

“  
INNOVATE  
GO FURTHER”

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TECHNOLOGY

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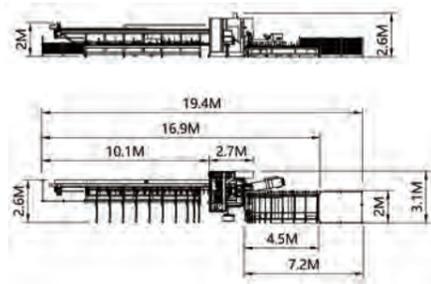
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CRONOS A330

A330



Dimension

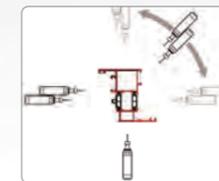
### Integrated Production, Zero Sorting, Zero Transfer Simplifying Door and Window Manufacturing

The A330 Smart Workstation breaks through the limitations of traditional single-machine production in door and window equipment. It integrates multiple functions into one unit, including five-spindle drilling/milling, laser marking, and 45°–90° angle cutting. With its fully integrated workflow—zero sorting, zero transfer, single clamping, raw materials in, finished products out—the workstation streamlines production by eliminating non-valued-added steps and costly human errors. This innovation enhances capabilities, reduces labor requirements, lowers skill thresholds, and consolidates multiple processes into one, significantly easing production management complexity.

Continuous evolution and innovation are key to overcoming industry stagnation. The A330 Smart Workstation empowers door and window manufacturers to embrace digital transformation, improving product quality and production efficiency while returning simplicity to the manufacturing process. It drives forward integrated, intelligent manufacturing as the industry standard.

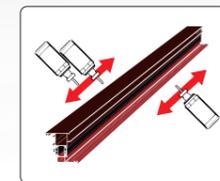
### Smart Connectivity

- Seamless ERP integration: Compatible with mainstream door and window ERP systems for barcode-driven intelligent processing.
- Digital workflow: Translates design drawings into production data via specialized software, enabling data-driven manufacturing.
- Flexible customization: Supports agile production of bespoke doors and windows, ensuring seamless front-end-to-back-end collaboration.
- True "What You See Is What You Get (WYSIWYG)": From design to production, every detail is precisely realized.



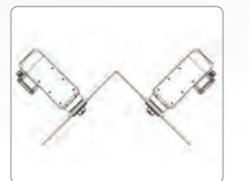
#### 5-Axis Drill/Milling Spindles

One dual-spindle group allows drilling/milling at 0°–90° adjustable angles.



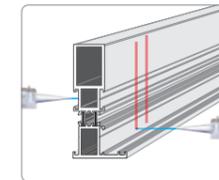
#### Dual-channel operation

Front and rear drilling/milling units operate independently with synchronized X-axis motion.



#### Dual-Saw Blade Cutting

Equipped with two 550mm saw blades. Fixed 45° blade for standard cutting. Rotatable blade adjustable from 90° to 135° for versatile angles.



#### Laser Marking

Two independent processing zones, each equipped with a dedicated laser marking head



#### Automatic Labeling

Integrated labeling system generates customized labels based on ERP data, ensuring precision and traceability.

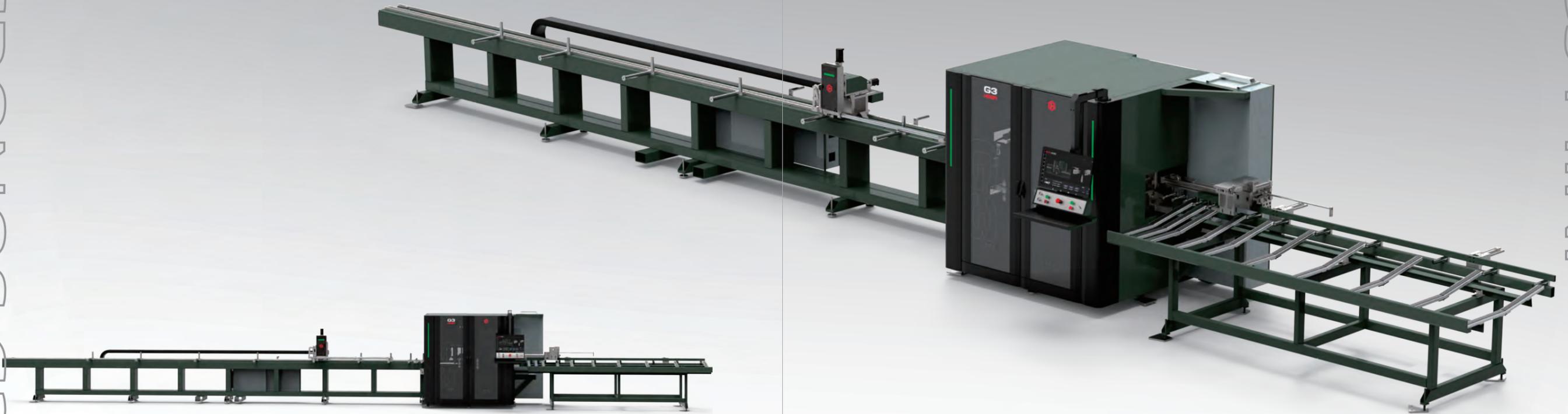


#### Smart Connectivity

Compatible with mainstream door and window ERP software, enabling intelligent processing via barcode scanning

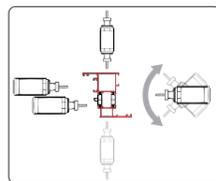
Parameter	CRONOS A330
Cross section range	120 x 155mm
Raw material length	600-7000mm
Positioning accuracy	+/-0.1mm
Blade size	550 x 30 x 120T
Total installed power	6kW-h
Weight	10000kg
Overall dimension	19400x 3100 x 2600mm





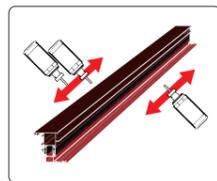
**Smart Connectivity**

Compatible with mainstream door and window ERP software, enabling intelligent processing via barcode scanning



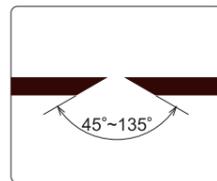
**4-Axis Drill/Milling Spindles**

One of the main shafts can swing up and down Process the drainage holes of the outer frame and window sash



**Dual-channel operation**

Front and rear drilling/milling units operate independently with synchronized X-axis motion.



**Sawing at any Angle**

Equipped with 500mm saw blades Fixed 45° blade for standard cutting. Rotatable blade adjustable from 45° to 135° for versatile angles.

Parameter	CRONOS G3 mini	Dimension
Cross section range	120 x 150mm	
Raw material length	600-7000mm	
Positioning accuracy	+/-0.1mm	
Blade size	500 x 30 x 120T	
Total installed power	3kW-h	
Weight	3310kg	
Overall dimension	14200 x 2400 x 1910mm	

**Integrated Production, Zero Sorting, Zero Transfer  
Simplifying Door and Window Manufacturing**

The G3mini Smart Workstation breaks through the limitations of traditional single-machine production in door and window equipment. It integrates multiple functions into one unit, including five-spindle drilling/milling, laser marking, and 45°-90° angle cutting. With its fully integrated workflow—zero sorting, zero transfer, single clamping, raw materials in, finished products out—the workstation streamlines production by eliminating non-value-added steps and costly human errors. This innovation enhances capabilities, reduces labor requirements, lowers skill thresholds, and consolidates multiple processes into one, significantly easing production management complexity.

Continuous evolution and innovation are key to overcoming industry stagnation. The G3mini Smart Workstation empowers door and window manufacturers to embrace digital transformation, improving product quality and production efficiency while returning simplicity to the manufacturing process. It drives forward integrated, intelligent manufacturing as the industry standard.

**Smart Connectivity**

Seamless ERP integration: Compatible with mainstream door and window ERP systems for barcode-driven intelligent processing. Digital workflow: Translates design drawings into production data via specialized software, enabling data-driven manufacturing. Flexible customization: Supports agile production of bespoke doors and windows, ensuring seamless front-end-to-back-end collaboration. True "What You See Is What You Get (WYSIWYG)": From design to production, every detail is precisely realized.

# VELOCE M5

5-axis milling  
CNC machines



## VELOCE M5 – 5-Axis CNC Machining Center

The VELOCE M5 is a 5-axis mobile gantry CNC machining center designed for high-precision milling, drilling, tapping, and cutting of large aluminum, PVC, light alloy, and steel profiles.

Powered by a 22 kW S1 electrospindle with an HSK-63F interface, it ensures outstanding performance and reliability under heavy-duty conditions. A 20-position automatic tool magazine with a quick changer arm and a dedicated holder for a Ø500 mm saw blade minimize downtime between operations.

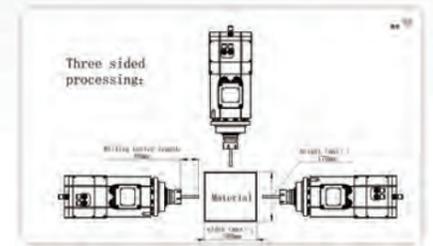
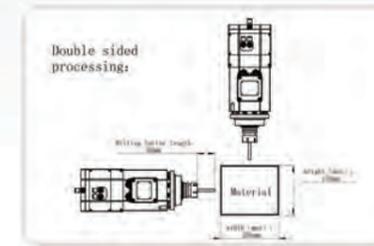
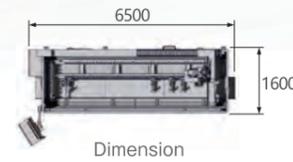
Next-generation servo-controlled clamps automatically reposition during dual-zone machining, perfectly synchronized with the spindle. Compact and tool-free adjustable, they simplify setup and enhance flexibility. All CNC axes are absolute, eliminating the need for referencing at startup.

Parameter	VELOCE M5
X-axis stroke:	7,800 – 10,500 mm
Y-axis stroke:	1,100 mm
Z-axis stroke:	655 mm
B-axis rotation:	0°–90° continuous
C-axis rotation:	0°–360° continuous
Max. positioning speed:	X 75 m/min – Y 60 m/min – Z 40 m/min
Electrospindle:	22 kW, 24,000 rpm, 12 Nm, HSK-63F, liquid cooled

WORKING CAPACITY	
Top face machining:	1000 × 400 × 7,800–10,500 mm
5-face machining:	450 × 400 × 7,300–10,000 mm
Cutting with Ø500 blade:	292 × 360 × 7,300–10,000 mm

# FORZA M4

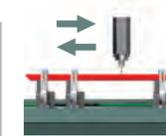
4-axis milling CNC machines



### Features



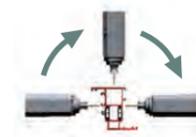
Graphical  
Operation  
Interface



Smart  
Clamping  
System



Smart  
Connectivity



Rotatable  
Spindle



8-Station  
Tool Magazine

### Technical Parameter

Parameter	FORZA M4
Working area	3000–4500/780/550 mm
Feed speed-XYZ axis	88/60/40
Positioning accuracy	0.1 mm
Servo motor power	4.5kw/24000rpm
Total installed power	12kw
Weight	3800/42250
Overall dimension	4850/6500x1600x2700mm

VELOCE M5

FORZA M4



# ARTE

CNC Drilling and Milling Machine



## ARTE CNC Drilling and Milling Machine

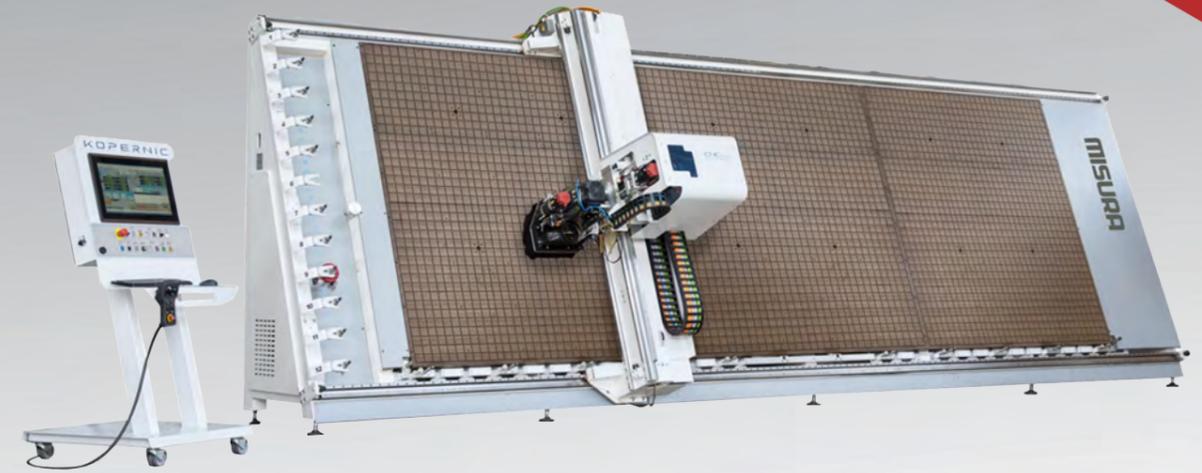
Worktable can rotate 180° (-90°~0°~+90°), allowing three-side processing in one clamping. Deep holes are machined through table rotation, ensuring both efficiency and accuracy.

Spindle power: 3.5Kw  
Spindle speed: 18000rpm

Parameter	ARTE
X-axis travel:	1200mm
Y-axis travel:	350mm
Z-axis travel:	350mm
Processing range:	3000×140mm
Machine dimensions:	220×150×170cm

# KOPERNIC

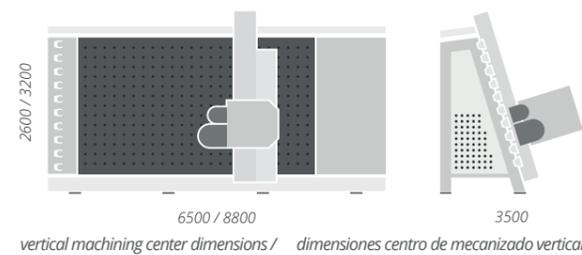
Panel Router with Vertical Table



## CNC KOPERNIC VERTICAL MACHINING CENTER CNC KOPERNIC CENTRO DE MECANIZADO VERTICAL CNC

It is an ideal machining center for processing different types of panels. The machine is characterized by small dimensions when compared with the size of its working area. This allows for significant space savings for other machining or assembly equipment. The possibility of using aggregates makes the machine very flexible and adaptable to specific types of processing, increasing its productivity and reducing the machining time.

Es un centro de mecanizado ideal para procesar diferentes tipos de paneles. La máquina se caracteriza por dimensiones pequeñas en comparación con el tamaño de su área de trabajo. Esto permite un ahorro de espacio significativo para otros equipos de mecanizado o montaje. La posibilidad de utilizar agregados hace que la máquina sea muy flexible y adaptable a tipos específicos de procesamiento, aumentando su productividad y reduciendo el tiempo de mecanizado.



**NESTING**  
It allows to create different parts of an item by an optimized process on a single panel. Substantial waste reduction with shorter processing times.

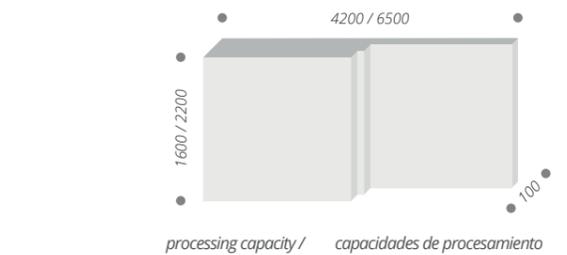
Permite crear diferentes partes de un artículo mediante un proceso optimizado en un único panel. Reducción sustancial de residuos, con una disminución de los tiempos de procesamiento.

**DRILLING - PERFORACIÓN**  
Thanks to the automatic tool changer (up to 12 positions) it is possible to perform different kinds of drillings both with standard tools and with special ones.

Gracias al cambio automático de herramientas, hasta 12 posiciones, es posible realizar diferentes tipos de perforaciones, tanto con herramientas estándar como con herramientas especiales.

**V-GROOVING - FRESADOS**  
The sacrificial panel allows to make all kind of operations (V-Grooving, Drilling and Cutting) including the contouring of the panel to be machined. V-Grooving operations are improved thanks to the 10-12 position tool changer where can be stored several types of cutters.

La presencia de un panel de apoyo permite realizar fresados tanto de excavación como de contorno, hasta obtener el acabado completo.

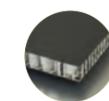


## PROCESSING MATERIALS MATERIALES DE PROCESAMIENTO

CNC Kopernic is designed for the processing of:  
CNC KOPERNIC está diseñado para trabajar:



Wood panels  
Paneles de madera



Composites Materials  
Materiales compuestos



Trespa<sup>®</sup>  
Trespa<sup>®</sup>



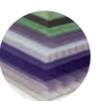
Insulated Panels  
Paneles aislantes



Corian<sup>®</sup>  
Corian<sup>®</sup>



Plasterboard  
Pladur



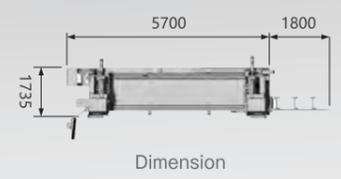
Plastics Materials  
Plásticos



# GRANDE R 500

Double head Radial Cutting Machine

GRANDE R 500



**Features**

- Cutting Direction:** 45° Internal Swing Angle & 90° Cutting
- Smart Connectivity:** (Icon of a remote control)
- Cutting Range:** (Graph showing cutting range for 90° and 45° angles)
- Internal Tilt Model:** (Diagram showing 90° and 45° tilt angles)

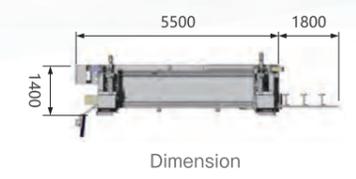
**Technical Parameter**

Parameter	GRANDE R 500 - 600
Saw cutting length	450-4200mm
Positioning accuracy	0.1mm
Blade size	500 x 30 x 120T
Total installed power	7kw
Weight	2300kg
Overall dimension	5700 x 1735 x 1890mm

# FUTURA R 500

Double Head Cutting Machine

FUTURA R 500



**Features**

- Cutting Direction:** 45° Outward Swing Angle & 90° Cutting
- Auto Height Measurement:** (Diagram of a sensor)
- Smart Connectivity:** (Icon of a remote control)
- Curve Cutting:** (Diagram of a curved cut)
- Cutting Range:** (Graph showing cutting range for 90° and 45° angles)
- External Tilt Model:** (Diagram showing 90° and 45° tilt angles)

**Technical Parameter**

Parameter	FUTURA R 500
Saw cutting length	310-4200mm
Positioning accuracy	0.1mm
Blade size	500 x 30 x 120T
Total installed power	7kw
Weight	1850kg
Overall dimension	5500 x 1400 x 1780mm

# GRANDE R 600

Double Head Radial Cutting Machine with Servo

**Features**

- Internal Tilt Model:** (Diagram showing 90° and 30° tilt angles)
- Cutting Range:** (Graph showing cutting range for 90°, 45°, and 30° angles)



## LUNA Z 600

Full Automatic Aluminum  
CNC Cutting Machine



### LUNA R 600 Full Automatic Aluminum CNC Cutting Machine

This equipment is a high-precision CNC automatic saw designed with a "rear-to-front" cutting concept for stability and efficiency.

Parameter	LUNA Z 600
Main motor power:	7.5KW
Single feed length:	1200mm
Saw blade size:	Φ600×30×100T
Cutting width:	400mm
Cutting height:	190mm
Head positioning speed:	18m/min
Machine dimensions (L×W×H):	2500×1600×1700mm

## UNO S 600

Single Head  
Cutting Machine



### UNO S 600 Single Head Cutting Machine

This machine is suitable for cutting aluminum profiles at any angle. Can be equipped with a digital/NC fixed-length table for higher efficiency. Capable of simultaneous cutting of multiple profiles at 90°.

Parameter	ARTE
Motor power:	3.3KW main spindle motor
Cutting width:	max 330 mm
Cutting height:	max 200 mm
Blade size:	600 mm
Machine dimensions (L×W×H):	1450×1260×2000mm
Weight:	552kg

## RADIAL

### Radial Cutting Saw

For straight (90°) miter (45° left) cross cutting, and bevel cutting at 45° left and right, of wooden-based panels and solid wood boards up to 3mt. For furniture manufacturing and joinery.

**Small footprint :** well suited to small workshops

**Easy to use**

**Versatile**

**Useful complement to panel saws**



# TIPO 300

Wireless Measuring and Cutting Saw

# VIRTUS

Multi-Profile End Milling Machine



Features



**0.1mm Measurement Accuracy**



**Wireless Data Transmission**



**2.8-Meter Measuring Ruler (3.1kg)**

Technical Parameter

Parameter	TIPO 300
Measuring length	100-2800mm
Saw cutting length	200-4600mm
Total installed power	3kw
Weight	850kg
Overall dimension	9200 x 850 x 1800mm



Features

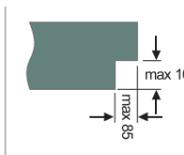
### Dual-Spindle Dual-Tool System



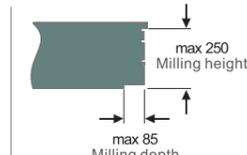
One spindle automatically switches between horizontal and vertical cutting directions



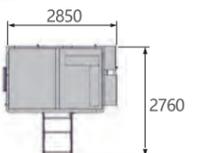
**Machining Capabilities**



**Machining Types**



**Machining Range**



Dimension



**Smart Connectivity**

Technical Parameter

Parameter	VIRTUS
Feed speed -XYZ axis	25/15/15 (m/min)
Total installed power	10kw
Weight	2100kg
Overall dimension	2850 x 2760 x 1800mm



# AUTO CRAB

Fully Automatic Corner Crimping Machine



## Fully Automatic Corner Crimping Machine

The Fully Automatic Corner Crimping Machine is designed to perform precise and efficient corner jointing of aluminum profiles with complete automation. Equipped with 14 servo-controlled axes, the system automatically adjusts itself to different profile geometries without requiring manual setup. Each axis ensures accurate movement and positioning, delivering exceptional consistency, speed, and reliability in every pressing operation. The machine features a servo-driven shear system that provides stable and adjustable pressing force.

Its advanced servo control technology guarantees high accuracy, repeatability, and safe performance throughout the process. This design results in faster production cycles and consistently high-quality joints. The automatic measurement and tool adjustment system enhances both the productivity and flexibility of the machine.

The blades automatically move to the required positions without manual intervention, enabling quick adaptation to various profile types. All blade positions can be stored in memory, eliminating the need for re-adjustment between different operations and ensuring maximum repeatability. When a profile is selected, the blades automatically move into the correct pressing position. The pressing depth can be adjusted directly during operation without repositioning the profile.

The fully automatic V-block secures the profile firmly as it advances, maintaining perfect alignment without affecting the corner accuracy. With a fixed rear V-support and servo-driven blade motion, the system allows dual horizontal pressing operations within a single program—achieving precision and productivity at the same time.

### Standard Equipment

- 3 mm Pressing Blade
- 5 mm Pressing Blade

### Technical Specifications

Parameter	AUTO CRAB
Electrical Supply	3 x 380 V, 50–60 Hz
Total Power	7.65 kW
Maximum Pressing Force	2700 kgf
Blade Stroke	65 mm
Maximum Pressing Height	325 mm
Air Pressure	6–8 bar
Air Consumption	6 L/min
Machine Height	1730 mm
Machine Length	1970 mm (with 3000 mm support arms)
Machine Width	1520 mm (with 3100 mm support arms)
Machine Weight	1800 kg

# CRAB

Hydraulic Corner Crimping Machine



## Hydraulic Corner Crimping Machine

The Hydraulic Corner Crimping Machine is designed for precise and durable corner jointing of aluminum window and door profiles. Its automatic measuring and quick tool change system ensures efficient and consistent operation across a wide range of profile types. The large and stable pressing area provides excellent support during the crimping process, ensuring strong, deformation-free joints. Powered by a high-performance hydraulic system, the machine delivers stable, reliable, and smooth pressing motion throughout the operation. The left and right pressing claws move synchronously with equal rigidity, preventing unwanted distortion and guaranteeing tight and accurate corner connections.

This model combines strength, accuracy, and efficiency, making it ideal for manufacturers seeking high production consistency and long-term reliability in corner assembly operations.

### Technical Specifications

Parameter	CRAB
Power Supply	380V, 50Hz
Total Motor Power	3.0 kW
Nominal Hydraulic Pressure	20 MPa
Working Air Pressure	0.6–0.8 MPa
Air Consumption	5 L/min
Front Positioning Stroke	170 mm
Rear Claw Stroke	120 mm
Front Positioning Adjustment Range	140 mm
Angular Claw Adjustment Range	160 mm
Maximum Profile Height	200 mm
Hydraulic Tank Capacity	40 L
Oil Pump Size	10"
Overall Dimensions	870 × 1200 × 1100 mm
Machine Weight	700 kg

