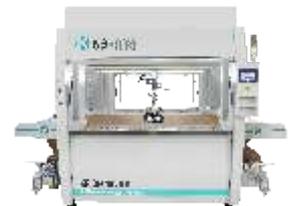


General Catalog▶
of Standard Production Machines



Innovative and modern solutions in wood painting, sanding, and drying processes.

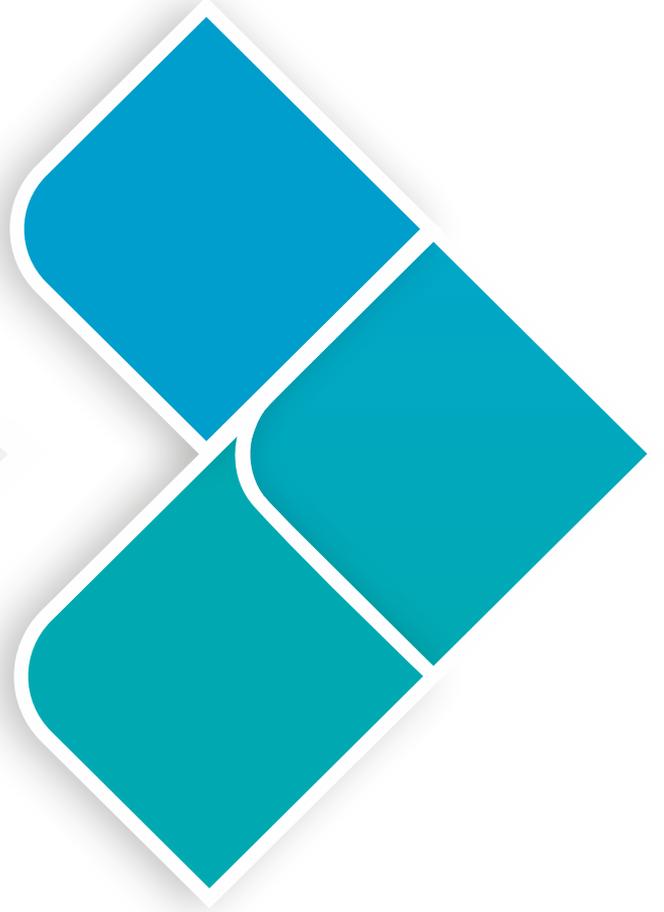
With its production of painting, sanding, and drying machines, Karabudak Makine aims to provide the best possible service to customers all around the world. Continuously improving itself day by day, Karabudak Makine has successfully established itself as a leading company in its field. Prioritizing quality and innovation at every stage of production, the company leverages its expert team and advanced machinery investments. In addition to manufacturing, Karabudak Makine also offers turnkey paint shop facilities and production automation solutions as part of its comprehensive engineering services.

Thanks to its innovative and flexible engineering structure, Karabudak Makine is capable of delivering both standard and customized painting solutions tailored to customer needs. The strong and skilled team formed by the company's shareholders and employees plays a key role in establishing Karabudak Makine as a trusted solution partner in the industry.

As of 2021, in response to increasing demand and to expand our production capacity, we have been operating in our new 14,000 m² production facility.



automatic
spray
machines



“strengthen your painting quality with **Kbotic**”



Kbotic Smart Cartesian Spraying Robot

 **PATENTED SYSTEM**



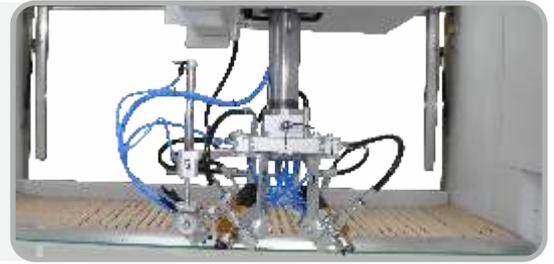
 Watch Now

Kbotic which is developed for painting 3D and panel shaped products is a new generation multi-axis painting robot that allows the edges and surface profiles of products to be painted with the same quality as their flat surfaces. Up to 2 cartesian robot arms and 10 spraying guns can be coupled to Kbotic, which can be configured according to any need through its flexible design. Kbotic, which detects the products with Image Processing Technology (kavision), monitors the painted products at the exit with a smart quality control system (SQC) and offers the ideal finishing quality to the user. Kbotic perfects the finishing quality by optimizing the painting parameters with its artificial intelligence technology.



ROBOTIC ARM

Kbotic offers a 4-axis Cartesian robot arm as standard. Up to 6 guns can be connected to the robot arm as an option.



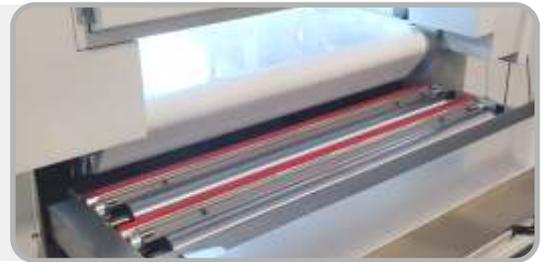
CONTROL SYSTEM

All control and image processing of the machine is provided via 15" multitech IPC. Kavision and SQS software are controlled via this IPC. Images of the parts to be painted and painted, quality results, daily production data, fault records, up to 50,000 images are stored. It allows remote management and control of data. All production data can be followed online with the optional IOT system. It can send daily production reports.



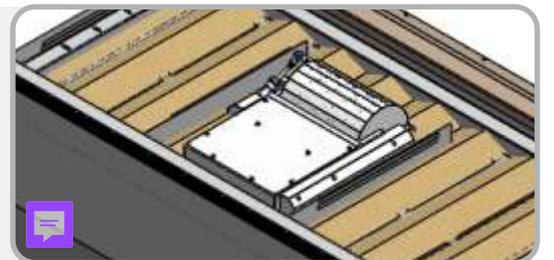
PAINT RECYCLING SYSTEM

Kbotic can be manufactured with a recyclable conveyor belt. In this way, it provides paint savings of up to 30% in mass production.



NOZZLE CLEANING BRUSH

The Kbotic Painting Robot automatically cleans the gun nozzles.



ASPIRATION AND VENTILATION SYSTEM

Kbotic offers an exhaust fan with a flow rate of 18,000 m³/s and an accordion cardboard filter as standard. In this way, overspray particles formed during the painting process are quickly removed from the environment and the cabin interior is always kept clean. In addition, 6 frequency-controlled internal ventilation fans are also included in the standard equipment. These fans work together with pressure sensors to constantly balance the cabin interior pressure and prevent dust from entering the machine from the outside. The filters used are EU5 class wax filters. Filter dirtiness is monitored with differential pressure switches; the system warns the user when the filters are dirty and have reached the end of their service life.



AUTOMATIC LUBRICATION SYSTEM

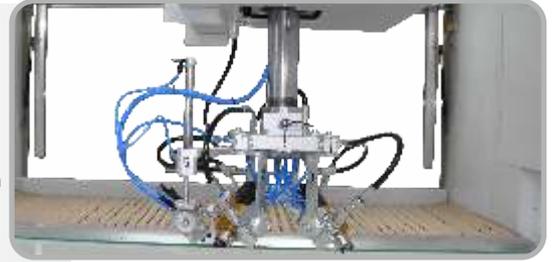
The Automatic Lubrication System, which ensures trouble-free and long-lasting operation of the system by lubricating the linear rails and bearings on which the robot arms move at adjustable periods, is offered as standard.





ADDITIONAL ROBOT ARM

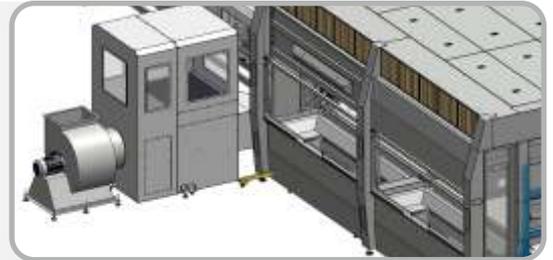
Kbotic Painting Robot can be produced with double robot arms as required. Thanks to this structure, painting speed can be doubled, and fast and efficient color transitions are made possible thanks to the arms being able to work independently of each other. In addition, the fact that both arms can work continuously in synchrony allows painting at very high speeds.



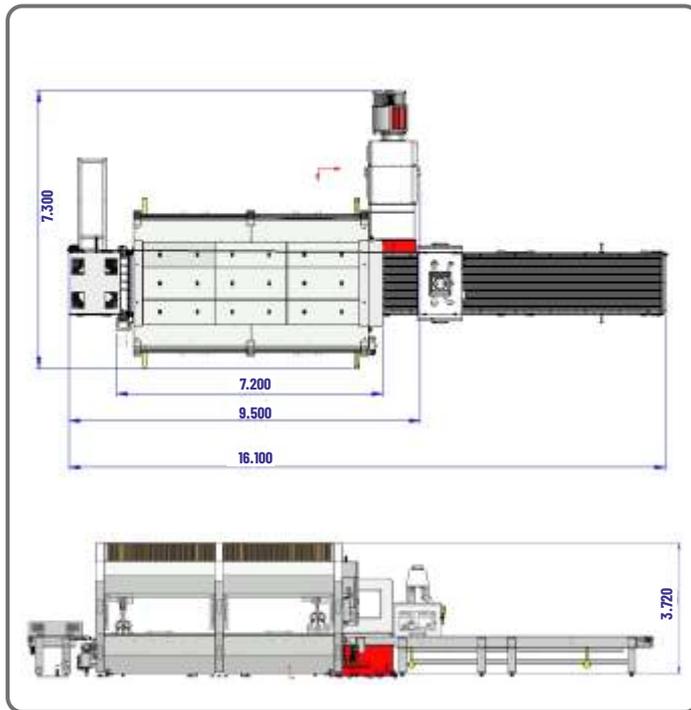
WATER FILTRATION SYSTEM



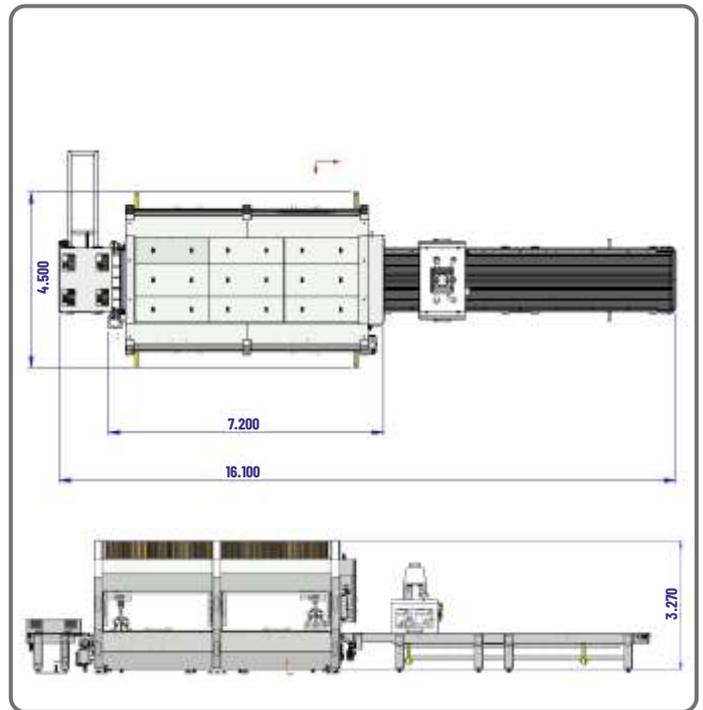
Kbotic Painting Robot can be produced with an optional water filtration system. In this way, UV Painting processes can be done without any problems.



WATER FILTRATION KBOTIC



STANDARD KBOTIC (DRY FILTRATION)



Technical Specifications

Kbotic Weight:	11,750 Kg.
Kbotic Electricity Consumption:	24 kW/s.
Air Consumption:	1,250 L/ min. (Excluding 80 NL Guns)
Air Pressure:	6 bar.
Aspiration Flow Max.	18,000 m ³ /s. (Inverter Controlled)
Ventilation Flow:	18,000 m ³ /s.
Working Height (Max.):	200 mm.
Working Width (Max.):	1,200 mm.
Working Length (Max.):	4,000 mm.
Working Length (Continuous):	Unlimited
Linear Painting Speed:	2 m/s.
Conveyor Speed (Max.):	8 mt/min. (Inverter Controlled)



“to become
professional in **painting**”



KR BM Cevval

Two Arm Reciprocating Spray Machine



▶ Watch Now

KR BM CEVVAL is a new generation Automatic Spray Machine, which has been designed and developed to achieve high quality finishing on any kind of panel materials, differs from its equivalents with its superior features and technology. KR BM CEVVAL which is equipped with two servo-controlled oscillating arms, provides high quality and rapid painting of wood, metal, glass, plastic, fibercement and etc. It provides ideal surface and edge painting quality thanks to its cabin interior design and arm structure.

MOVING IN & OUT GLASS DOORS



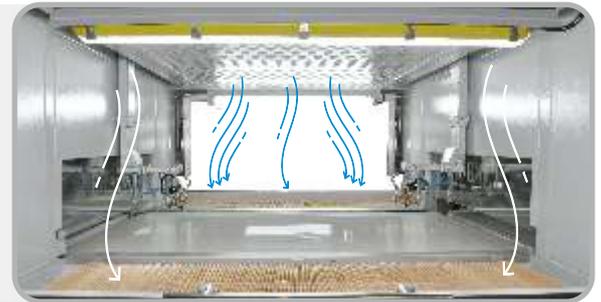
Glass covers that can move automatically (up-down) according to the product thickness at the entrance and exit of the machine provide great support to keeping the pressure stable inside the cabin. The stability of the pressure inside the cabin prevents dust that may come out of the machine or dust that may enter from outside. This feature is not available on equivalent machines. *The invention of this method belongs to Karabudak Engineering.*



ASPIRATION AND VENTILATION SYSTEM



Overspray is sucked through two-stage dry filters. Large filtering surface area ensures better air distribution, which translates into uniform finishing and a cleaner machine. Inverter controlled tubeaxial fans which pump clean air inside the cabin through the F5 filters are located on the top of the machine. This system provides optimum pressure inside the cabin.



PRODUCT SCANNING SYSTEM(READING BARRIER)

32 pcs sensor beam is positioned under the motorized feeding rollers, ensures a millimetric precision on determining the section which will be painted. It minimises the wastage of paint.



PAINT RECOVERY & BELT CLEANING SYSTEM

Paint on the polyolefin conveyor belt is scraped automatically and can be used again with the paint recovery system. Cleaning system cleans the belt with a solvent or water (if the paint is waterbased) and rubber blade dries the belt totally.



CONTROL SYSTEM

In KR BM CEVVAL automatic spraying machine, 10 " color touch screen that allows both to control and memorize all functions and operating parameters is provided as standart. All production data can be tracked online by optional IOT system and it can send daily production reports.



SPRAYING SYSTEM

The machine is equipped with two painting arms. Movement speed can be adjusted automatically by touch screen. The painting arm differs from its competitors thanks to its design that allows easy adjustment of gun height, angles and its strong structure which moves on two linear rails. 1 high pressure pump and 4 high pressure guns are provided as standart. The infrastructure is ready to connect 8 guns and 2 pumps as needed.



CONVEYOR BELT AND CENTERING SYSTEM

KR BM Ceval paints products on specially developed polyolefin belt. This belt does not keep paint on itself. With its belt cleaning system, it cleans with less thinner than its competitors. The belt also features an automatic centring device to guarantee correct conveyor belt positioning on the high precision carriage.



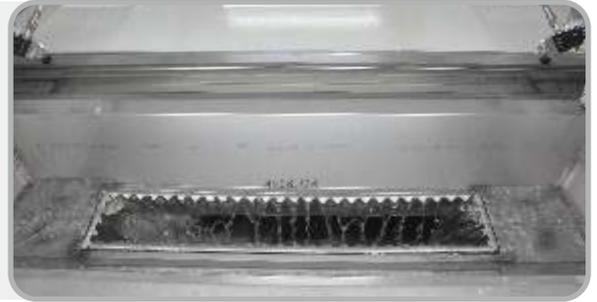
AUTOMATIC LUBRICATION SYSTEM

This system ensures a smooth and long-lasting operation of the reciprocating arms by automatically lubricating the linear bearings and guides.

the expert
in wood surface
finishing

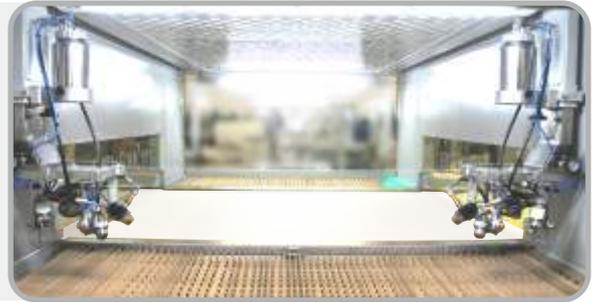
WATER FILTRATION SYSTEM

Water filtration system in Ceval, filters the dirty air inside the cabin through water curtain channels and filters chemicals and solvents to be thrown out as harmless gases.



SPRAY POT

Paint consumption can be minimized by using the paint in the spray pots and low pressure guns instead of high pressure pump & guns. This system is recommended for an option for boutique production style.



EXTRA HIGH PRESSURE PUMP-GUNS SET

Extra 1 high pressure pump and 4 high pressure guns is offered as an option for the producers who want to work with redundancy or to separate the circuits of the varnish and the paint.

EXTRA LOW PRESSURE PUMP-GUN SETS

Extra set of low pressure guns & pump can be installed on the machine if required. Its an option for the customers who want to apply stain.

Technical Specifications

Weight:	4,000kg
Dimensions:	L: 5.400mm W: 4.000mm H: 2.650mm
Electricity Consumption (standard machine):	13 Kw/hour
Working Width:	50mm-1300mm
Working Height:	3mm-100mm
Working Length:	300mm-Unlimited
Aspiration Fan Flow Rate:	12,000 m ³ /hour
Ventilation Fan Flow Rate:	12,000 m ³ /hour
Air Consumption:	1100 L/min
Air Pressure:	6 Bars
Max.Robot Arm Speed:	150 m/min
Max.Conveyor Speed:	8m/min
Optimum Painting Speed Range:	3-6m/min

“professional solution
in boutique painting”



KR BM Cevval K

Two Arm Reciprocating Spray Machine



▶ Watch Now

KR BM CEVVAL K is a new generation Automatic Spray Machine, which has been designed and developed to achieve high quality finishing on any kind of panel materials, differs from its equivalents with its superior features and technology. KR BM CEVVAL K which is equipped with two servo-controlled oscillating arms, provides high quality and rapid painting of wood, metal, glass, plastic, fibercement and etc. It does not create chemical disposal waste with paper belt system. Its cleaning is much simpler.

MOVING IN & OUT GLASS DOORS

Glass covers that can move automatically (up-down) according to the product thickness at the entrance and exit of the machine provide great support to keeping the pressure stable inside the cabin.

The stability of the pressure inside the cabin prevents dust that may come out of the machine or dust that may enter from outside.

This feature is not available on equivalent machines.

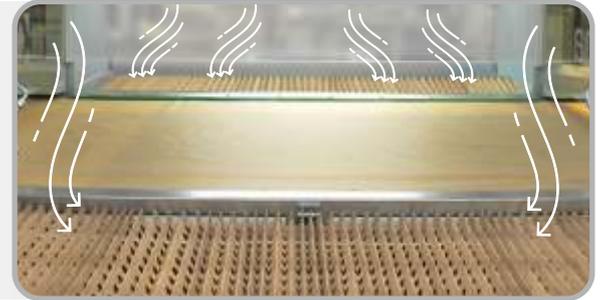
The invention of this method belongs to Karabudak Engineering.



ASPIRATION AND VENTILATION SYSTEM

Overspray is sucked through two-stage dry filters. Large filtering surface area ensures better air distribution, which translates into uniform finishing and a cleaner machine. Inverter controlled tubeaxial fans which pump clean air inside the cabin through the F5 filters are located on the top of the machine.

This system provides optimum pressure inside the cabin



PRODUCT SCANNING SYSTEM(READING BARRIER)

32 pcs sensor beam is positioned under the motorized feeding rollers, ensures a millimetric precision on determining the section which will be painted. It minimises the wastage of paint.



FEEDING SYSTEM

Feeding system consists of a paper unwinding device with adjustable brake for clean paper and an independent motor-driven winding device (torque controlled) to take up the paper after spraying.



CONTROL SYSTEM

In KR CEVVAL automatic spraying machine, 10 " color touch screen that allows both to control and memorize all functions and operating parameters is provided as standart. All production data can be tracked online by optional IOT system and it can send daily production reports.



SPRAYING SYSTEM

In KR BM CEVVAL Automatic Spraying Machine, 1 high pressure pump and 4 high pressure guns are provided as standart. The infrastructure is ready to connect 8 guns and 2 pumps as needed. The machine is equipped with two painting arms. Movement speed can be adjusted automatically by touch screen. The painting arm differs from its competitors thanks to its design that allows easy adjustment of gun height, angles and its strong structure which moves on two lineer rails.



AUTOMATIC LUBRICATION SYSTEM

This system ensures a smooth and long-lasting operation of the reciprocating arms by automatically lubricating the lineer bearings and guides.



From our customer Wepaint - Israel

WATER FILTRATION SYSTEM

Water filtration system in Cevval, filters the dirty air inside the cabin through water curtain channels and filters chemicals and solvents to be thrown out as harmless gases.



SPRAY POT

Paint consumption can be minimized by using the paint in the spray pots and low pressure guns instead of high pressure pump & guns. This system is recommended for an option for boutique production style.



EXTRA HIGH PRESSURE PUMP-GUNS SET

Extra 1 high pressure pump and 4 high pressure guns is offered as an option for the producers who want to work with redundancy or to separate the circuits of the varnish and the paint.

EXTRA LOW PRESSURE PUMP-GUN SETS

Extra set of low pressure guns & pump can be installed on the machine if required. Its an option for the customers who want to apply stain.

Technical Specifications

Weight:	4,500kg
Dimensions:	L: 5.400mm W: 5.250mm H: 2.650mm
Electricity Consumption:	13 Kw/hour
Working Width:	50mm-1300mm
Working Height:	3mm-100mm
Working Length:	300mm-Unlimited
Aspiration Fan Flow Rate:	12,000 m ³ /hour
Ventilation Fan Flow Rate:	12,000 m ³ /hour
Air Consumption:	1100 L/min
Air Pressure:	6 Bars
Max.Robot Arm Speed:	150 m/minute
Max.Conveyor Speed:	8 m/minute
Optimum Painting Speed Range:	3-6 m/minute

“discovery of quality and economy in painting”



KR BM 1000 B

One Arm Reciprocating Spray Machine



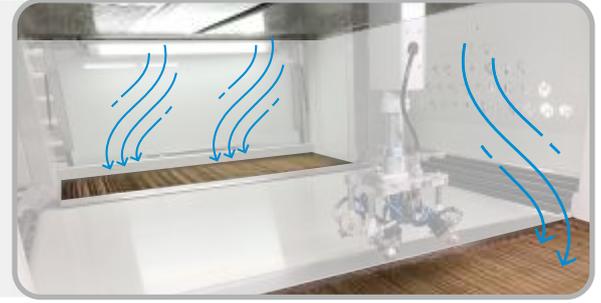
▶ Watch Now

KR BM 1000 B, which is designed for Automatic Painting of panel-shaped products, is an extremely easy to use machine with its superior technological features. It provides %30 saving with its paint recovery system and allows its users to ensure high quality and economic finishing. KR BM 1000 B is ideal painting solution for small and medium scale businesses.

ASPIRATION AND VENTILATION SYSTEM

Overspray is sucked through two-stage dry filters. Large filtering surface area ensures better air distribution, which translates into uniform finishing and a cleaner machine. Inverter controlled tubeaxial fans which pump clean air inside the cabin through the F5 filters are located on the top of the machine.

This system provides optimum pressure inside the cabin.



PRODUCT SCANNING SYSTEM(READING BARRIER)

32 pcs sensor beam is positioned under the motorized feeding rollers, ensures a millimetric precision on determining the section which will be painted. It minimises the wastage of paint.



PAINT RECOVERY & BELT CLEANING SYSTEM

Paint on the polyolefin conveyor belt is scraped automatically and can be used again with the paint recovery system. Cleaning system cleans the belt with a solvent or water (if the paint is waterbased) and rubber blade dries the belt totally.



CONTROL SYSTEM

In KR BM 1000B ,a 7" color touch screen is provided as standard, allowing you to control and memorize all functions and operating parameters. All production data can be tracked online by optional IOT system and it can send daily production reports.



AUTOMATIC LUBRICATION SYSTEM



This system ensures a smooth and long-lasting operation of the reciprocating arms by automatically lubricating the liner bearings and guides.

SPRAYING SYSTEM

The machine is equipped with 1 central painting arm. Movement speed can be adjusted automatically by touch screen. Arm speed can reach max. 180m/m. Thanks to its portable design, it allows you to easily change the gun and adjust the angle and height.

1 high pressure pump and 4 high pressure guns are provided as standart.

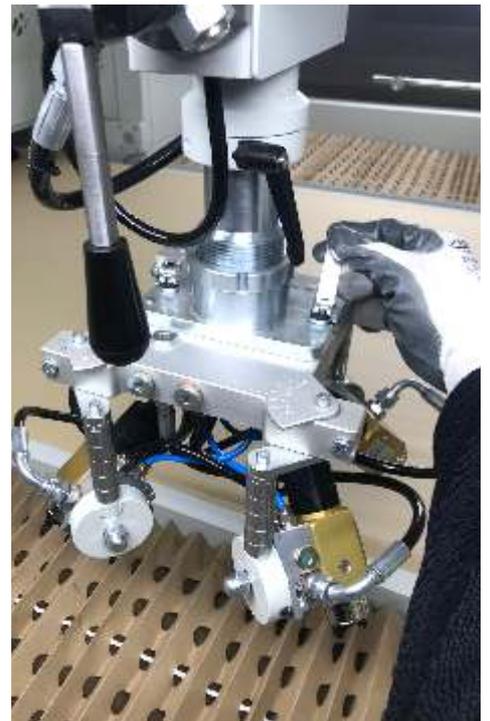
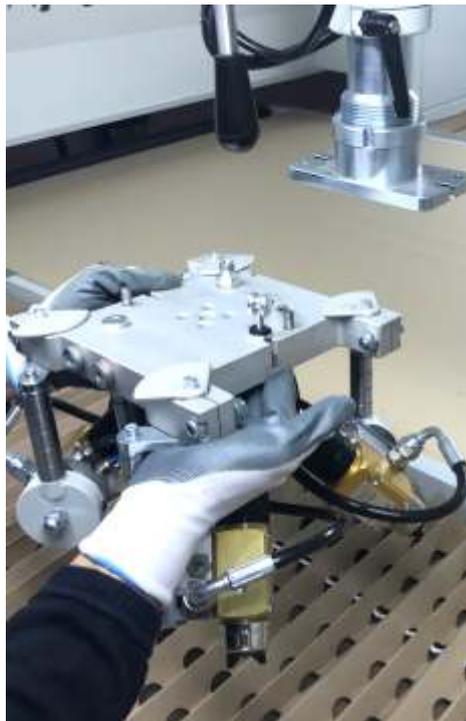
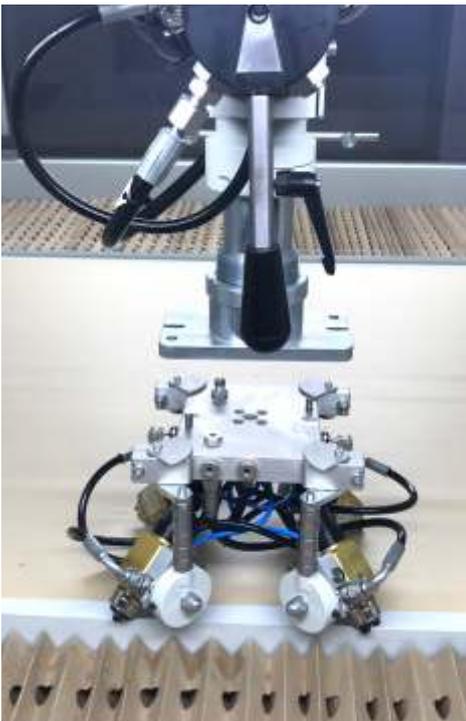


CONVEYOR BELT AND CENTERING SYSTEM

KR BM 1000 B, paints products on specially developed polyolefin belt. This belt does not keep paint on itself. With its belt cleaning system, it cleans with less thinner than its competitors. The belt also features an automatic centring device to guarantee correct conveyor belt positioning on the high precision carriage.



easily replaced gun holder hub



FAST COLOR CHANGING VALVE

Four way valve which is specially developed for KR BM 1000 B enables a fast color change between maximum three (3) different colors.



SPRAY POT

Paint consumption can be minimized by using the paint in the spray pots and low pressure guns instead of high pressure pump & guns. This system is recommended for an option for boutique production style.



EXTRA HIGH PRESSURE PUMP

1 high pressure pump is provided as an option according to need.

EXTRA LOW PRESSURE PUMP

1 low pressure pump is provided as an option according to need.

Technical Specifications

Weight:	3,400kg
Dimensions:	L: 4.000mm W: 4.300mm H: 2.450mm
Electricity Consumption:	13 Kw/h
Working Width:	50mm-1300mm
Working Height:	3mm-100mm
Working Length:	300mm-Unlimited
Aspiration Fan Flow Rate:	12,000 m ³ /hour
Ventilation Fan Flow Rate:	12,000 m ³ /hour
Air Consumption:	1100 L/min
Air Pressure:	6 Bars
Max.Robot Arm Speed:	220 m/min
Max.Conveyor Speed:	8m/min
Optimum Painting Speed Range:	3-6m/min

“ reach the **freedom**
of rapid color changing ”



KR BM 1000 K

One Arm Reciprocating Spray Machine

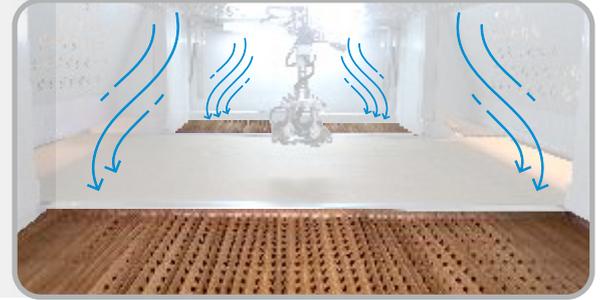


▶ Watch Now

KR BM 1000 K is single arm spray machine, suitable for the application of any type of water or solvent-based paint or glue. It is ideal for small to medium sized companies that are looking for flexibility and productivity as well as cost-effective use.

ASPIRATION SYSTEM

Overspray is sucked through two-stage dry filters. Large filtering surface area ensures better air distribution, which translates into uniform finishing and a cleaner machine.



PRODUCT SCANNING SYSTEM(READING BARRIER)

32 pcs sensor beam is positioned under the motorized feeding rollers, ensures a millimetric precision on determining the section which will be painted. It minimises the wastage of paint.



FEEDING SYSTEM

Feeding system consists of a paper unwinding device with adjustable brake for clean paper and an independent motor-driven winding device (torque controlled) to take up the paper after spraying.



CONTROL SYSTEM

In KR BM 1000 K, a 7" color touch screen is provided as standard, allowing you to control and memorize all functions and operating parameters. All production data can be tracked online by optional IOT system and it can send daily production reports



SPRAYING SYSTEM

The machine is equipped with 1 central painting arm. Movement speed can be adjusted automatically by touch screen. Arm speed can reach max. 180m/m. Thanks to its portable design, it allows you to easily change the gun and adjust the angle and height. 1 high pressure pump and 4 high pressure guns are provided as standart.



AUTOMATIC LUBRICATION SYSTEM

This system ensures a smooth and long-lasting operation of the reciprocating arms by automatically lubricating the liner bearings and guides.

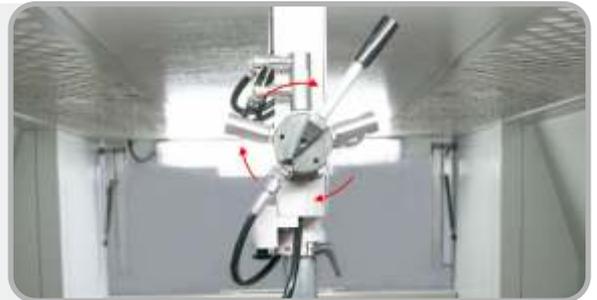
VENTILATION SYSTEM

Inverter controlled tubeaxial fans which pump clean air inside the cabin through the F5 filters are located on the top of the machine.



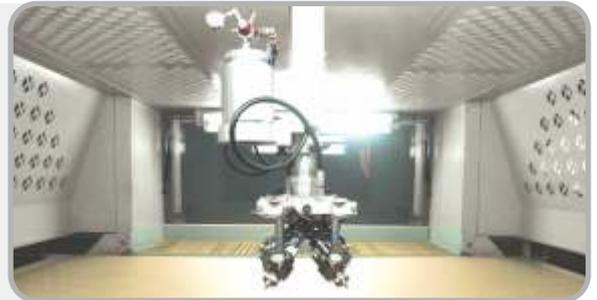
FAST COLOR CHANGE VALVE

Four way valve which is specially developed for KR BM 1000 K enables a fast color change between maximum three (3) different colors.



SPRAY POT

Paint consumption can be minimized by using the paint in the spray pots and low pressure guns instead of high pressure pump & guns. This system is recommended for an option for boutique production style.



Technical Specifications

Weight:	4,000kg
Dimensions:	L: 4.000mm W: 4.300mm H: 2.450mm
Electricity Consumption:	14 Kw/h
Working Width:	50mm-1300mm
Working Height:	3mm-100mm
Working Length:	300mm-Unlimited
Aspiration Fan Flow Rate:	12,000 m ³ /hour
Ventilation Fan Flow Rate:	12,000 m ³ /hour
Air Consumption:	1100 L/min
Air Pressure:	6 Bars
Max.Robot Arm Speed:	220 m/min
Max.Conveyor Speed:	8m/min
Optimum Painting Speed Range:	3-6m/min

“compact and **powerful**”



KR BM Optima Reciprocating Spray Machine



▶ Watch Now

Optima which was designed for the automatic painting of various panel-shaped products, is a machine equipped with advanced technological features and is extremely easy to use. With its paint recovery system that uses a belt scraper, it offers up to 30% paint savings, allowing users to paint their products in a high-quality and economical manner.

It is an ideal painting solution for small and medium-sized producers.



ASPIRATION & VENTILATION SYSTEM

The Aspiration System, which removes dirty air from inside the cabin through accordion filters, is offered as a standard feature. This system also regulates the cabin pressure, ensuring optimal internal pressure. The Ventilation System, which introduces clean air into the cabin through F5 class filters, is also a standard feature for Optima.



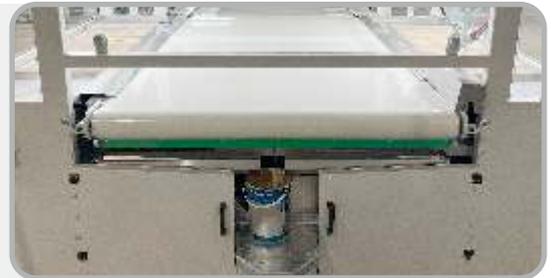
PRODUCT SCANNING SYSTEM

The Scanner Sensor Bar in the Reader Sensor System detects the shape and dimensions of the products to be painted, ensuring that the paint is applied only to the product, reducing the amount of paint used and saving on materials.



PAINT RECOVERY SYSTEM

Paint Recovery System scrapes the paint from the painting belt, providing up to 30% material savings. Thanks to the ergonomic design of the Ka-Ma Optima Automatic Painting Machine, the Paint Recovery System is easy to clean.



CONVEYOR BELT CLEANING SYSTEM

Thanks to the belt cleaning system, products are always painted on a clean and dry belt. This prevents paint from getting onto the bottom surfaces of the products.



CONTROL SYSTEM

7" colored touch screen that allows for controlling and saving all functions and working parameters is provided as standard. With the optional IoT system, all production data can be monitored online, and daily production reports can be sent.



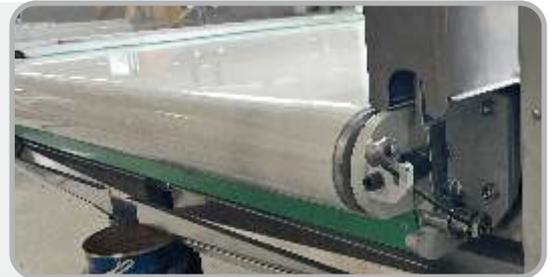
PAINTING SYSTEM

The machine is equipped with 1 central painting arm. The working speed can be automatically adjusted via the touch screen. The arm speed can reach up to 180 m/min. Its portable design allows for easy gun changes and adjustment of angles and heights. One high-pressure pump and four high-pressure guns are provided as standard together with the machine.



CONVEYOR BELT AND CENTERING SYSTEM

Ka-Ma Optima Automatic Wood Painting Machine paints products on a specially developed Polyolefin Conveyor Belt that is resistant to paint adhesion. The belt is cleaned with minimal solvent consumption compared to competitors, thanks to the Belt Cleaning System. An **Automatic belt centering unit**, which prevents the conveyor belt from slipping and deforming, is provided as standard feature.



MANUAL LUBRICATION SYSTEM

The Manual Lubrication System, which manually lubricates the linear rails and bearings on which the robotic arms move, ensures smooth and long-lasting operation as a standard feature.



Applications: Doors, door frames, architraves, modular furniture, kitchen and bathroom furniture, flat and carved cabinet doors, glass.

Paint Materials that Can Be Used: Polyurethane, water-based, acrylic, cellulose, UV primers, paints and varnishes, adhesives, water and solvent-based surface stains.

Technical Specifications

Weight:	2000kg
Dimensions:	L:3.200mm W: 3200mm H: 2450mm
Electricity Consumption:	11.25kw/h
Min. Working Width:	50mm
Max. Working Width:	1000mm
Min. Working Height:	4mm
Max. Working Height:	80mm
Min. Product length:	300mm
Max. Working Length:	Forever
Aspiration Fan Flow:	8000 m ³ /h
Ventilation Fan Flow:	8000 m ³ /h
Air Consumption:	1000 nl/min
Air Pressure:	6 bars
Max. Robot Arm Speed:	1.5 m/sec
Max. Conveyor Speed:	7 m/min
Optimum Painting Speed Range:	2-2.5 m/min

“reclaimable solution for **profile painting**”



KR BM 600 Profile Painting Machine



▶ Watch Now

KR BM 600 Profile Painting Machine is a new generation profile painting machine which differs from its equivalents with its wide cabin, economical paint recovery system and its ability to be integrated into automatic loading & unloading systems.

PAINT RECOVERY & BELT CLEANING SYSTEM

KR BM 600, Paint on the polyolefin conveyor belt is scraped automatically and can be used again with the paint recovery system. Cleaning system cleans the belt with a solvent or water (if the paint is waterbased) and rubber blade dries the belt totally.



CONVEYOR BANT AND CENTERING SYSTEM

It is equipped with automatic paint recovery and belt cleaning system. Working speed is in the range of 5-25 meter per minute. The speed can be adjusted from the touch control panel with the inverter motor



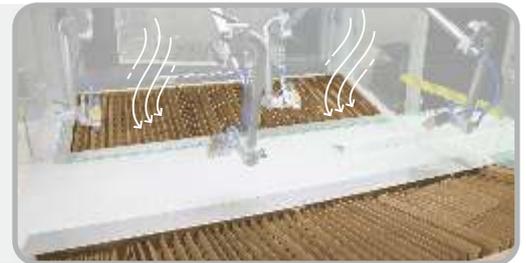
SPRAYING SYSTEM

4, 6 or 8 guns and 1 or 2 pump(s) can be installed on KR BM 600. Gun positions can be adjusted easily.



ASPIRATION SYSTEM

Overspray is sucked through two-stage dry filters. Large filtering surface area ensures better air distribution, which translates into uniform finishing and a cleaner machine.


OPTIONAL FEATURES

VENTILATION SYSTEM

Inverter controlled tubeaxial fans which pump clean air inside the cabin through the F5 filters are located on the top of the machine.



EXTRA HIGH PRESSURE PUMP

If required, Extra one piece high pressure pump is presented.

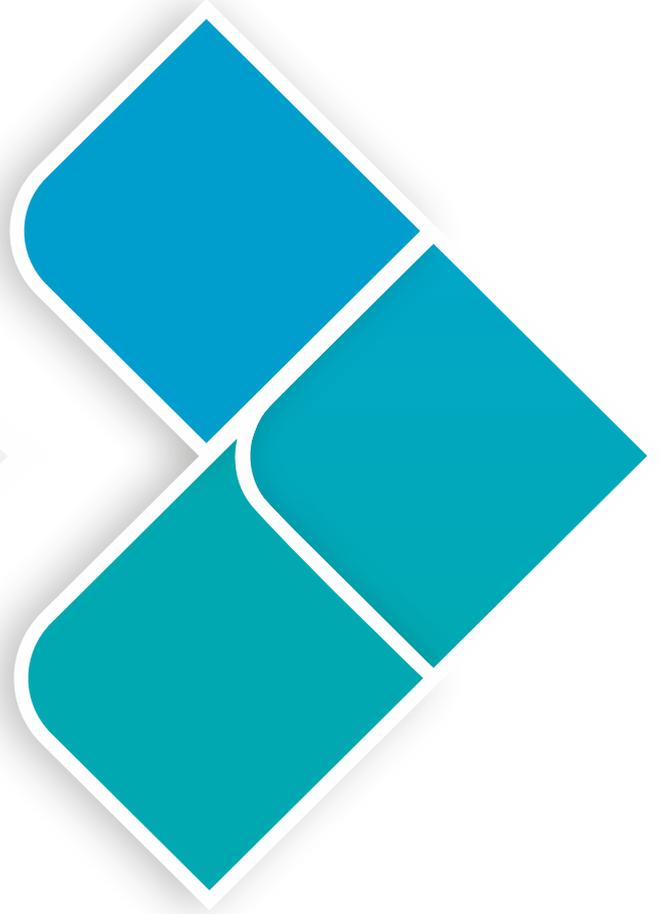
EXTRA LOW PRESSURE PUMP

If required, Extra one piece low pressure pump is presented.

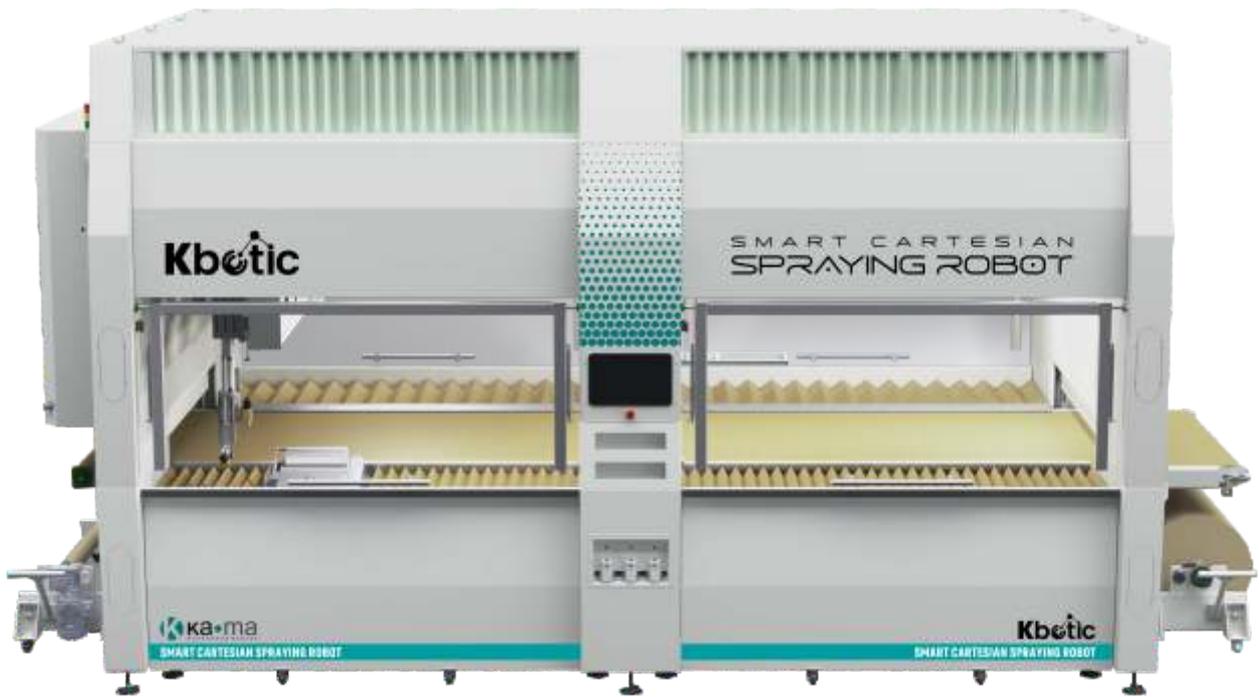
Technical Specifications

Weight:	1.800 kg
Dimensions:	W: 2.970 mm H: 2.230 mm L: 3.950 mm
Electricity Consumption:	7,75 kW/h
Conveyor Working Speed (Max):	25 m/dk.
Part Size to be Painted (Max):	W: 350mm H: 250mm L: Unlimited
Dry Ventilation Flow (Max):	12000 m ³ /h
Supply Air Pressure:	6 Bar
Number of Paint Guns:	4 Pcs.
Effective Bandwidth:	500 mm

glue machines



“strengthen
your membrane
quality with **Kbotic**”



Kbotic I Glue Robot



▶ Watch Now

Kbotic is a solution with a 3-gun Cartesian robot arm system developed to automate the gluing process before membrane pressing. Thanks to Karabudak Machine's patented Lasima technology, it detects products and separates them into segments such as inner edge, outer edge, rustic and surface, and applies glue perfectly to each area. In this way, it eliminates human-induced errors and provides high precision and efficiency.



CONTROL SYSTEM

All control and image processing of the machine is provided via 15" multitech IPC. Kavision and SQS software are controlled via this IPC. Images of the parts to be painted and painted, quality results, daily production data, fault records, up to 50,000 images are stored. It allows remote management and control of data. All production data can be followed online with the optional IOT system. It can send daily production reports.



PRODUCT SCANNING SYSTEM

With the patented Lasima detection system, the products are read with millimeter precision and divided into segments. In this way, the robot achieves perfect glue quality.



PAPER-NYLON CONVEYOR BELT

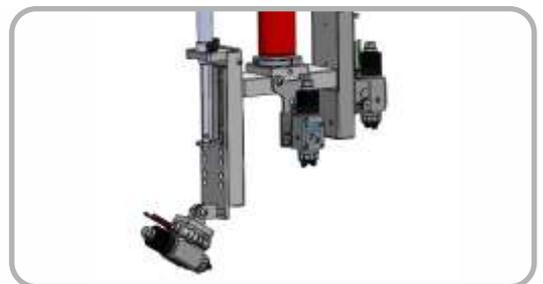
Kbotic I gluing robot has a vacuum conveyor belt as standard. This way, products can be glued on paper-nylon belts.



GLUE DISPLAY SYSTEM



Kbotic I Glue Robot is equipped with a 3-gun Cartesian robot arm. This way, shots can be made to inner-outer edges, rustic and surfaces with different guns and settings. Glue feeding of the guns is done with a low-pressure boiler.



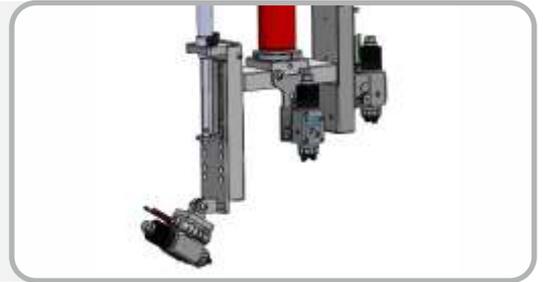
AUTOMATIC LUBRICATION SYSTEM

This system ensures a smooth and long-lasting operation of the reciprocating arms by automatically lubricating the linear bearings and guides.

ADDITIONAL ROBOT ARM



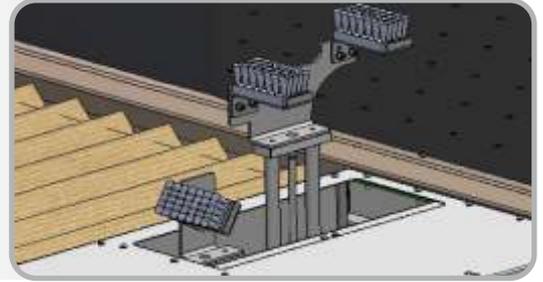
Kbotic I Glue Robot can also be produced with a double robot arm version, depending on the need. In this way, the glue application speed is doubled, and thanks to the synchronous and continuous operation of both arms, glue application at very high speeds becomes possible.



NOZZLE CLEANING BRUSH



Kbotic I Glue Robot can also be produced with a double robot arm version, depending on the need. In this way, the glue application speed is doubled, and thanks to the synchronous and continuous operation of both arms, glue application at very high speeds becomes possible.



ASPIRATION AND VENTILATION SYSTEM

Kbotic has an 18000 m³/s flow rate exhaust fan and accordion cardboard filter as standard. In this way, overspray particles formed during painting are quickly removed from the environment and the cabin interior is constantly clean. 6 frequency controlled internal ventilation fans are offered as standard. In this way, the cabin pressure is constantly balanced with pressure sensors and dust entry into the machine from the environment is prevented. Filters are EU 5 class wax filters. In addition, filter dirtiness is monitored with differential pressure switches and warnings are given when the filter becomes dirty and loses its life.

Technical Specifications

Weight: (for single arm)	11,750 Kg.
Electricity Consumption: (for single arm)	21 kW/s.
Air Consumption: (for single arm)	1,250 L/min. (Excluding 80 NL Guns)
Air Pressure:	6 bar.
Aspiration Flow Maximum.	18,000 m ³ /s. (Inverter Controlled)
Ventilation Flow:	18,000 m ³ /s.
Working Height (Max.):	36 mm.
Working Width (Max.):	1,200 mm.
Working Length (Max.):	4,000 mm.
Working Length (Continuous):	Unlimited
Linear Painting Speed:	2.5 m/s.
Conveyor Speed (Max.):	10 mt/min. (Inverter Controlled)

“revolution in membrane door production”



KR BM 1000 R Door Face Glue Machine



▶ Watch Now

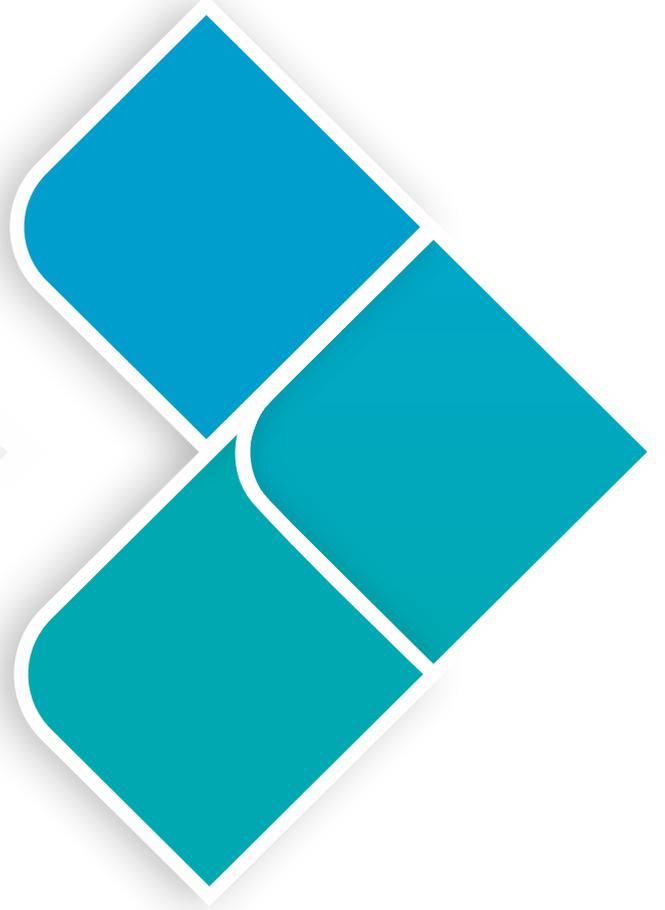
KR BM 1000 R is a high-speed and compact machine that is manufacturer-friendly, specially developed for gluing door surfaces. Thanks to its intelligent software infrastructure, it allows the integration of an automatic loading unit and a deck oven; this provides maximum flexibility and efficiency in production processes.



Technical Specification

Weight:	4,000kg
Dimensions:	L: 4.000mm W: 4.300mm H: 2.450mm
Electricity Consumption:	12.5 Kw/h
Working Width:	50mm-1300mm
Working Height:	3mm-100mm
Working Length:	300mm-Unlimited
Aspiration Fan Flow Rate:	12,000 m ³ /hour
Ventilation Fan Flow Rate:	12,000 m ³ /hour
Air Consumption:	1100 L/min
Air Pressure:	6 Bars
Max.Robot Arm Speed:	220 m/min
Max.Conveyor Speed:	8m/min
Optimum Painting Speed Range:	3-6m/min

surface
***sanding
machines***



“guarentee precision and **quality** with **Kavision**”



KR YZM 1300

Smart Surface Sanding Machine



▶ Watch Now

This machine provides the best sanding for parts with both intricate and flat surfaces. It uses image processing technology (Kavision) to detect the part upon entry. With its built-in artificial intelligence, KR YZM 1300 assigns tasks to four separate vibration sanding arms to achieve the optimal sanding for the part. These arms create an exceptional surface quality with 150g pressure sensitivity and 12,000 RPM vibration movement. Through precise pressure control and smart sanding, it performs finish sanding before polishing. It sands flat parts with up to 3mm of undulation evenly without removing the material at the bottom.



IMAGE PROCESSING TECHNOLOGY

It ensures the perfect sanding of your products by providing much more precise scanning compared to other scanning systems, thanks to its Image Processing Technology. The Image Processing Technology employs a learning method, allowing you to specify the areas on the part where you want sanding to be performed or to sand only the designated areas.



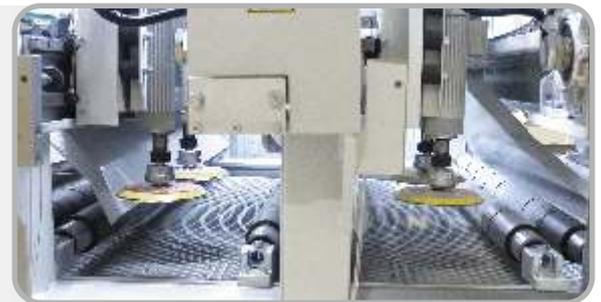
CONTROL SYSTEM

The machine's complete control and Image Processing are managed through a 15" IPC (Industrial PC). This IPC allows for the storage of all images to be sanded, daily work data, and error records. It offers remote data management and control options. With the optional IOT system, all production data can be tracked online, and daily production reports can be sent.



ROBOTIC ARM SANDING SYSTEM

This unit contains eight movable orbital sanding motors with automatically adjustable pressure intensities and distances. It takes variations in product height and edges into account, automatically adjusting pressure arms, allowing for intelligent sanding.



OSCILLATORY DISC BRUSH SYSTEM

This unit comprises nine Oscillating Disk Brushes with automatic height and speed adjustments, facilitating sanding for raw and primer coats on product indentations.



OSCILLATORY CYLINDER BRUSH SYSTEM

This unit consists of two Cylinder Brushes with independently adjustable height and rotation speed, enabling sanding for raw and primer coats on product indentations.



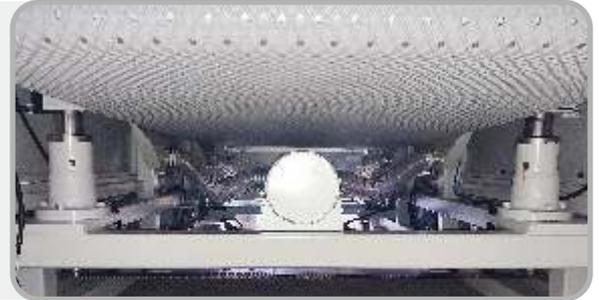
MOVABLE AIR JET UNIT FOR DUST REMOVAL

This equipment cleans the sanding dust from the product before it exits the machine.

MOVABLE CONVEYOR TABLE

The conveyor is adjustable in height and can be automatically set according to the desired part thickness with 1 mm precision, via the touch screen.

The maximum operating speed is 8m/min.



NONWOVEN FLAP CYLINDER

This unit removes sanding traces on products that have finished the sanding process, ensuring a smooth surface.



AUTOMATIC LUBRICATION SYSTEM

This system ensures a smooth and long-lasting operation of the reciprocating arms by automatically lubricating the linear bearings and guides.

CROSS BRUSH SYSTEM

Working horizontally in the direction of travel, it reduces sanding marks. It allows detailed sanding of parts in the 2nd and 3rd axes of rustic and CNC-processed products.

It consists of 2 units and 4 brushes in total."

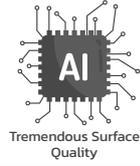


Technical Specification

Weight:	5,720kg
Dimensions:	W: 2.330 mm H: 2.350 mm L: 6.140 mm
Total Electricity Consumption:	38.5 kW/h
Conveyor Working Speed (max):	11 m/min
Workpiece Width:	150 - 1300mm
Workpiece Height:	3 - 165mm
Workpiece Length:	350mm - Unlimited
Dust Collection Flow (max):	25000 m ³ /hour
Dust Collection Speed (max):	30m/s
Feed Air Pressure:	6 Bars
Feed Air Requirement:	500 L/min
Used Sandpaper Grit Range:	P80-P2000

KR TZM 1300 EJDER

Smart Surface Sanding Machine



Watch Now

Thanks to its flexible processing system, KR TZM 1300 can be used for sanding the flat surfaces of the panels, pockets in the best way and with high-precision. It operates well for MDF and veneered cabinet doors as well as wider products such as shaker doors. In addition to Ejder's sensitivite and flexible structure, it also allows fine sanding (up to P3000 grit) before sanding on painted products to create high gloss finishes. With integrated image processing technology (Kavision) Ejder can detect the piece in the entrance. To create an ideal surface finishing, KR TZM 1300 EJDER includes 4 independent servo-controlled robotic arms and it operates them regarding the features of the process with its artificial intelligence. It can decide a division of labour between those integrated robots. These arms, which move in orbit with a pressure sensitivity of 150gr and a speed of 12,000 rpm, provide tremendous surface quality. Because AI leads the circulation of the sanding motors and the robot oscillation speed, regarding to the product type, the processing pieces are operated equally and precisely in every section (including flaps and pocket).

sand with **artificial intelligence!**



Technical Specifications

Weight:	4500 kg
Electricity Consumption:	27.5 kWh
Dimensions:	L: 5,500mm W: 2,300mm H: 2,300mm
Air Consumption:	310 L/min
Air Pressure:	6 bar
Grounding Resistance:	<1 Ω
Dust Collection Flow:	12,500 m ³ /h
Dust Collection Speed:	30 m/sn
Working Height (Effective):	3-200 mm
Working Width (Effective):	150-1300 mm
Working Length (Effective):	Unlimited
Conveyor Speed (Maximum):	8 m/min (Inverter Controlled)
Available Sanding Ranges:	P80-P3000

IMAGE PROCESSING TECHNOLOGY KAVISION

With the Image Processing Technology (kavision) scans much more precisely than other scanning systems and ensures that its products are perfect. It enables the use of Image Processing Technology learning method. With this method, you can determine the areas you want to sand on the piece and sand them, or you can only sand the  as outside your variability area from the interface.



CONTROL SYSTEM

All control of the machine is provided via 15" IPC (industrial computer). Thanks to this IPC, deterioration rates, daily operating data (pieces, m2, etc.) and malfunction records of the entire machine are stored. It provides remote access and control of data. All production data can be tracked online with the optional IOT system. Daily production records can be collected regularly and presented to the factory's management system or management. (via e-mail or SMS)



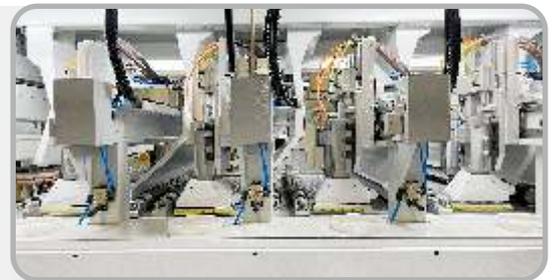
CONICAL DISC SANDING UNIT

The products entering the machine are first sanded inside the profiles with 9 pieces oscillating disc sanders arranged asymmetrically. The rotation speeds and pressing positions of this unit are automatically regulated on the screen.



ROBOT ARM SANDING SYSTEM

This unit contains 4 mobile orbital sanding robots whose pressure intensity, sanding speed and robot oscillation speed can be adjusted. Each robot has 2 automatic independent orbital sanding motors. One of these motors has a round and the other has a rectangular sanding pad. The piece properties are recorded by the system, sanding pressures are automatically adjusted, taking into account the differences in height and edges of the product. Smart abrasion is achieved in this way.



MOVABLE BRUSH UNIT FOR DUST CLEANING

The sanding dust on the product was wiped by this equipment before leaving the machine. 



VACUUM CONVEYOR

Vacuum system ensures that they maintain their durable positions on the quality welding belt. Vacuum particles also have rubber-coated pressure rollers between each unit.



AUTOMATIC LUBRICATION SYSTEM

The linear rails and bearings on which the robot arms move are lubricated at adjustable periods, thus ensuring trouble-free and long-lasting operation thanks to the Automatic Lubrication System offered as standard.

“ **the only solution** for the most challenging profiled surfaces ”



KR FZM 1300.2

Brush Sanding Machine



▶ Watch Now

KR FZM 1300.2 which is developed to sand raw, primer or filling applied profiled, carved & flat surfaces achieves successful results even on the most difficult surfaces thanks to its flexible sanding feature.

Technical Specifications

Total Weight:	5.310 kg
Dimensions:	L: 5.820 mm W: 2.330 mm H: 2.000 mm (Top Warning Light Installed 2300 mm)
Total Electrical Demand:	27.78 kW/h
Air Consumption:	7 Bar, 260L/min
Max. Product Length:	Limitless
Max. Product Width:	1300 mm
Max. Product Height:	200 mm
Min. Product Length:	350 mm
Min. Product Width:	150 mm
Min. Product Height:	3 mm
Max. Conveyor Speed:	8 m/min.
Sand Paper Grit Range:	P2000 – P80
Working Direction:	Left

CONTROL SYSTEM

This panel allows for easy input of values for the positioning of all units, conveyor belt movement speed, which units will operate, how far the brush sanders will penetrate the product, and the movements of independent orbital sanding units. It can also enable the optional IoT system to track all production data online and send daily production reports.



OSCILLATORY DISC BRUSH SANDERS

This unit consists of a total of 18 pieces, 9+9, with a diameter of 250 mm oscillating disc brush sanders. It ensures the sanding of textures and primer on the product with a 1mm precision working position.



OSCILLATORY CYLINDER BRUSH SANDERS

This unit consists of a total of 6 pieces, 2+2+2, with a diameter of 320 mm oscillating cylinder brush sanders. It ensures the sanding of textures and primer on the product with a 1mm precision working position.



MOVABLE CONVEYOR TABLE

The conveyor is mobile and can be adjusted with a 1mm precision according to the product's thickness. It can be automatically adjusted based on the desired piece thickness from the touchscreen.

The maximum working speed is 8m/min.



MOVABLE AIR JET UNIT FOR DUST REMOVAL

This equipment cleans the sanding dust from the product before it exits the machine.

AUTOMATIC LUBRICATION SYSTEM

This system ensures a smooth and long-lasting operation of the reciprocating arms by automatically lubricating the linear bearings and guides.

OPTIONAL FEATURES

VACUUM TABLE

The vacuum system prevents products from being damaged and ensures their movement on the conveyor belt.

EXTRA WORKING WIDTH & HEIGHT

KR FZM 1300.2 can be optionally manufactured to accommodate:
 a sanding width of 1500 mm,
 a sanding height of 200 mm.



CROSS BRUSH UNIT

Working horizontally in the direction of travel, it reduces sanding marks. It allows for detailed sanding of parts with rustic and CNC processing on the 2nd and 3rd axes. It consists of a total of 2 units and 4 brushes.



KR FZM 1300.1.1

Brush Sanding Machine



▶ Watch Now

KR FZM 1300.1.1 Wood Sanding Machine, which was designed and developed for 3D raw and primer sanding of profiled and CNC carved surfaces, achieves successful results even on the toughest surfaces with its flexible sanding feature. Thanks to the oscillating brush sanding unit, which works perpendicular to the horizontal axis, it allows you to get the best result by sanding uniformly on all surfaces.



Technical Specifications

Weight:	3.335 kg
Dimensions:	L: 4.570 mm W: 2.330 mm H: 2.000 mm (Top Warning Light Installed 2300 mm)
Electricity Consumption:	14 kW/h
Air Consumption:	50 NL/min
Air Pressure:	6 bar
Ventilation Suction Flow:	3500 m ³ /h
Working Height (Effective):	3-200 mm
Working Width (Effective):	150-1300 mm
Working Length (Effective):	Unlimited
Conveyor Speed (Max):	8 m/min (Inverter Controlled)
Usable Sanding Ranges:	P80-P400

CONTROL SYSTEM

Allows for easy input of all values related to the positioning of all units, conveyor belt movement speed, which units are to be used, how deep brush sanders will go into the product, and independent orbital sanding unit movements. With the optional IoT system, all production data can be tracked online, and daily production reports can be sent.



OSCILLATORY DISC BRUSH SANDERS

This system consists of 9 pcs disc brush sanders. Rotating speed, direction and height of the sanders can be adjusted automatically. It does not scratch the product thanks to its oscillation feature. Practical sandpaper changing system provides convenience to the operator.



OSCILLATORY CYLINDER BRUSH SANDERS

This system consists of 2 pcs cylinder brush sanders. Rotating speed, direction and height of the sanders can be adjusted automatically. It does not scratch the product thanks to its oscillation feature. Practical sandpaper changing system provides convenience to the operator.



CROSS BRUSH UNIT

Working horizontally in the direction of travel, it reduces sanding scratches. It ensures detailed sanding of rustic and CNC-processed parts on the 2nd and 3rd axes. It consists of a total of 2 units and 4 brushes.



MOVABLE CONVEYOR TABLE

The conveyor is movable, and its height can be adjusted with a precision of 1 mm according to the product's thickness. It can be automatically set to the desired piece thickness through a touch screen.

The maximum working speed is 8 m/min.



AIR JET UNIT FOR DUST CLEANING

This equipment cleans sanding dust from the product before it exits the machine.

AUTOMATIC LUBRICATION SYSTEM

This system ensures a smooth and long-lasting operation of the reciprocating arms by automatically lubricating the liner bearings and guides.

OPTIONAL FEATURES

EXTRA WORKING WIDTH & HEIGHT

The KR FZM 1300.1.1 can be custom-manufactured to have:

- a sanding width of 1500 mm
- a sanding height of 200 mm



VACUUM TABLE

The vacuum system prevents products from getting damaged while moving on the conveyor belt.

KR FZM 1300.1

Brush Sanding Machine



▶ Watch Now

KR FZM 1300.1 which is developed to sand raw, primer or filling applied profiled, carved & flat surfaces achieves successful results even on the most difficult surfaces thanks to its flexible sanding feature.



Technical Specifications

Total Weight:	2.745 kg
Dimensions:	L : 3.600 mm W : 2345 mm H : 1.970 mm (Top Warning Light Installed 2360 mm)
Total Electrical Demand:	13,5 kW/h
Air Consumption:	260 L/m
Max. Product Length:	Limitless
Max. Product Width:	1300 mm
Max. Product Height:	70 mm
Min. Product Length:	350 mm
Min. Product Width:	150 mm
Min. Product Height:	3 mm
Max. Conveyor Speed:	8 m/min.
Sand Paper Grit Range:	P400 – P80
Working Direction:	Left

CONTROL SYSTEM

Allows easy input of all parameters for unit positioning, conveyor belt speed, which units will operate, how far brush sanders will penetrate the product, and independent orbital sander unit movements through this panel. With the optional IoT system, all production data can be tracked online, and daily production reports can be sent.



OSCILLATORY DISC BRUSH SANDERS

This system consists of 9 pcs disc brush sanders. Rotating speed, direction and height of the sanders can be adjusted automatically. It does not scratch the product thanks to its oscillation feature. Practical sandpaper changing system provides convenience to the operator.



OSCILLATORY CYLINDER BRUSH SANDERS

This system consists of 2 pcs cylinder brush sanders. Rotating speed, direction and height of the sanders can be adjusted automatically. It does not scratch the product thanks to its oscillation feature. Practical sandpaper changing system provides convenience to the operator.



MOVABLE CONVEYOR TABLE

The conveyor is mobile and its position can be adjusted according to the thickness of the workpiece with a 0,1 mm precision. The height of the application can be controlled and adjusted from touch panel according to the panel thickness. The max. conveyor speed is 8 m/min.



AIR JET UNIT FOR DUST CLEANING

Before the sanding dust leaves the product, this equipment cleans it, keeping the brush clean by removing the dust from the machine.

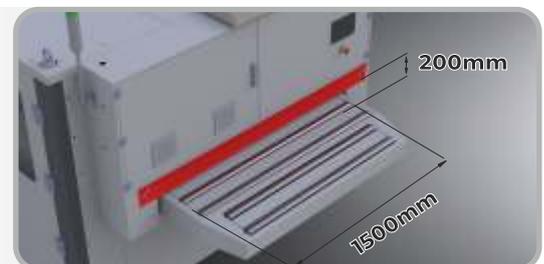
AUTOMATIC LUBRICATION SYSTEM

This system ensures a smooth and long-lasting operation of the reciprocating arms by automatically lubricating the liner bearings and guides.

OPTIONAL FEATURES

EXTRA WORKING WIDTH & HEIGHT

KR FZM 1300.1 can be manufactured to be compatible with:
1500 mm sanding width
200 mm sanding height



CROSS BRUSH UNIT

By working horizontally in the direction of travel, it reduces sanding marks and ensures detailed sanding on rustic and CNC-processed parts. It consists of a total of 2 units and 4 brushes.



VACUUM TABLE

The vacuum system prevents products from moving on the conveyor belt and getting damaged.

“compact and **powerful**”



KR FZM 1006 Flexa Brush Sanding Machine



▶ Watch Now

KR FZM 1006 Flexa Brush Sanding Machine is designed for raw and primer sanding of rustic and CNC-carved surfaces. With its flexible sanding capabilities, it helps achieve excellent results even on the most challenging surfaces.

DISC BRUSH SANDING UNIT

This unit consists of 8 asymmetrically arranged disc brush sanders. The sanding pressure position and rotation speed of the unit can be adjusted steplessly.



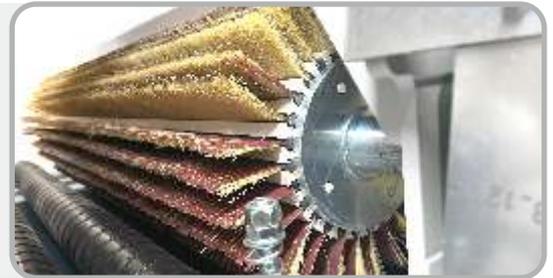
CROSS BRUSH SANDING UNIT

This unit consists of two brush sanding belts rotating in opposite directions. The sanding rotation speeds and pressure positions can be adjusted steplessly.



CYLINDRICAL BRUSH SANDING UNIT

This unit consists of two cylindrical brush sanders rotating in opposite directions. The sanding pressure position and rotation speed of the unit can be adjusted steplessly.



Technical Specifications

Weight:	1600 kg
Dimensions:	L: 2650mm W: 1800 mm H: 1780 mm
Electricity Consumption:	6,25 kw/h
Total Dust Collection Requirement:	3500 m ³ /h
Max Working Speed:	8,5 m/min
Min Product Width:	50 mm
Max. Product Width:	1000 mm
Min. Product Length:	350 mm
Max. Product Length:	Unlimited
Min. Product Height:	6 mm
Max. Product Height:	80 mm
Available Sanding Grit Range:	P40-P600

“compact and fast”



KR KZM 3 Speedy

Edge Sanding Machine



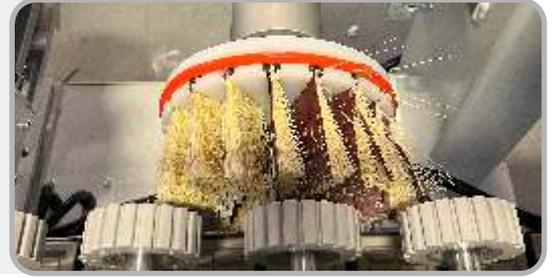
▶ Watch Now

KR KZM 3 Edge Sanding Machine is used for sanding the edges of doors, panels, and modular furniture parts. Thanks to its flexible and movable sanding units, it performs excellent raw and primer sanding of both straight and radiused edges.



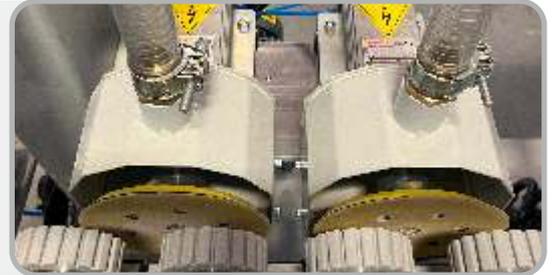
DISC BRUSH SANDING UNIT

One Disc Brush Sander with adjustable height, distance and rotation speed, sands the radius and corners of the edge.



OSCILLATING ORBITAL SANDING UNIT

The system, consisting of 2 orbital vibration sanders, is used for raw and primer sanding of straight edges. Oscillating feature ensures high-quality sanding. Pressure intensity and the sanding start & finish offsets can be adjusted automatically.



CONTROL SYSTEM

The positions of all sanding units and upper compression wheels can be manually adjusted. The conveyor, orbital sanding, and brush sanding rotation speeds can be adjusted automatically via the touch screen.



Speedy

Technical Specifications

Weight:	750 kg
Dimensions:	L: 2530 mm W: 928 mm H: 1800 mm
Electricity Consumption:	5 kW/h
Dust collection requirement:	1000 m ³ /h
Working Speed:	1-10 m/min
Min. Product Width:	120 mm
Max. Product Width:	2000 mm
Max. Product Height:	70 mm
Max. Product Length:	Unlimited
Min. Product Length:	150 mm

“the way to **save paint** and **time**: edge sanding machine”



KR KZM 5

Edge Sanding Machine



▶ Watch Now

KR KZM 5 Edge Sanding Machine is used for sanding the edges of doors, lids, and modular furniture components. Thanks to its flexible and mobile sanding units, it performs perfect sanding for straight, chamfered, and radiused edges in both raw and primed conditions.

Technical Specifications

Weight:	1,530kg
Dimensions:	L: 3.750 mm W: 1.750 mm H: 1.650 mm
Electricity Consumption:	9 kW/h
Air Consumption:	50NL/min
Working Speed:	25 m/min
Product Width:	150-2100mm
Product Height:	3-70mm
Min. Product Length:	200mm - Unlimited

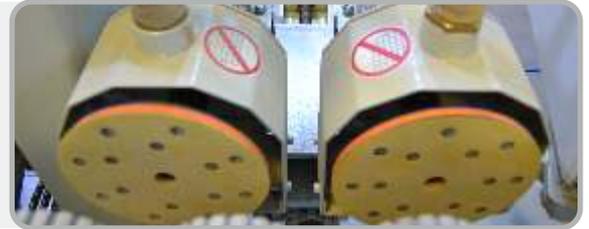
FLEXIBLE BELT SANDING UNIT

Primarily used for raw edges, this oscillating unit can also be used for radiused corners by changing the pressure pad. Its angle, distances, and pressure intensity can be automatically adjusted.



OSCILLATORY ORBITAL SANDING UNIT

This system, consisting of two orbital sanding motors, is used for the raw and primed sanding of straight edges. Its oscillating operation provides cost-effective and high-quality sanding. Pressure intensity and distances can be automatically adjusted.



DISC BRUSH SANDING UNIT

One adjustable Disk Brush Sanding unit for sanding radius or corners of the edge, with adjustable height, distance, and rotation speed.



SCOTCH MOP UNIT

Adjustable in height and distance, the mop unit removes sanding marks on the edge and provides a super finish, ensuring a high-quality edge surface.



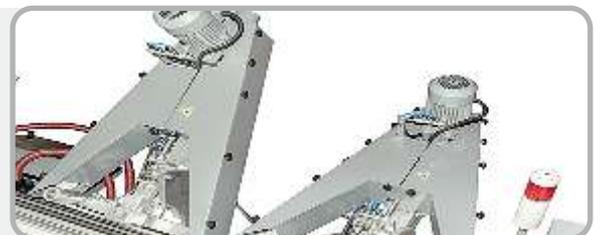
CONTROL SYSTEM

Allows for easy input of all process values, such as positioning all units, conveyor belt speed, which units will operate, and how much the brush sanders will penetrate the product. Optionally, it can be integrated with an IoT system for real-time production data tracking and daily production report submission.

OPTIONAL FEATURES

EXTRA FLEXIBLE BELT SANDING UNIT

This unit is offered as an option for sanding chamfered or radiused edges in KR KZM 5 Wood Sanding Machine. It can also be used for some simple profiles.



EXTRA CYLINDRICAL BRUSH SANDING UNIT

The extra cylindrical brush sanding unit is optionally available to enhance the quality of special-shaped edges as per customer requirements.



“way to save labor and time”



KR PM 10 Profile Sanding Machine



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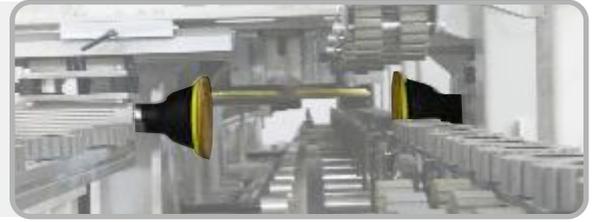
KR PM 10 Profile Sanding Machine is a new generation full automatic machine which is designed and developed for sanding door cases, trims, baseboards and all types of profiles raw or primed.

Technical Specifications

Total Weight:	3.100 Kg
Dimensions:	L: 5.730 mm W: 1.230 mm H: 1.650 mm
Max. Operating Pressure:	6 Bar.
Total Electrical Demand:	9.6 kW/h
Max. Operating Speed:	15m/min.
Max. Product Length:	Limitless
Max. Product Height:	100 mm
Min. Product Length:	650 mm
Min. Product Width:	60 mm
Min. Product Height:	6 mm
Max. Product Width:	250 mm

OSCILLATORY ORBITAL SANDERS FOR EDGES

There are 2 oscillatory orbital sanders for profile edges of the profile as a standard. These motors are PLC controlled and their press forces, start & finish points are adjustable. They just start pressing on time when the product reaches to this station.



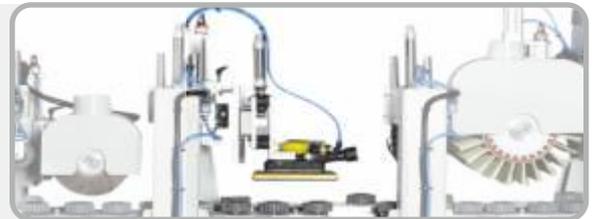
OSCILLATORY ORBITAL SANDER FOR TOP SURFACE

There is 1 oscillatory orbital sanders for the top surface of the profile as a standard. These motors are PLC controlled and their press forces, start & finish points are adjustable. They just start pressing on time when the product reaches to this station.



RECTANGLE VIBRATION SANDER

There is one rectangle sander motor without oscillation as a standard on KR PM 10 in order to sand door frame rebates. Its press force, distance & height are adjustable. This motor is also PLC controlled and they just start pressing on time when the product reaches to this station.



OSCILLATORY CYLINDRICAL BRUSH SANDER

There are 2 Oscillatory Cylindrical Brush Sander on this station. This unit is also PLC controlled and its height, revolution and distance can be adjusted easily.



BRUSH SANDERS FOR EDGES

There are 2 cylindrical brush sander units as a standard. These sanders are PLC controlled and developed in order to sand both edges of the profiles no matter if the edges are flat or rounded. These units start pressing on time when the product reaches to this station as well and their revolutions, distances and angles can be adjusted easily.



MOP SANDERS

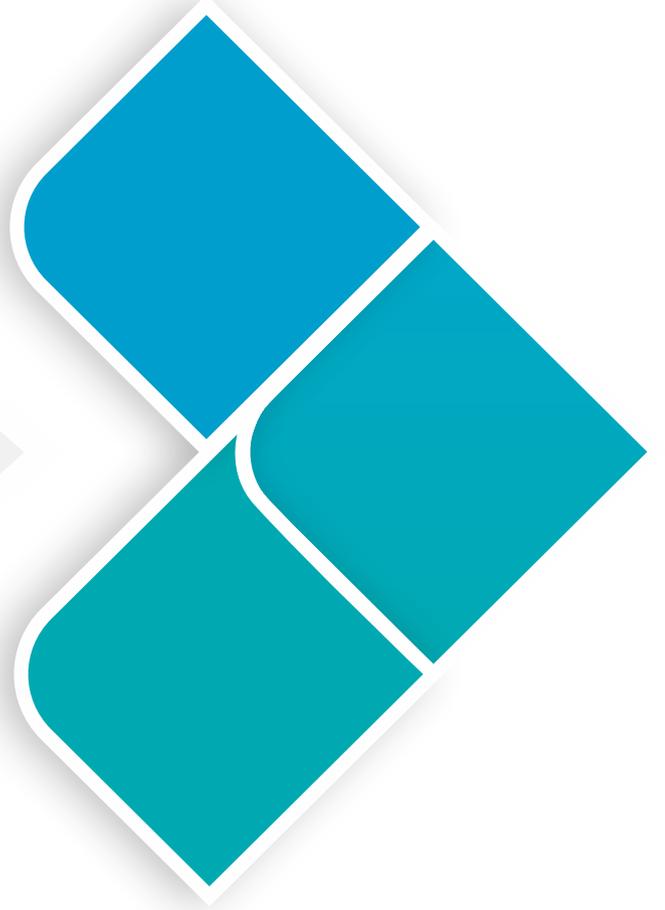
There are 2 mop sanders for sanding special splined profiles.



CONTROL SYSTEM

All settings such as conveyor speed, independant orbital units, positions of the aggregates can be adjusted easily on 10" touch screen.

Flash-off, UV
drying
machines



“ rapid drying,
high **glossiness** and
scratch resistance ”



KR UVKH 24

UV Drying Oven



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KR UVKH 24 is a quality and speed oriented new generation UV Drying Oven. It quickens the user's work with its 24 meters length and with its inverter ballast technology. It economizes energy consumption.



Technical Specifications

Total Installed Weight:	7050kg
Total Line Dimensions:	L: 24.100 mm W: 2.300 mm H: 2.600 mm
Total Electricity Requirement (excluding Heating):	63.5 kW/h
Energy Requirement for Heating:	65,000 kcal/hour
Product Width:	100 - 1300mm
Product Height:	3 - 100mm
Product Length:	250 mm - Unlimited
Average Drying Speed:	1.8 - 4 m/min

KR KF 24

Flash-Off Tunnel

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KR KF 24 Flash-Off Tunnel is a new generation wind tunnel developed to provide dust drying of paints. It provides effective and homogeneous drying thanks to its powerful air flow equipped with F7 class Rigid Bag filters. It also adapts to different customer preferences by offering heating options with hot water coil or electric resistance.



Standard Features

LAMINAR AIR / VENTILATION UNIT

It provides a homogeneous air flow in the tunnel and ensures that the ambient temperature remains between 25-35 C. It minimizes dust in the cabin thanks to positive air pressure.

ASPIRATION UNIT

By exhausting the solvent-dense air inside the tunnel, it ensures that the products go through a healthy and controlled pre-drying process.

Optional Features

JET-AIR VENTILATION UNIT

It provides the evaporation required by water-based paints and varnishes, especially at a constant speed and in a homogeneous manner.

IR LAMP

It accelerates the drying of water-based products. It provides drying on the entire surface with its 3 IR lamps.

Multi-Level Oven



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The Ka-Ma Multi-Level Oven is a specially developed system designed to ensure the long-term and consistent drying of resin-based liquid chemicals. It is particularly ideal for completing the flash-off process of resin coatings such as air-drying paints and varnishes, and subsequently achieving surface-dry, touch-dry, sand-dry, or stack-dry conditions depending on the chemical composition. This system can be used on various surfaces such as wood, glass, fiber cement, and metal, providing homogeneous and controlled drying at the appropriate temperature. The oven operates on the FIFO principle (First In, First Out), ensuring order and efficiency in the production process. The number of levels can be customized according to customer requirements. The heating method is produced either via electric heaters or coil (serpentine) systems, based on the customer's available infrastructure.

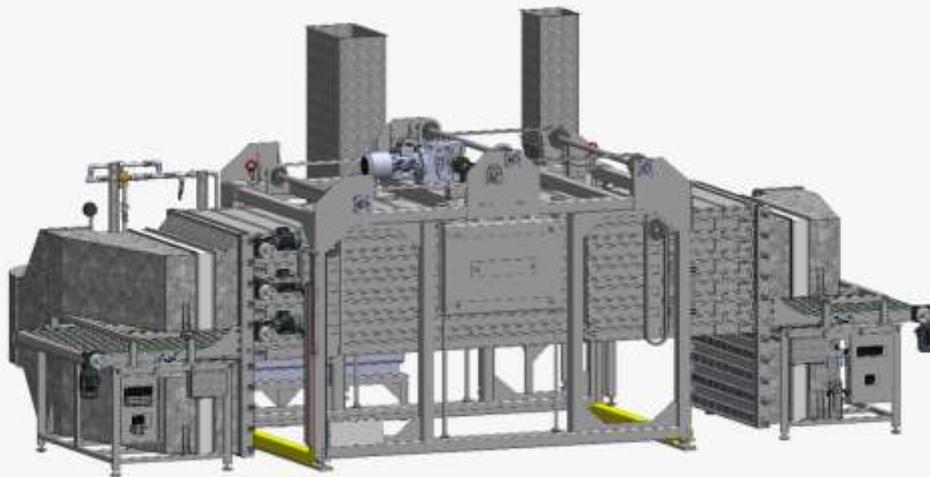


Multilayer Oven

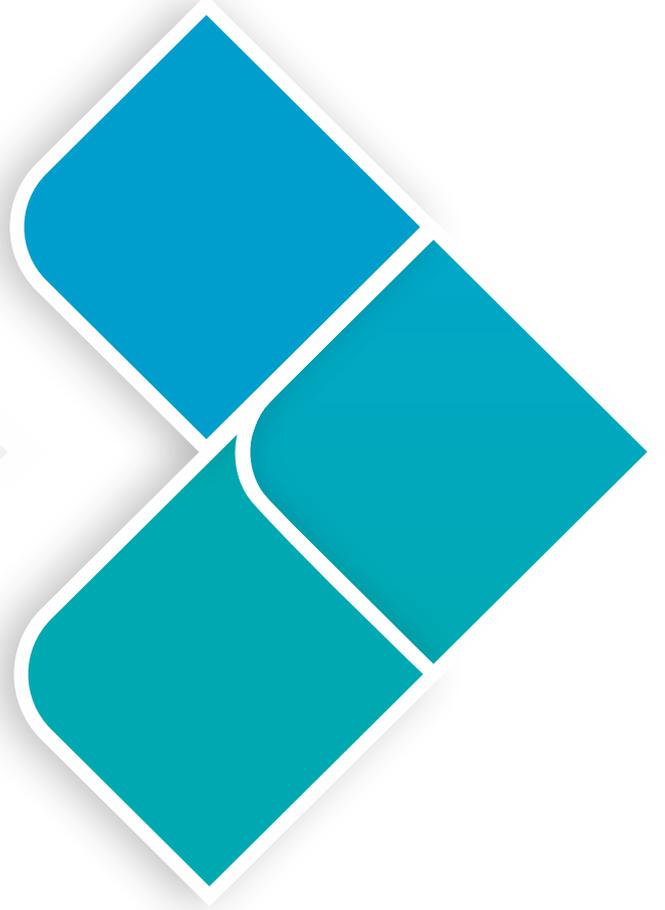


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The Multi-Layer Oven is a tiered drying system designed for curing coating materials such as paint and glue. It can be customized based on product height and is scalable up to six levels. Operating on the FIFO principle (First In, First Out), this oven ensures consistency and order in the production process. Its customizable structure allows it to adapt to different product types and process requirements, offering flexibility to meet various customer needs.



auxiliary machines



KR TA AIRJET

Double Side Panel Cleaning System



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Airjet Dust Extraction Machine is our auxiliary equipment designed to remove dust, chips, and other residues left on the product immediately after the sanding process and/or just before the painting process. This machine utilizes air and brushes for cleaning on both sides, and it neutralizes static electricity on the part surface by providing anti-static air, ensuring better paint quality by removing dust that adheres to the part surface.



Standard Features

- › Air Jet (double-nozzle, 8 air jets)
- › Brush Cleaner (height adjustable automatically with joystick)
- › Anti-Static Bar (eliminates static electricity for better cleaning)
- › Oscillating Blowing Bar (ensures the cleaning of the bottom surface of products)
- › Driven Roller Conveyor (forward movement with a reducer motor, controlled by an inverter)

Optional Features

- › Bottom Surface Brush (an additional brush is added for more effective cleaning of the lower part of the workpiece)

Technical Specifications

Weight:	870 kg
Dimensions:	W: 2.110mm H: 2.665mm L: 2.145mm
Total Electricity Consumption:	3,5 kW/h
Conveyor Working Speed (Max):	19m/min
Workpiece Width (Max):	1300mm
Workpiece Height (Max):	180mm
Workpiece Size:	Unlimited
Dust Collection Flow (Max):	10000 m ³ /h
Dust Collection Rate (Max):	30m/h
Supply Air Pressure:	6 Bar
Supply Air Requirement:	2800 L/min

KR 0iM 4

Automatic Stacking Machine



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Motorizations managed by powerful PLC and inverter for trouble-free use. The parts are machined with the support of their subsurface, so that the machined parts do not come into contact with any mechanical part and preserve the perfection of the finished surface.



Technical Specifications

Weight	2500kg
Installed Power	7.85 kW/h
Width	3300mm
Length	Min. 2570 mm - Max. 3290mm
Width	Min. 4800 mm - Max. 6350mm
Workpiece Length That Can Be Carried	Min. 550 mm - Max. 3000mm
Maximum Workpiece Weight That Can Be Carried	70 kg
Conveyor Speed	Min. 1 m/min - Max. 10 m/min
Stacking Shelf Height	Min. 310 mm - Max. 1800mm

KR OYBM

Automatic Loading & Off-loading Machine



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It allows you to perform the loading and unloading process of products such as doors, lids, panels, and similar items more quickly and with less human effort, providing safety. With the Automatic Loading & Unloading Machine, heavy materials that would typically require several people to carry can be safely and damage-free fed into your machine. Additionally, it prevents problems caused by irregular stacking during machine feeding.



Technical Specifications

Weight:	950 kg
Electricity Consumption:	1.5 kW/s
Length (With Wire Fence):	4,700 mm
Width (With Wire Fence):	3,150 mm
Height (With Wire Fence):	2,400 mm
Length (Without Wire Fence):	2,000 mm
Width (Without Wire Fence):	2,200 mm
Height (Without Wire Fence):	2,350 mm
Air Consumption:	50 NL/min
Air Pressure:	6 bar
Working Height (Effective):	3-200 mm
Working Width (Effective):	150-1300 mm
Working Length (Effective):	Unlimited
Conveyor Speed (Maximum):	8 m/min (Inverter Controlled)
Work Piece to be Transported:	Max. 70 kg.

KR OÇM 1300

Automatic Turning Machine



▶ Watch Now

It enables many materials in the form of panels to be automatically turned upside down. It safely turns the panels so that the other side can be painted automatically without using manpower and continues its movement. Thanks to its powerful motors, very heavy materials can be easily carried. It works synchronously with the integrated line.



Technical Specifications

Dimensions:	L: 3200mm, W: 2500mm, H: 2100mm
Minimum Product Thickness:	8mm
Maximum Product Thickness:	50mm
Minimum Product Length:	2250mm
Maximum Product Length:	3050mm
Minimum Product Width:	1000mm
Maximum Product Width:	1250mm
Electrical Requirement:	9kW 380V 50Hz
Maximum Machine Carrying Capacity:	100kg
Compressed Air Volumetric Flow Rate:	250 Liters/min
Compressed Air Pressure:	6 Bars
Total Weight:	1980kg
Maximum Working Height:	8-50mm
Maximum Working Width:	1250mm
Maximum Working Length:	3050mm
Conveyor Speed Max.:	10 m/min

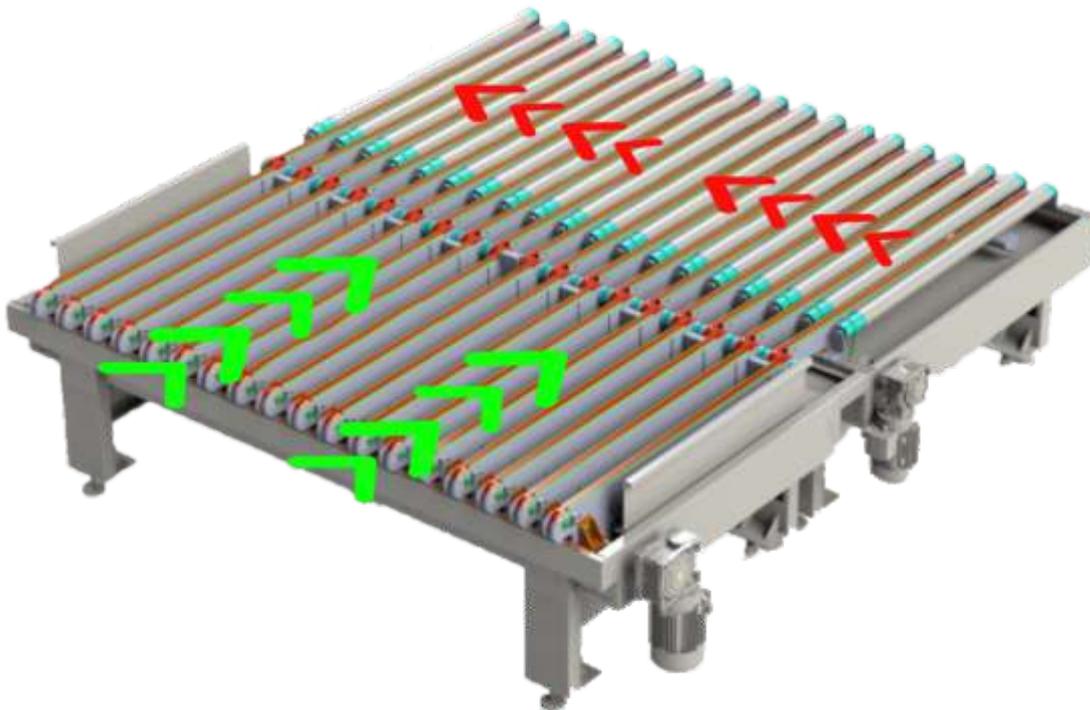
KR YTK 1300

Horizontal Transfer Conveyor



▶ Watch Now

Horizontal transfer conveyor is used to convert materials from horizontal to vertical direction. Especially materials that will enter transfer deck ovens or rotary ovens are fed to the dye machine in a sequential manner with YTK and by ensuring the healthy transfer of the material, it prevents problems such as overlapping or reducing capacity by leaving too much space that may arise from manual feeding.



Technical Specifications

Length:	4,700mm
Width:	3,400mm
Height:	850-950mm
Speed-Horizontal:	10m/s Max.
Speed-Vertical:	10m/s Max.
Installed Power:	6.5kW
Air Pressure:	6 bars



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