



PVC
ALUMINUM
GLASS

INTELLIGENT MACHINES

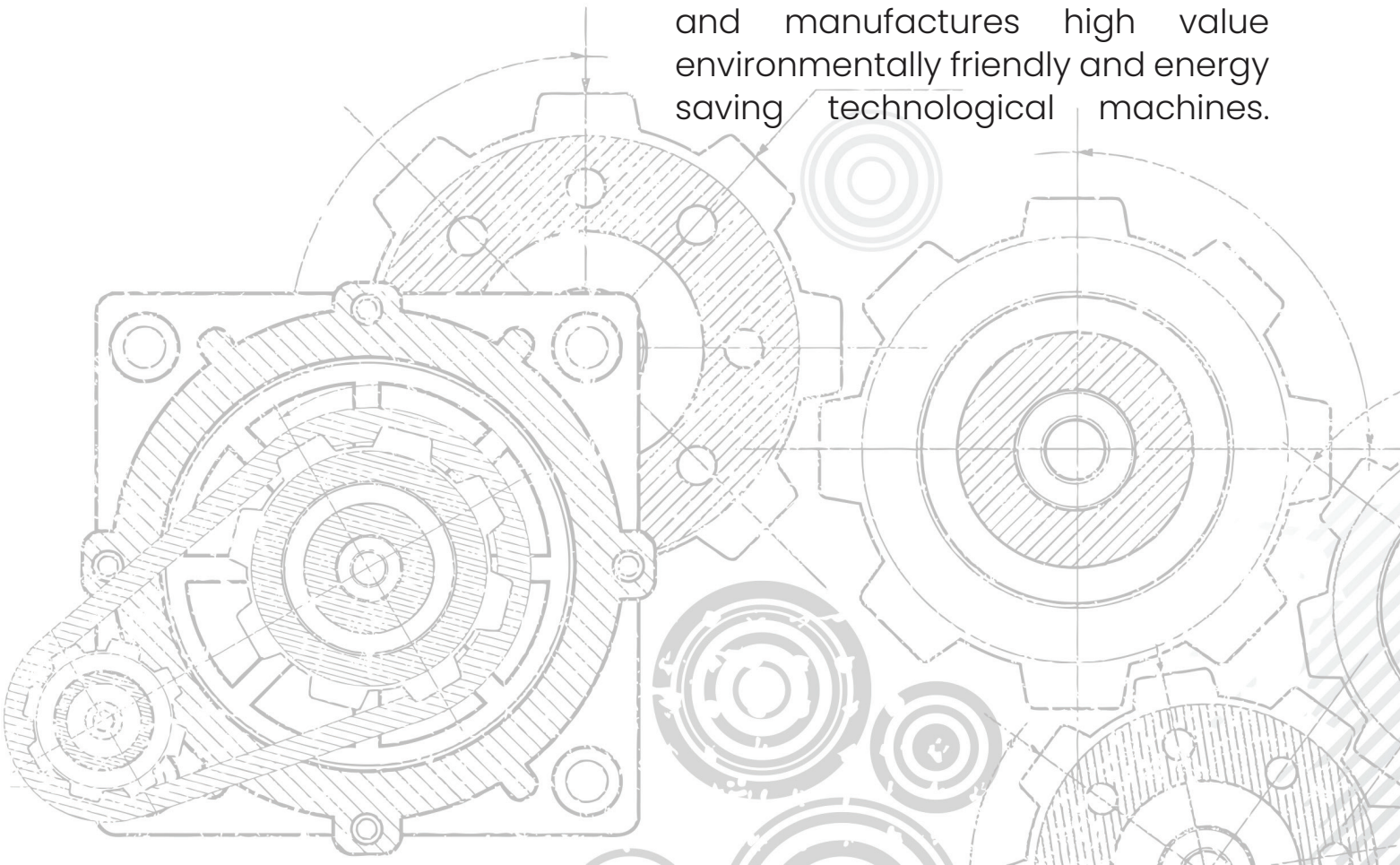
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"INTEL MAKİNA INDUSTRY AND TRADING CORP."

It incorporated Intel Makina A.Ş. Producing solutions covering all processes in uPvc and Aluminum automation. Intel Makina A.Ş., to increase the working efficiency of factories and the comfort of employees continues to improve its superior technology day by day.

By constantly monitoring new trends and customer expectations, having advanced technology, designs and manufactures high value environmentally friendly and energy saving technological machines.







"7000
SQUARE METERS"

By increasing its facilities of 5000 square meters to 7000 square meters, technological machines started production.



INTELLIGENT MACHINES

SIRIUS D 550	8-9
Pvc Profile Machining and Cutting Center	
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SIRIUS D550

Pvc Profile Machining
and Cutting Center

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SIRIUS D550

Pvc Profile Machining and Cutting Center

Intel Makina's Pvc Profile Machining and Cutting Center are the only machines in this regard due to their durability and reliability features.

It is ideal for cutting aluminum and PVC profiles of different thicknesses and angles. These latest generation machines make a significant contribution to the production line phases thanks to their extremely clear and easy use in the cutting process. SIRIUS D 550 All sawing, milling, drilling and marking operations on PVC profiles are gathered in one machine controlled by a computer.

TECHNICAL DETAILS

Electric Values	380-400V, 3ph, 50-60 Hz	Machine Weight	4500 Kg
Total kW Value	25 kW	Max. Profile Thickness Can Be Cut	130 mm
Motor Power	1.5 kW	Max. Profile Height Can Be Cut	160 mm
Air Consumption	450 lt/min	Min. Profile Thickness Can Be Cut	30 mm
Air Pressure	6-8 Bar	Min. Profile Height Can Be Cut	35 mm
Minimum Workable Profile Length	350 mm	Saw Outside Diameter	1 Piece Ø550
Maximum Workable Profile Length	7000 mm	Saw Inside Diameter	Ø30
Max. Length of Profile Can Be Loaded	7000 mm	Saw Thickness	4,2 mm
Machine Height	2400 mm	Number of Saw Teeth	120
Machine Length	13950 mm	Number of Saws Used	1
Machine Width	2750 mm	Saw Speed	3000 rpm
		Drillers Speed	9 x 18000 rpm

*Photos are for example purposes only

CONTROL

Automatic cutting in all angles between 30° and 150° with accuracy of 0,1° by means of servo motors

Stacking of 9 profiles (max 7 m length)

Industrial PC with Windows XP embedded which works between 0°C – 55°C without fan 21"

Data transfer is available via network and connection or USB interface

Thanks to its easy-to-use and flexible operating system, all works in harmony with chopping and optimization programs.

There is a working algorithm in accordance with the principle of minimum waste and maximum production.

Waste can be automatically optimized and evaluated within the cut lists sent.

Parameters can be adjusted easily.

Usb login

PROFILE ENTRY UNIT

9 Profiles can be loaded on the input conveyor.

Profile loading capacity can be increased optionally

Profile transport and positioning, automatic profile recognition feature.

Minimum 900 mm., Maximum 7000 mm. It measures the profile length automatically. (There is an infinite length processing option)

There is a warning system that prevents the wrong profile.

Ability to back-up daily data on internal storage unit

Central lubrication system to ease the machine maintenance

Problem identification, solution and servicing by means of remote connections

Ability to notify the user against incorrect loaded profile thanks to profile recognition system

PROFILE EXIT UNIT

Exit robot automatically transfers onto the conveyor

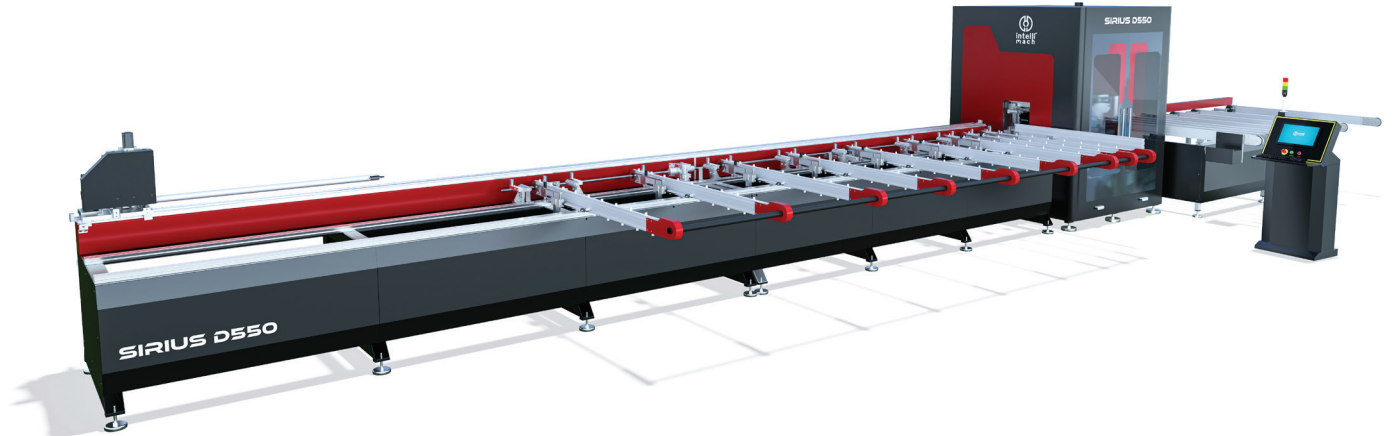
If desired, a label from the barcode printer for each finished piece by taking the printout, convenience can be provided for production organization

(OPTIONAL)

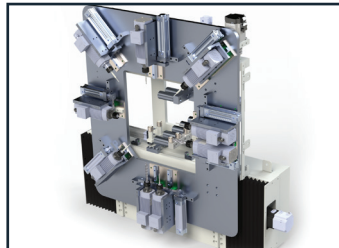
INDUSTRIAL LABEL PRINTER

The industrial label printer allows to recognize each cut profile according to its characteristics found in the cutting list.

In addition, writing code on them makes it extremely convenient to easily find the order ID of each profile and especially for subsequent transactions.



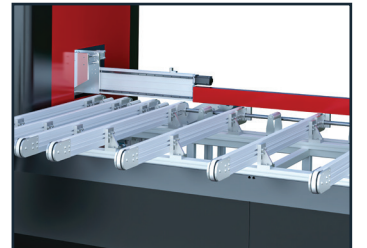
Industrial PC



Drilling and Milling Group



Barcode Printer



Pneumatic Profile Exit Unit

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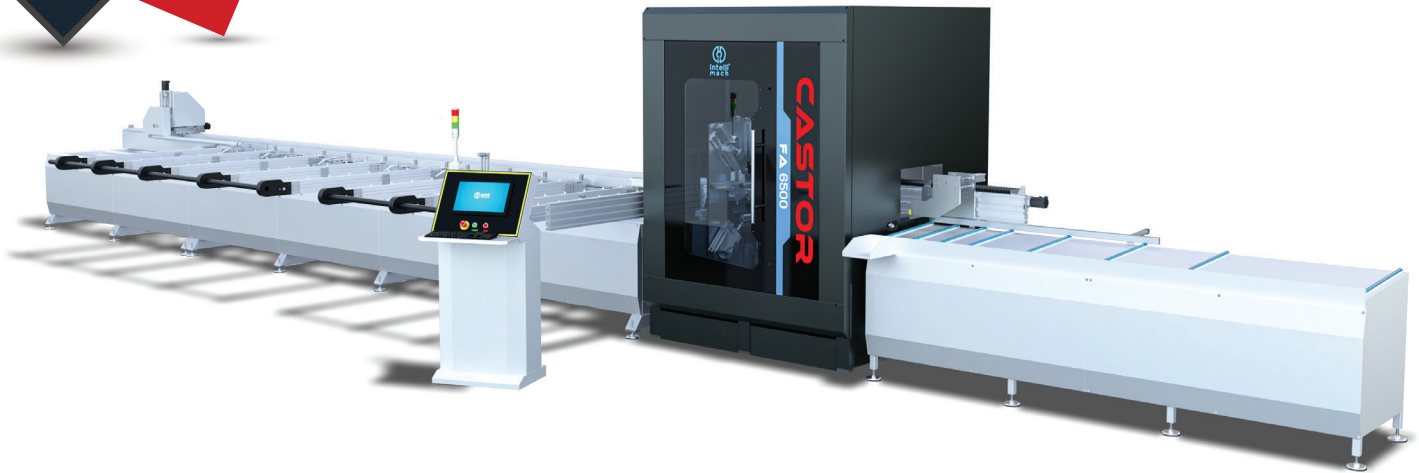
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INTELLIGENT MACHINES

CASTOR FA6500

Pvc Profile Machining
and Cutting Center

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CASTOR FA6500

Pvc Profile Machining and Cutting Center

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TECHNICAL DETAILS

Electric Values	380-400V, 3ph, 50-60 Hz	Machine Weight	4400 Kg
Total kW Value	23 kW	Max. Profile Thickness Can Be Cut	130 mm
Motor Power	1.5 kW	Max. Profile Height Can Be Cut	160 mm
Air Consumption	450 lt/min	Min. Profile Thickness Can Be Cut	30 mm
Air Pressure	6-8 Bar	Min. Profile Height Can Be Cut	35 mm
Minimum Workable Profile Length	350 mm	Saw Outside Diameter	1 Piece Ø550
Maximum Workable Profile Length	7000 mm	Saw Inside Diameter	Ø30
Max. Length of Profile Can Be Loaded	7000 mm	Saw Thickness	4,2 mm
Machine Height	2400 mm	Number of Saw Teeth	120
Machine Length	13950 mm	Number of Saws Used	1
Machine Width	2750 mm	Saw Speed	3000 rpm
		Drillers Speed	5 x 18000 rpm

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CONTROL

Automatic cutting in all angles between 30° and 150° with accuracy of 0,1° by means of servo motors

Stacking of 9 profiles (max 7 m length)

Industrial PC with Windows XP embedded which works between 0°C – 55°C without fan 21,5 “

Data transfer is available via network and connection or USB interface

Thanks to its easy-to-use and flexible operating system, all works in harmony with chopping and optimization programs.

There is a working algorithm in accordance with the principle of minimum waste and maximum production.

Waste can be automatically optimized and evaluated within the cut lists sent.

Parameters can be adjusted easily.

Usb login

PROFILE ENTRY UNIT

9 Profiles can be loaded on the input conveyor.

Profile loading capacity can be increased optionally

Profile transport and positioning, automatic profile recognition feature.

Minimum 900 mm., Maximum 7000 mm. It measures the profile length automatically. (There is an infinite length processing option)

There is a warning system that prevents the wrong profile.

Ability to back-up daily data on internal storage unit

Central lubrication system to ease the machine maintenance

Problem identification, solution and servicing by means of remote connections

Ability to notify the user against incorrect loaded profile thanks to profile recognition system

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Exit robot automatically transfers onto the conveyor

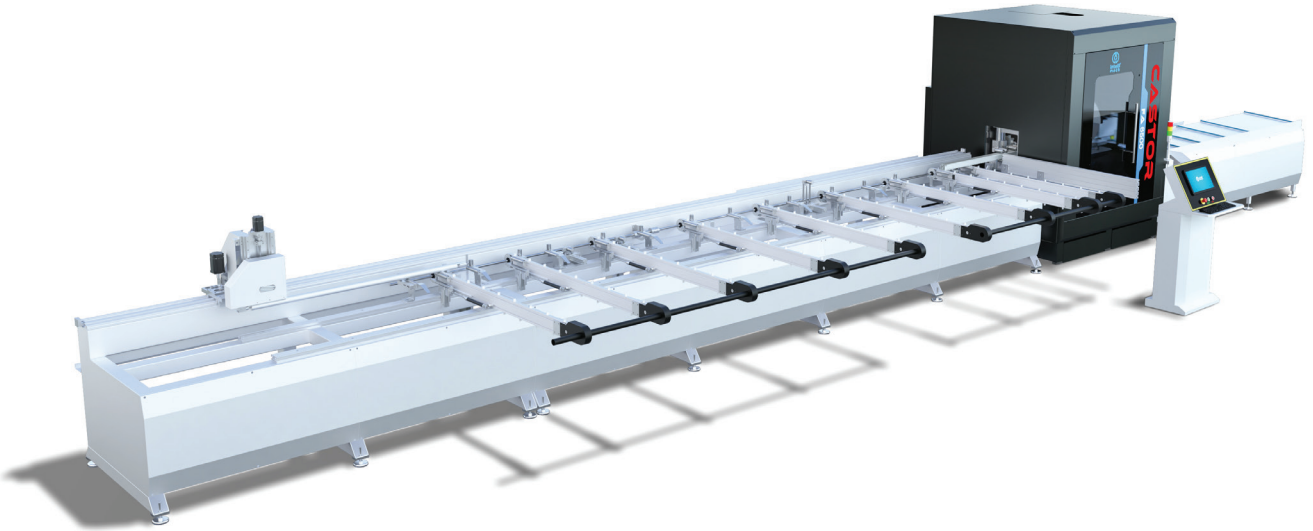
If desired, a label from the barcode printer for each finished piece by taking the printout, convenience can be provided for production organization

(OPTIONAL)

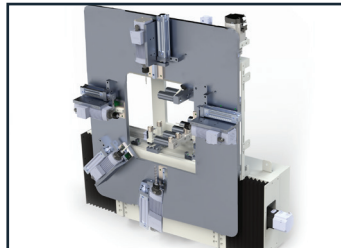
INDUSTRIAL LABEL PRINTER

The industrial label printer allows to recognize each cut profile according to its characteristics found in the cutting list.

In addition, writing code on them makes it extremely convenient to easily find the order ID of each profile and especially for subsequent transactions.



Industrial PC



Drilling and Milling Group



Barcode Printer



Pneumatic Profile Exit Unit

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INTELLIGENT MACHINES

FC 550

Pvc Profile Cutting Center

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FC 550

Pvc Profile Cutting Center

Intel Makina's Pvc Profile Cutting Center are the only machines in this regard due to their durability and reliability features. It is ideal for cutting aluminum and PVC profiles of different thicknesses and angles. These latest generation machines make a significant contribution to the production line phases thanks to their extremely clear and easy use in the cutting process. FC 550 All sawing, operations on PVC profiles are gathered in one machine controlled by a computer.

TECHNICAL DETAILS

Electric Values	380-400V, 3ph, 50-60 Hz	Machine Weight	4250 Kg
Total kW Value	15 kW	Max. Profile Thickness Can Be Cut	130 mm
Motor Power	1.5 kW	Max. Profile Height Can Be Cut	160 mm
Air Consumption	380 lt/min.	Min. Profile Thickness Can Be Cut	30 mm
Air Pressure	6-8 Bar	Min. Profile Height Can Be Cut	35 mm
Minimum Workable Profile Length	350 mm	Saw Outside Diameter	1 Piece Ø550
Maximum Workable Profile Length	7000 mm	Saw Inside Diameter	Ø30
Max. Length of Profile Can Be Loaded	7000 mm	Saw Thickness	4,2 mm
Machine Height	2400 mm	Number of Saw Teeth	120
Machine Length	13350 mm	Number of Saws Used	1
Machine Width	2750 mm	Saw Speed	3000 rpm

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CONTROL

FC-550 is a servo-controlled machine which is specifically designed for the serial cutting of any kind of PVC profiles in the market.

22" Industrial PC has been used

The machine is able to cut PVC profiles into required dimension

Operator places 8 pieces of profiles of maximum length of 6.5 m and minimum length of 0.7 m on the feeding conveyor of the machine, and presses on start button

Machine start the cutting operation of the profiles with the help of high performance robot arm and saw unit as per the requested angle between the angle of 45°-135° then collocates them on the outlet conveyor.

Operator attaches barcodes on the machined profiles to make them ready for the assembly

PROFILE ENTRY UNIT

9 Profiles can be loaded on the input conveyor.

Profile loading capacity can be increased optionally

Profile transport and positioning, automatic profile recognition feature.

Minimum 900 mm., Maximum 7000 mm. It measures the profile length automatically. (There is an infinite length processing option)

There is a warning system that prevents the wrong profile.

Ability to back-up daily data on internal storage unit

Central lubrication system to ease the machine maintenance

Problem identification, solution and servicing by means of remote connections

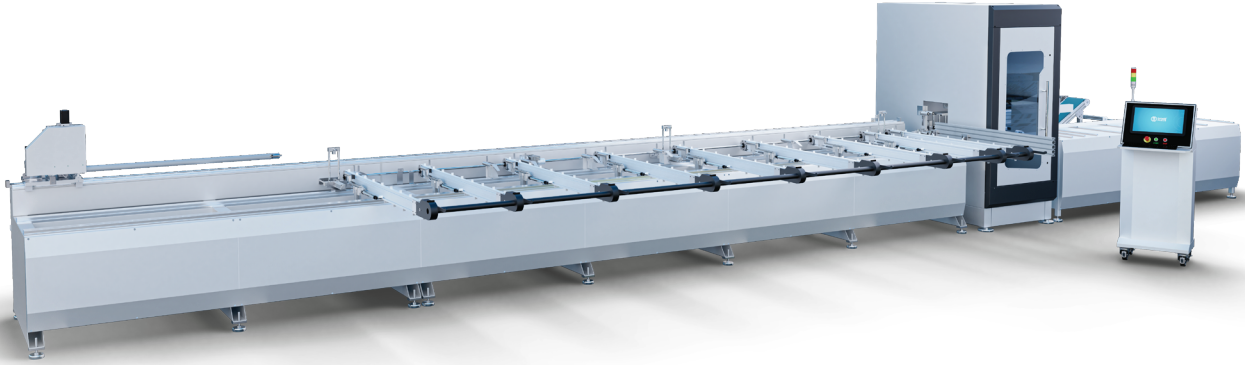
Ability to notify the user against incorrect loaded profile thanks to profile recognition system

(OPTIONAL)

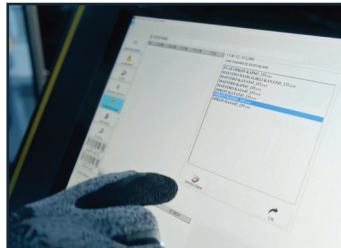
INDUSTRIAL LABEL PRINTER

The industrial label printer allows to recognize each cut profile according to its characteristics found in the cutting list.

In addition, writing code on them makes it extremely convenient to easily find the order ID of each profile and especially for subsequent transactions.



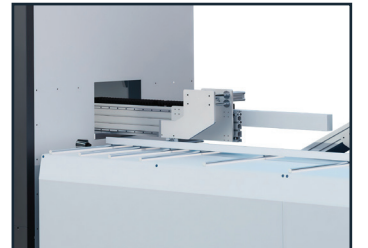
Industrial PC



Easy to use



Barcode Printer



Pneumatic Profile Exit Unit

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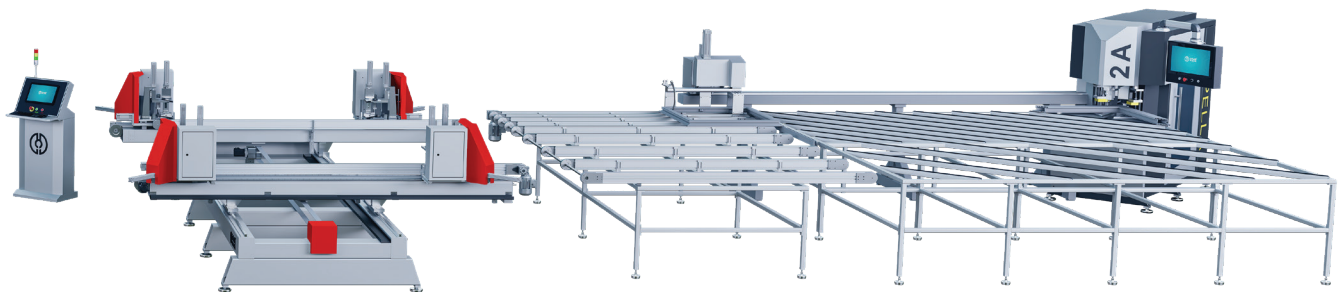
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INTELLIGENT MACHINES

WRC 2500

PVC Welding and
Cleaning Center

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WRC 2500

PVC Welding and Cleaning Center

Intel Makina's PVC Welding and Cleaning Center Four Corner Welding and CNC Corner Cleaning Automation Line Four Corner Welding Machine is formed by the integration of Cooling and Holding Station, Robotic Turning Station and CNC Corner Cleaning Machine.

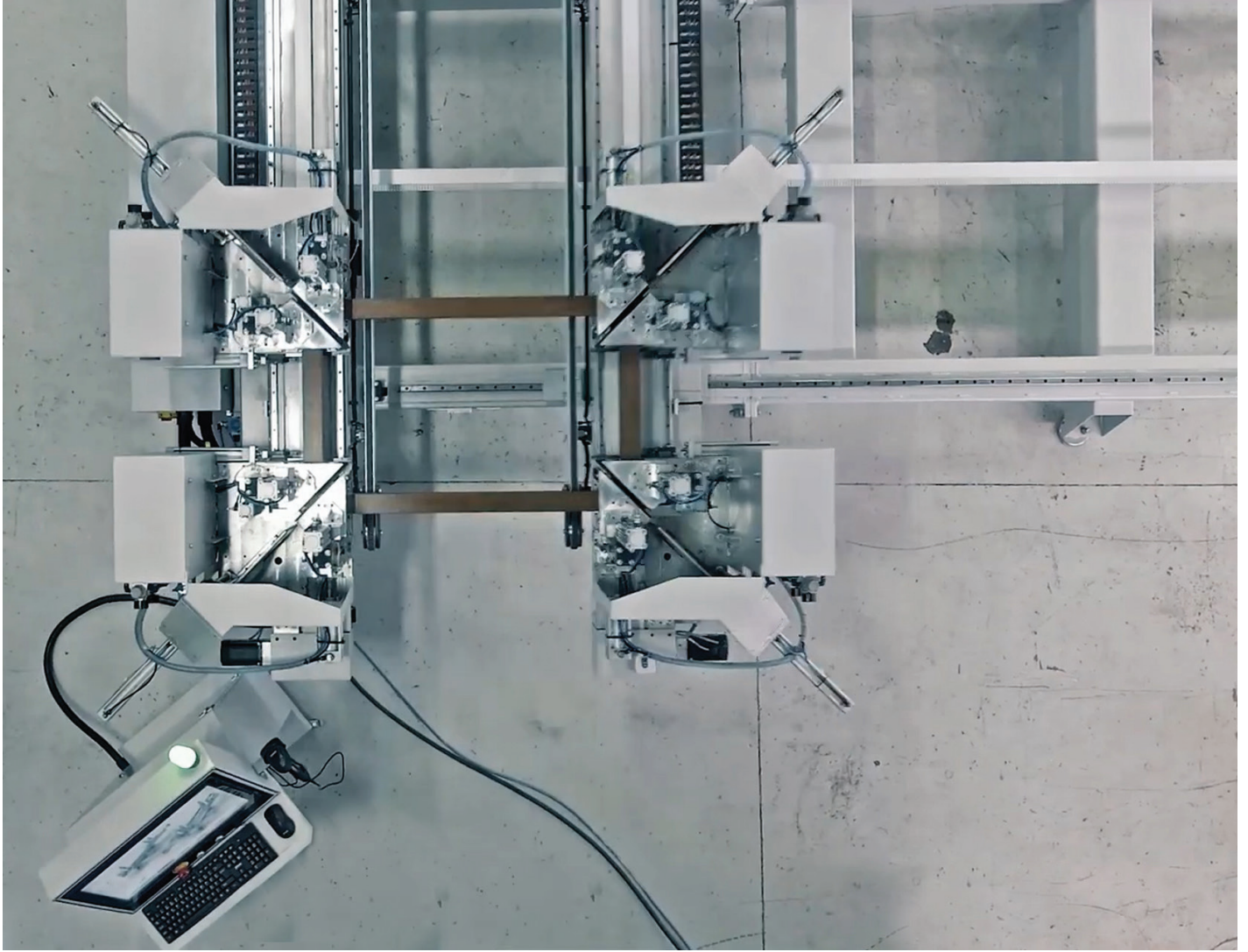
After the frame is welded and passed through the cooling and waiting station, turning all the corners with the robotic turning system and cleaning all the slags formed during welding, controlling all the stages with the computer system.

WELDING

It welds the four corners of PVC Profiles at 90° angle at the same time and with high precision. In automatic generation mode, the window works in accordance with the data received from the drawing program. It has a computer-controlled (PID) heat control system in order to obtain welding strength within the standards.

For each profile type, there is a separately definable temperature, melting and bonding time. It distributes the heat homogeneously to the long-lasting heating plate system, with its unique design, without being affected by the working environment. The preheated welding blades ensure good welding even in cold weather conditions. Welding molds can be changed quickly and easily. Axes are servo motor controlled.

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COOLING AND BUFFER STATION

Works between a corner cleaner and a welding machine.

TURNING STATIONS WITH THE ROBOTIC ARMS

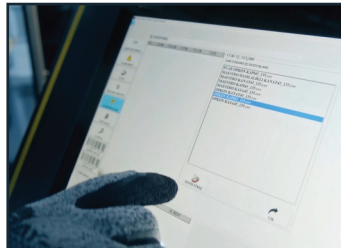
High speed and high accuracy turning operation via a robotic system with strong and fast mechanical turning arms.

CNC PVC PROFILE CORNER CLEANING MACHINE

Designed to clean the corners of PVC profiles from welding seals.



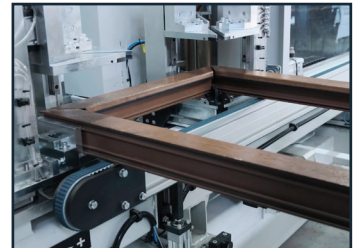
Industrial PC



Easy To use



Barcode Printer



Precision Welding

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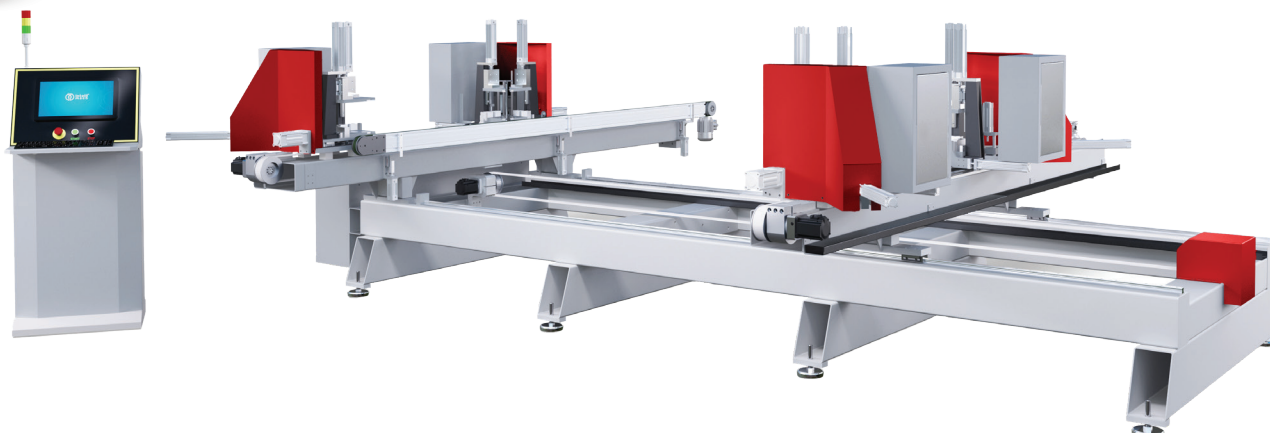
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INTELLIGENT MACHINES

CW 400

Pvc Four Corner
Welding Machine

www.intelmakina.com



CW 400

Pvc Four Corner Welding Machine

It welds the four corners of PVC Profiles at 90° angle at the same time and with high precision. In automatic generation mode, the window works in accordance with the data received from the drawing program. It has a computer-controlled (PID) heat control system in order to obtain welding strength within the standards.

For each profile type, there is a separately definable temperature, melting and bonding time. It distributes the heat homogeneously to the long-lasting heating plate system, with its unique design, without being affected by the working environment. The preheated welding blades ensure good welding even in cold weather conditions. Welding molds can be changed quickly and easily. Axes are servo motor controlled.

TECHNICAL DETAILS

Electric Values	400 V, 3 ph, 50-60 Hz	Air Pressure	6-8 bar
Total Power	17 kW	Air Consumption	200-250 lt/min.
Max. Welding Size	3.650 mm x 2.600 mm	Machine Height	1600 mm
Min. Welding Size	350 mm x 400 mm	Machine Length	5500 mm
Max. Profile Height	195 mm	Machine Width	4100 mm
Min. Profile Height	35 mm	Machine Weight	2100 kg
Max. Profile Width	120 mm	Gasket Press Min. Welding Size	520 mm x 570 mm
		(With Gasket Press System)	

*Photos are for example purposes only

GENERAL FEATURES

90° welding of PVC Profiles with high precision on all four corners at the same time

All axes of our machine move with Servo motor system (3 Servo motors)

0.2 and 2 mm. Internally designed construction that enables automatic welding range selection

Strong Body

High performance industrial PC with 21" touch screen, equipped with Windows XP embedded operating system

Ability to transfer data via wireless network connection, wired network connection or USB

Ability to create a knowledge base from individual source parameters for all profiles in the enterprise

Temperature, melting and joining time that can be defined separately for each profile

Depending on the torque values of the servo motors, melting long dimensions up to 2 mm and bringing them to the desired size

Fast and easy Teflon replacement with the coiled Teflon changing system.

Welding die system that can be changed quickly and easily.

(OPTIONAL)

INDUSTRIAL LABEL PRINTER

Working effectively under appropriate pressure with pressure control system. It can weld with the same precision on colored profiles as it is on white profiles.

Maintenance time is at minimum level with the lubrication system. Fully safe machine design with safety equipment in compliance with CE norms.

High stability and accuracy data transfer by connecting CNC Corner Cleaning Machine with industrial Ethernet connection method.

Being able to see all error messages and system status on the screen with the HMI program.

Providing service with remote connection method and problem detection and solution by connecting to the entire automation system.

Barcode Scanner is offered as standard.

OPTIONAL FEATURES

Gasket Pressure System
Welding patterns



Industrial PC



Ergonomic Design



Barcode



Breaking Test

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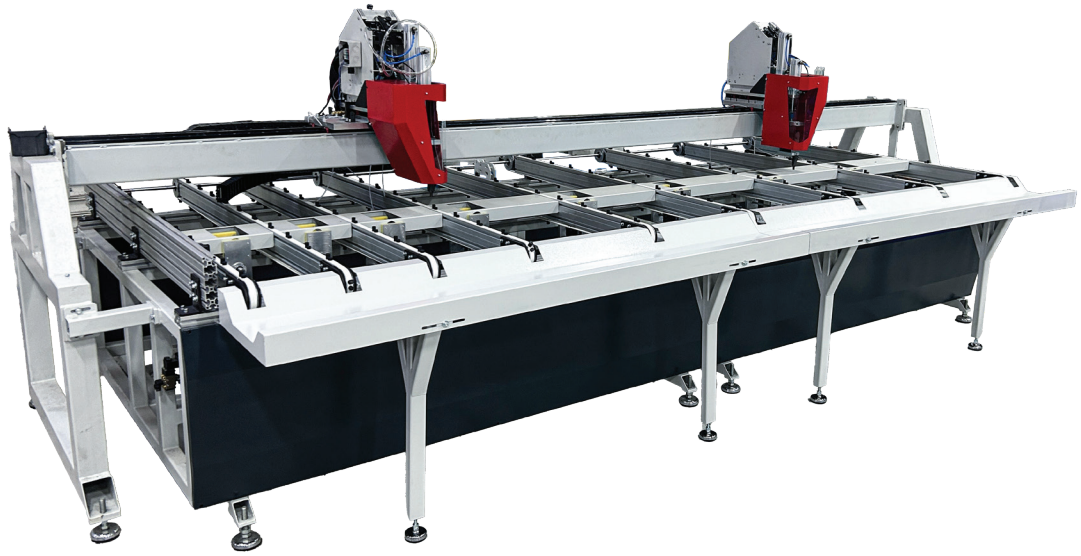
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INTELLIGENT MACHINES

DV 450

Automatic Double Head
Reinforcement Steel
Screwing Machine

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DV 450

Automatic Double Head Reinforcement Steel Screwing Machine

Intel Makina's Automatic screwing of the steel reinforcement bars in the PVC profiles. Profile loading conveyor with 4 profile loading capacity automatically conveys the profiles to the screwing center. Servo-controlled double-head screwing units automatically screw the reinforcement steel to the PVC profile according to the program made on the control panel.

The two-head screwing unit can also be operated as a single head if desired. The machine automatically measures the profile length and performs the screwing operation at the desired pitch. There is also an automatic profile unloading and storage system at the machine.

TECHNICAL DETAILS

Min. Profile Length	350 mm	Machine Height	1900 mm
Max. Profile Length	4600 mm	Machine Weight	1500 kg
Min. Profile Height	30 mm	Total kW	5 kW
Max. Profile Height	180 mm	Air Consumption	200 lt/min
Min. Profile Width	40 mm	Air Pressure	6-8 bar
Max.. Profile Width	140 mm	Drillers Speed	3000 rpm
Machine Lenght	5700 mm	Voltage	380-400 V
Machine Width	4000 mm		

*Photos are for example purposes only

GENERAL FEATURES

Automatic conveying of PVC profiles to the screwing section

Machine measure the length of the profile automatically and determine the number of the screw

Automatic centering of PVC profiles at the screwing section

2 pcs. of servo controlled screwing heads perform the screwing operation as per the program that is made by the operator

Output conveyor and profile storage, which automatically discharges profiles when screwing is completed

Separately positioned and easily reachable PLC controlled screw feeding units ensure non-stop screwing operations

Automatic stop when screwing operation is completed

Long-lasting working with chin rest system

Seamless screwing by the screw feeders positioned independently of screwing heads

Screwing speed: 2.5-3 sec./pc approx. for single head

Automatic conveying of PVC profiles to the screwing area

Automatic profile length detection and calculation of required quantity of screws

Automatic centering of PVC profiles at the screwing section

2 servo controlled screwing heads to perform screwing operations as per the program

Outfeed magazine which automatically discharges profiles when screwing is completed

Separately positioned and easily accessible PLC controlled screw feeding units to ensure non-stop screwing operations

Automatic stop when screwing operation is completed

Screwing speed: 2.5-3 sec./pc approx. for single head

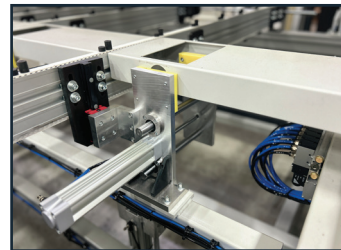
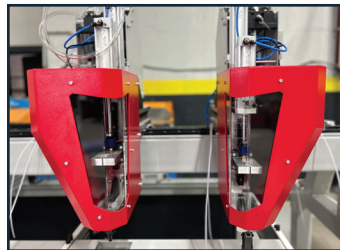
Technical support and trouble shooting via remote connection

All error messages and system status information are displayed on the screen

Axis motion system is consisting of linear bearings and rack-pinion drive that provides accuracy and durability

Ergonomic design and robust construction

Max. recommended steel thickness: 2.0 mm



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INTELLIGENT MACHINES

CAPELLA CC200

CNC PVC Profile Corner
Cleaning Machine

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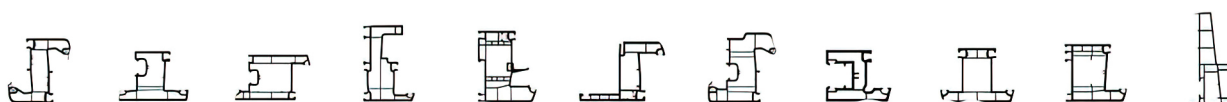
CAPELLA CC200

CNC PVC Profile Corner Cleaning Machine

Designed to clean the corners of PVC profiles from welding seals. Intel Makina's CNC PVC Profile Corner Cleaning Machine are the only machines in this regard due to their durability and reliability features. It is ideal for corner cleaning PVC profiles of different thicknesses. These latest generation machines make a significant contribution to the production line phases thanks to their extremely clear and easy use in the cleaning process. All Cleaning operations on PVC profiles are gathered in one machine controlled by a computer.

TECHNICAL DETAILS

Power Supply	380-400 V, 3 ph, 50-60 Hz	Maximum Workable Profile Height	200 mm
Power Consumption	7 kw	Minimum Workable Profile Height	40 mm
Saw Blade Speed	2800 rpm	Maximum Workable Profile Width	130 mm
Drillers Speed	18000 rpm	Saw Outside Diameter	Ø250 mm
Air Consumption	102 lt/min.	Saw Inside Diameter	Ø30 mm
Air Pressure	6-8 bar	Saw Thickness	4-4,3 mm
Daily Product	200-240 (8 hours)	Machine Height	2000 mm
Saw Speed	3000 rpm	Machine Width	2850 mm
Machine Weight	1054 kg	Machine Length	2250 mm



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GENERAL FEATURES

High speed precision control system with 2-axis servo motors.

High performance industrial PC with 21,5" touch screen, equipped with Windows XP embedded operating system.

Easy programming from DXF

Ability to define and recognize different profile heights.

Surface cleaning tool selection feature according to colored or white profiles.

Allow remote connection and control access via network connection.

Industrial PC based control panel unit

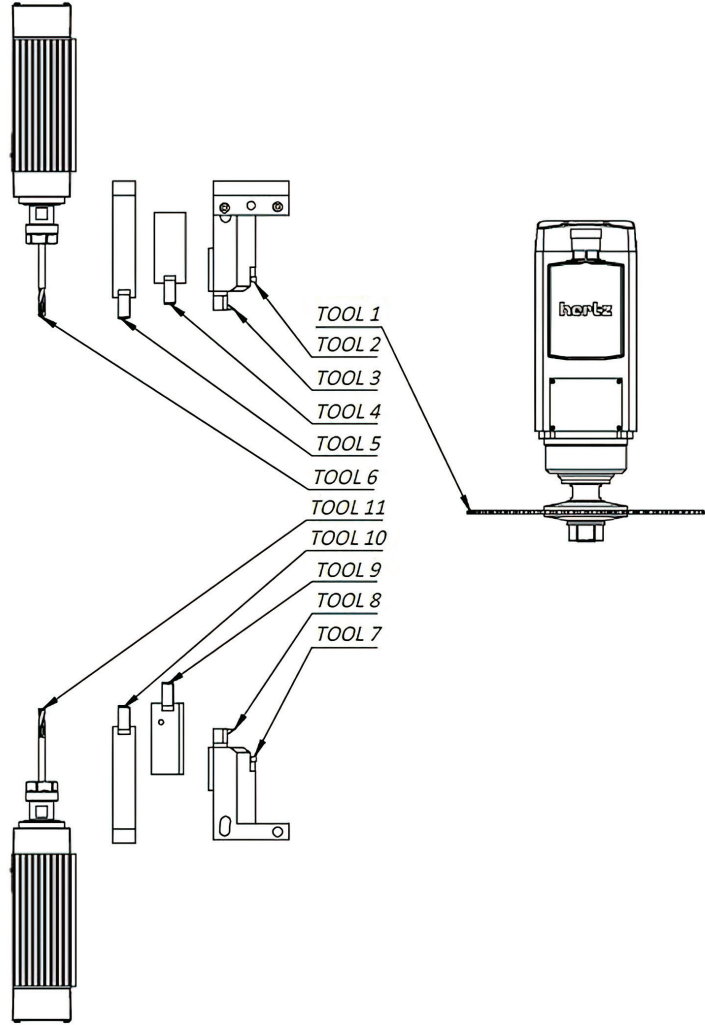
Easy file transfer with USB

Automatic Lubrication System

It has the ability to define and process files in dxf and dwg formats created in cad programs with windows-based PC operating system.

Maximum 200 mm. minimum 40 mm. profile processing range.

Ability to operate with 11 tools.

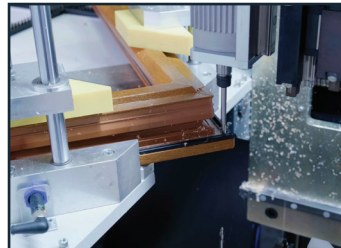
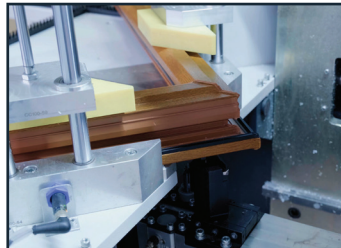


OPTIONAL FEATURES

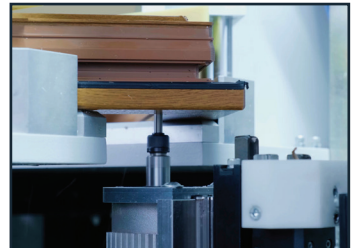
Optionally, it can be connected to a 2-axis robotic turning station and can be adapted to a 4-corner welding machine.



Industrial PC



Precision Cleaning



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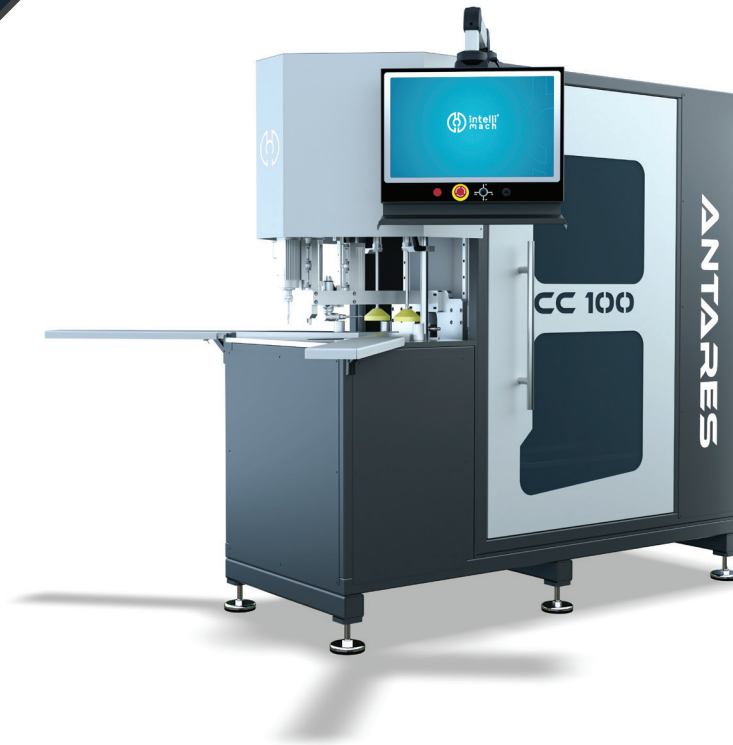
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INTELLIGENT MACHINES

ANTARES CC100

CNC PVC Profile Corner
Cleaning Machine

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ANTARES CC100

CNC PVC Profile Corner Cleaning Machine

Designed to clean the corners of PVC profiles from welding seals, Intel Makina's CNC PVC Profile Corner Cleaning Machine are the only machines in this regard due to their durability and reliability features. It is ideal for Corner Cleaning PVC profiles of different thicknesses. These latest generation machines make a significant contribution to the production line phases thanks to their extremely clear and easy use in the cleaning process. All Cleaning operations on PVC profiles are gathered in one machine controlled by a computer.

TECHNICAL DETAILS

Power Supply	380-400 V, 3 ph, 50-60 Hz	Maximum Workable Profile Height	200 mm
Power Consumption	7 kw	Minimum Workable Profile Height	40 mm
Saw Blade Speed	2800 rpm	Maximum Workable Profile Width	130 mm
Drillers Speed	14000 rpm	Saw Outside Diameter	Ø250 mm
Air Consumption	102 lt/min.	Saw Inside Diameter	Ø30 mm
Air Pressure	6-8 bar	Saw Thickness	4-4,3 mm
Daily Product	200-240 (8 hours)	Machine Height	2150 mm
Saw Speed	3000 rpm	Machine Width	2560 mm
Machine Weight	1000 kg	Machine Length	2200 mm



*Photos are for example purposes only

GENERAL FEATURES

High speed precision control system with 2-axis servo motors.

High performance industrial PC with 15" touch screen, equipped with Windows XP embedded operating system.

Easy programming from DXF

Ability to define and recognize different profile heights.

Surface cleaning tool selection feature according to colored or white profiles.

Allow remote connection and control access via network connection.

Industrial PC based control panel unit

Easy file transfer with USB

Automatic Lubrication System

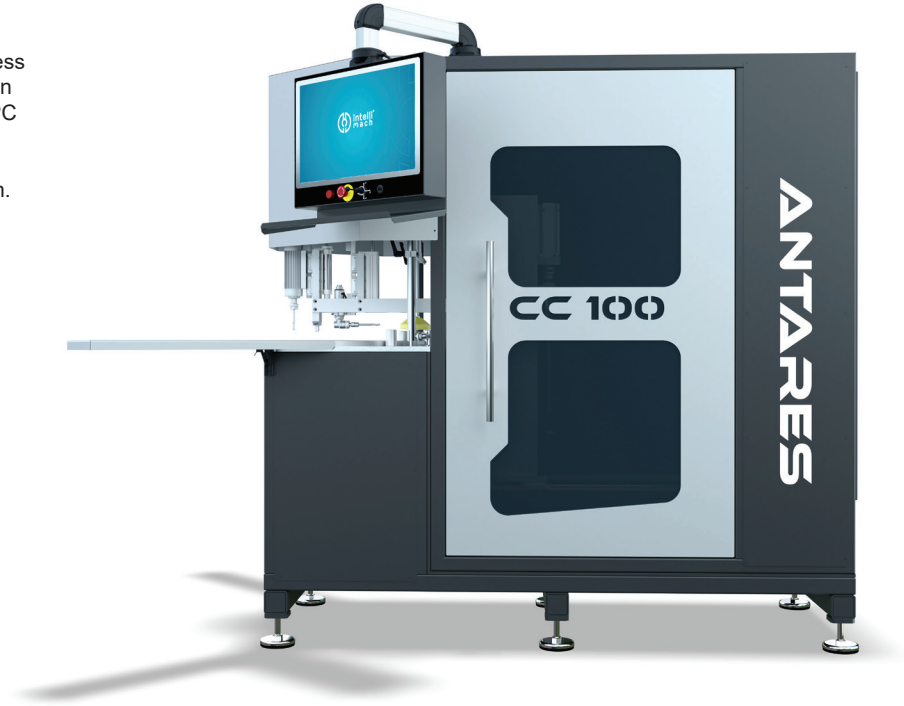
It has the ability to define and process files in dxf and dwg formats created in cad programs with windows-based PC operating system.

Maximum 200 mm. minimum 40 mm. profile processing range.

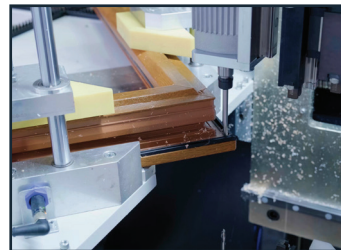
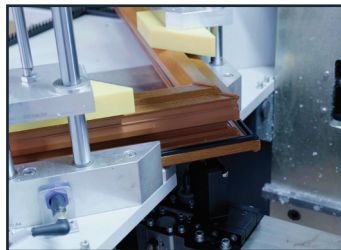
Ability to operate with 11 tools.

OPTIONAL FEATURES

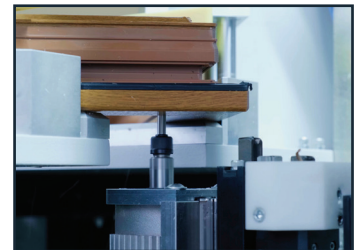
Optionally, it can be connected to a 2-axis robotic turning station and can be adapted to a 4-corner welding machine.



Industrial PC



Precision Cleaning



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İNTELLİGENT MACHINES

CKF 600S

Double Head Mitre Saw
Servo Angled

www.intelmakina.com



CKF 600S

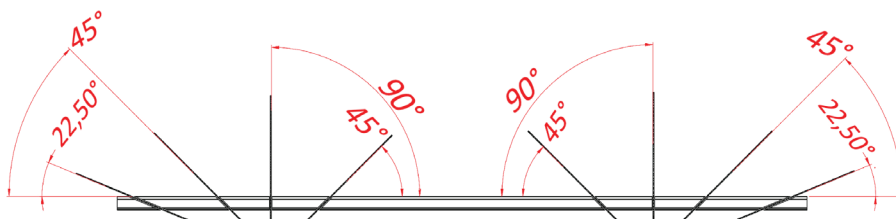
Double Head Mitre Saw Servo Angled

Intel Makina's two-head cutting machines are the only machines in this regard due to their durability and reliability features. It is ideal for cutting aluminum and PVC billets of different thicknesses and angles. These latest generation machines make a significant contribution to the production line phases thanks to their extremely clear and easy use in the cutting process.

It is an automatic double-head cutting machine with right head movement thanks to the servo motor. Equipped with barcode printer to easily identify and match orders with production.

TECHNICAL DETAILS

Electric Values	380-400V, 3ph, 50-60 Hz	Max. Profile Length It Can Cut 90°-45°	4300 mm
Total kW Value	10 Kw	Max. Profile Length It Can Cut (Long Cutting Mode)	8000 mm
Motor Power	6 kW	Minimum Profile Length It Can Cut 90°	400 mm
Air Consumption	200 lt/min	Minimum Profile Length It Can Cut 45°	550 mm
Air Pressure	6-8 Bar	Saw Outside Diameter	Ø600 mm
Machine Height	1700 mm	Saw Inside Diameter	Ø30 mm
Machine Length	7100 mm	Saw Thickness	4 mm
Machine Width	1900 mm	Number of Saw Teeth	120-132
Machine Weight	1500 kg	Number of Saws Used	2
Saw Speed	3000 rpm		



*Photos are for example purposes only

CONTROL

CKF 600-S is a fully automatic machine designed to cut large size PVC and aluminum profiles, straight or angled with a double head Ø 600 mm saw

2x Ø600 mm saw conveyor &
2 x pneumatic profile support unit

Spray saw cooling system

Barcode printer

2x vertical vise

4x horizontal vise

Air gun

TILT ANGLE OF MOVING HEADS

Two-hand operation safety Cutting between 45° inwards and 22.5° outwards

Hydro-pneumatically controlled saw movement

Cutting accuracy +/- 0.2 mm 2 x pneumatic profile support

Windows based industrial PC and 15" touch color panel display

Cut list transfer in 'mdb' and 'csv' format via USB memory and network

Possibility of remote connection and technical support

Automatic slicing feature

Angle settings of the cutting heads are by servo control system

Position adjustment of the moving head is by servo control system

(OPTIONAL)

INDUSTRIAL LABEL PRINTER

The industrial label printer allows to recognize each cut profile according to its characteristics found in the cutting list.

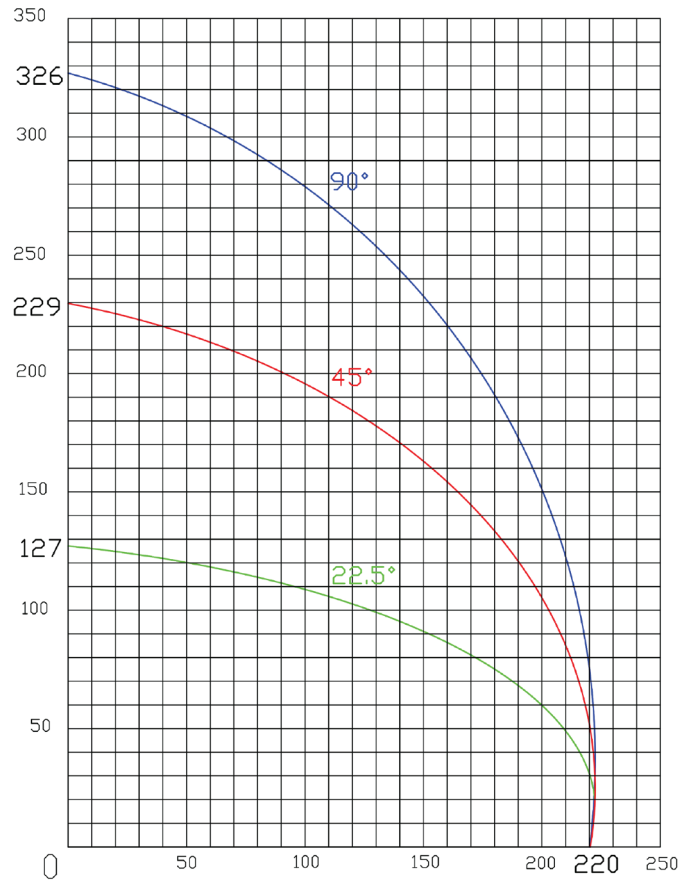
In addition, writing code on them makes it extremely convenient to easily find the order ID of each profile and especially for subsequent transactions.

(OPTIONAL)

INTERMEDIATE SUPPORT

Pneumatic intermediate support turns out to be extremely useful when a light and longer than normal profile is to be cut.

In such a situation, pneumatic support automatically creates the ideal situation required to hold the profile.



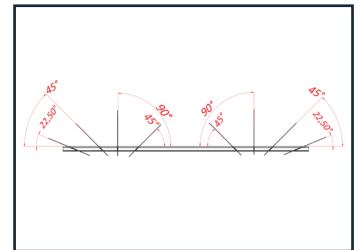
Touch Screen



Barcode



Intermediate Support



Tilt Angle of Moving Heads Servo Control

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INTELLIGENT MACHINES

CKF 600P

Double Head Mitre Saw
Pneumatic Control/Angles

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CKF 600P

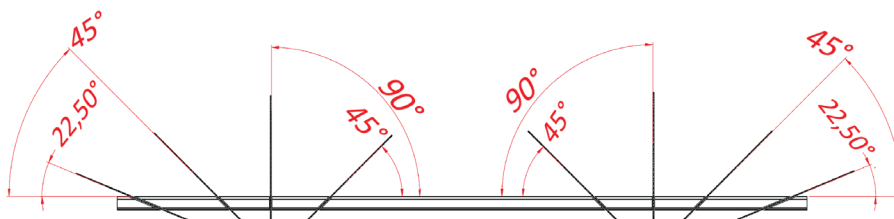
Double Head Mitre Saw Pneumatic Control/Angles

Intel Makina's two-head cutting machines are the only machines in this regard due to their durability and reliability features. It is ideal for cutting aluminum and PVC billets of different thicknesses and angles. These latest generation machines make a significant contribution to the production line phases thanks to their extremely clear and easy use in the cutting process.

It is an automatic double-head cutting machine with right head movement thanks to the servo motor. Equipped with barcode printer to easily identify and match orders with production.

TECHNICAL DETAILS

Electric Values	380-400V, 3ph, 50-60 Hz	Max. Profile Length It Can Cut 90°-45°	4300 mm
Total kW Value	9 Kw	Max. Profile Length It Can Cut (Long Cutting Mode)	8000 mm
Motor Power	6 kW	Minimum Profile Length It Can Cut 90°	400 mm
Air Consumption	250 lt/min	Minimum Profile Length It Can Cut 45°	550 mm
Air Pressure	6-8 Bar	Saw Outside Diameter	Ø600 mm
Machine Height	1700 mm	Saw Inside Diameter	Ø30 mm
Machine Length	7100 mm	Saw Thickness	4 mm
Machine Width	1900 mm	Number of Saw Teeth	120-132
Machine Weight	1500 kg	Number of Saws Used	2
Saw Speed	3000 rpm		



*Photos are for example purposes only

CONTROL

CKF 600-S is a fully automatic machine designed to cut large size PVC and aluminum profiles, straight or angled with a double head Ø 600 mm saw

2x Ø600 mm saw conveyor &
2 x pneumatic profile support unit

Spray saw cooling system

Barcode printer

2x vertical vise

4x horizontal vise

Air gun

TILT ANGLE OF MOVING HEADS

Two-hand operation safety Cutting between 45° inwards and 22.5° outwards

Hydro-pneumatically controlled saw movement

Cutting accuracy +/- 0.2 mm 2 x pneumatic profile support

Windows based industrial PC and 15" touch color panel display

Cut list transfer in 'mdb' and 'csv' format via USB memory and network

Possibility of remote connection and technical support

Automatic slicing feature

Angle settings of the cutting heads are by pneumatic system

Position adjustment of the moving head is by servo control system

(OPTIONAL)

INDUSTRIAL LABEL PRINTER

The **industrial label printer** allows to recognize each cut profile according to its characteristics found in the cutting list.

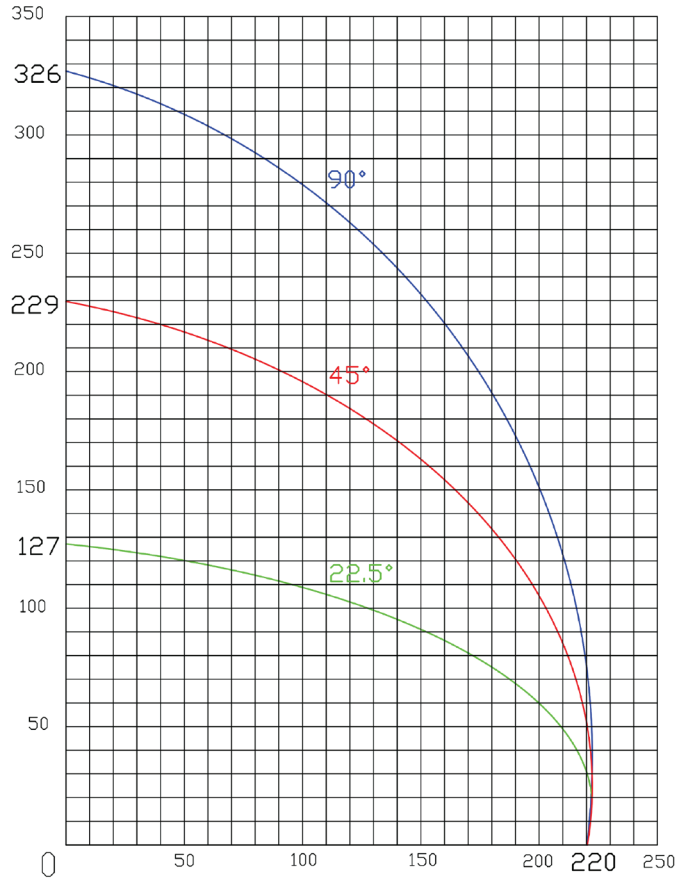
In addition, writing code on them makes it extremely convenient to easily find the order ID of each profile and especially for subsequent transactions.

(OPTIONAL)

INTERMEDIATE SUPPORT

Pneumatic intermediate support turns out to be extremely useful when a light and longer than normal profile is to be cut.

In such a situation, pneumatic support automatically creates the ideal situation required to hold the profile.



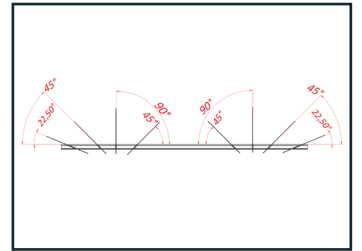
Touch Screen



Barcode



Intermediate Support



Tilt Angle of Moving Heads Pneumatic Control

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INTELLIGENT MACHINES

CKF 550

Double Head Cutting Machine
45/90 Automatic /
Intermediate Degree

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CKF 550

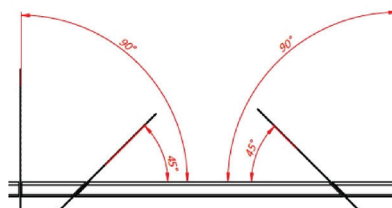
Double Head Cutting Machine
45/90 Automatic/Intermediate Degree

Intel Makina's two-head cutting machines are the only machines in this regard due to their durability and reliability features. It is ideal for cutting aluminum and PVC billets of different thicknesses and angles. These latest generation machines make a significant contribution to the production line phases thanks to their extremely clear and easy use in the cutting process.

It is an automatic double-head cutting machine with right head movement thanks to the servo motor. Equipped with barcode printer to easily identify and match orders with production.

TECHNICAL DETAILS

Electric Values	380-400V, 3ph, 50-60 Hz	Max. Profile Length It Can Cut 90°-45°	4400 mm
Total kW Value	9 Kw	Max. Profile Length It Can Cut (Long Cutting Mode)	8000 mm
Motor Power	6 kW	Minimum Profile Length It Can Cut 90°	400 mm
Air Consumption	250 lt/min	Minimum Profile Length It Can Cut 45°	550 mm
Air Pressure	6-8 Bar	Saw Outside Diameter	Ø550 mm
Machine Height	2010 mm	Saw Inside Diameter	Ø30 mm
Machine Length	5900 mm	Saw Thickness	4 mm
Machine Width	1700 mm	Number of Saw Teeth	120-132
Machine Weight	1600 kg	Number of Saws Used	2
Saw Speed	3000 rpm		



*Photos are for example purposes only

CONTROL

PVC and aluminum profile cutting

Strong construction for length and angle precision

Precise cutting quality

The saw heads automatically rotate to 45° and 90°

Saw diameter of 550 mm.

Adjustable saw feed speed

Maximum 4,400 mm. Profile cutting feature

The profile support conveyor on the moving head keeps the material being worked in balance

Ease of use with ergonomic design

Automatically closing protective covers increase occupational and worker safety

Horizontal and vertical pneumatic compression pistons fix the profile optimally

Cooling system for aluminum profile cutting

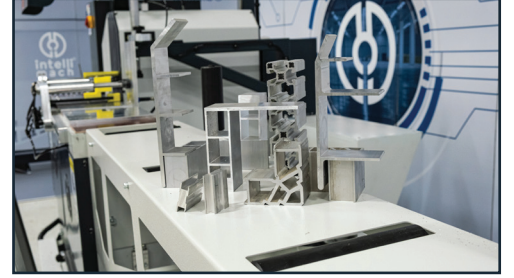
Hydro-pneumatic system for aluminum profile cutting.

(OPTIONAL)

INDUSTRIAL LABEL PRINTER

The industrial label printer allows to recognize each cut profile according to its characteristics found in the cutting list.

In addition, writing code on them makes it extremely convenient to easily find the order ID of each profile and especially for subsequent transactions.

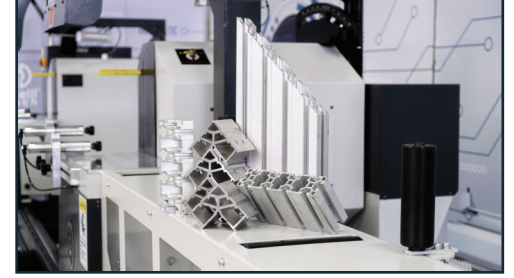


(OPTIONAL)

INTERMEDIATE SUPPORT

Pneumatic intermediate support turns out to be extremely useful when a light and longer than normal profile is to be cut.

In such a situation, pneumatic support automatically creates the ideal situation required to hold the profile.



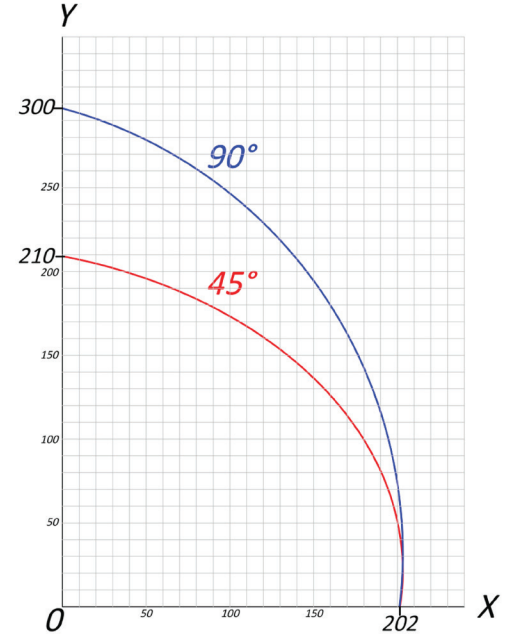
TILT ANGLE OF MOVING HEADS

The movement of the heads around the axle is provided by servo control.

The external angles that can be achieved for machines equipped with 550 mm diameter blades are from 90° to 45°

Intermediate angles are servo controlled

Manufactured in CE norms



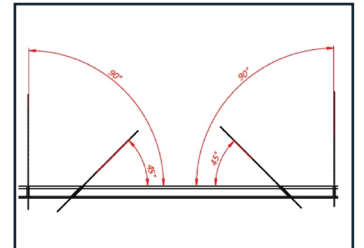
Touch Screen



Barcode



Intermediate Support



Tilt Angle of Moving Heads Servo Control

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INTELLIGENT MACHINES

SC 500

Automatic
Sawing Machine

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SC 500

Automatic Sawing Machine

Intel Makina's two-head cutting machines are the only machines in this regard due to their durability and reliability features. It is ideal for cutting aluminum and Aluminium billets of different thicknesses and angles. These latest generation machines make a significant contribution to the production

SC 500 is designed for the strait cutting operations of the large size of profiles made of PVC and aluminium by means of Ø500 mm of saw blade at 90°. It is ideal for the serial and precise slicing and vertical drilling operations.

TECHNICAL DETAILS

Electric Values	380-400V, 3ph, 50-60 Hz	Max. Profile Length It Can Cut (Long Cutting Mode)	8000 mm
Total kW Value	6 Kw	Minimum Profile Length It Can Cut 90°	400 mm
Motor Power	5.5 kW	Saw Outside Diameter	Ø500 mm
Air Consumption	20 lt/min	Saw Inside Diameter	Ø30 mm
Air Pressure	6-8 Bar	Saw Thickness	4 mm
Machine Height	1950 mm	Number of Saw Teeth	120-132
Machine Length	5000 mm	Number of Saws Used	1
Machine Width	1250 mm	Saw Speed	3000 rpm
Machine Weight	675 kg		

*Photos are for example purposes only

GENERAL FEATURES

Suitable for high-volume slicing of aluminium profiles for window manufacturing and industrial applications

High precision servo/synchronous motors and internationally recognized components

Saving of time by means of servo-controlled workpiece infeed speed.

Horizontal and vertical clamping of the workpiece during the sawing operation

Automatic table retraction feature protects the surface of the workpiece against the scratches arising during the saw blade downward motion

High cutting accuracy by means of the robust mechanical structure

Single or multi-bar (packed) cutting features spray saw blade lubrication system

Large memory capacity for the cutting programs

The machine shut down automatically after reaching the requested quantity!

Pneumatically opening safety guard

7" LCD color touch screen!

Remote connection via internet and providing technical support!

Feeding distance per cycle (5 – 1000 mm). No limit for max. dimension.

Minimum cutting length: 5 mm and unlimited for the maximum cutting length / max. clamping capacity: Height, H 5 mm – H 170 mm / Width W 5mm – W 370 mm
Servo controlled

STANDART ACCESSORIES

2.5 meter of infeed roller conveyor

Equipped with saw blade Ø 500 mm

Spray saw blade lubrication system

Air gun

3x horizontal clamps

3x vertical clamps

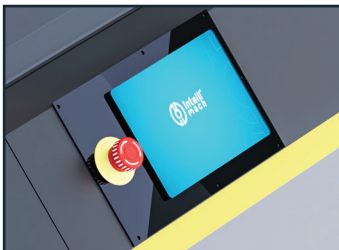
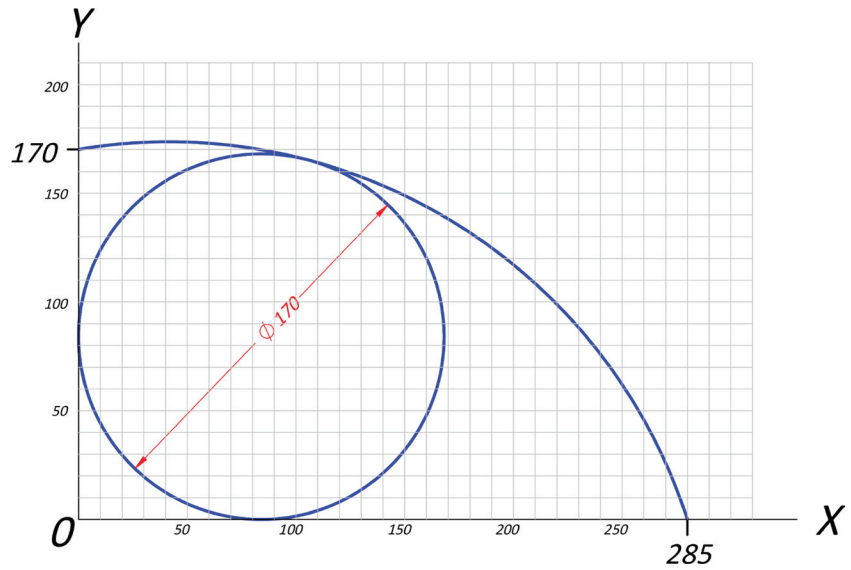
OPTIONAL ACCESSORIES

Spare saw blade with Ø 500 mm

VCE 1570 chip vacuum extractor

2.5 meter of outfeed conveyor

Extending kit for 5 meter of infeed roller conveyor



Touch Screen



Saw Ø500 mm



Roller Conveyor



Saw Output Adjustment

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INTELLIGENT MACHINES

SC 500D

Automatic Slicing Machine
With Drilling Unit

www.intelmakina.com



SC 500D

Automatic Slicing Machine With Drilling Unit

Intel Makina's two-head cutting machines are the only machines in this regard due to their durability and reliability features. It is ideal for cutting aluminum and Aluminium billets of different thicknesses and angles. These latest generation machines make a significant contribution to the production.

SC 500 D is designed for the strait cutting operations of the large size of profiles made of PVC and aluminium by means of Ø500 mm of saw blade at 90°. It is ideal for the serial and precise slicing and vertical drilling operations.

TECHNICAL DETAILS

Electric Values	380-400V, 3ph, 50-60 Hz	Max. Profile Length It Can Cut (Long Cutting Mode)	8000 mm
Total kW Value	7 Kw	Minimum Profile Length It Can Cut 90°	400 mm
Motor Power	6 kW	Saw Outside Diameter	Ø500 mm
Air Consumption	20 lt/min	Saw Inside Diameter	Ø30 mm
Air Pressure	6-8 Bar	Saw Thickness	4 mm
Machine Height	1950 mm	Number of Saw Teeth	120-132
Machine Length	5000 mm	Number of Saws Used	1
Machine Width	1250 mm	Saw Speed	3000 rpm
Machine Weight	675 kg	Drillers Speed	18000 rpm

*Photos are for example purposes only

GENERAL FEATURES

Suitable for high-volume slicing of aluminium profiles for window manufacturing and industrial applications

High precision servo/synchronous motors and internationally recognized components

Saving of time by means of servo-controlled workpiece infeed speed.

Horizontal and vertical clamping of the workpiece during the sawing operation

Automatic table retraction feature protects the surface of the workpiece against the scratches arising during the saw blade downward motion

High cutting accuracy by means of the robust mechanical structure

Single or multi-bar (packed) cutting features spray saw blade lubrication system

Large memory capacity for the cutting programs

The machine shut down automatically after reaching the requested quantity!

Pneumatically opening safety guard

7" LCD color touch screen!

Remote connection via internet and providing technical support!

Feeding distance per cycle (5 – 1000 mm). No limit for max. dimension

Minimum cutting length: 5 mm and unlimited for the maximum cutting length / max. clamping capacity: Height, H 5 mm – H 170 mm / Width W 5 mm – W 370 mm Servo controlled

Drilling unit is possible with SC 500 D model

STANDART ACCESSORIES

2.5 meter of infeed roller conveyor

Equipped with saw blade Ø 500 mm

Spray saw blade lubrication system

Air gun

3x horizontal clamps

3x vertical clamps

OPTIONAL ACCESSORIES

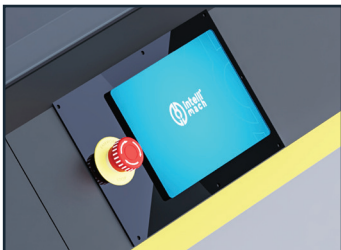
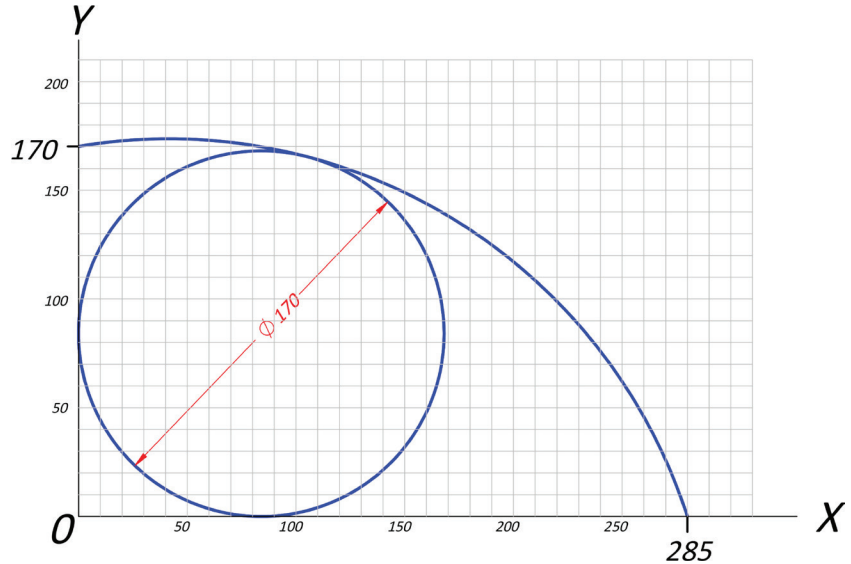
Spare saw blade with Ø 500 mm

VCE 1570 chip vacuum extractor

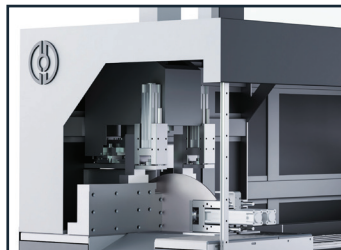
2.5 meter of outfeed conveyor

Extending kit for 5 meter of infeed roller conveyor

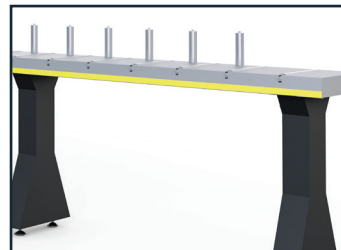
Screwing Unit SC 500 DS



Touch Screen



Drilling Unit



Roller Conveyor



Saw Output Adjustment

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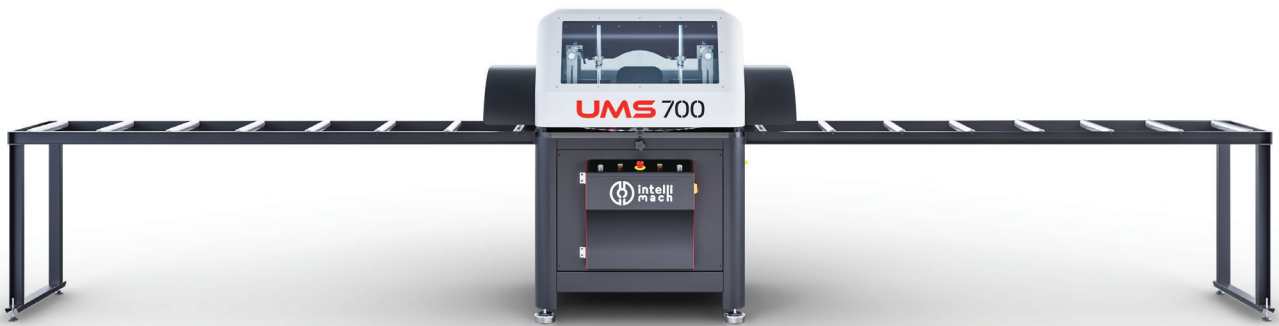
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INTELLIGENT MACHINES

UMS 700

Upcut Miter Saw

www.intelmakina.com



UMS 700

Upcut Miter Saw

Intel Makina's two-head cutting machines are the only machines in this regard due to their durability and reliability features. It is ideal for cutting aluminum and PVC billets of different thicknesses and angles. These latest generation machines make a significant contribution to the production line phases thanks to their extremely clear and easy use in the cutting process.

It is an automatic double-head cutting machine with right head movement thanks to the servo motor. Equipped with barcode printer to easily identify and match orders with production. UMS 700 is designed for the strait or angular cutting operations of the large size of profiles made of PVC and aluminium materials by means of Ø 700 mm of saw blade.

TECHNICAL DETAILS

Total kW	6 kW, 400 V	Packing Size	1720 x 1650 x 2050 mm
Motor Power	5.5 Kw, 50/60 Hz	Machine Size	7250 x 1300 x 1800 mm
Saw Dimension	D=700 mm d=38 mm	Machine Weight	850 kg
Saw Speed	3000 rpm		
Air Pressure	6-8 Bar		
Air Consumption	120 lt/min		

*Photos are for example purposes only

GENERAL FEATURES

UMS 700 is designed for the straight or angular cutting operations of the large size of profiles made of PVC and aluminium materials by means of Ø 700 mm of saw blade.

Strong machine body

Two-hands safety system

Pneumatically opening safety guard

Safety locking switches on top guard and front doors

Cutting at standard angles and any intermediate angles

More powerful chip vacuum system with one manifold

Saw blade rising speed is hydro-pneumatically adjustable

Miter lock angles at 75°, 60°, 45°, 30°, 22.5°, 15°, 0° both left and right

Pivoting range from -75° left to +75° right infinitely adjustable

STANDART ACCESSORIES

Equipped with saw blade Ø 700 mm and 4 kW motor

Spray saw blade lubrication system

Roller conveyor (3 m)

2x vertical and 2 x horizontal clamps

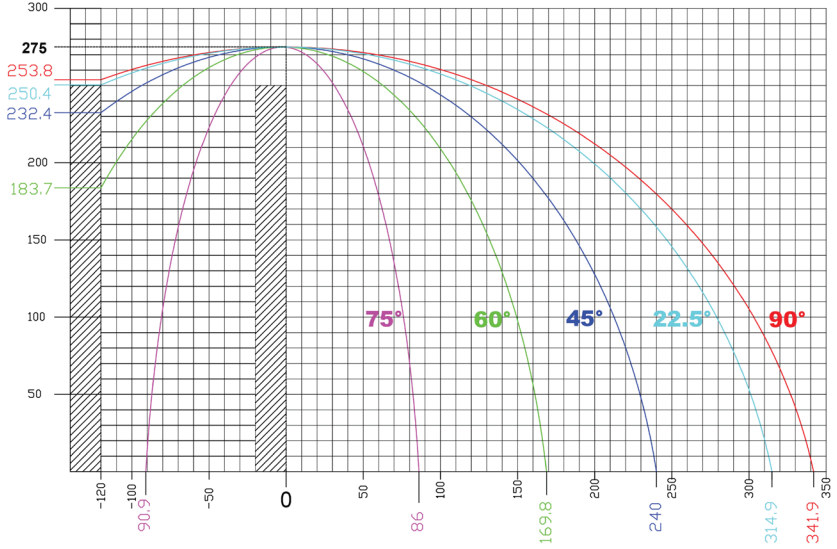
Air gun

OPTIONAL ACCESSORIES

Laser marker set to indicate the cutting line

Spare saw blade Ø 700 mm

Vacuum extractor



CONTROL

UMS 700 is designed for the straight or angular cutting operations of the large size of profiles made of PVC and aluminium materials by means of Ø 700 mm of saw blade.

Strong machine body

Two-hands safety system

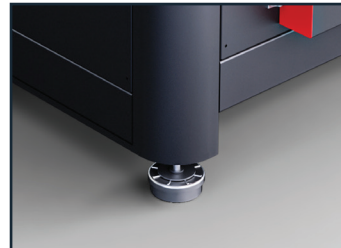
Pneumatically opening safety guard



Double Hand Control



Roller Conveyor



Rubber Vibration Feet



Manufactured in
CE Standards

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INTELLIGENT MACHINES

VCM 400

uPVC V Type Single Head
Cutting Machine

www.intelmakina.com



VCM 400

uPVC V Type Single Head Cutting Machine

Intel Makina's Single Head V Type cutting machines are the only machines in this regard due to their durability and reliability features.

It is ideal for cutting PVC profiles of different thicknesses and angles.

These latest generation machines make a significant contribution to the production line phases thanks to their extremely clear and easy use in the cutting process.

TECHNICAL DETAILS

Motor Power	2 x 1.5 kW	Power	3 kW
Profile Width	65 mm	Net Machine Weight	600 kg
Saw Diameter	2 x Ø 400	Gross Weight	650 - 700 kg
Cycle	2 x 1500 cycle/min	Sound	96 db
Cutting Angle	45°	Length	4800 mm
Pressure	6-8 6~8 bar	Width	1100 mm
Consumption	50 Lt/min	Height	1865 mm
Voltage	400 220/230/400 V		

*Photos are for example purposes only

CONTROL

V cutting and length cutting up to (a) 65 mm width of PVC profiles.

2 pieces of vertical Ø260 saw located at 45° on machine.

Double support measurement system at both sides of the machine.

DESIGN

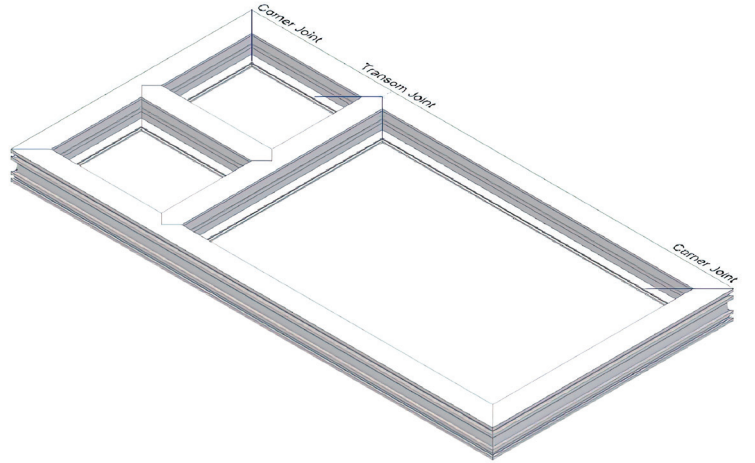
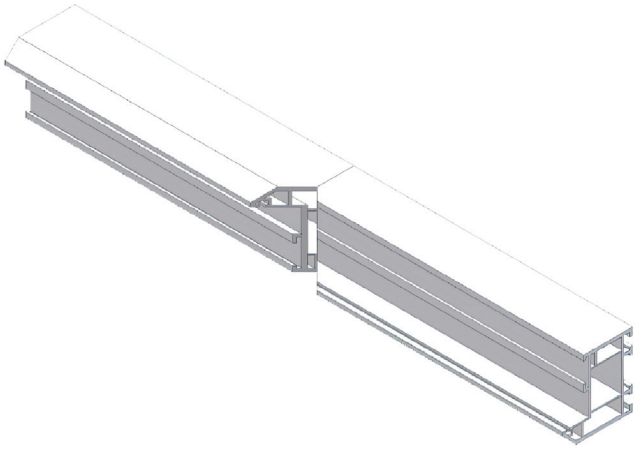
Robust mechanical design allows you to process PVC profiles with maximum quality for many years, at high speed

V cutting and length cutting up to (a) 65 mm width of PVC profiles

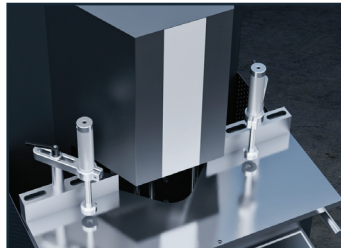
2 pieces of vertical Ø260 saw located at 45° on machine

Practical and toolless cutting depth and length adjustment

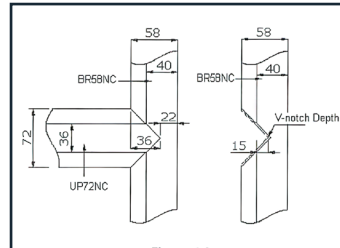
There is a profile measuring unit and a right-left feed conveyor



Adjustable saws



Ergonomic Design



Welding Type V



Optional
Digital Metrage

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INTELLIGENT MACHINES

TW 200

Aluminium Facade
Notching Machine

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TW 200

Aluminium Facade Notching Machine

Intel Makina's TW 200 Saw Notching Machine is designed and constructed for variable notching possibilities on the sash, frame, mullion and transom profile combinations for curtain-walls, winter gardens, skylights, and special design processing with the special angles at the profile and surface. The workpiece remains fixed on the working table and only the hydro-pneumatic sawing unit having 2 saw blades slides on the linear guides automatically to perform the notching operation.

TECHNICAL DETAILS

Total kW	7 kw 400 vac 3p pe 50-60 hz	Machine Length	2600 mm
Motor kW	3 kW x 2	Machine Width	1200 mm
Cycle	3000 rpm	Machine Height	1800 mm
Saw Diameter	D1 550 / D2 500 d:30	Machine Weight	1250 kg
Air Consumption	160 lt/min		
Pressure	6-8 bar		

*Photos are for example purposes only

GENERAL FEATURES

1x saw unit lower (vertical) with Ø 550 mm dia. and 1 x saw unit upper (horizontal) with Ø 500 mm dia.

Semi-Automatic sawing unit with adjustable feeding speed by hydro-check cylinder

Angle adjustment of the sawing units and miter adjustment of the profile by hand wheel with digital displays

Height adjustment of the profile support table by hand wheel with band ruler

Depth stop adjustment by hand wheel by numerical mechanical display

4x pneumatic clamps that allow the profile to be credibly attached at any angle

Cast iron and steel construction of the body that is strong and lasting.

Pneumatically operated safety cover

Two-hand safety module

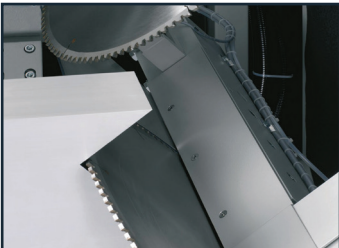
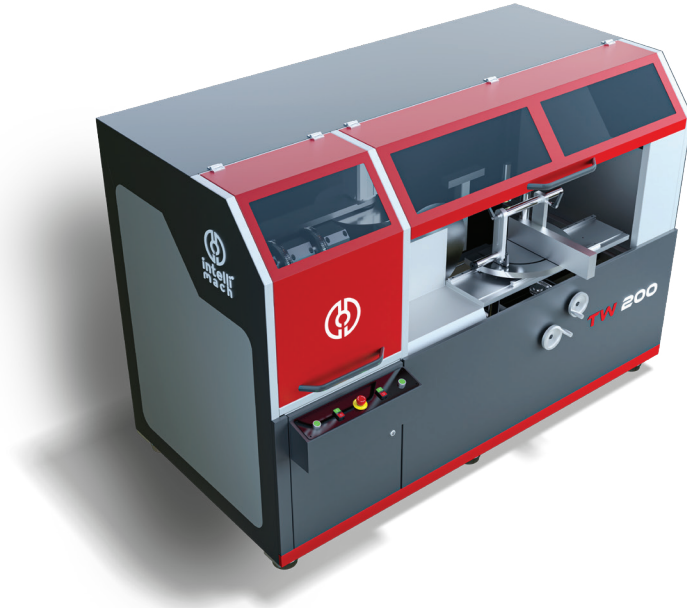
Very easy saw wear adjustment

OPTIONAL FEATURES

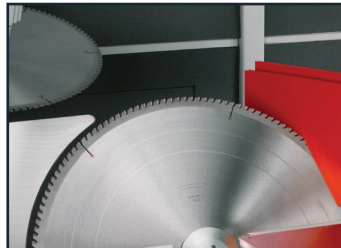
Lazer marker indicating the vertical line of the profile

Profile support arm IS1000

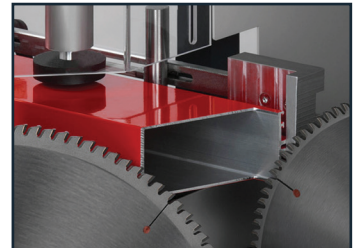
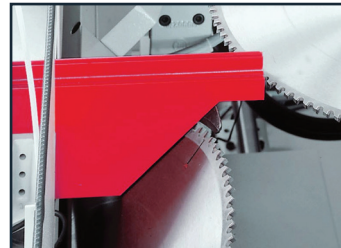
Spare saw blade, Ø 500 mm



Adjustable Angles



Adjustable Saw Angles



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İNTELLİGENT MACHINES

VW 180

uPVC V Welding Machine

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VW 180

uPVC V Welding Machine

Intel Makina's Single Head V Type Welding Machines are the only machines in this regard due to their durability and reliability features. It is ideal for Welding PVC profiles of different thicknesses and angles.

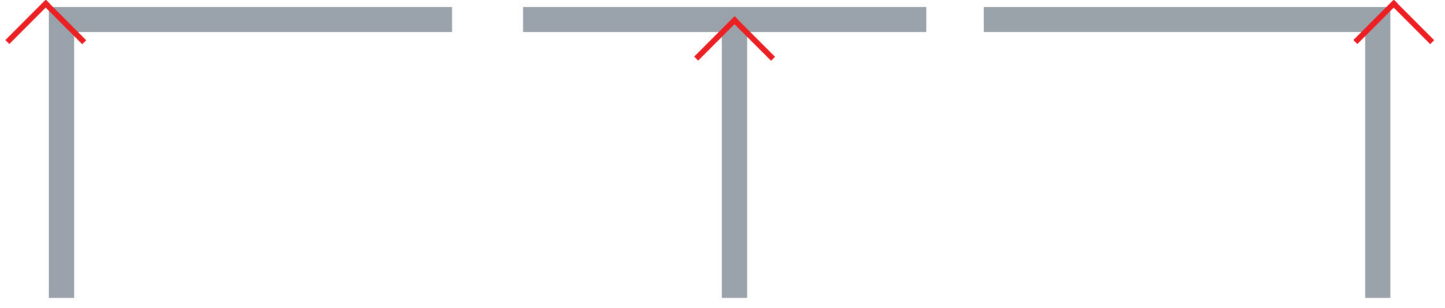
These latest generation machines make a significant contribution to the production line phases thanks to their extremely clear and easy use in the cutting process.

TECHNICAL DETAILS

Machine Height	1535 mm
Machine Weight	202 kg
Machine Length	1350 mm
Machine Width	1010 mm
Power Supply	220 V, 1 ph, 50 Hz

Total kW	2,2 kW
Air Consumption	20 lt/cycle
Air Pressure	6-8 bar
Min. Weldable Profile Height	40 mm
Max. Boostable Profile Height	180 mm

*Photos are for example purposes only



GENERAL FEATURES

PVC V Welding Machine welding operations on PVC profiles shown in "image 1"

90° welding of PVC profiles

Practical mould change system

Precision of welding quality thanks to linear rails

Normal and zero (0,2 mm) welding adjustment

Digital setting of heating values

Practical folding profile support table

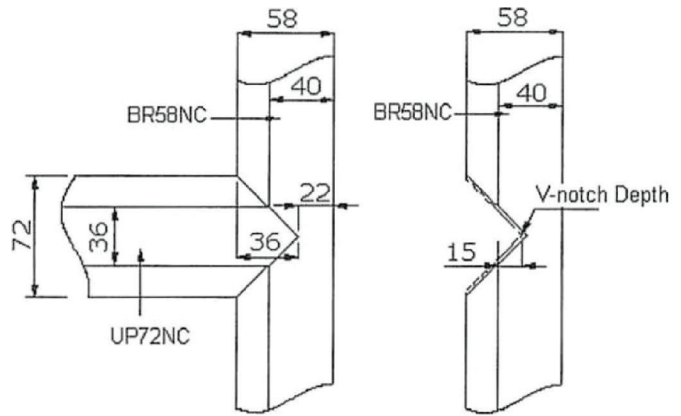
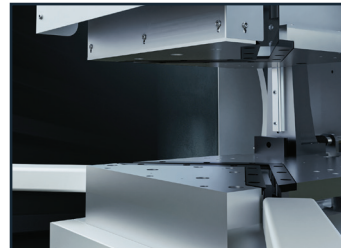
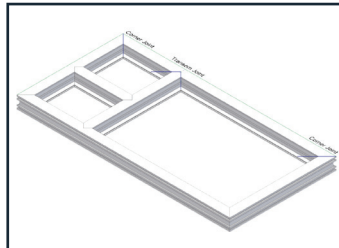
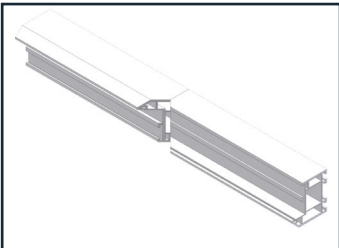


image 1



Ergonomic Design



Work Safety

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INTELLIGENT MACHINES

CP 100

Aluminium Corner
Crimping Machine

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CP 100

Aluminium Corner Crimping Machine

Intel Makina's Aluminum Corner Press Machines are the only machines in this regard due to their durability and reliability features. It is ideal for corner pressing of aluminum profiles of various thicknesses and angles.

These latest generation machines make a significant contribution to the production line phases thanks to their extremely clear and easy use in the pressing process. Thanks to Hydro Pneumatic Locking, it does not leak back during the pressing phase and also ensures that the heads reach the profile at the same time.

TECHNICAL DETAILS

Blade Pressure Force 3,5 tons / cm²

Air Pressure 6-8 bar

Air Consumption 60 lt/min.

Machine Height 1300 mm

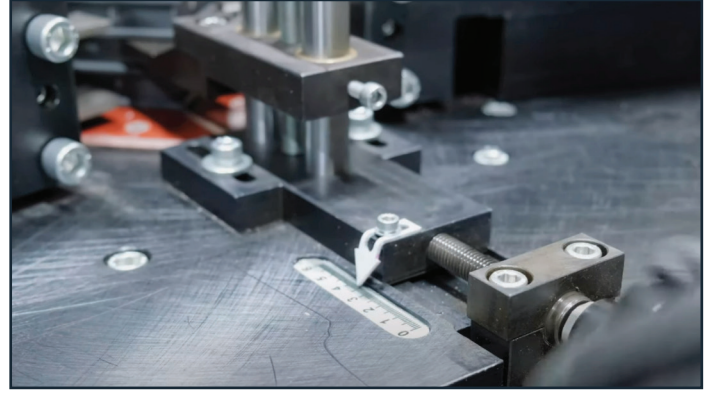
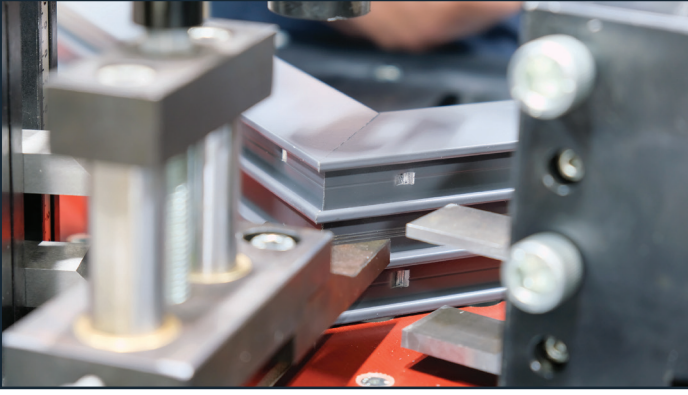
Machine Length 1100 mm

Machine Width 1450 mm

Machine Weight 410 kg

Max. Profile Height 190 mm

Max. Profile Width 190 mm



GENERAL FEATURES

Corner joining process by pressing the corners of aluminum profiles in large sizes and at high quality standards.

The machine is easy to install and operate

Thanks to the magnetic blade adjustment system, easy blade adjustment can be made.

It has the possibility to change the blades simply and quickly.

High pressing power with hydropneumatic system

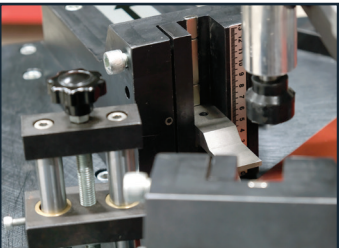
Opportunity to work according to different profile sections

Small frames can be joined thanks to the specially designed clamping unit

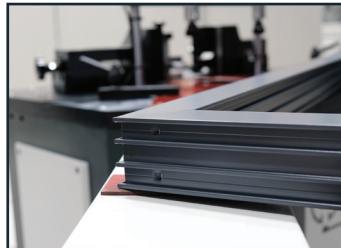
The front miter system is designed in accordance with the easy profile loading and unloading system

The pressing system is made with a step-by-step foot pedal

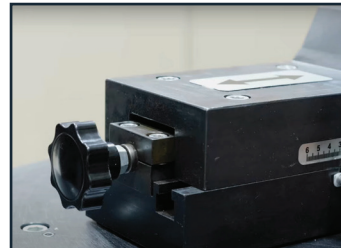
Support arms are included as standard



Magnetic Blade System



Hydro-Pneumatic Locking



Precise Adjustment System



Strong Pressing

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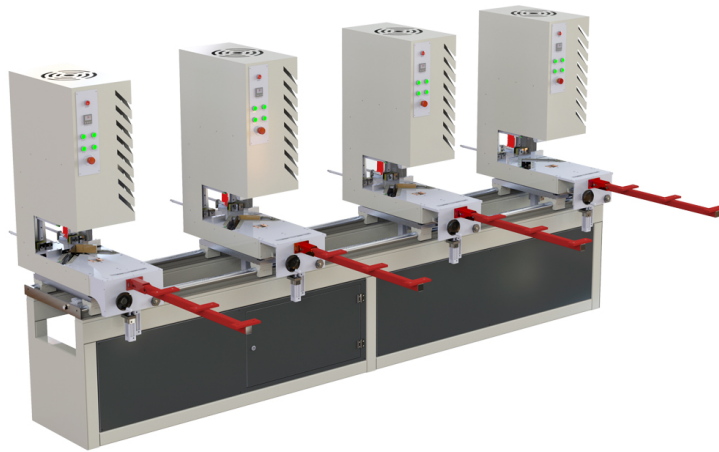
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INTELLIGENT MACHINES

FW 200

Four Head V Type
Welding Machine

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FW 200

Four Head V Type Welding Machine

Intel Makina's Four Head V Type Welding Machines are the only machines in this regard due to their durability and reliability features. It is ideal for Welding PVC profiles of different thicknesses and angles. These latest generation machines make a significant contribution to the production line phases thanks to their extremely clear and easy use in the cutting process.

TECHNICAL DETAILS

Power Supply	220-440V, 3~60 Hz	Max. Profile Width	130 mm (90°)
Power Output	9 kW, 25 A	Max. Profile Height	190 mm
Air Pressure	6-8 bar	Machine Height	2250 mm
Air Consumption	200 lt/min	Machine Length	4140 mm
Welding Angel	45°, 90° and V	Machine Width	1943 mm
Max. Welding Length	4000 mm	Machine Weight	2000 kg
Min. Welding Length	330 mm		

*Photos are for example purposes only

GENERAL FEATURES

PC controlled (PID) heat control system to sustain strong welding results in compliance with international standards

Rigid linear guideway systems to restrict the stretching and gaps

Heating temperature, melting and welding times can be adjusted individually for every profile type

Profile selecting system with revolver for 8 different sizes

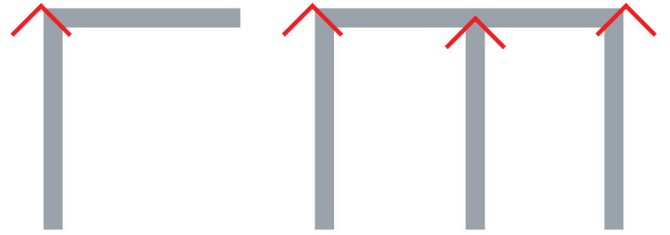
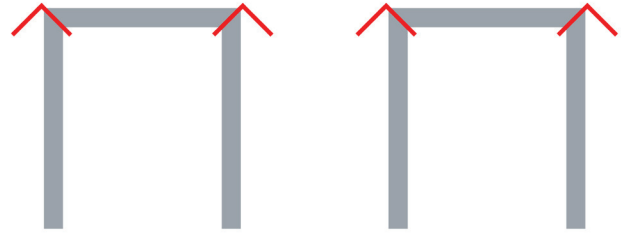
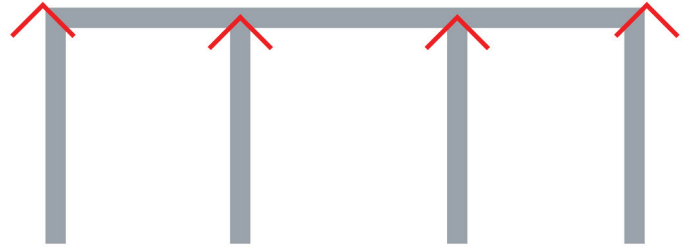
Multi head welding system which can work independently from each other

Each head can be controlled separately for transom or 90° welding

Welding moulds can be changed easily and fast

Foldable and height adjustable profile support system.

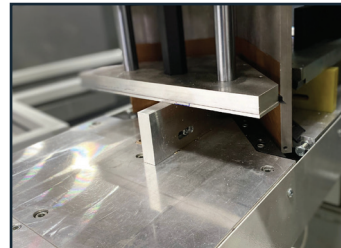
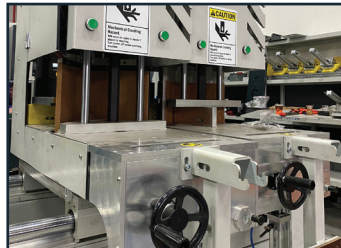
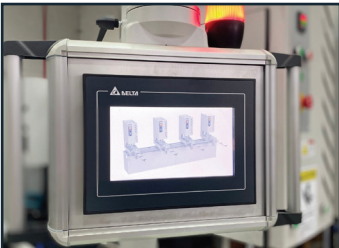
Ability to weld PVC profiles in "H" and "T" shape at 90°.



OPTIONAL FEATURES

Automatic transom alignment system.

Multi head welding machine with 3, 4 or 5 heads options.



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