 5" - H 11' 6 WORKING TABLE SURFA 8,8 m² - 95 sq ft SURFACE OCCUPIED ca. 15 m² - 161 sq ft

WORKING TABLE X 4200 - Y 2100 - Z 90 mm X 14' - Y 6' 11" - Z 3' ½ SURFACE OCCUPIED L 6,4 m - P 2,3 m - H 3,5 m L 20' 8" - P 7' 5" - H 11' 6" SURFACE OCCUPIED WITH ALU LOADER L 11,1 m - P 2,3 m - H 3,5 m L 36' 41" - P 7' 5" - H 11' 6" WORKING TABLE SURFACE 8,8 m² - 95 sq ft

ALU Ranger 4221 oneR PRO

MURATORI MACHINES



Antonio Muratori

received his training at and became an expert in the family business, where, thanks to almost three decades of experience, he has conceived. designed, and built the technology for automated handling and processing of composite panels.

For three generations the Muratori family have been manufacturing machines for the wood processing industry, while evolving and diversifying its production to include machines for processing aluminium panels and composite materials. Suitable for architectural façade cladding, the transport industry, interior design and sign-making sectors.



About us

Muratori Machines was established and followed in the footsteps of the tradition and know-how acquired by Casadei Industria ALU. It now has a robust industrial organisation where, under the guidance of Antonio Muratori, its technologies, machines and CNC for the processing of ACM, solid aluminium, aluminium honeycomb, HPL and fibre cement panels are designed and built. Professionalism, expertise and with an open mind making it possible to meet the needs of customers. Introducing automation to the world of composite panel processing, while responding to production requirements. Totally committed the team at Muratori Machines focuses on innovation and quality with a view to finding ground-breaking solutions and revolutionising design and manufacturing models.

CNC machining innovation incorporating a Vertical Table

The innovation factor finds full expression in the vertical positioning of the working table. Thanks to automated panel loading, positioning and offloading systems, the integrated work cell achieves exceptional productivity levels.



The advantages of a vertical

- Quality assurance during processing

VISION

We aim to break the status quo and revolutionise traditional design and manufacturing methods, with a view to maximising ergonomics, operability, and ease of use.



MISSION

We facilitate traditional production cycles for our customers. Using innovative technology within everyone's reach automating processes, involving composite material processing.

THANK YOU



On behalf of our employees and partners around the world, thank you for your interest in Muratori Machines.

Since the first ACM panel routed in 2006 we have one mission: to create and provide the best composite material panel handling and fabricating experience possible.

Muratori Machines have invested for the long term, consistently dedicating resources to researching and developing innovative panel routers, handling technologies and services that provide value to our customers.

This approach has culminated in our range: the Alu Ranger, Alu Loader, Double Loader, Off Loader, Alu Folder, Alu Bender, Alu Doubler.

In short, we have revolutionized the concept of panel routing and with it, the business of the panel fabricating industry.

Thank you again for your interest in exploring Muratori Machines.

We are ready to improve your business.

Sincerely, Antonio Muratori CEO Muratori Machines

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