

GEMINI SERIES

GEMINI SERIES

Gemini series machines are double-head cutting machines designed to cut PVC, aluminum, and wood materials. They perform cutting operations on profiles of varying widths and lengths at different angles and thicknesses. Saw diameters vary according to their series, with sizes of Ø400, Ø450, Ø550, and Ø600 mm. All Gemini series machines provide precise and fast cutting operations thanks to their high-precision

linear bearings, servo motors, and hydropneumatic equipment. They prioritize safety in these cutting operations with part-holding pneumatic clamps and protective systems. Gemini series machines, which have manual and automatic cutting capabilities, are user-friendly machines with their technological equipment.

GEMINI II M

The GEMINI – II M, a manual, button-controlled double-head cutting machine with a 400 mm saw, is ideal for cutting aluminum, PVC, and wood profiles at various angles and thicknesses. The GEMINI – II M provides manual, fast

positioning thanks to its X-axis control with a handwheel and ruler, while delivering a perfect cutting process. The GEMINI – II M, with its automatic horizontal and vertical clamps and profile support unit, enhances cutting quality while prioritizing its economic feature.



GEMINI II A

The GEMINI – II A, a semi-automatic, digital display, 400 mm saw double-head cutting machine, is ideal for cutting aluminum, PVC, and wood profiles at various angles and thicknesses. The GEMINI – II A provides automatic and fast positioning thanks to its electronically controlled

X-axis and magnetic ruler position control, while delivering a perfect cutting process. The GEMINI – II A, with its automatic horizontal and vertical clamps and profile support unit, enhances cutting quality while prioritizing its economic feature and precision.



GEMINI IV M

The GEMINI – IV M, a digital display, 450 mm saw double-head cutting machine, is ideal for cutting aluminum and PVC profiles at various angles and thicknesses. The GEMINI – IV M provides fast hydro-pneumatic angle positioning at 45° and 90° angles thanks to its hydro-pneumatic controlled rotation axis, while the heads performing manual positioning at all other intermediate degrees deliver a perfect

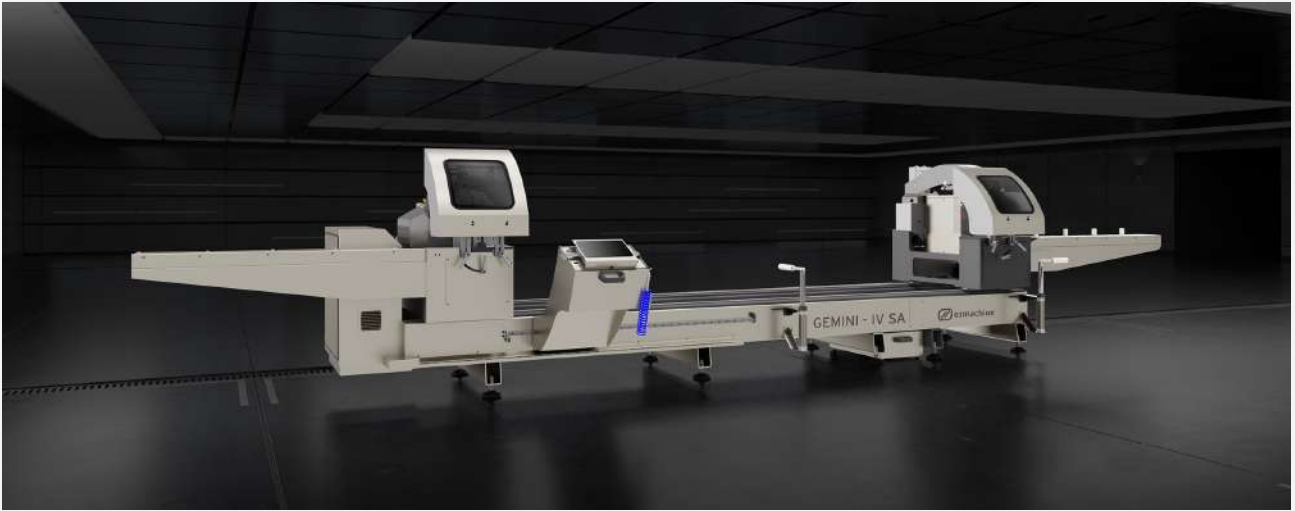
cutting process. It enables cutting operations of profiles with lengths ranging from a minimum of 560 mm to a maximum of 4040 mm simultaneously with its double heads. The GEMINI – IV M, with its automatic horizontal clamps and profile support unit, enhances cutting quality while prioritizing its economic feature, precision, and ease of use.



GEMINI IV SA

The GEMINI – IV SA, a semi-automatic, 1-axis servo-controlled, 450 mm saw double-head cutting machine, is ideal for cutting aluminum and PVC profiles at various angles and thicknesses. The GEMINI – IV SA provides fast hydro-pneumatic angle positioning in two inclination models, -45°, 90° and 90°, 45°, while the heads performing manual positioning at all other intermediate degrees deliver a perfect

cutting process. It enables cutting operations of profiles with lengths ranging from a minimum of 400 mm to a maximum of 4040 mm simultaneously with its double heads, while also eliminating limits for cutting profiles longer than 4040 mm. The GEMINI – IV SA, with its automatic horizontal and vertical clamps and profile support unit, enhances cutting quality while prioritizing user solutions with its effective feature.



GEMINI V SA

The GEMINI – V SA, a semi-automatic, 1-axis servo-controlled, 550 mm saw double-head cutting machine, is ideal for cutting aluminum and PVC profiles at various angles and thicknesses. The GEMINI – V SA provides fast hydro-pneumatic angle positioning in two inclination models, -22.5°, -45°, 90° and 90°, 45°, while the heads performing manual positioning at all other intermediate degrees deliver a perfect

cutting process. It enables cutting operations of profiles with lengths ranging from a minimum of 480 mm to a maximum of 5050 mm simultaneously with its double heads, while also eliminating limits for cutting profiles longer than 5050 mm. The GEMINI – V SA, with its automatic horizontal and vertical clamps and profile support unit, enhances cutting quality while prioritizing user solutions with its effective feature.



GEMINI V R

The GEMINI – V R, a 3-axis servo-controlled, double-head cutting machine, is ideal for cutting aluminum and PVC profiles at various angles and thicknesses. The GEMINI – V R provides a perfect cutting process with heads that perform automatic positioning at all intermediate degrees between -22.5° and 45° thanks to its servo motion system. It enables cutting

operations of profiles with lengths ranging from a minimum of 480 mm to a maximum of 5050 mm simultaneously with its double heads, while also eliminating limits for cutting profiles longer than 5050 mm. The GEMINI – V R, with its automatic horizontal and vertical clamps and profile support units, enhances cutting quality while prioritizing its automatic feature, precise cutting, and high efficiency.



GEMINI VI

The GEMINI – VI, a 3-axis servo-controlled, double-head cutting machine, is ideal for cutting aluminum and PVC profiles at various angles and thicknesses. The GEMINI – VI is designed to cut wider profiles. It provides a perfect cutting process with heads that perform automatic positioning at all intermediate degrees between -22.5° and 45° thanks to its servo motion system. It enables cutting operations of profiles

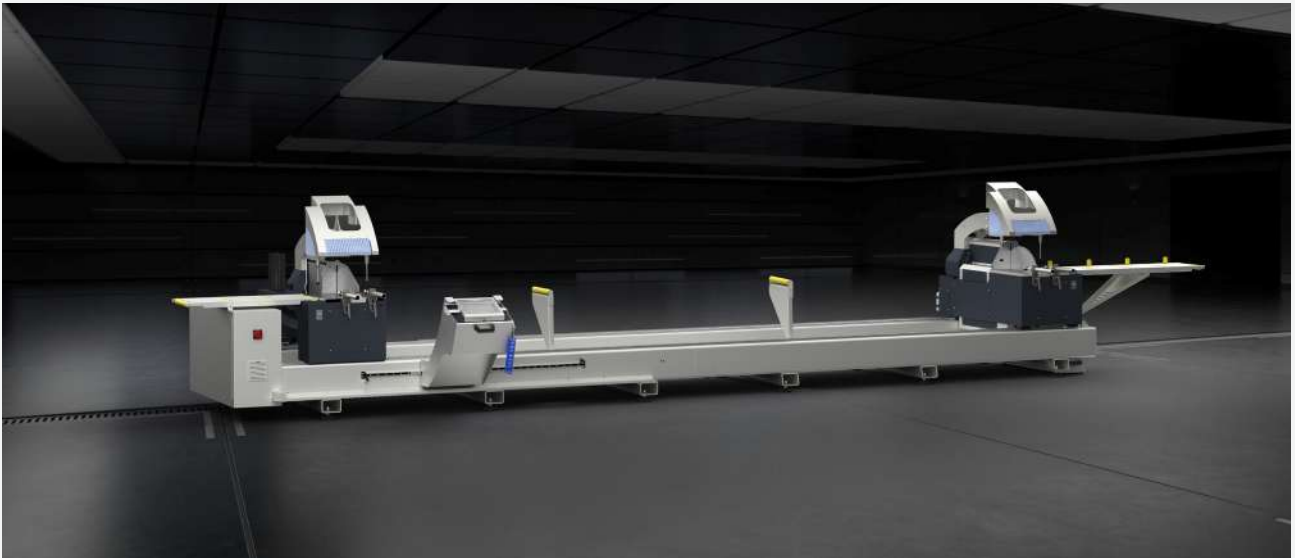
with lengths ranging from a minimum of 480 mm to a maximum of 5050 mm simultaneously with its double heads, while also eliminating limits for cutting profiles longer than 5050 mm. The GEMINI – VI, with its automatic horizontal and vertical clamps and profile support units, enhances cutting quality while prioritizing its automatic feature, precise cutting, and high efficiency.



GEMINI X

The GEMINI – X, a 3-axis servo-controlled, radial double-head cutting machine, is ideal for cutting aluminum and PVC profiles at various angles and thicknesses. The GEMINI – X is designed to cut wider profiles. It provides a perfect cutting process with heads that perform automatic positioning at all intermediate degrees between 30° and 90° thanks to its servo motion system. It enables cutting operations of profiles with

lengths ranging from a minimum of 460 mm to a maximum of 6000 mm simultaneously with its double heads, while also eliminating limits for cutting profiles longer than 6000 mm. The GEMINI – X, with its automatic horizontal and vertical clamps and profile support units, enhances cutting quality while prioritizing its ability to work with wide profiles through its radial cutting feature.



CONTROL SYSTEMS

We use servo motors in our machines to enhance the cutting quality of our machines,

maximize customer satisfaction, appeal to many different sectors, and provide better solutions to users

In almost all of our GEMINI series machines, servo motors are used both for angling the saw head and for precisely positioning the movable head to the desired dimension. This enables the cutting of profiles at the desired angles and dimensions with high precision.



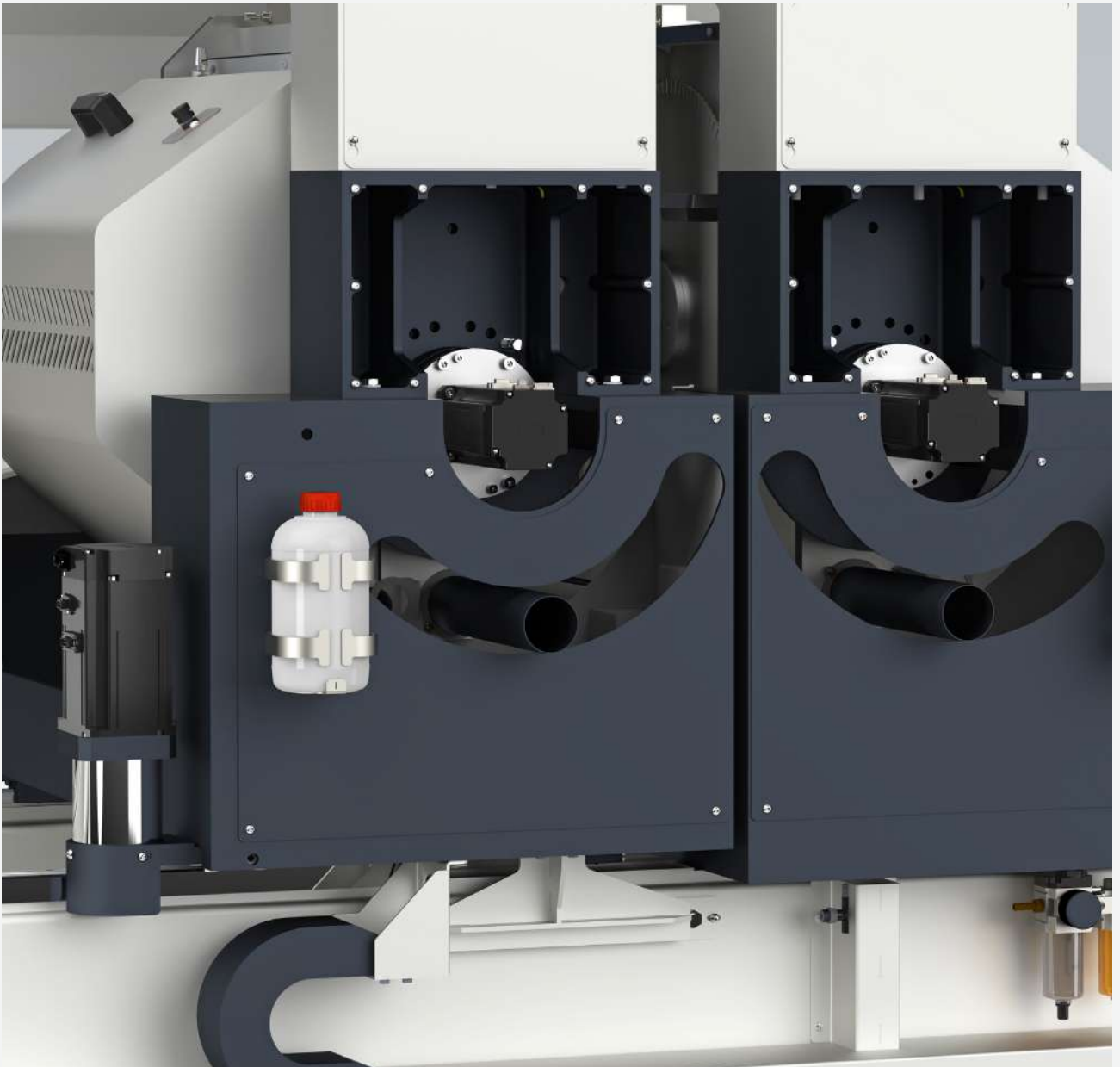
GEMINI X / GEMINI VI / GEMINI V R GEMINI V SA / GEMINI IV SA

Precision is our priority in all our machines, which is why we use servo motors. Thanks to servo motors, our machines can seamlessly perform critical factors such as precise dimensional positioning and precise cutting.



GEMINI X / GEMINI VI / GEMINI V R

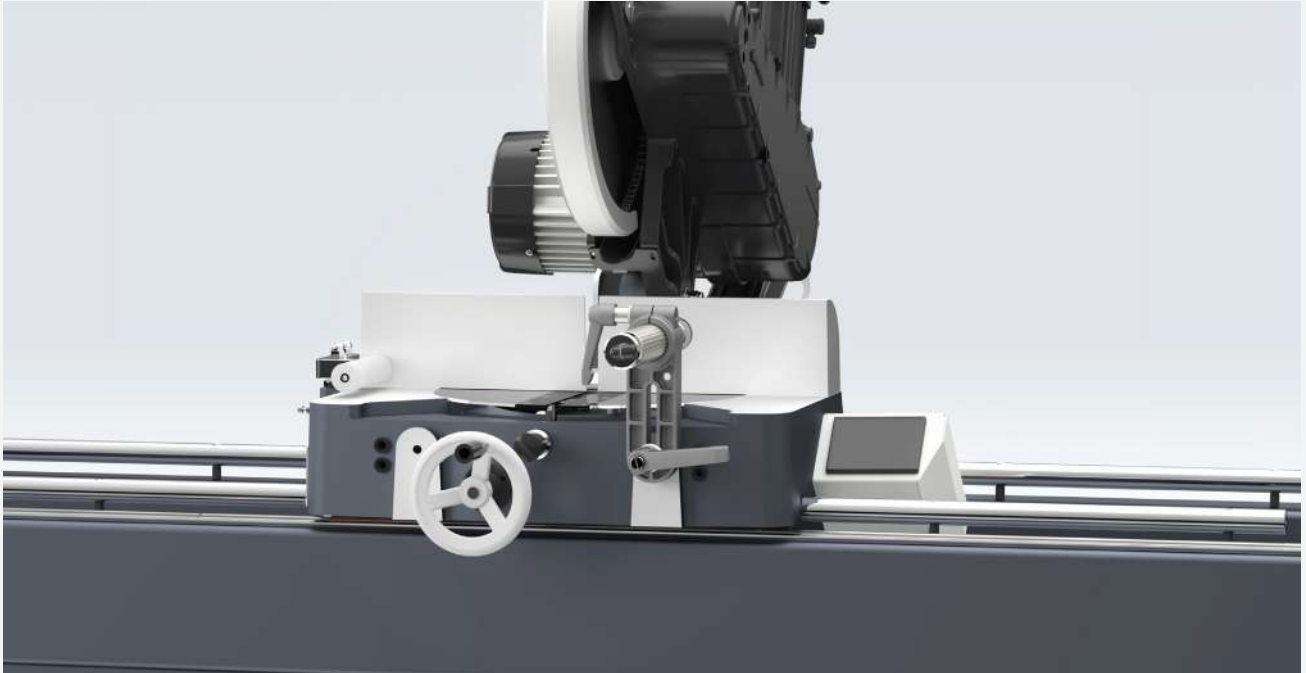
We use servo motors in both the fixed and movable heads to ensure more precise and flawless cuts.



CONTROL SYSTEMS

GEMINI II M

There is a handwheel system to move the movable head to the desired angle. Thanks to its ergonomic, mechanical design, it is easily and precisely moved manually to the desired dimension.



GEMINI IV M

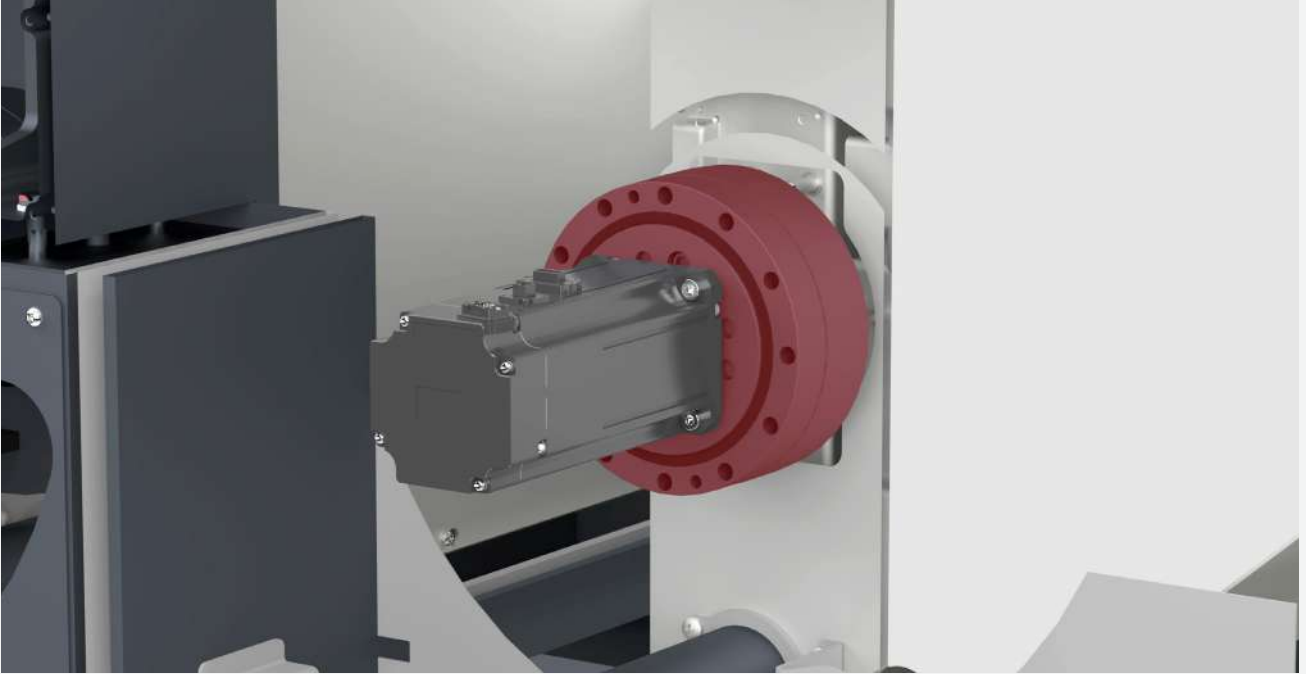
The movable head is manually moved to the desired dimension, and precise positioning is ensured with the brake system on it.



CONTROL SYSTEMS

GEMINI V / GEMINI VI / GEMINI X

A servo motor and reducer are used to position the movable and fixed heads to the desired dimension. This allows for flawless automatic movement to the desired dimension.



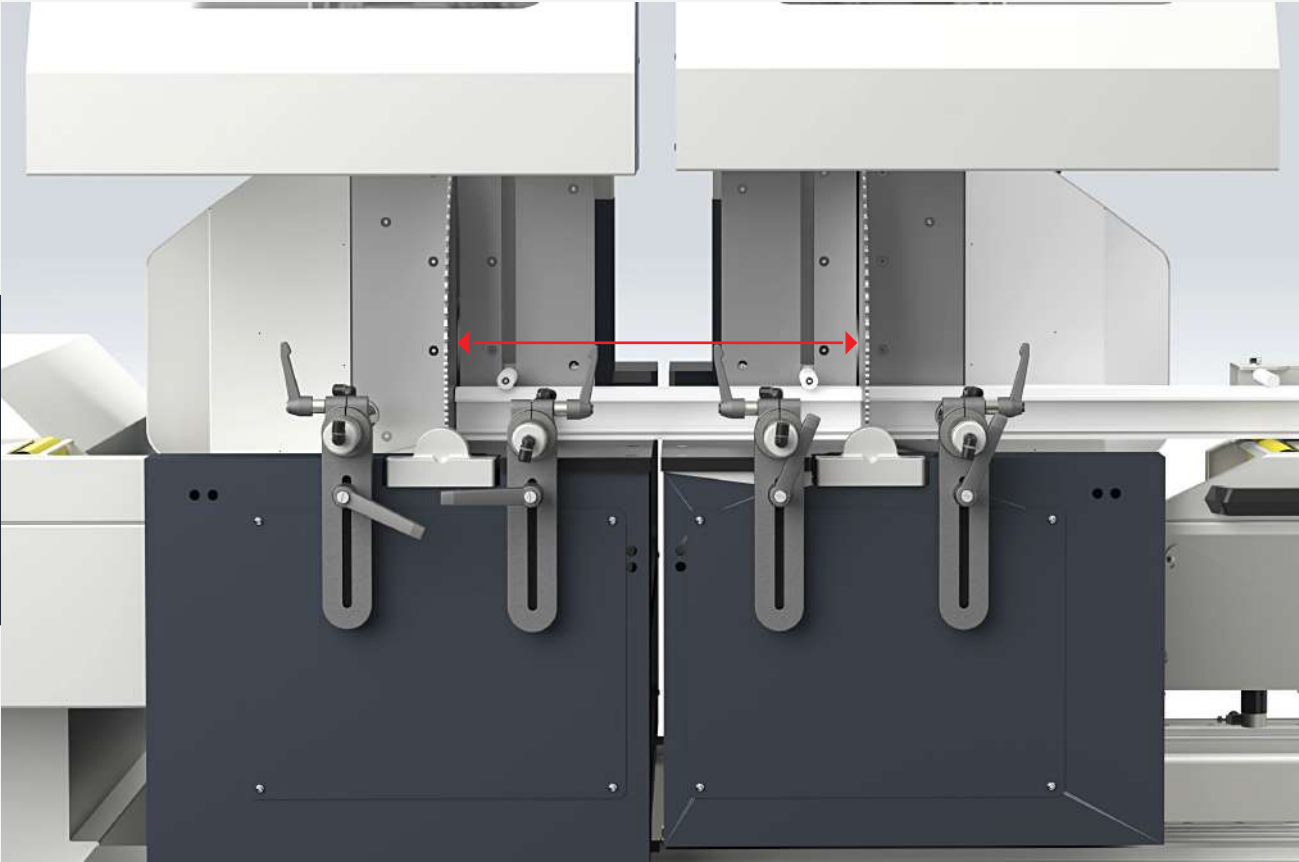
GEMINI II A

An asynchronous motor and reducer are used to move the movable head to the desired dimension. This allows for flawless automatic movement to the desired dimension.

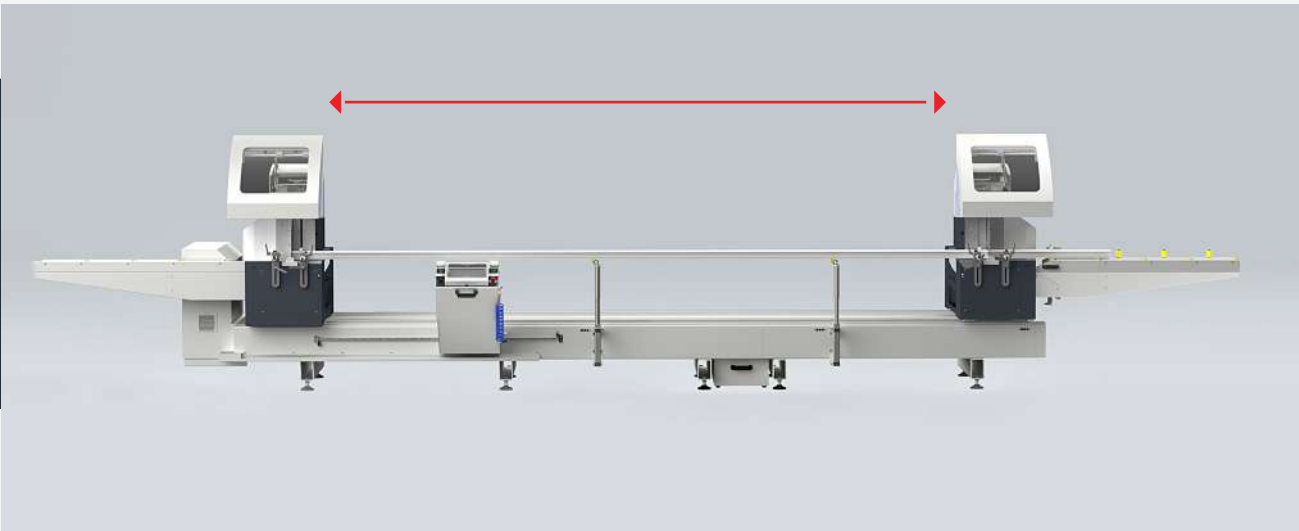


CUTTING FEATURES

Min. Cutting



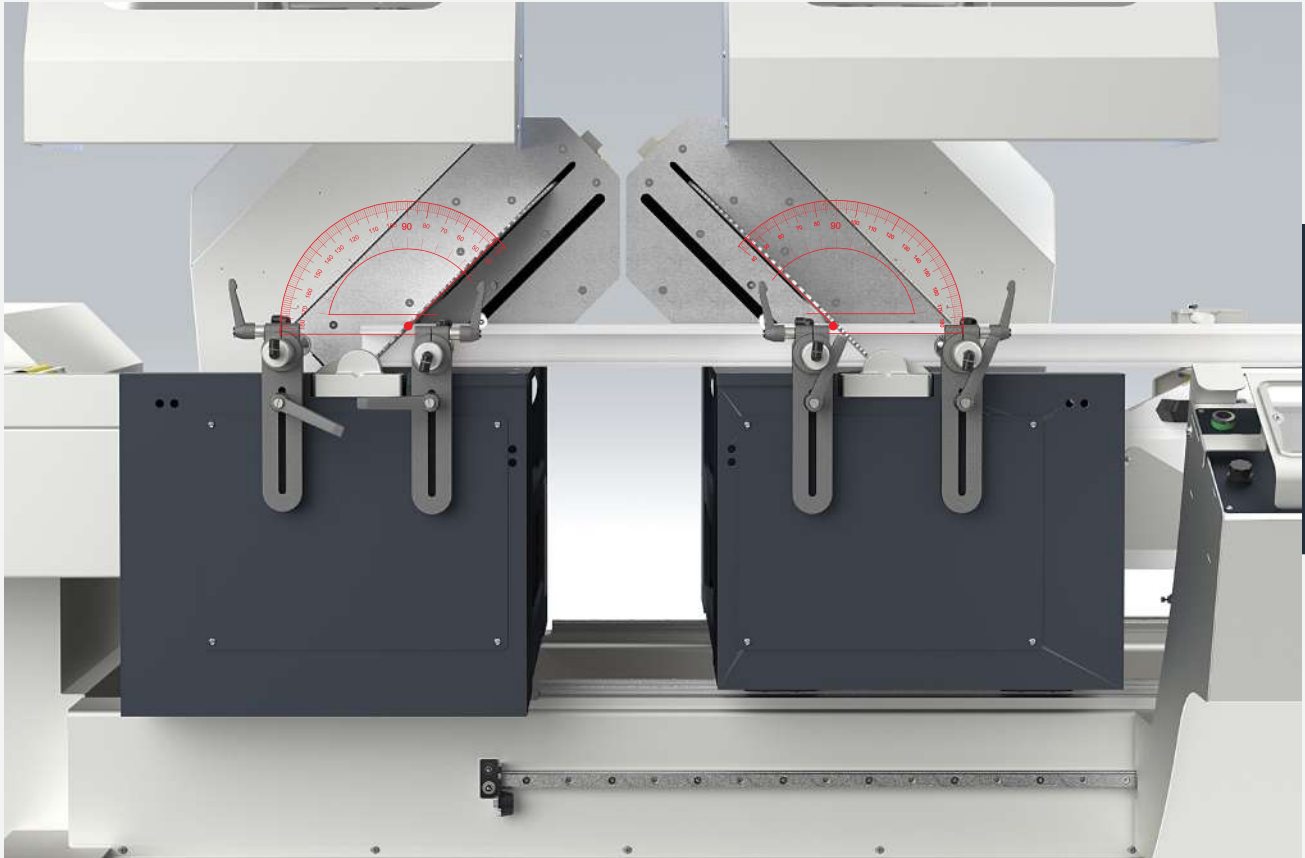
Max. Cutting



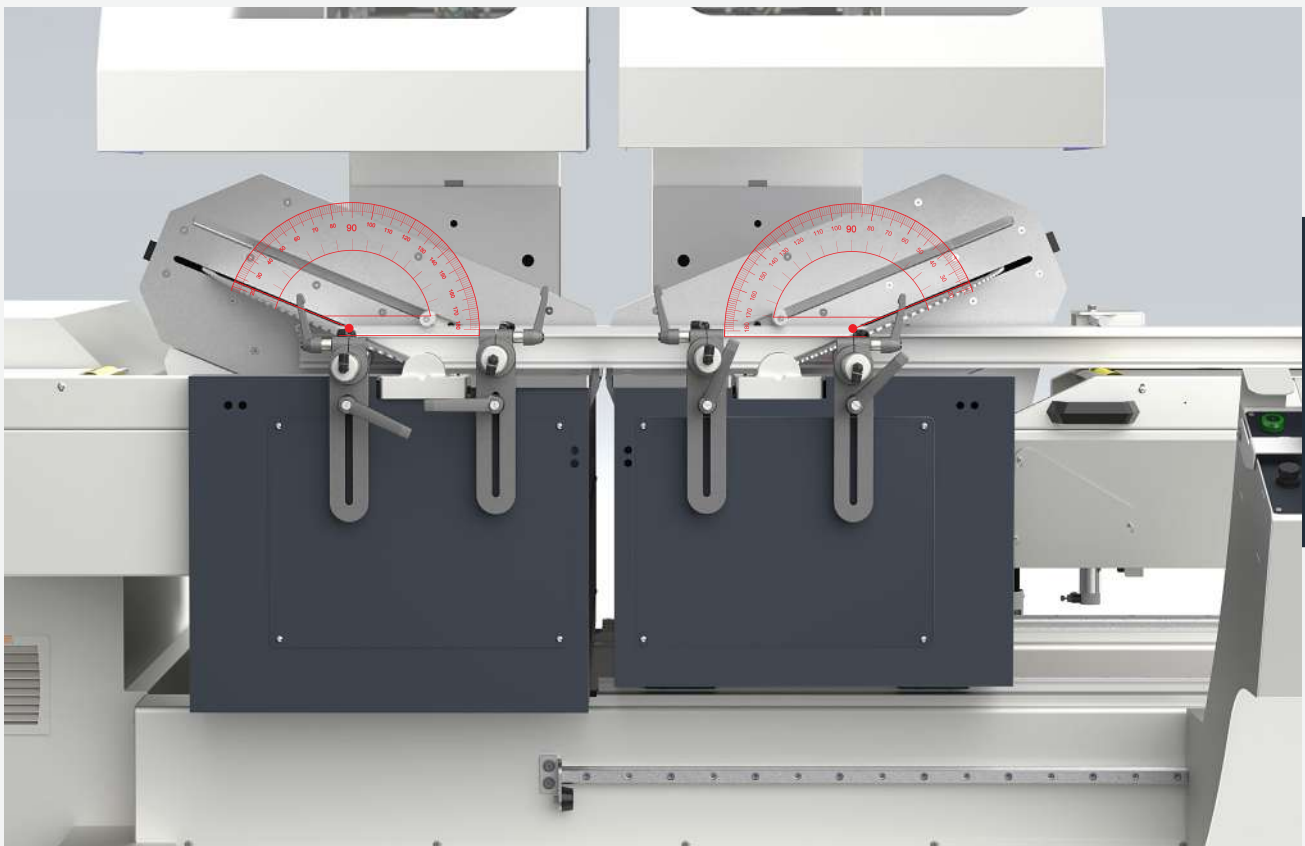
CUTTING DIMENSIONS (mm)

	GEMINI II M	GEMINI II A	GEMINI IV M	GEMINI IV SA	GEMINI V SA	GEMINI V R	GEMINI VI	GEMINI X
MIN. 90°/45°	610 / 610	610 / 610	560 / 560	400 / 560	480 / 720	480 / 720	480 / 720	460 / 460
MAX.90°/45°	4550 / 4550	4550 / 4550	4040 / 4040	4040 / 4040	5050 / 5050	5050 / 5050	5050 / 5050	6000 / 6000

CUTTING ANGLES



-45° / +45°



-22.5° / 45°

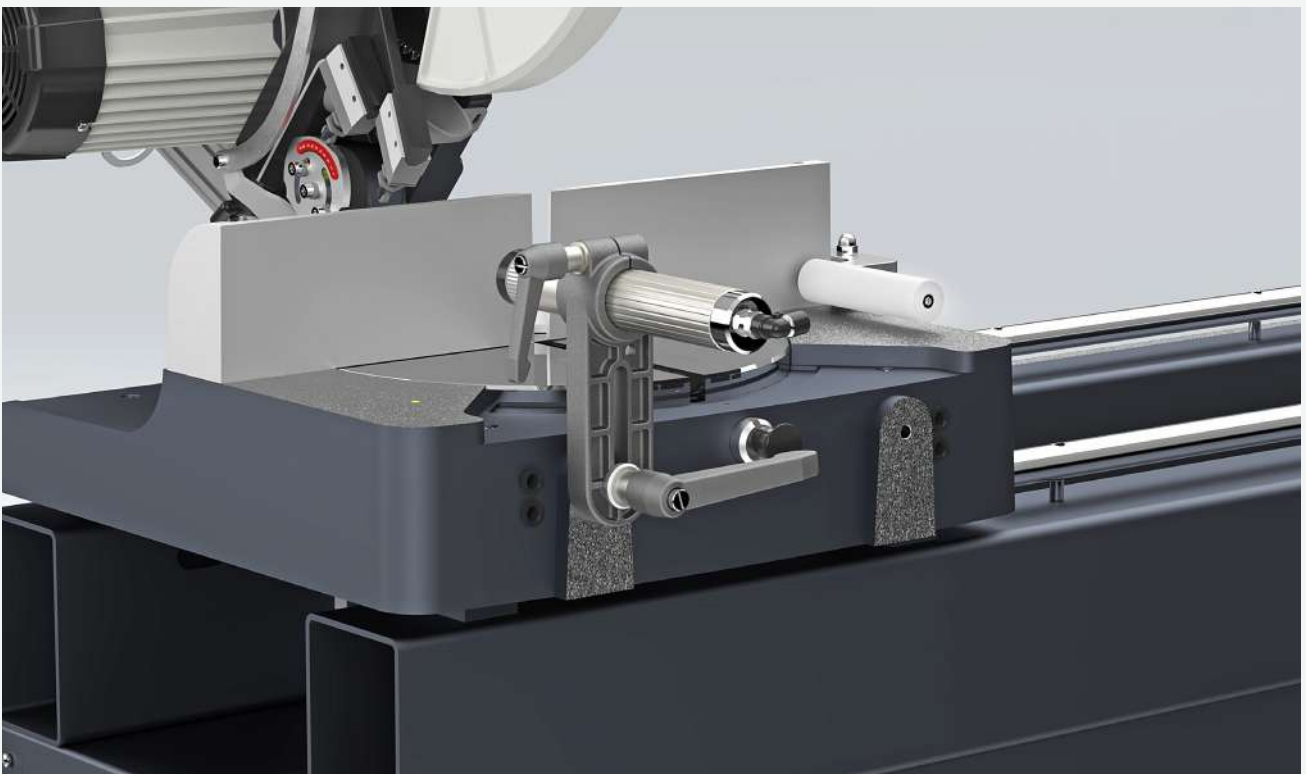
CLAMPS

GEMINI X / GEMINI VI / GEMINI V R / GEMINI V SA / GEMINI IV SA / GEMINI IV M

All our GEMINI models are equipped with horizontal and vertical pneumatic clamps on both the fixed and movable heads. Horizontal clamps prevent the profile from coming forward during cutting, while vertical clamps apply pressure from above, enabling precise cuts.



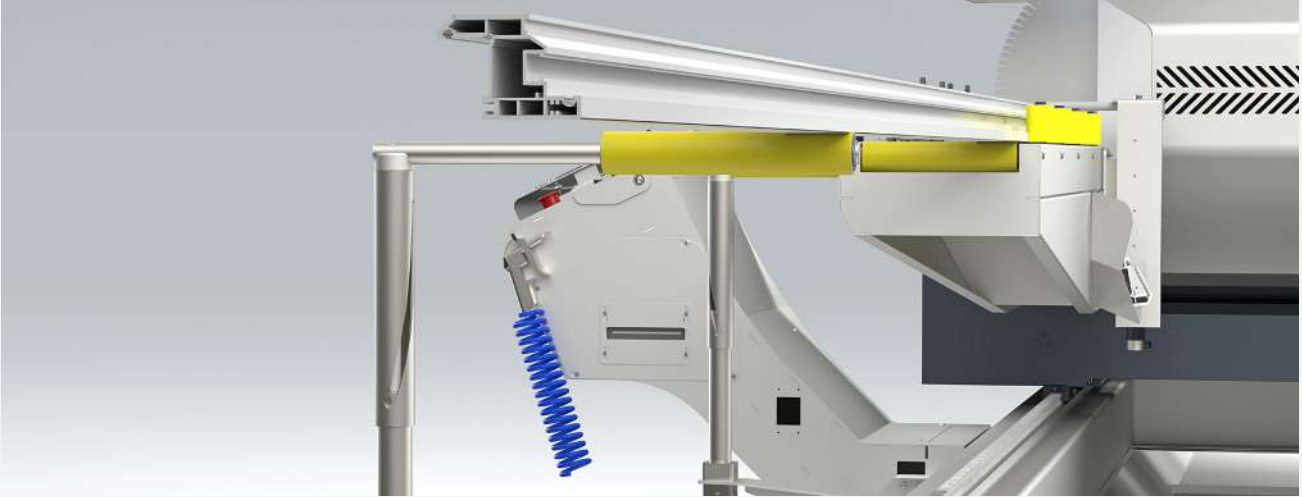
GEMINI II M / GEMINI II A



PROFILE SUPPORT UNITS

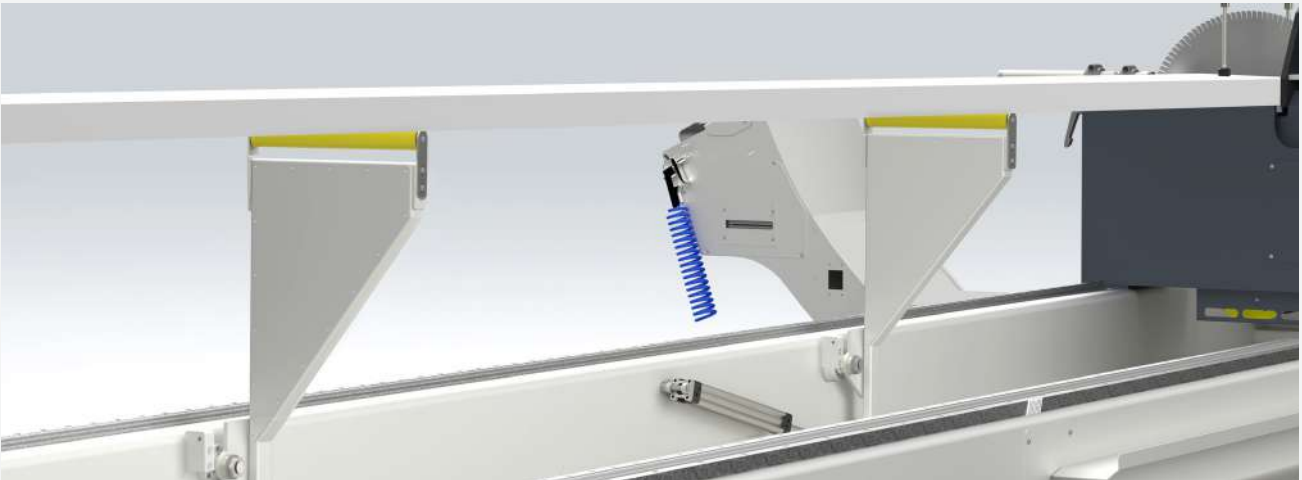
GEMINI VI /GEMINI V R / GEMINI V SA / GEMINI IV SA/ GEMINI IV M

Our machines are equipped with 2 automatic movable profile support units as standard. Due to the chassis structure of the machines, they prevent the profile from bending and cutting errors when placing long profiles.



GEMINI X

Our machines are equipped with 3 automatic movable profile support units as standard. Due to the chassis structure of the machine, they prevent the profile from bending and cutting errors when placing long profiles.



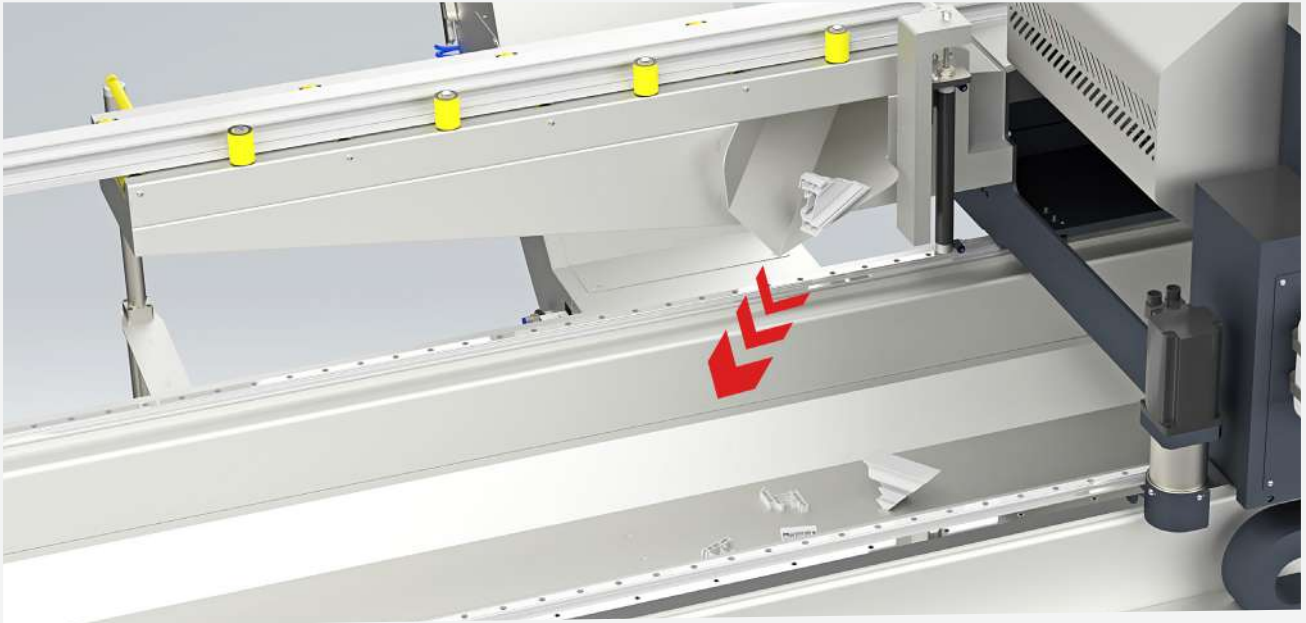
GEMINI II M / GEMINI II A

The movable profile support unit on the chassis eliminates the bending of long profiles, enabling flawless cuts.



SAWDUST CONVEYOR

Thanks to the pool-like reservoir structure within the chassis, the wastage generated after cutting are collected in this section, preventing workplace accidents and protecting the environment.

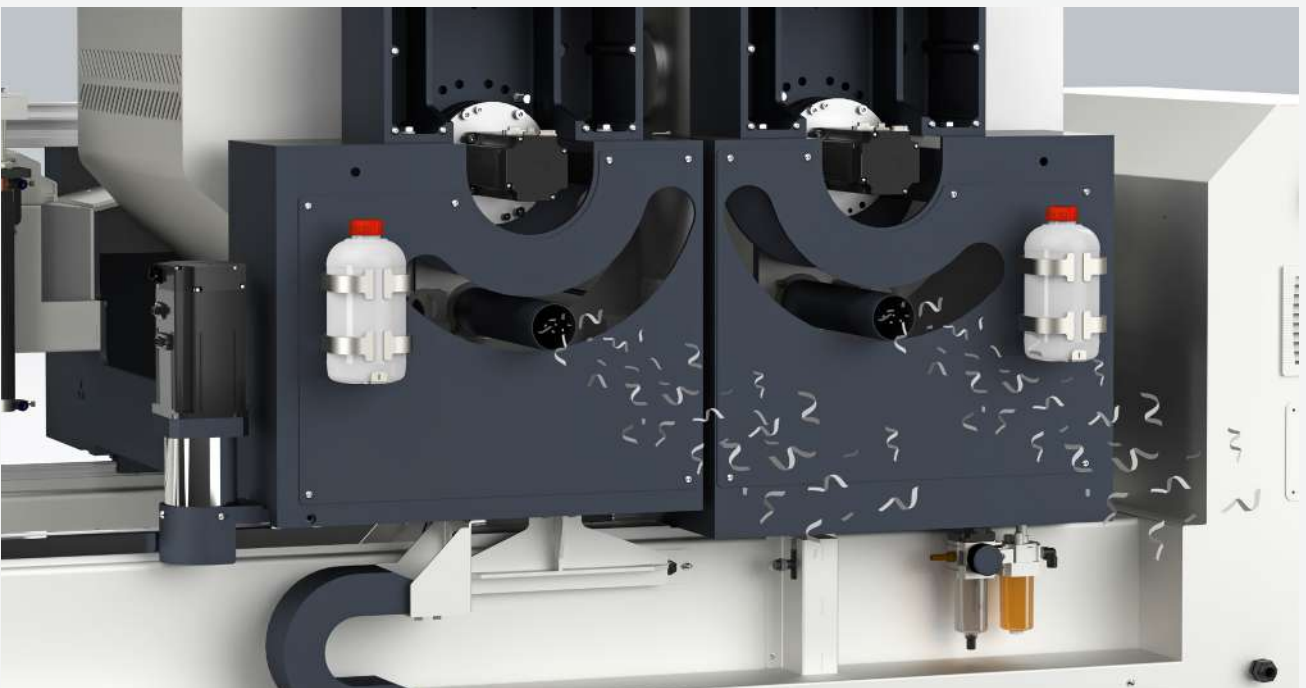


SAWDUST DRAWER

The wastages collected in the reservoir are gathered in the drawer located at the bottom of the machine through the sawdust evacuation in the middle section.



DUST EXTRACTION CONNECTION



SLICING

GEMINI IV SA / GEMINI V SA / GEMINI V R / GEMINI VI / GEMINI X

It performs fast and precise slicing of profiles at 90°.

90°



PROTECTIVE

GEMINI IV M / GEMINI IV SA / GEMINI V SA / GEMINI V R / GEMINI VI / GEMINI X

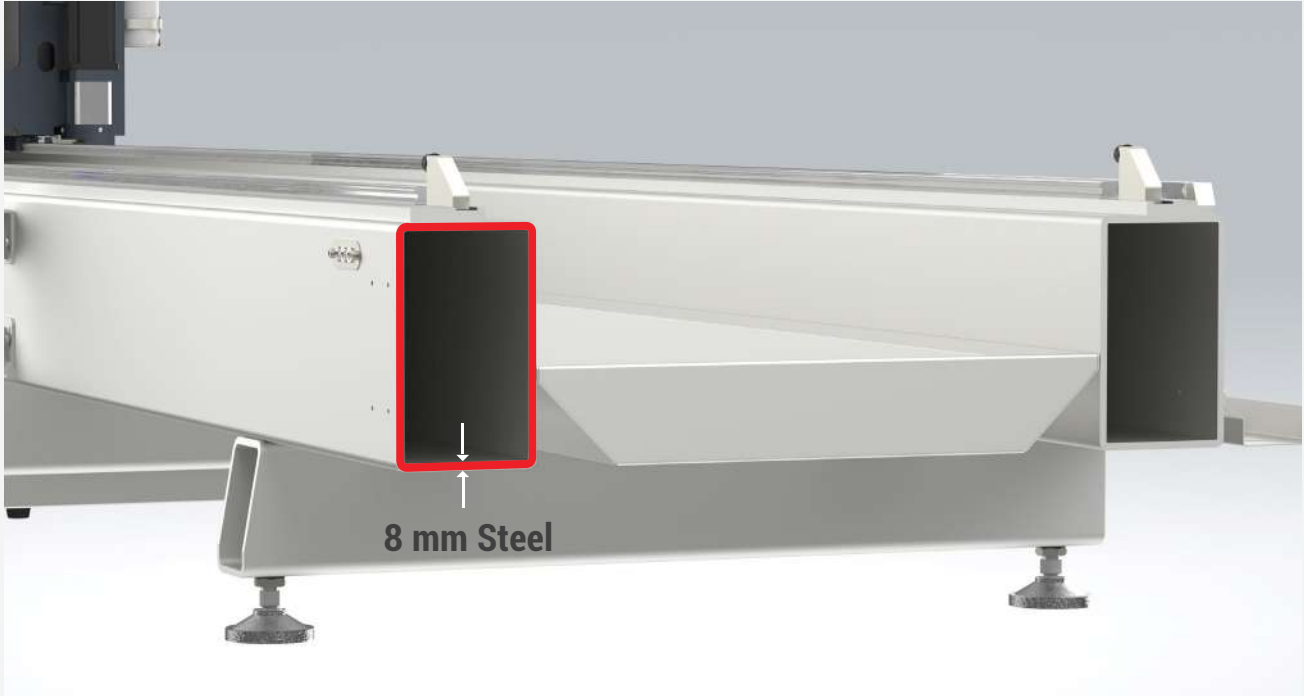
Compliant with CE standards, it can automatically close the cutting area during cutting, protecting the operator from potential workplace accidents.



LONG LIFE OPERATION

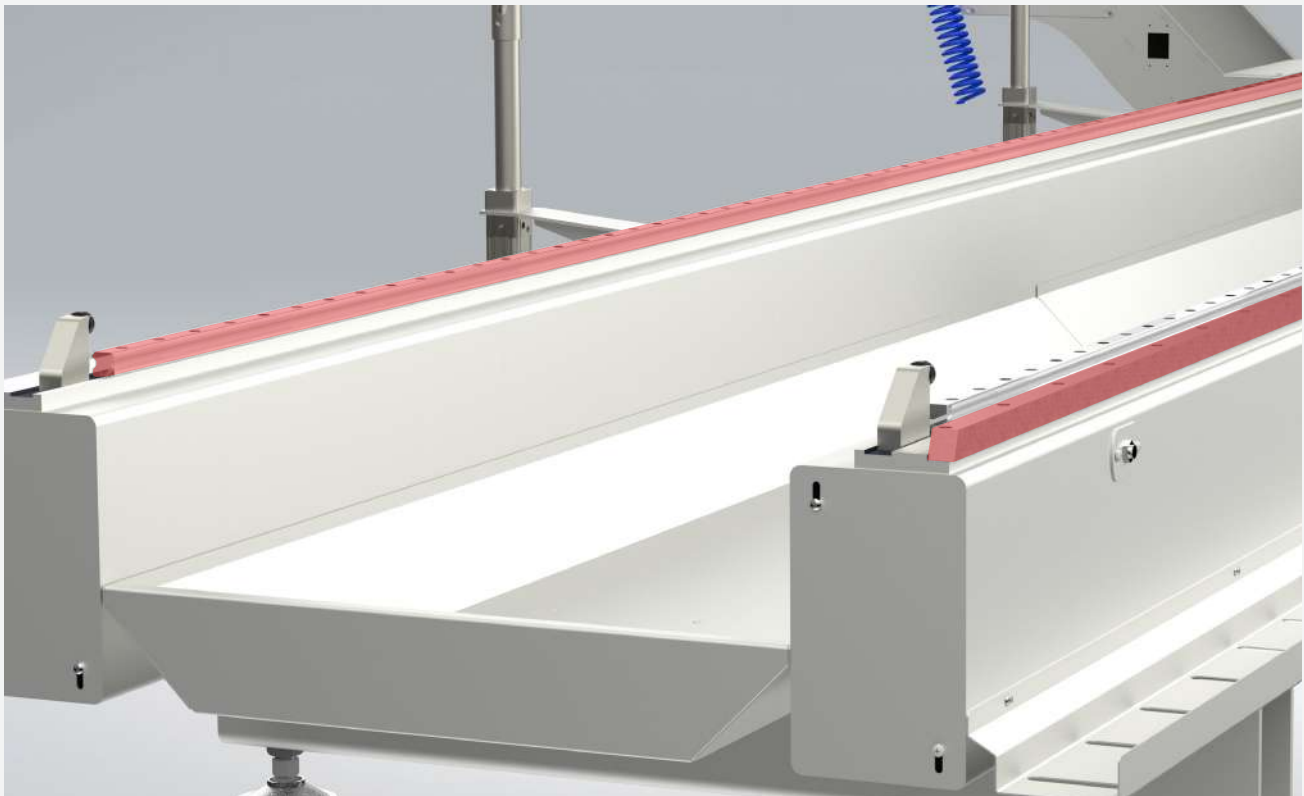
CHASSIS

One of our production principles is robustness. We offer our users the ability to work with rigid structure, precise cutting, and the same performance for many years by using 8 mm steel for the chassis of our machines.



LINEAR RAIL & RACK GEAR

We achieve extremely precise results in cuts thanks to the linear rails, linear carriages, and rack and pinion gears that play a significant role in the precision of our machines.



CONTROL PANEL

GEMINI II M



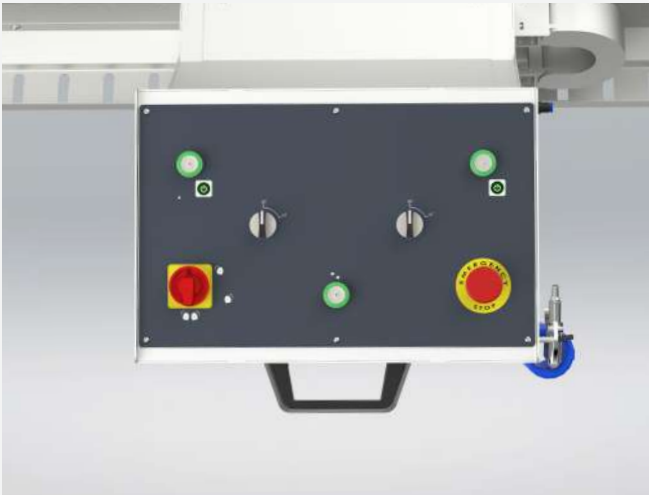
The clamps on the fixed and movable heads can be controlled separately via the control panel, and the double-hand start buttons on it also enhance safety to a high level.

GEMINI II A



The 5.6" screen, thanks to its sensitive touch feature, simplifies machine operation. Additionally, the double-hand start buttons on it also enhance safety to a high level.

GEMINI IV M



The double-hand start, clamp, emergency stop, saw motor, and single or double head operation buttons on the control panel enhance safety and usability.

GEMINI IV SA / GEMINI V SA GEMINI V R / GEMINI VI / GEMINI X



The 10" sensitive touch screen feature simplifies machine operation. The double-hand start button on it enhances safety, while the emergency stop allows for quick control of emergency situations. Additionally, there is a USB port for uploading CSV etc. files to the machine.

CONTROL PANEL

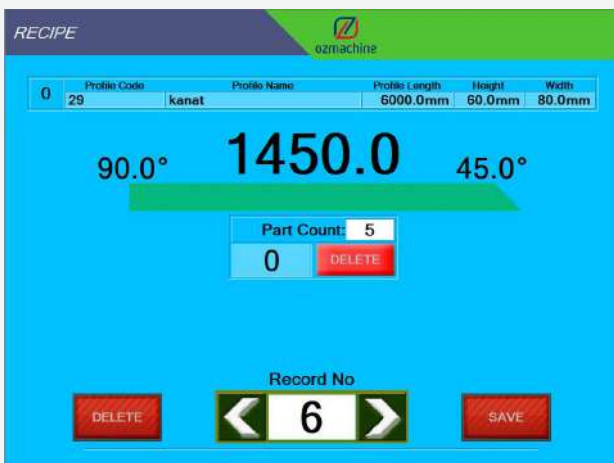
HOME PAGE



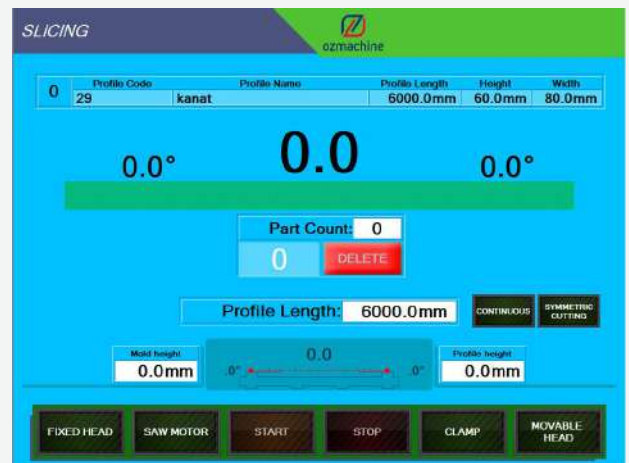
PROFILE LIST PAGE



MANUAL PAGE



SLICING PAGE



CUTTING CAPABILITY

GEMINI - X



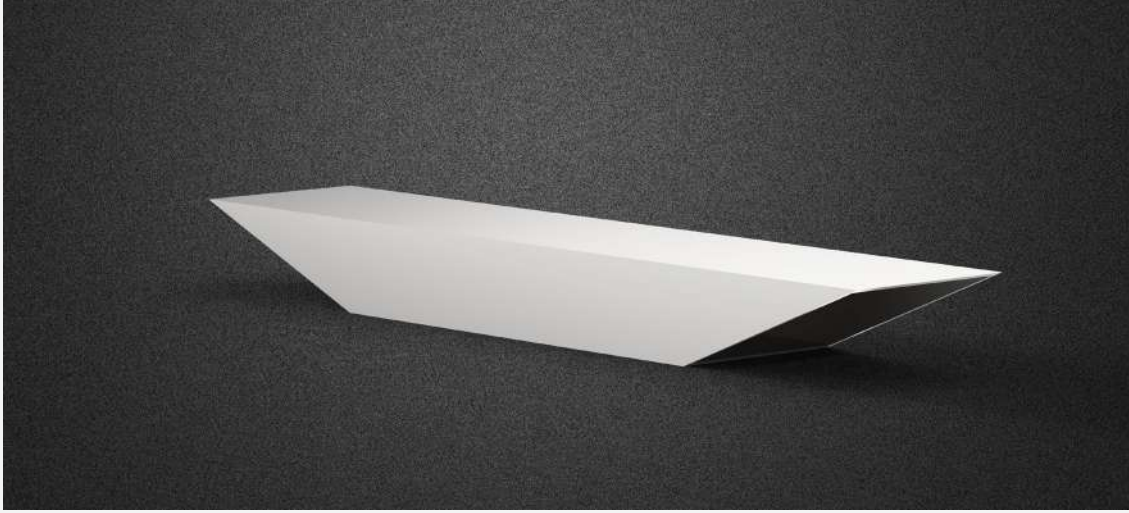
GEMINI - X



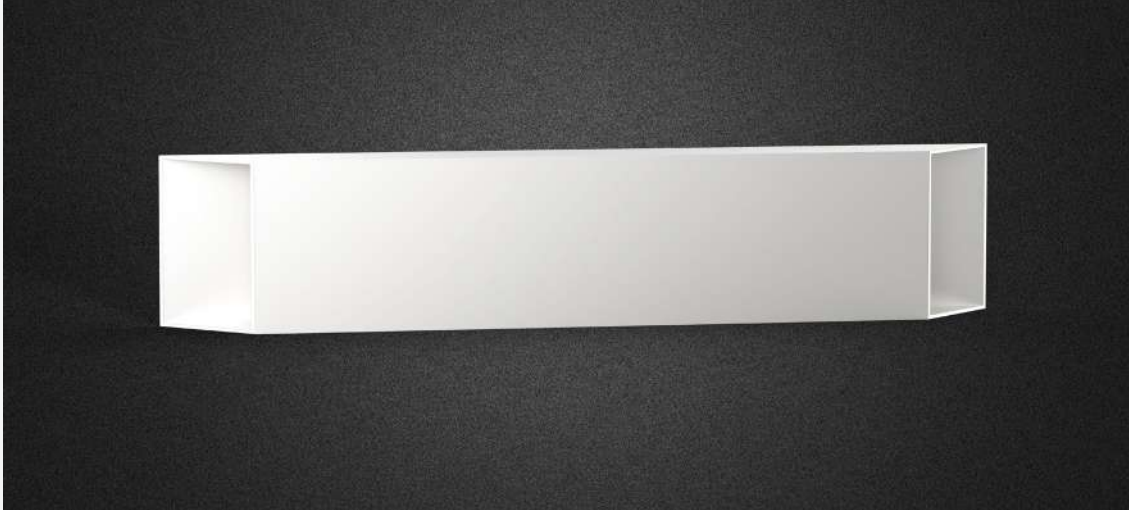
**GEMINI IV M / GEMINI IV SA / GEMINI V SA / GEMINI V R
GEMINI VI / GEMINI X**



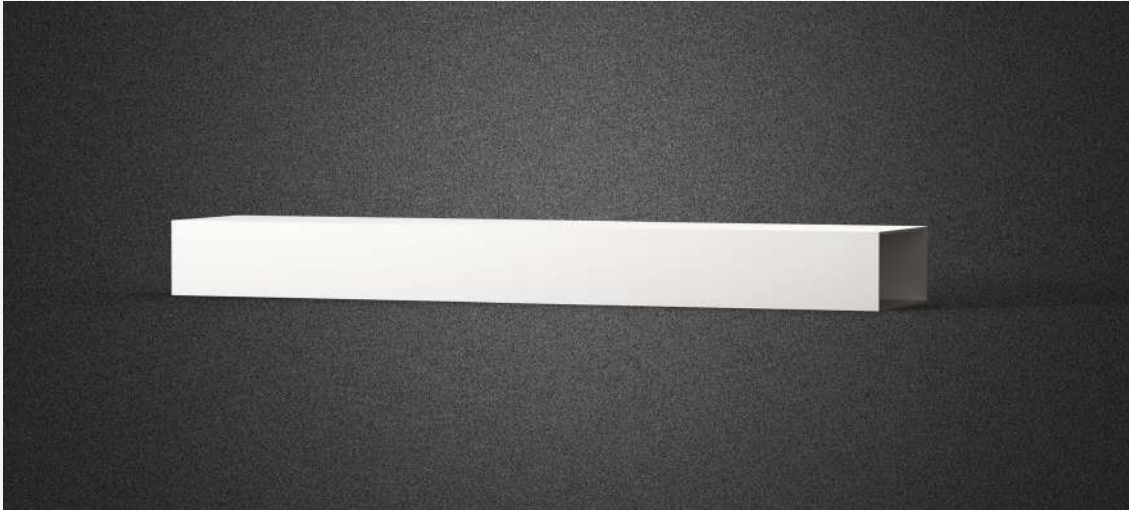
GEMINI V SA / GEMINI V R / GEMINI VI



GEMINI II M / GEMINI II A

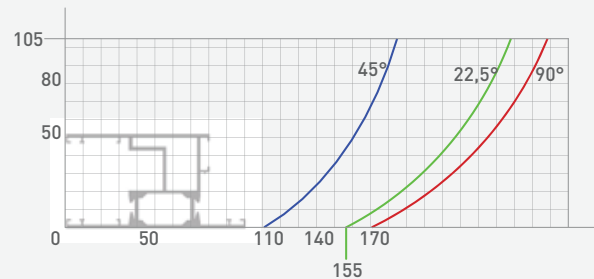
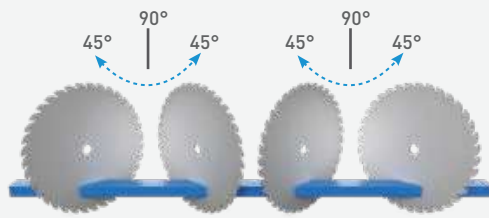


**GEMINI II M / GEMINI II A / GEMINI IV M / GEMINI IV SA
GEMINI V SA / GEMINI V R / GEMINI VI / GEMINI X**

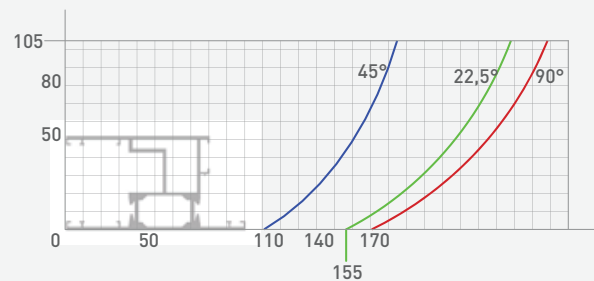
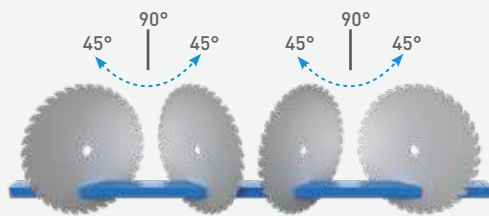


CUTTING DIAGRAMS

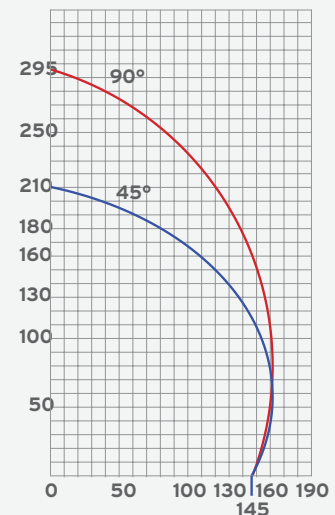
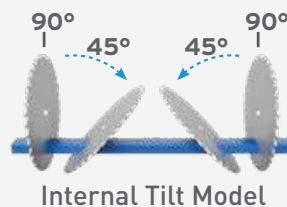
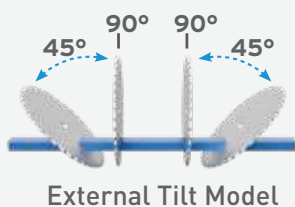
GEMINI - II M



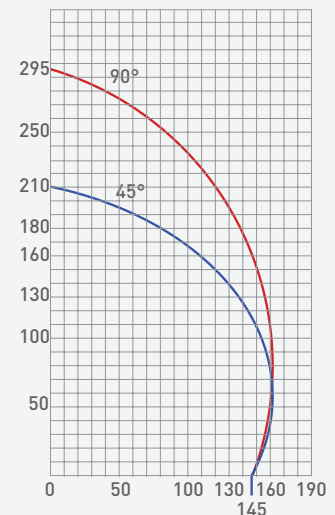
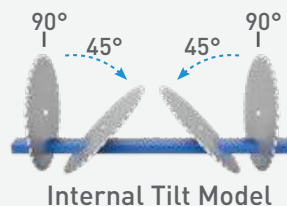
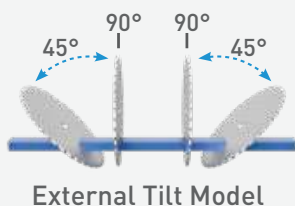
GEMINI - II A



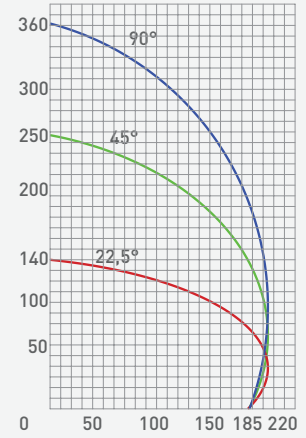
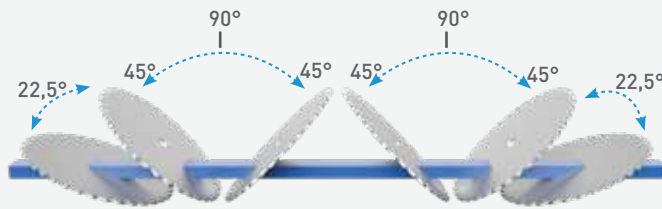
GEMINI - IV M



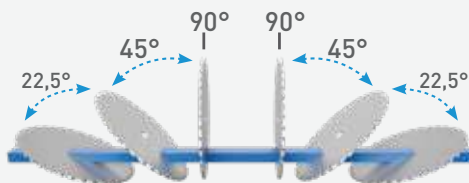
GEMINI - IV SA



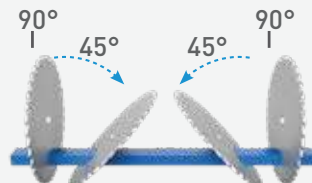
GEMINI - V R



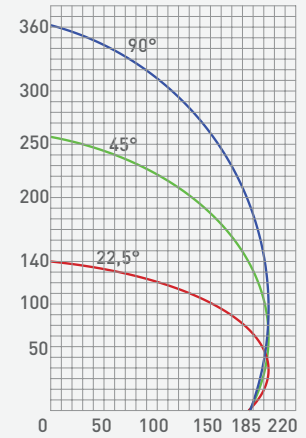
GEMINI - V SA



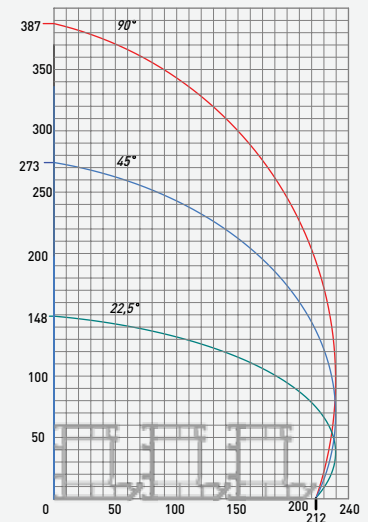
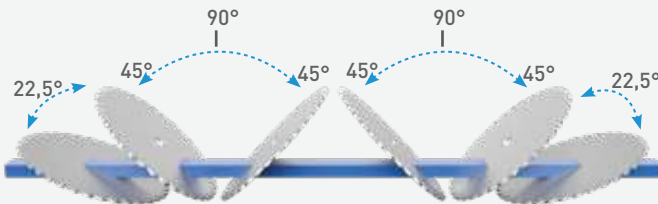
External Tilt Model



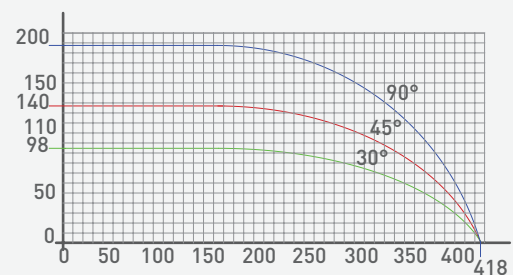
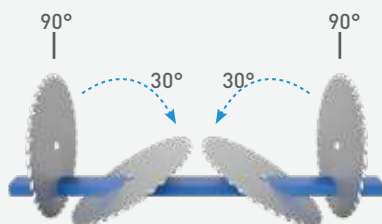
Internal Tilt Model



GEMINI - VI

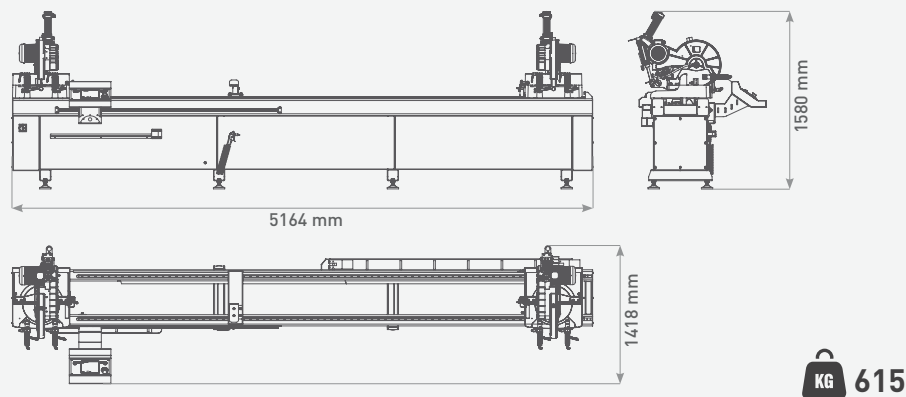


GEMINI - X

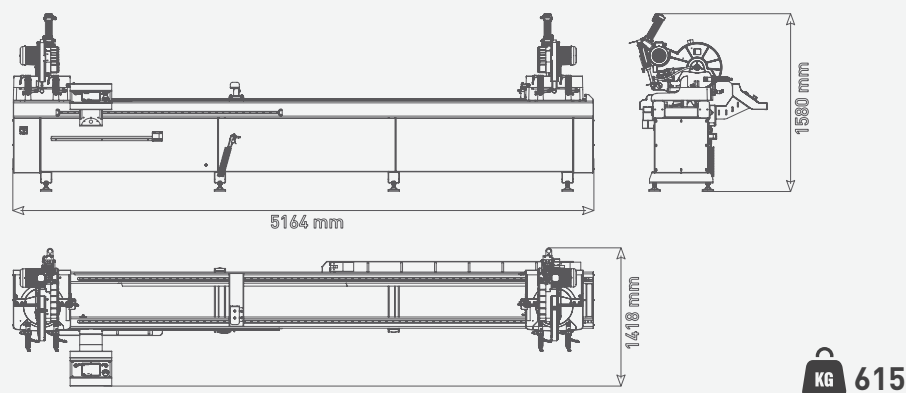


LAYOUT

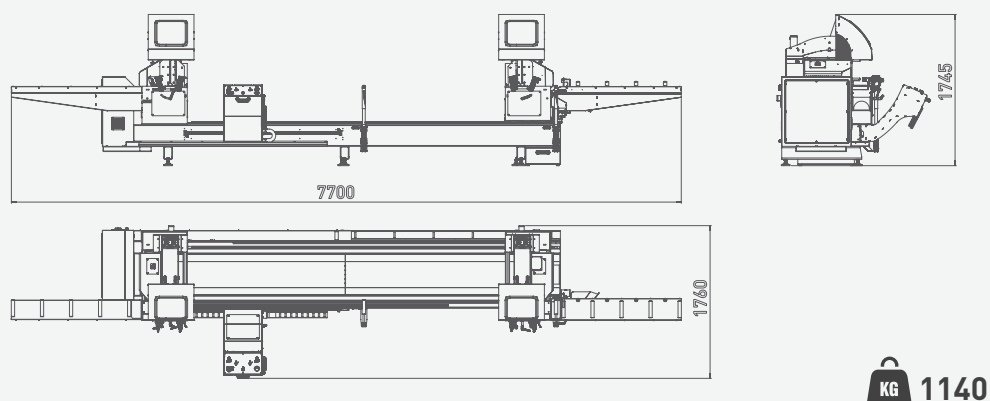
GEMINI - II M



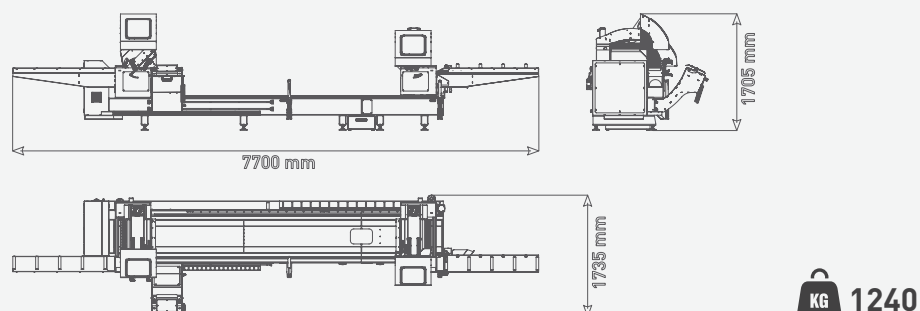
GEMINI - II A



GEMINI - IV M

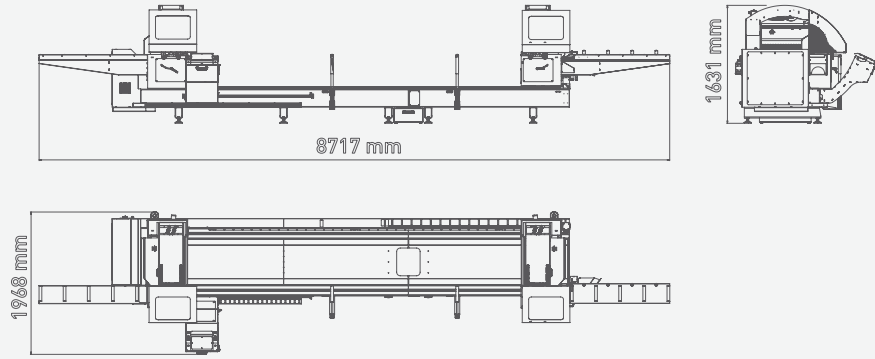


GEMINI - IV SA



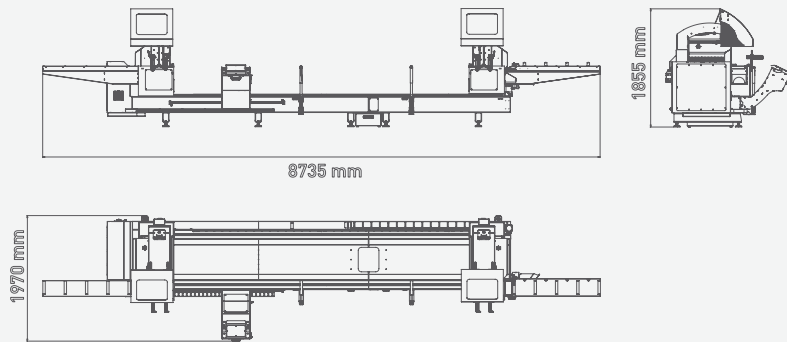
GEMINI - V SA

KG 1490



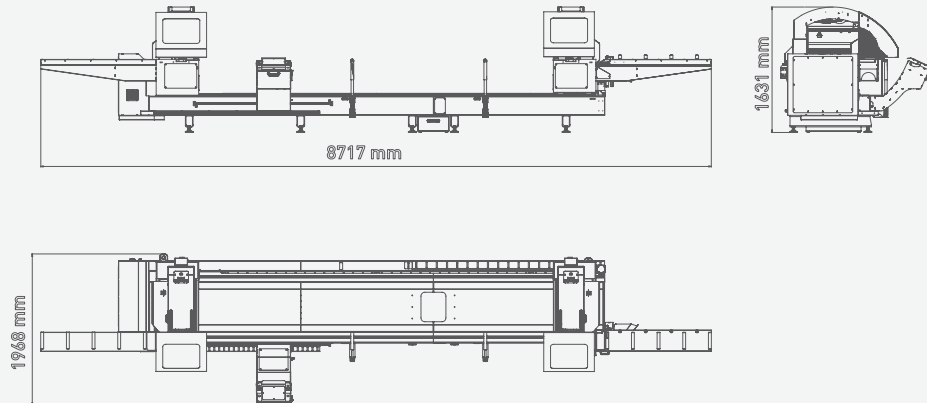
GEMINI - V R

KG 1450



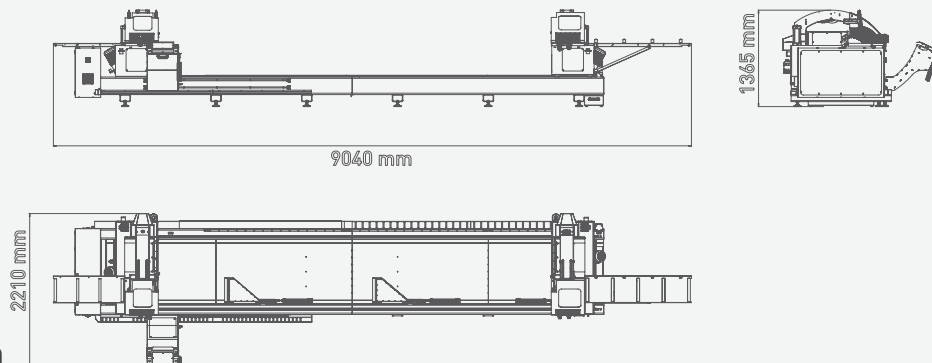
GEMINI - VI

KG 1530



GEMINI - X

KG 2240

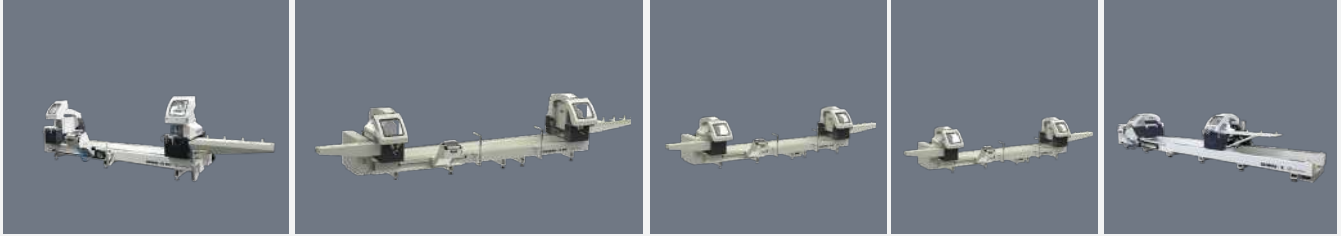


GEMINI SERIES

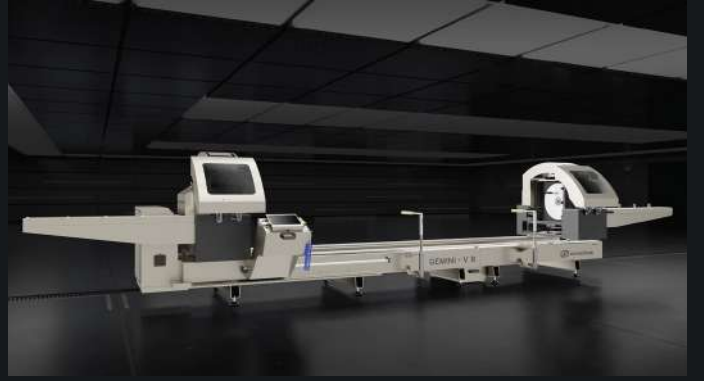


	GEMINI - II M	GEMINI - II A	GEMINI - IV M
Material (Alm / Pvc / Wood)	✓	✓	✓
Saw Diameter (mm)	Ø 400	Ø 400	Ø 450
Motor Power (kw)	2,2	2,2	2,2
Cutting Angle (°)	-45 / 45	-45 / 45	90 / 45 (Internal Model) -45 / 90 (External Model)
X-Axis (Longitudinal) Movement	Manual	Automatic (Electronic Control)	Manual (Measurement Reading with Digital Display)
Angle Positioning	Manual	Manual	Hydropneumatic (90 / 45 or -45 / 90 one button automatic)
Positioning at Intermediate Angles	Manual	Manual	Manual
Min. with Double Head Cutting Size- 90/45 (mm)	610 / 610	610 / 610	560/560
Max. with Double Head Cutting Size - 90/45 (mm)	4550 / 4550	4550 / 4550	4040 / 4040
Optional Length Extension on X Axis	X	X	Opt.
Saw Speed Adjustment	✓	✓	✓
Digital Adjustment of Saw Output Adjustment	X	X	X
Profile Intermediate Support	Manual (1 pcs.)	Manual (1 pcs.)	Automatic (1 pcs.)
Conveyor - Moving Head	X	X	✓
Conveyor - Fixed Head	X	X	Opt.
Spray Saw Cooling System	✓	✓	✓
Barcode Printer	X	X	X
Oz Machine Softcut (Cutting optimization program)	X	X	X
Remote Network Connection, Ethernet and USB Data Transfer	X	X	X

COMPARING TABLE



GEMINI - IV SA	GEMINI - V SA	GEMINI - V R	GEMINI - VI	GEMINI - X
✓	✓	✓	✓	✓
Ø 450	Ø 550	Ø 550	Ø 600	Ø 550
2,2	3	3	3	3
90 / 45 (Internal Model) -45 / 90 (External Model)	90 / 45 (Internal Model) -22,5/ -45 / 90 (External Model)	-22,5 / 45	-22,5 / 45	90 / 30
Automatic (Electronic Control)	Automatic (Servo)	Automatic (Servo)	Automatic (Servo)	Automatic (Servo)
Hydropneumatic (90 / 45 or -45 / 90 one button automatic)	Hydropneumatic (90 / 45 or -45 / 90 one button automatic)	Automatic (Servo)	Automatic (Servo)	Automatic (Servo)
Manual	Manual	Automatic (Servo)	Automatic (Servo)	Automatic (Servo)
400 / 560	480 / 720	480 / 720	480 / 720	460 / 460
4040 / 4040	5050 / 5050	5050 / 5050	5050 / 5050	6000 / 6000
Opt.	Opt.	Opt.	Opt.	Opt.
✓	✓	✓	✓	✓
Opt.	Opt.	✓	✓	✓
Automatic (2 pcs.)	Automatic (2 pcs.)	Automatic (2 pcs.)	Automatic (2 pcs.)	Automatic (3 pcs.)
✓	✓	✓	✓	✓
Opt.	Opt.	✓	✓	✓
✓	✓	✓	✓	✓
Opt.	Opt.	✓	✓	✓
Opt.	Opt.	Opt.	Opt.	Opt.
✓	✓	✓	✓	✓



 ozmachine

 özçelik



ÖZÇELİK MAKİNA SAN. VE TİC. A.Ş.

Anadolu Mh. Kanuni Cd. No:8 34956 Orhanlı, Tuzla, İstanbul / Turkey

T: +90 216 304 20 10 | F: +90 216 304 19 88

www.ozcelik.com | info@ozcelik.com / info@oz-machine.com