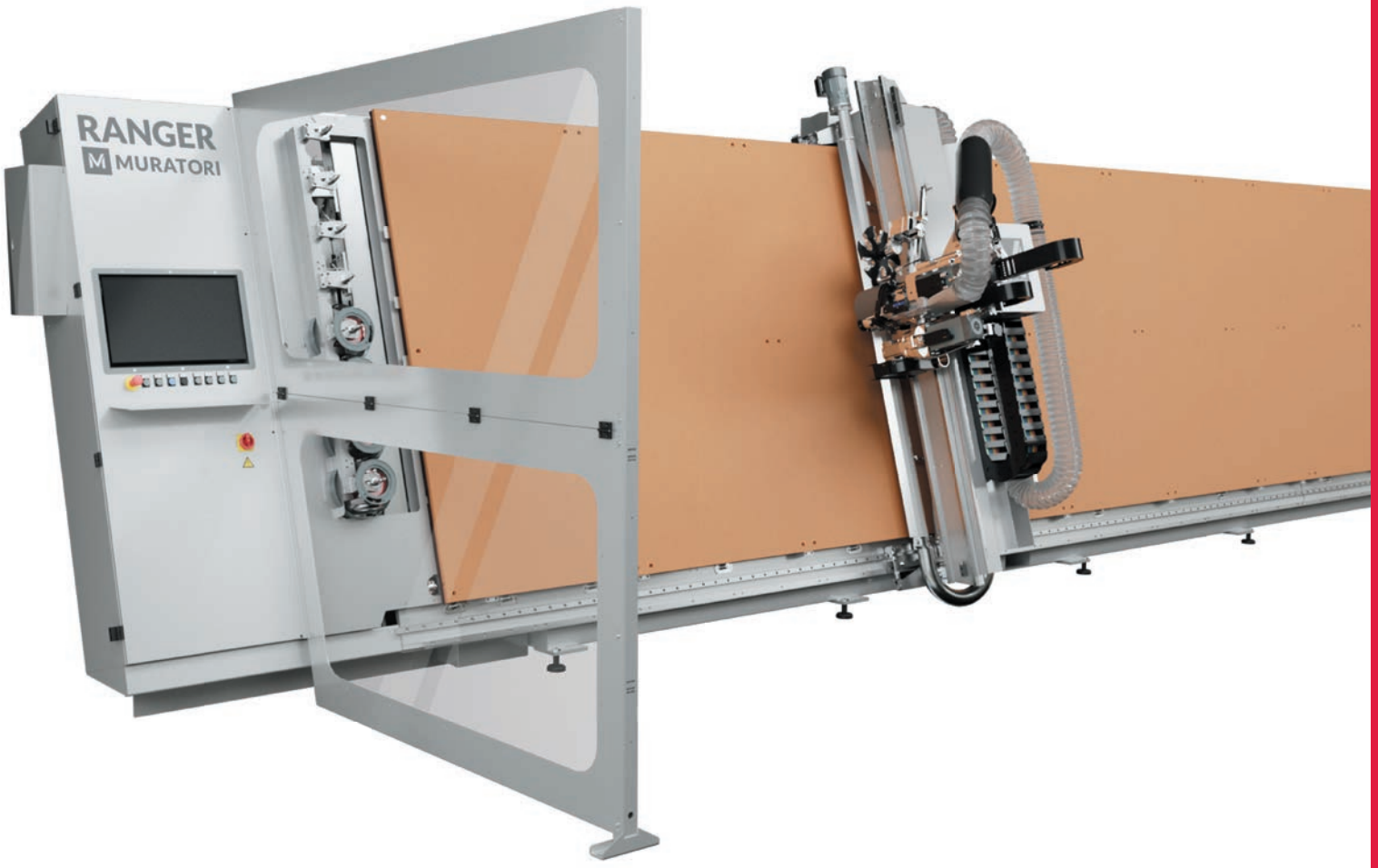
MURATORI

The Vertical Revolution for panel processing

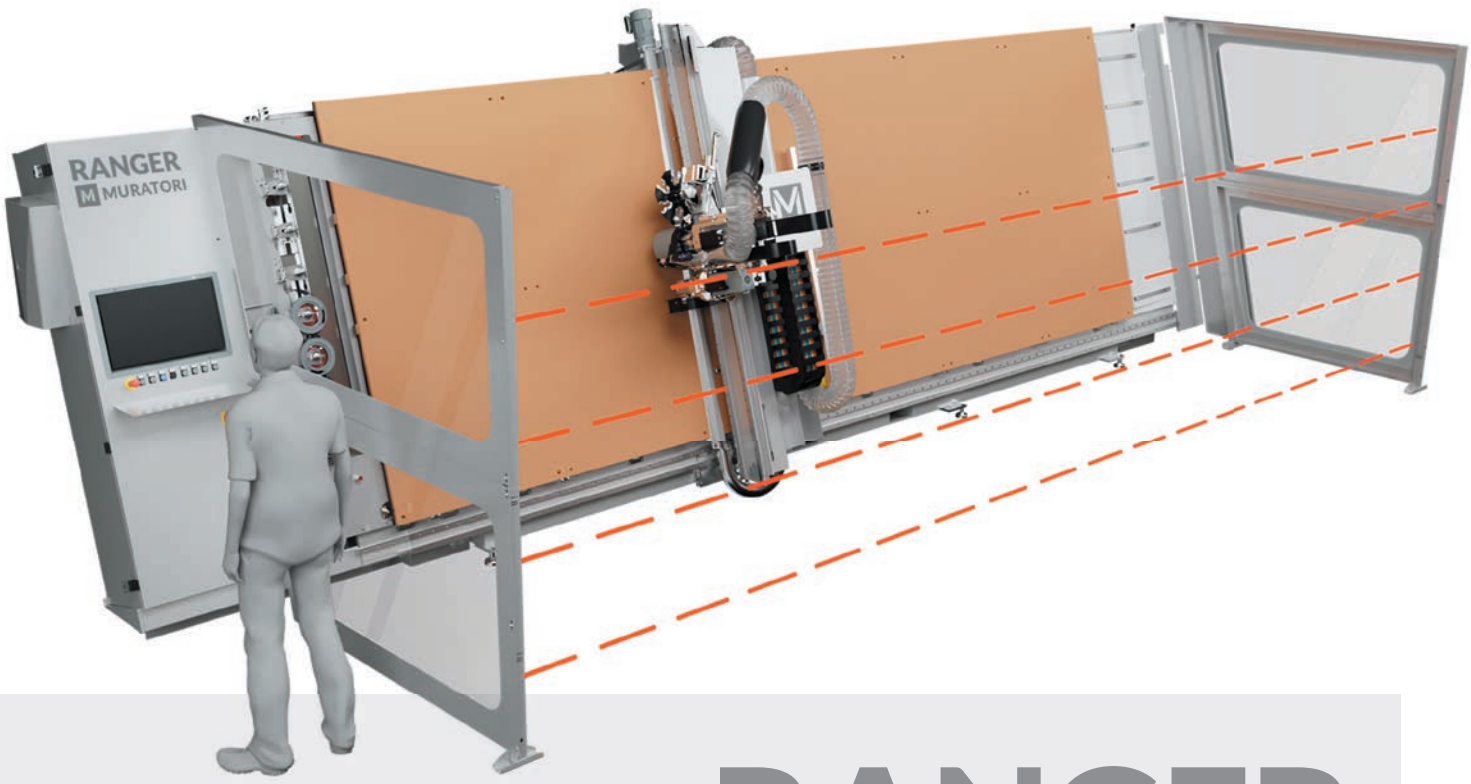


RANGER CNC

High-speed CNC Panel Router with Vertical Table

RANGER

THE PANEL ROUTER WITH VERTICAL TABLE



RANGER is the Panel Router with Vertical Table for high-speed panel cutting, drilling and milling.

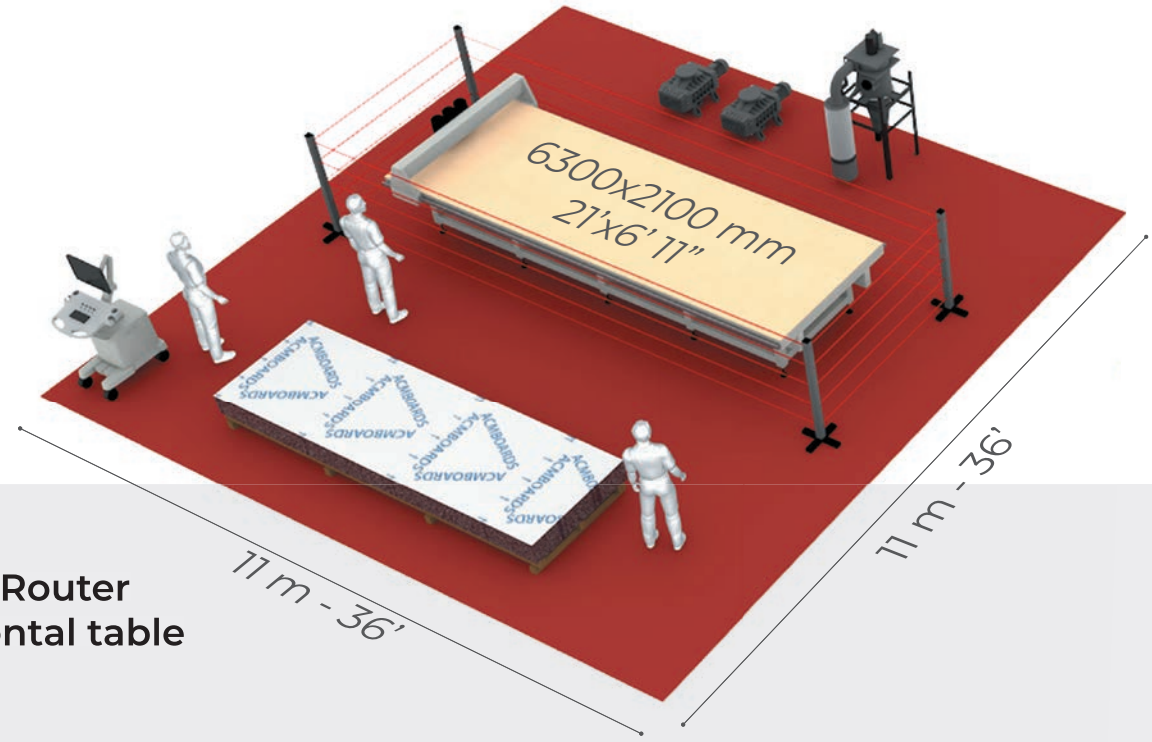
RANGER
MURATORI

Ranger is a machine designed and equipped to process panels made of different materials, such as solid aluminium, ACM, HPL, fibre cement, wood and plastic, which are used in a variety of sectors, including architecture, industry, transport, interior design and visual communication.

The **verticality** of the worktable, its **solid construction** and **patented automation systems** are just 3 of the significant benefits of Ranger that ensure increased safety, efficiency, cleanliness and quality during processing.

CHOOSING A VERTICAL TABLE

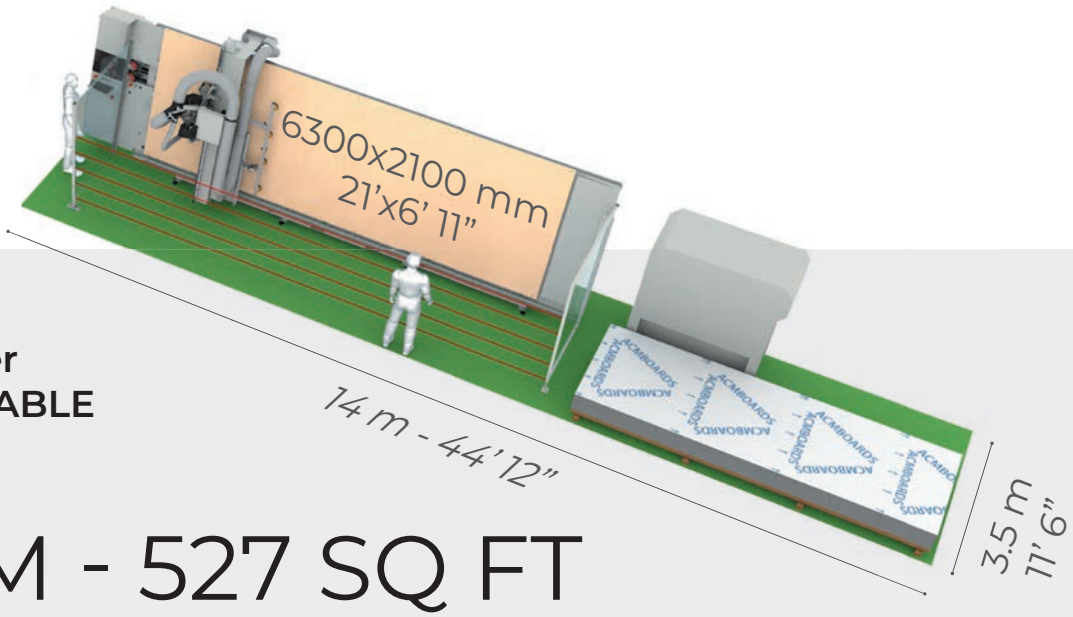
SPACE SAVING: 60%



CNC Panel Router with horizontal table

LAYOUT

121 SQ M - 1305 SQ FT



CNC Panel Router with VERTICAL TABLE

LAYOUT

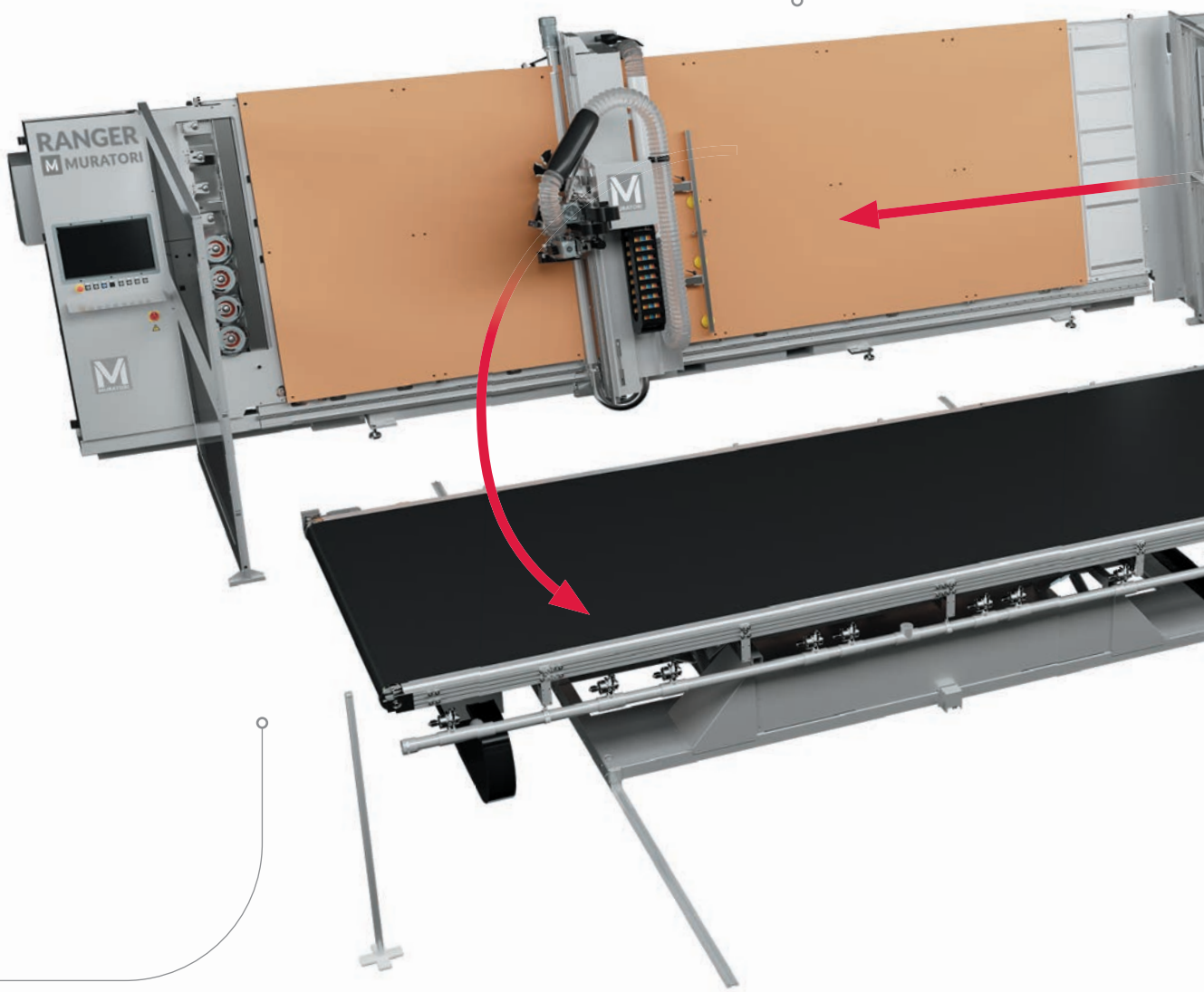
49 SQ M - 527 SQ FT

CHOOSING A VERTICAL TABLE

OTHER ADVANTAGES

SAFETY

The vertical worktable, the side guards and the photoelectric cells light-curtain fitted on the Panel Router guarantee a high level of safety for the operator

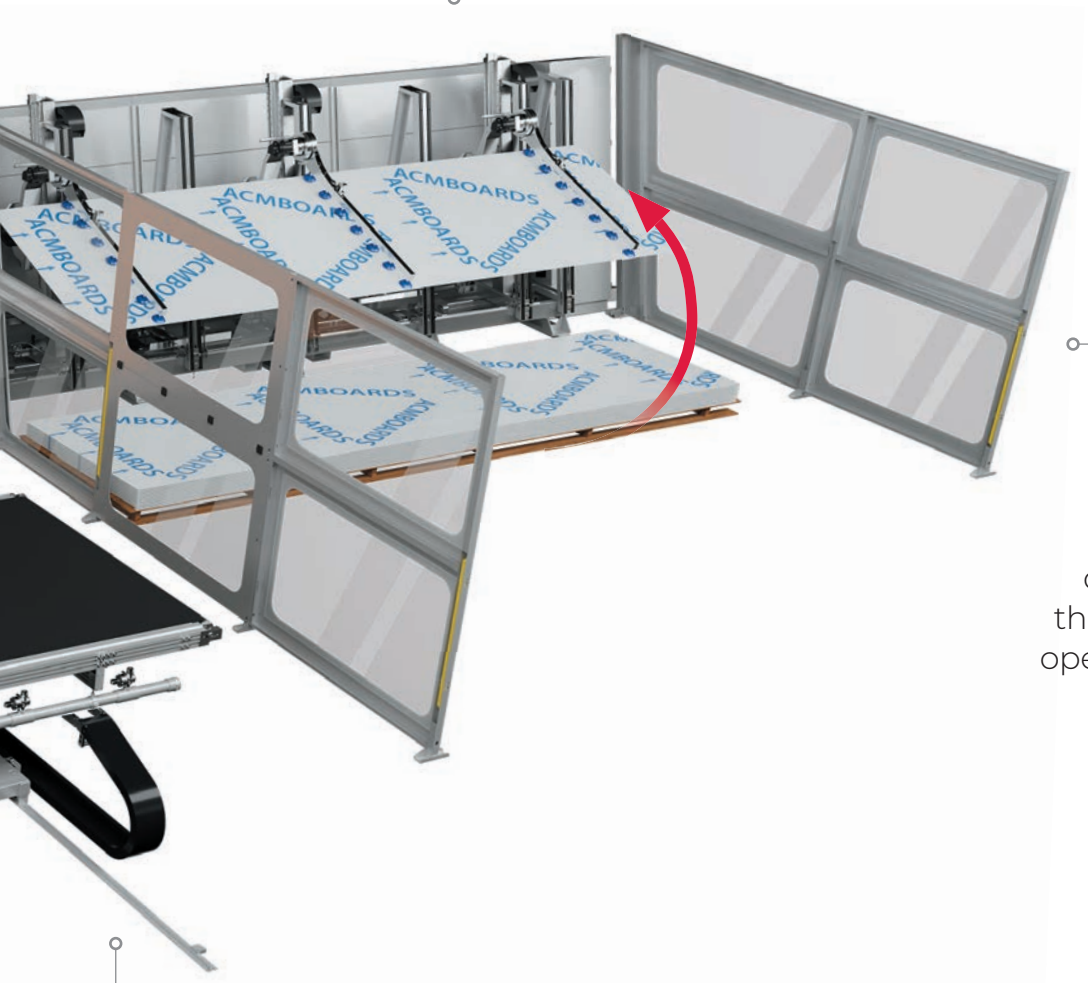


CLEANING THE TABLE

Thanks to the verticality of the worktable, the swarf and dust produced and not sucked up during the process fall to the floor, leaving the surfaces perfectly clean, thereby preserving the painted finish of the panels

LARGE PANELS

The height and solidity of the base, and the flatness of the vertical structure, ensure that large panels can be processed while occupying the least possible space



ERGONOMICS

The verticality of the Panel Router table and its automation in loading and offloading operations make the work more ergonomic for operators, whilst also reducing the risk of panels falling

AUTOMATION

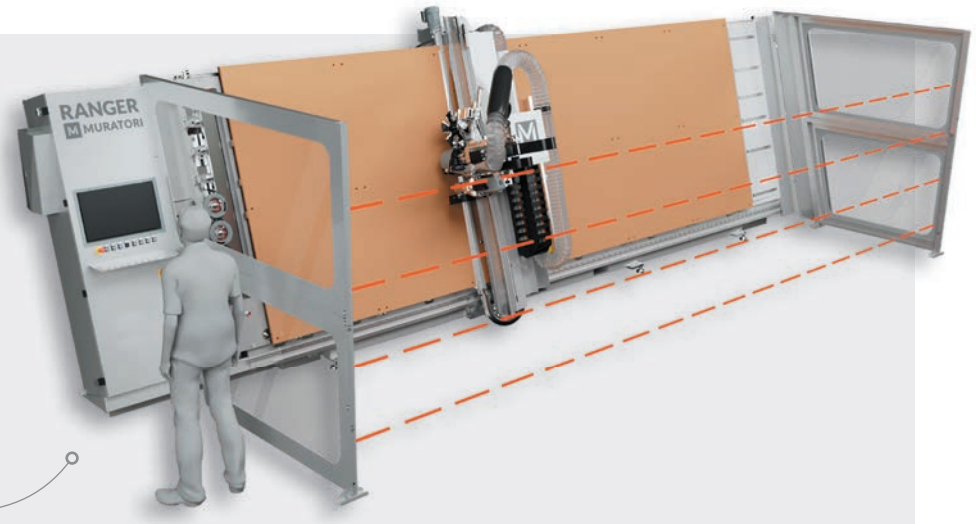
The patented automation for the crucial steps to load the panels, position them on the Panel Router and offload the processed panels provides increased efficiency and productivity, enabling just one operator to work in a continuous cycle

MACHINE CHARACTERISTICS

A SOLID STRUCTURE FOR RATIONAL DESIGN

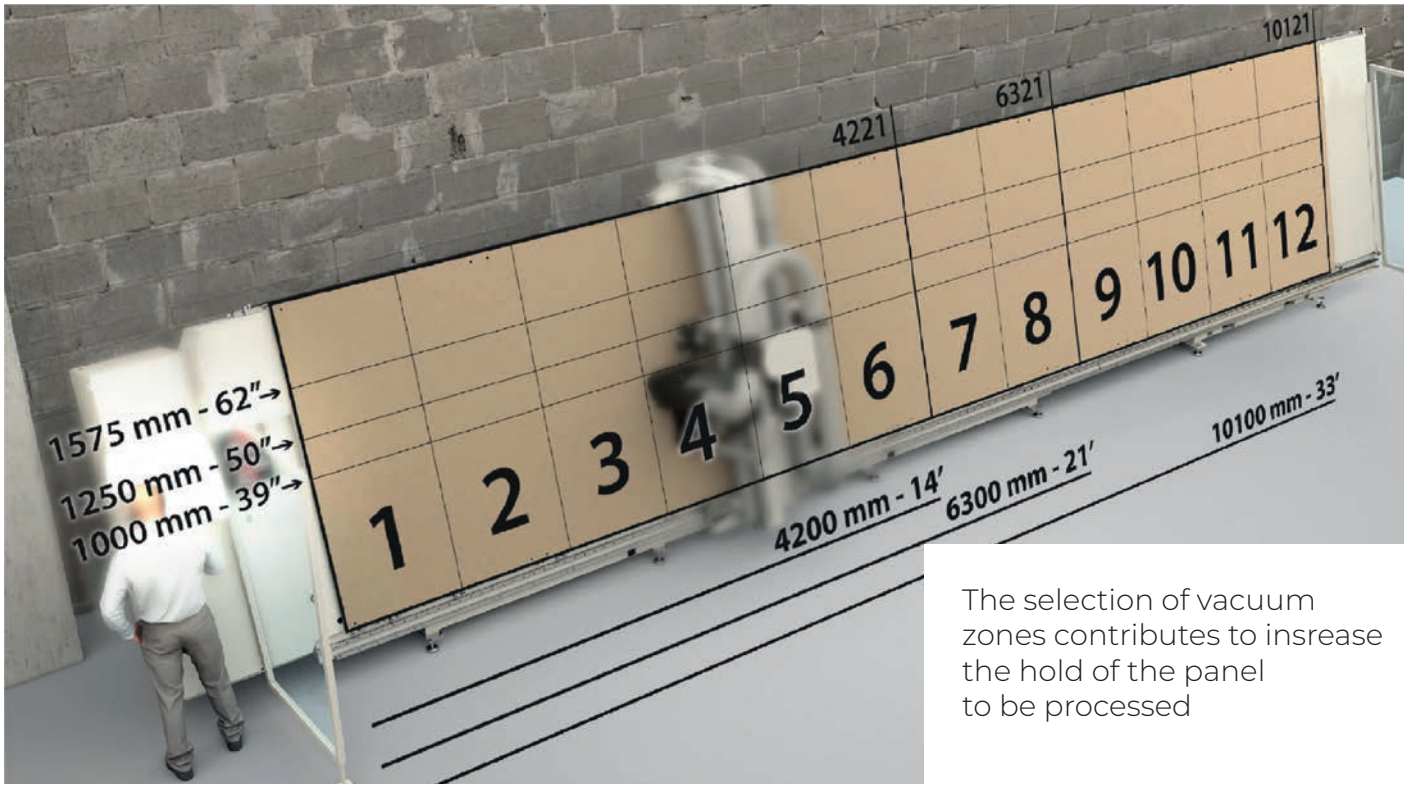
The rigidity of the vertical structure ensures greater vibration absorption, less cutting indentation and longer tool life.

Vacuum pumps integrated in the machine frame



Electrical panel and control panel integrated in the machine frame

AUTOMATIC MULTI-ZONE WORKTABLE



The selection of vacuum zones contributes to insrease the hold of the panel to be processed

Automatic vacuum table pressure control insures the safe and efficient unloading of fabricated panel parts (patented)

MACHINE CHARACTERISTICS

PC integrated in the electrical cabinet, with 24” protected and swivelling screen

Automatic tool length presetter

Automatic linear guide lubrication

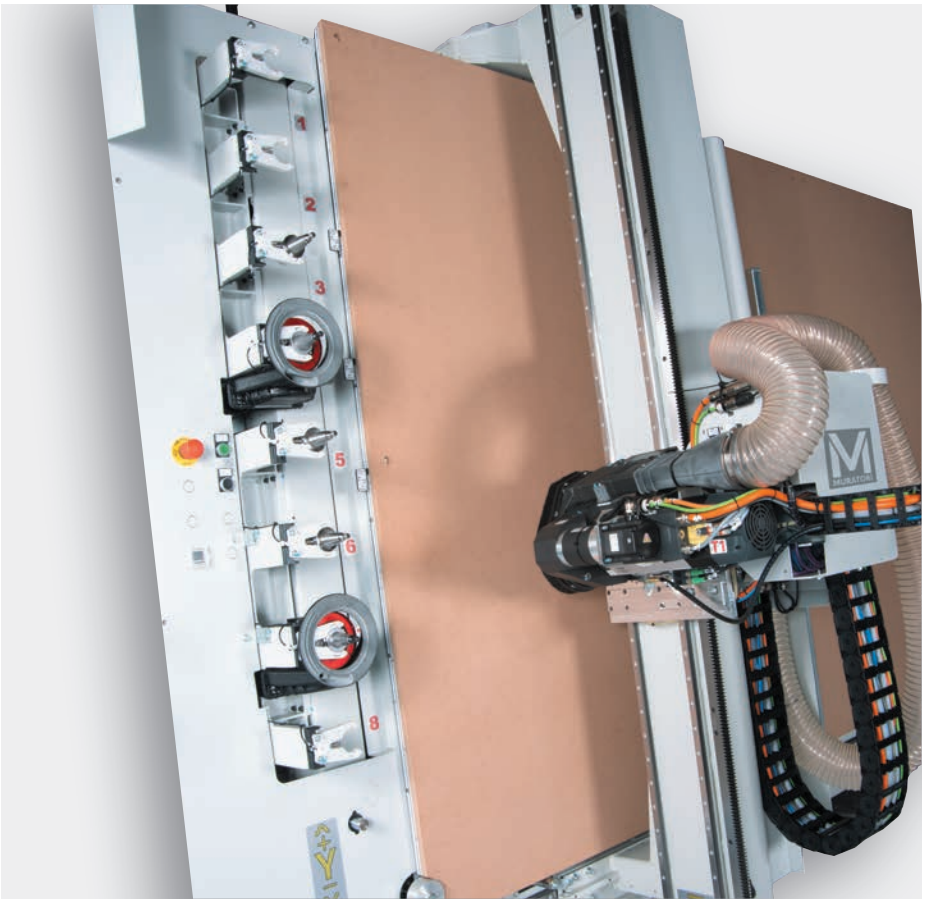


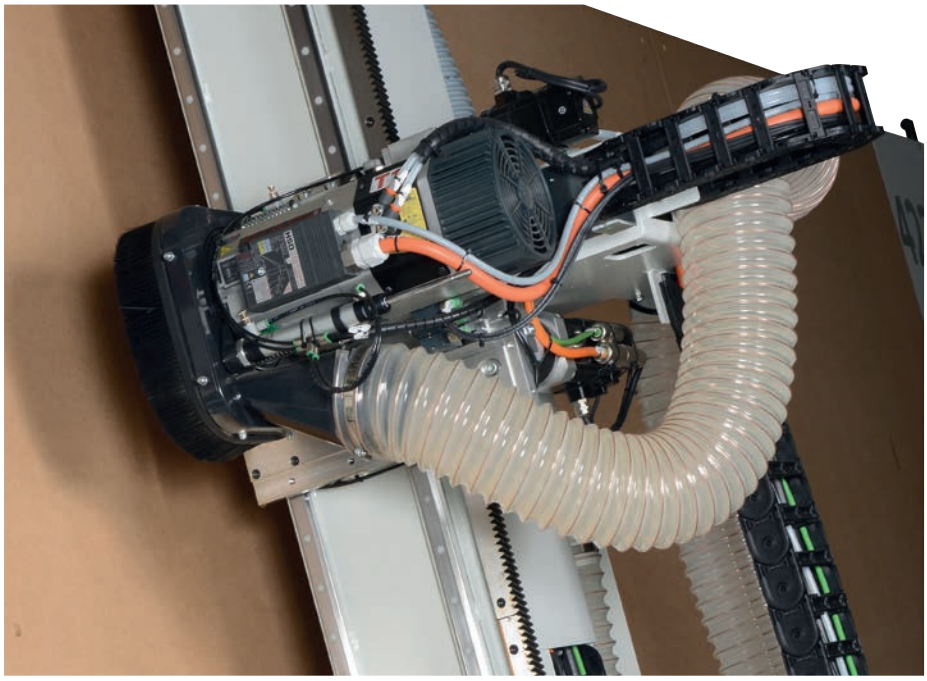
Table-edge mounted 8 position linear tool holders, with tool present sensors, guarantees fast and secure automatic tool changes

Motorised brush for cleaning the worktable, with dust extraction (optional)

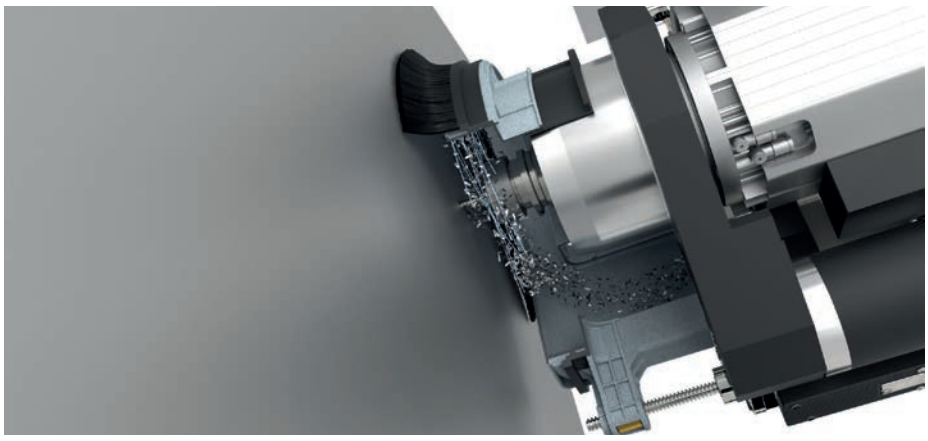
Wired handheld controller (optional)

HEAD CONFIGURATION

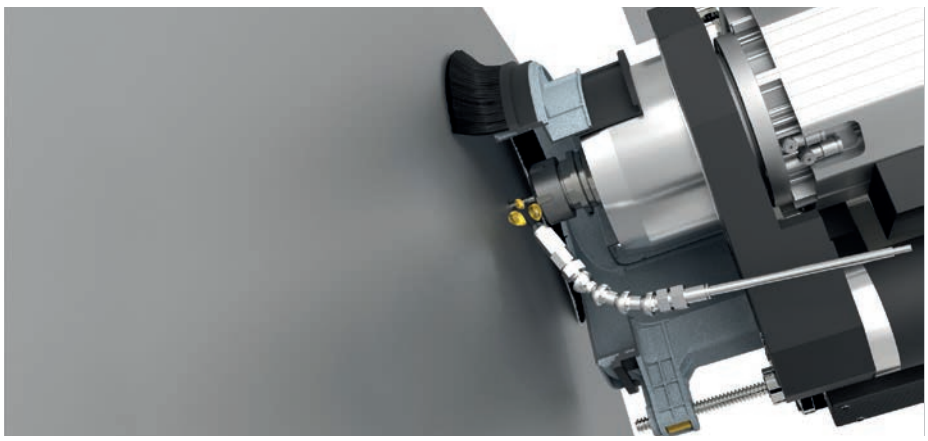
Basic configuration with electrospindle and integrated dust extraction hood



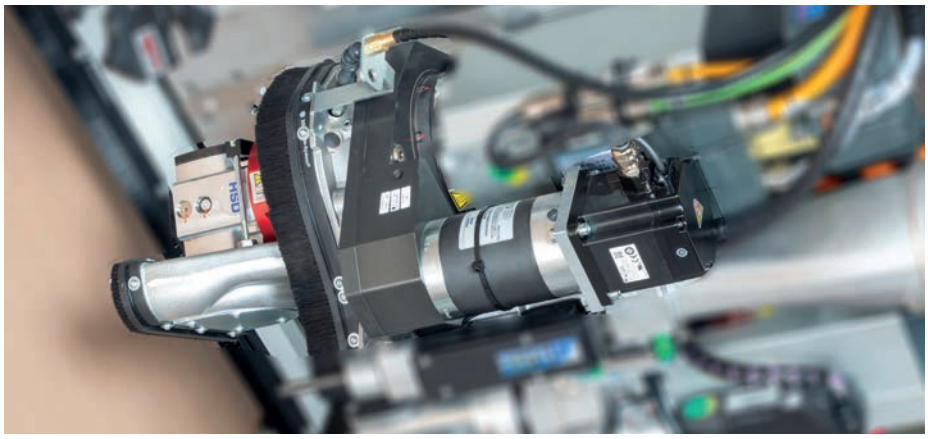
Dust extraction hood with controlled positioning (patented)



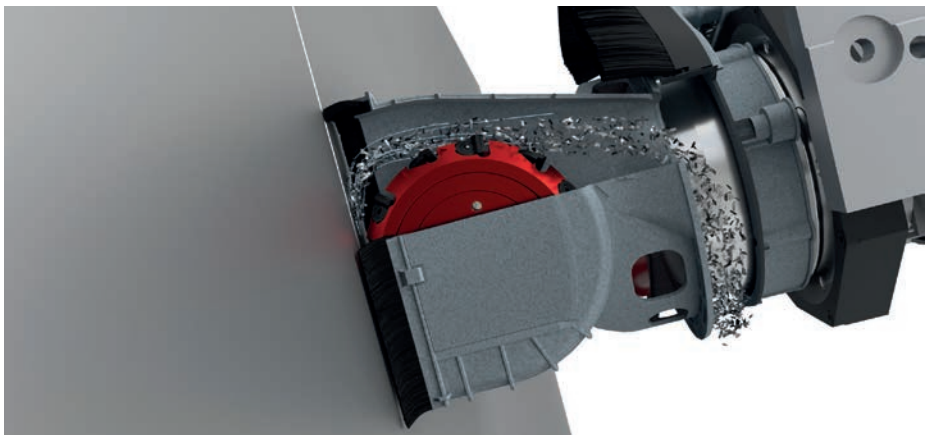
Automatic tool mist lubrication



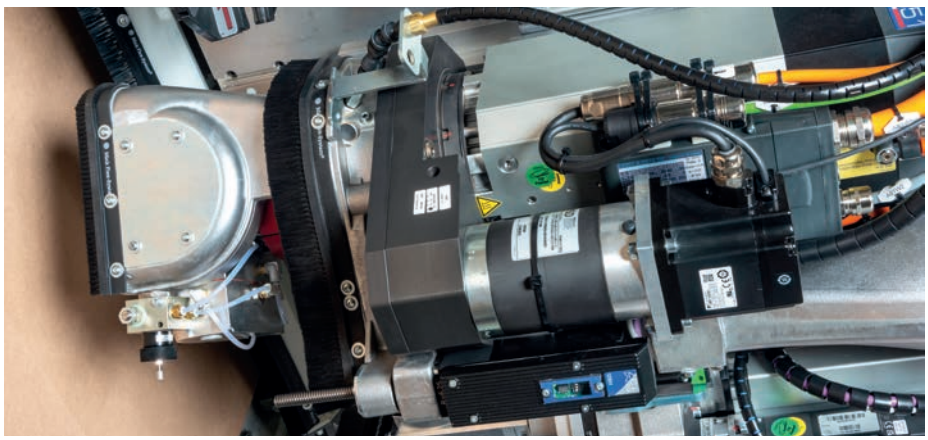
Automatic head- mounted tool change with 6 positions



“C” axis controlled rotation for aggregates

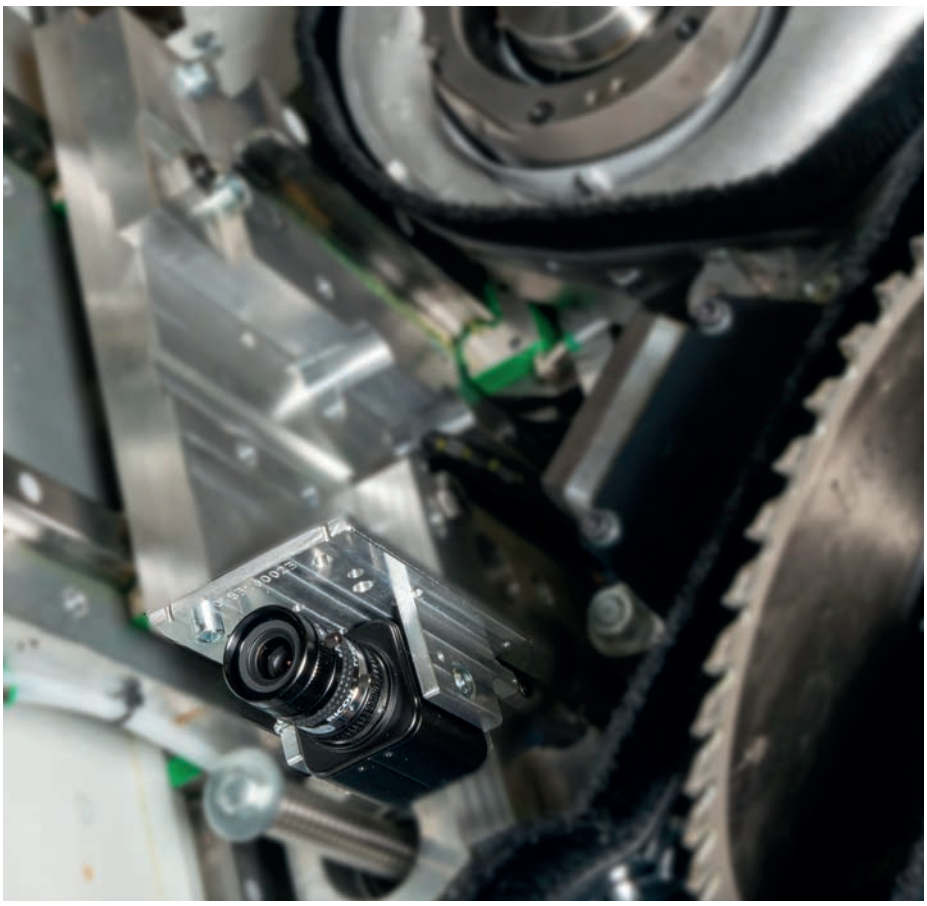


Aggregat for VGroove or saw blade with extraction hood (patented)

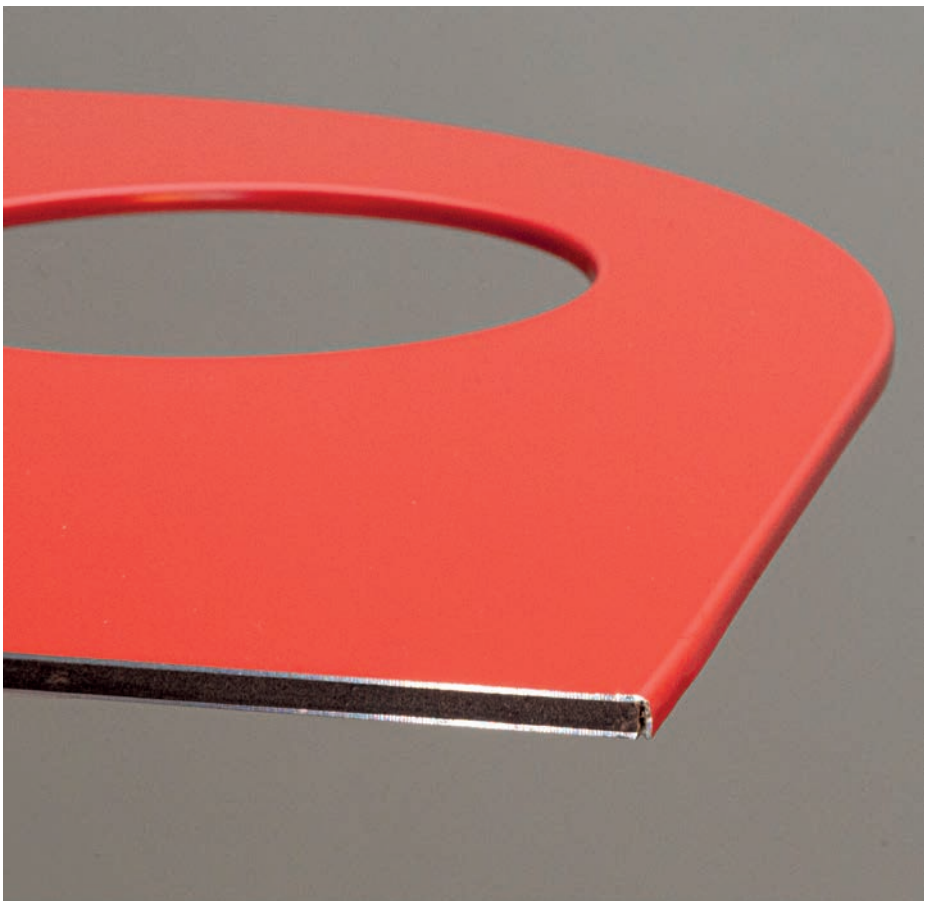


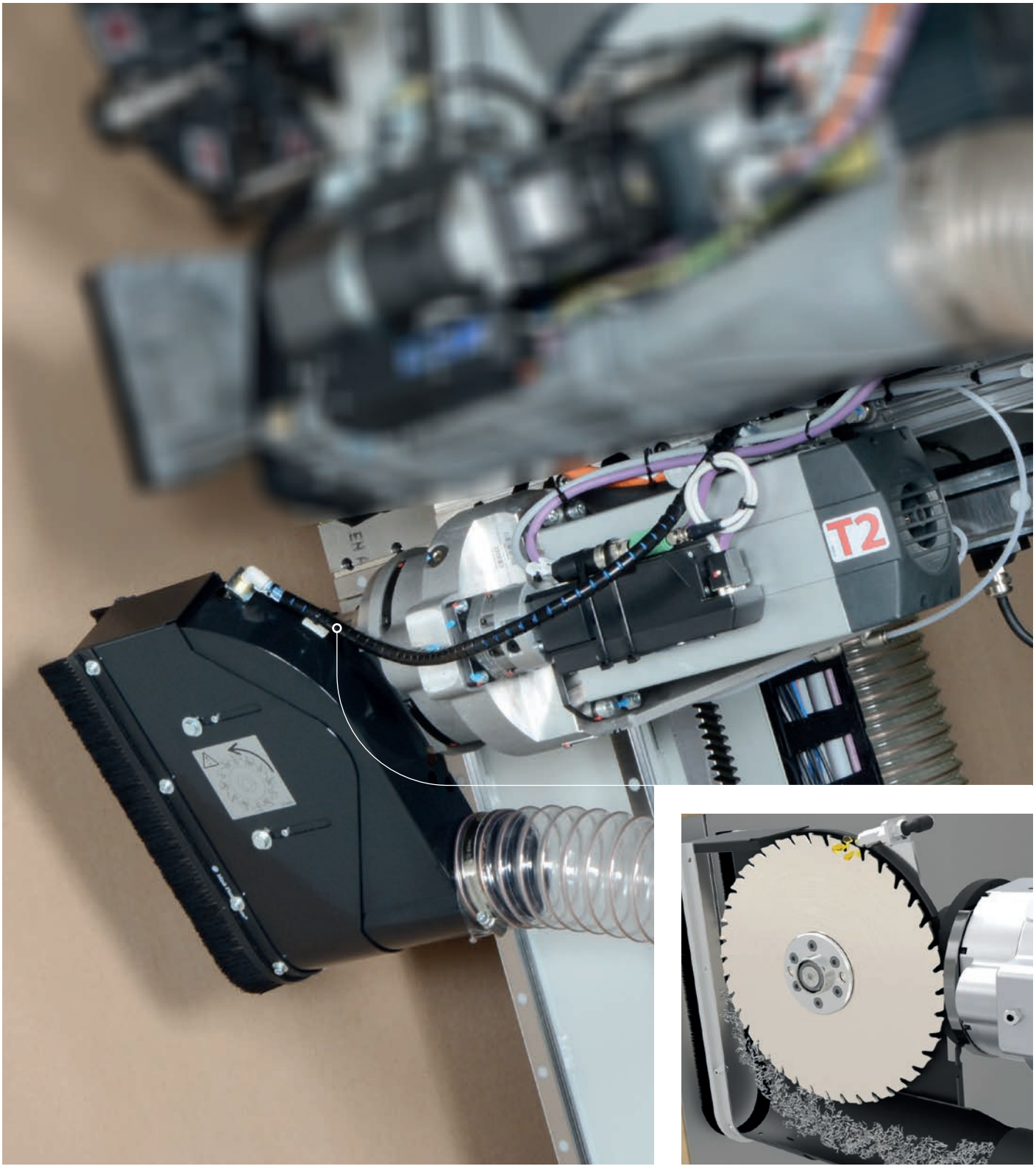
Aggregat for VGroove or saw blade with extraction hood (patented) and tool mist lubrication (patented)

Camera for registration marks recognition



Curve Bending: ACM edge bending process





Independent unit with controlled rotation for panel sectioning and high-efficiency dust extraction hood

Automatic blade mist lubrication

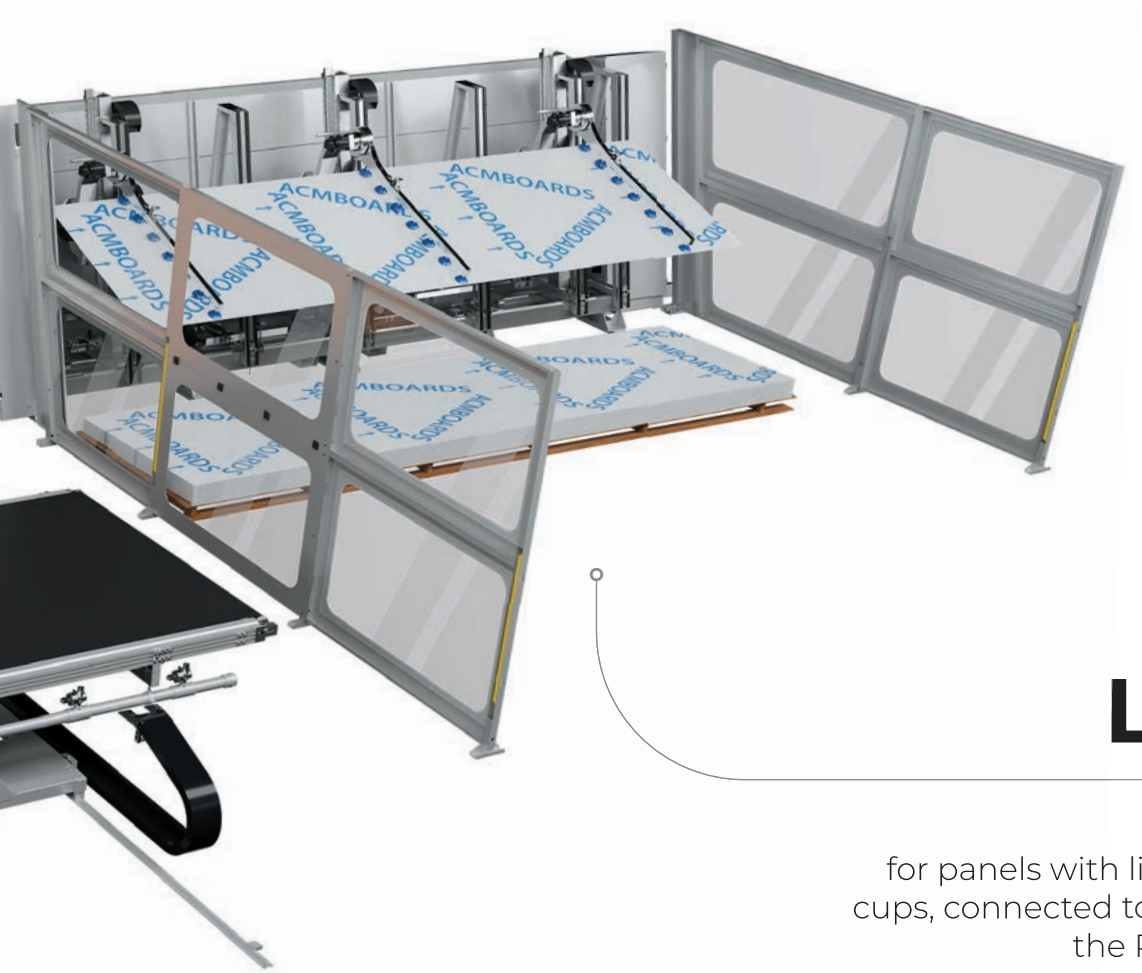
THE VALUE OF AUTOMATION

INTEGRATED WORK CELL TO AUTOMATE PANEL LOADING, POSITIONING AND OFFLOADING

RANGER

Panel Router with Vertical Table
for processing panels for a variety of sectors.

- Increased daily productivity
- Zero risk of panels accidentally falling
- Easy panel offloading
- Automatic panel loading without operators
- Automatic panel positioning - **FEEDER**



LOADER

Loader - Positioner
for panels with lifting arms with suction cups, connected to the vacuum system of the Ranger CNC. (patented)

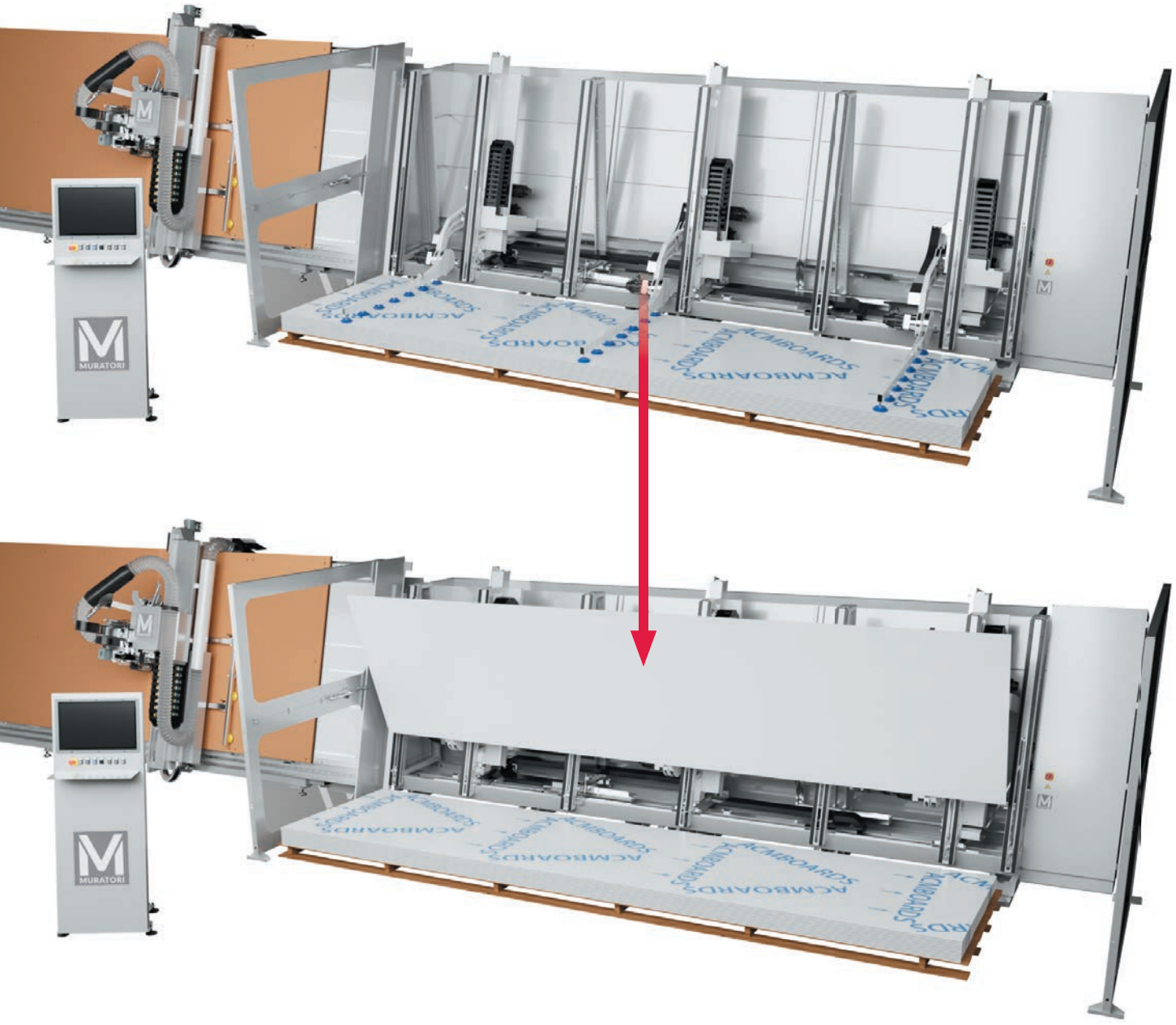
OFF LOADER

Automatic Off Loader
for panels, by tilting vacuumed table. (patented)

DOUBLE LOADER
(PATENTED)

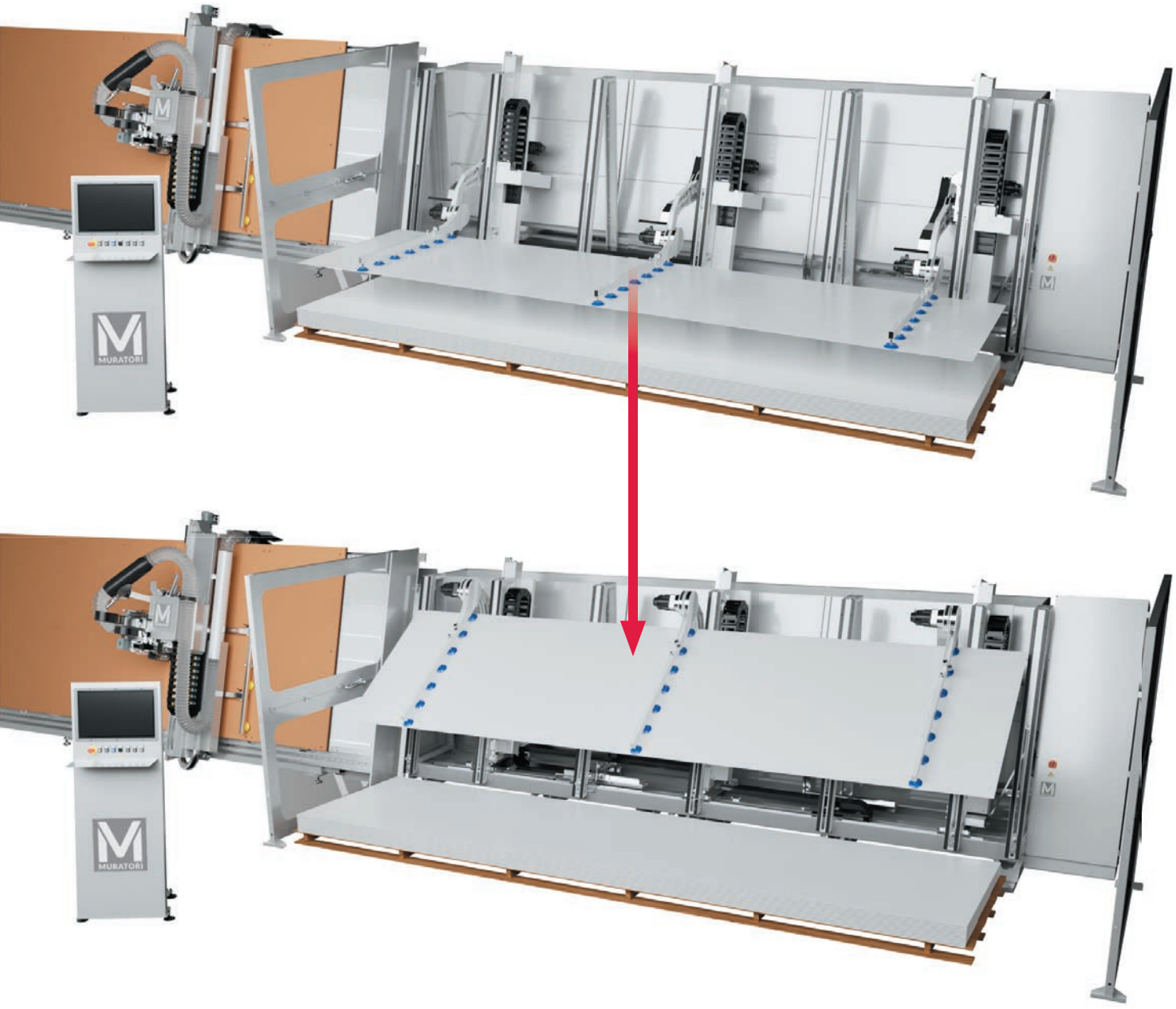
DOUBLE LOADER is the automatic loading system for panels, with preferential side loader.

LIFTING
Allows the operator to load panels, which are stacked with the face to be processed facing down.



The Double Loader allows panels to be loaded either by lifting, flipping or alternately lifting/flipping.

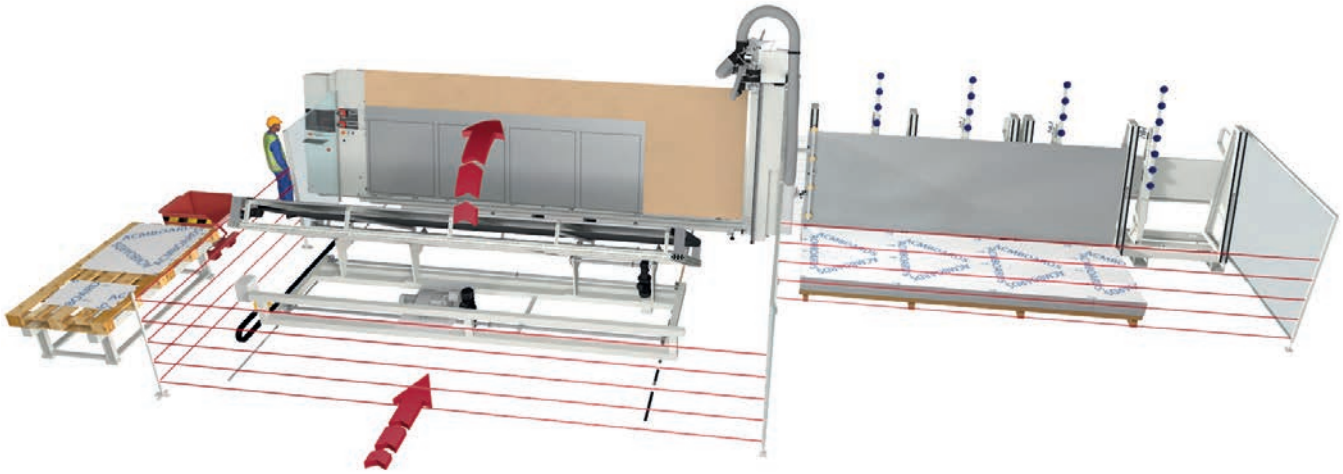
FLIPPING
Allows the operator to load panels, which are stacked with the face to be processed facing up.



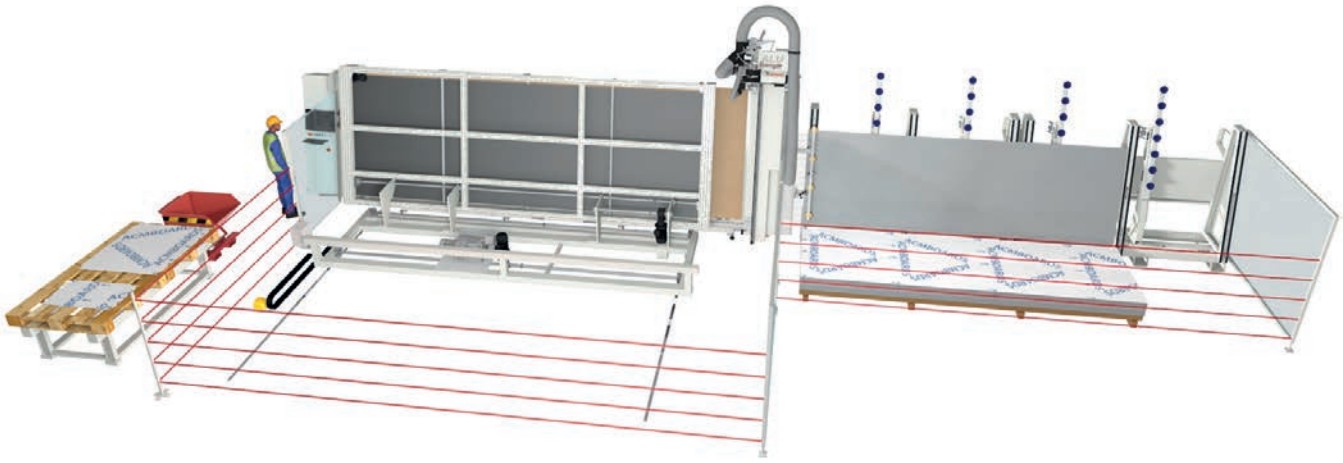
OFF LOADER
(PATENTED)

OFF LOADER is the automatic machine for processed panels, with a tilting vacuumed table.

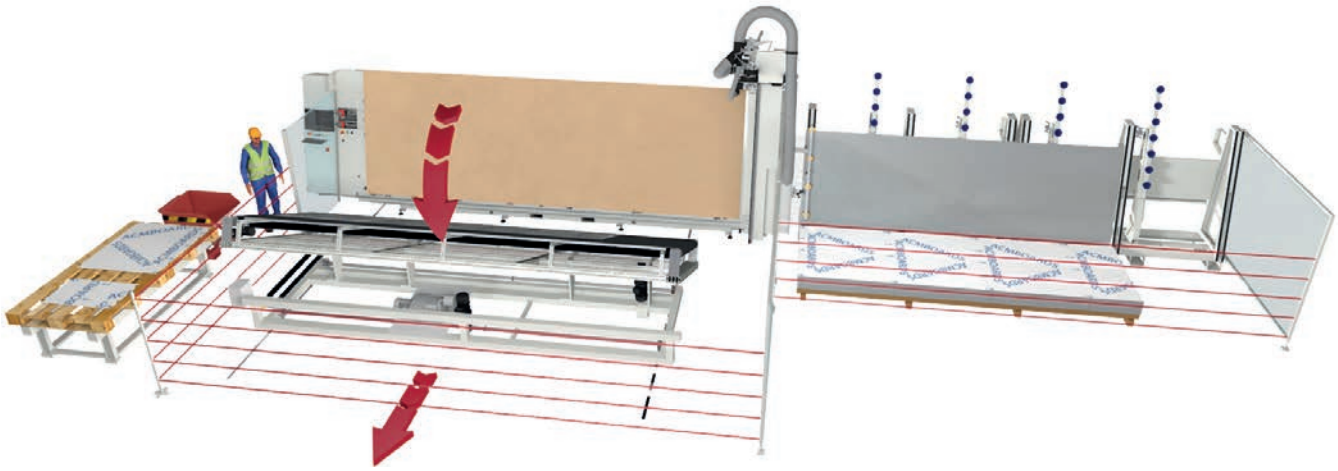
The offloading table tilts to cover the surface of the table of the **RANGER** Panel Router and holds the processed panels until it returns to the horizontal position for offloading, which is done via the movable, transpiring mat.



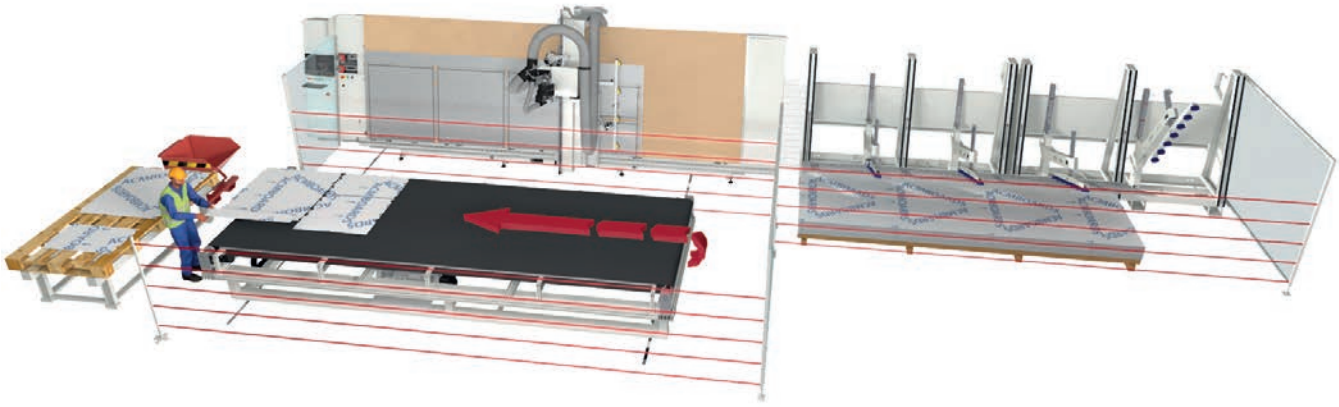
Step 1
Automatic offloading procedure begins. The offloading table tilts and moves towards the Panel Router.



Step 2
The offloading table is pressed against the panels to be offloaded. The vacuum exchanged between the Panel Router table and the Off loader panel holds the panels in place.



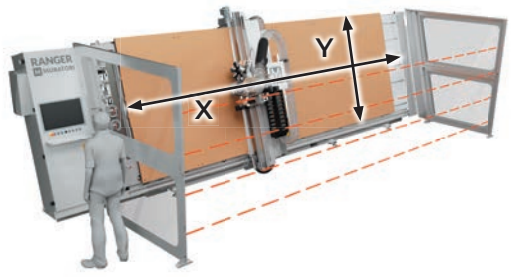
Step 3
The offloading table returns to the horizontal position and moves away from the Panel Router. The Panel Router then positions the next panel via the **FEEDER** and starts processing, and the operator can safely move on to step 4.



Step 4
The operator offloads the panels from the table by pressing a pedal to activate the transpiring mat that feeds the panels to his position to complete offloading.

SIZES AND OVERALL DIMENSIONS

RANGER

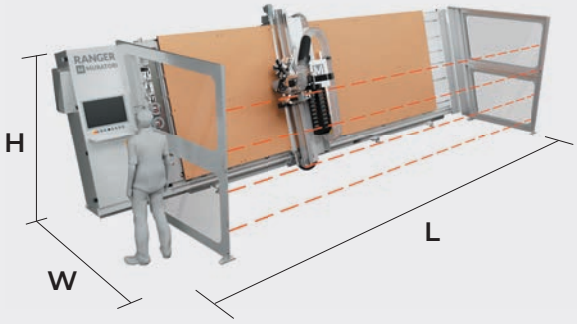


RANGER 4221 - Worktable:
X 4200 mm (13') – Y 2100 mm (6' 11") – Z 90 mm (3" ½)

RANGER 6321 - Worktable:
X 6300 mm (20' 8") – Y 2100 mm (6' 11") – Z 90 mm (3" ½)

RANGER 10121 - Worktable:
X 10100 mm (33' 2") – Y 2100 mm (6' 11") – Z 90 mm (3" ½)

RANGER

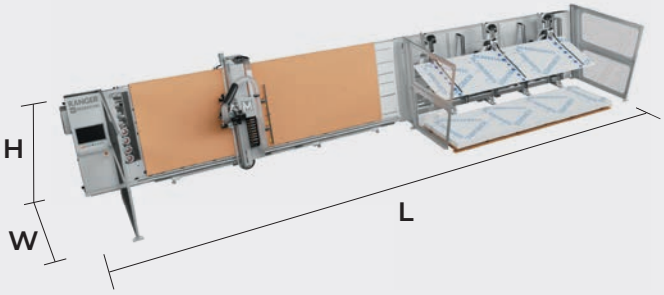


RANGER 4221 - Overall dimensions:
L 6.4 m (20' 12") – W 2.8 m (9' 2" ½) – H 3.5 m (11' 6")

RANGER 6321 - Overall dimensions:
L 8.5 m (27' 11") – W 2.8 m (9' 2" ½) – H 3.5 m (11' 6")

RANGER 10121 - Overall dimensions:
L 12.5 m (41') – W 2.8 m (9' 2" ½) – H 3.5 m (11' 6")

RANGER - LOADER / DOUBLE LOADER

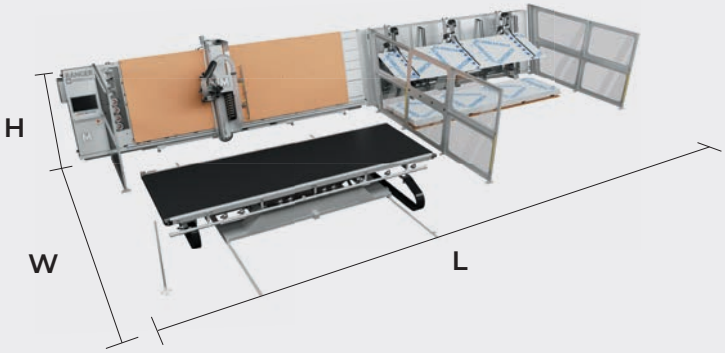


RANGER 4221 - Overall dimensions:
L 11.5 m (37' 9") – W 4.8 m (15' 9") – H 3.5 m (11' 6")

RANGER 6321 - Overall dimensions:
L 15.6 m (51' 2") – W 4.8 m (15' 9") – H 3.5 m (11' 6")

RANGER 10121 - Overall dimensions:
L 23 m (75' 6") – W 4.8 m (15' 9") – H 3.5 m (11' 6")

RANGER - LOADER / DOUBLE LOADER - OFF LOADER



RANGER 4221 - Overall dimensions:
L 11.5 m (37' 9") – W 6.7 m (22') – H 3.5 m (11' 6")

RANGER 6321 - Overall dimensions:
L 15.6 m (51' 2") – W 6.7 m (22') – H 3.5 m (11' 6")

RANGER 10121 - Overall dimensions:
L 23 m (75' 5" ½) – W 6.7 m (22') – H 3.5 m (11' 6")

MURATORI MACHINES

ABOUT US

For three generations, the Muratori family has been manufacturing first woodworking machines, and then processing machines for panels made of solid aluminium, ACM, HPL, fibre cement and plastic, which are used in a variety of sectors, including architecture, industry, transport, interior design and visual communication.

Antonio Muratori grew up and specialised in the family business where, thanks to his thirty years of experience, he designed and built the technology for handling and processing panels, filing several patents for technological innovations related to Panel Routers and automation systems.

Muratori Machines was thus born from family tradition and know-how and represents the industrial reality in which we design and make innovative technologies, whilst actively listening to the market.

Professionalism, trained eyes and an open mind enable us to meet our customers' needs, while also innovating in the field of automation to respond to their production requirements.

Passionate about work and business, we focus on safety, quality and process efficiency to find solutions that disrupt the status quo and revolutionise traditional design and production paradigms.

Our Purpose

- We strive for quality for the business and for our team, customers, suppliers and everyone else we work with
- We make active listening and teamwork a priority
- We innovate continuously to improve the efficiency, ergonomics, safety and sustainability of panel processing technology

MAIN SECTORS
WHERE OUR CUSTOMERS OPERATE

BUILDING, CONSTRUCTION, ARCHITECTURAL FACADES
The architectural facade or cladding sector comprises the external cladding of a building, which creates its aesthetics and provides protection, thermal and acoustic insulation, and is also sustainable and long lasting.

SIGN MAKING, SHOPFITTING
If the sign making sector is geared towards the design and manufacture of signs and signage of various types, shopfitting covers the outfitting and furnishing of exhibition areas, shops, showrooms and points of sale.

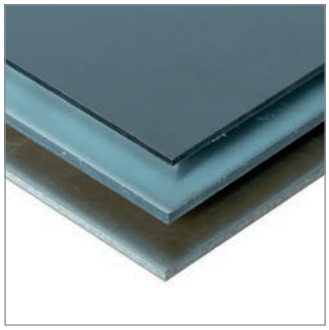
FURNITURE, INTERIOR DESIGN
Different materials are used in the furniture industry and the choice between wood, metal, glass and composite materials depends on style, environment, durability, maintenance and cost.

TRANSPORT INDUSTRY
The large transport sector includes the construction of trains, boats in general, and aerial transport cabins such as cable cars. The most commonly used materials are steel, aluminium, plastic and composites.

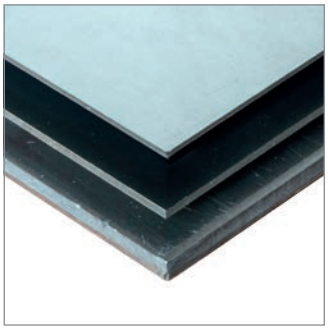
VAN FITTING, CARAVAN FITTING, LIGHT COMMERCIAL VEHICLES
Van fitting refers to the customisation and adaptation of light commercial vehicles, such as vans and minivans, for specific requirements.

PROCESSABLE MATERIALS

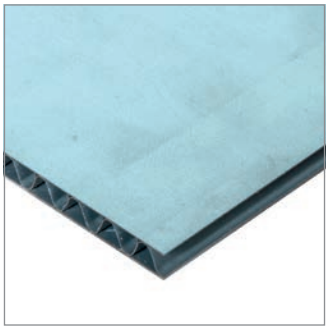
PANELS THAT CAN BE PROCESSED BY OUR MACHINES



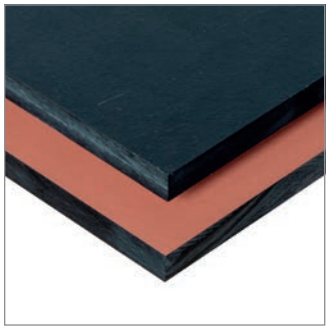
ACM/ACP



Solid Aluminium

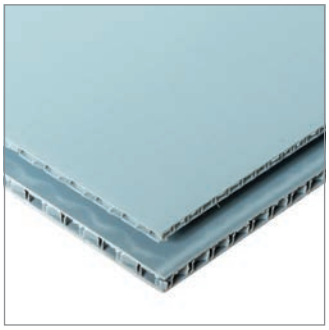


Corrugated Aluminium

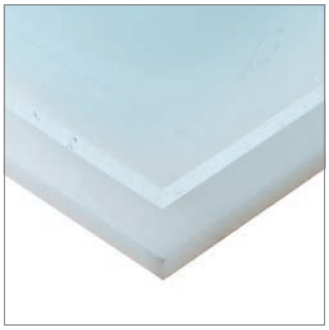


HPL

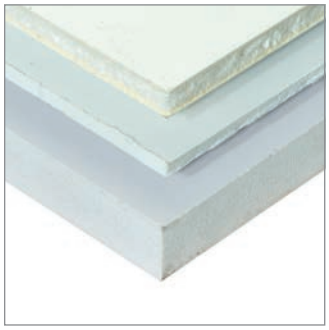
Plasterboard



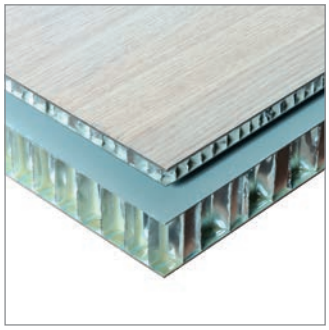
Plastic Honeycomb



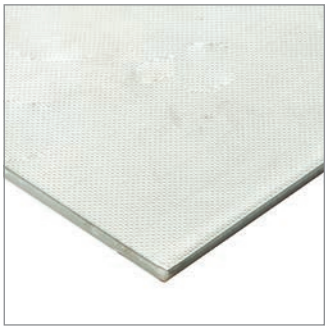
Polycarbonate/Lexan



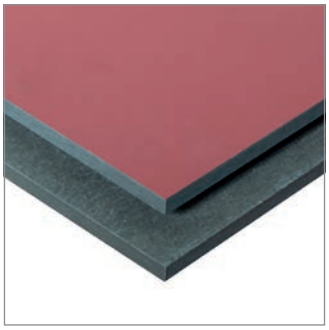
PVC Foam/Forex



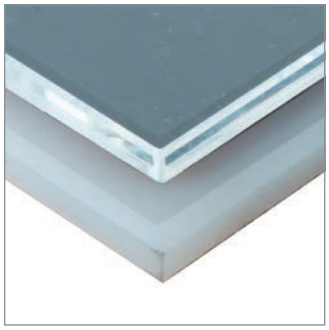
Aluminium Honeycomb



Steel Composite

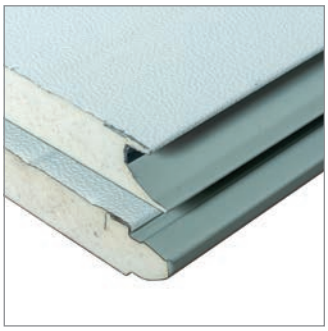


Fibre Cement



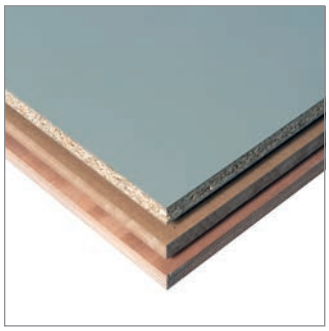
PMMA/Plexiglass/ Acrylic/Perspex

PVC Panel/Polionda



Polyurethane+Steel/ Aluminium

Polyurethane Foam



Wood and its derivatives

MURATORI

The Vertical Revolution for panel processing

muratorimachines.com