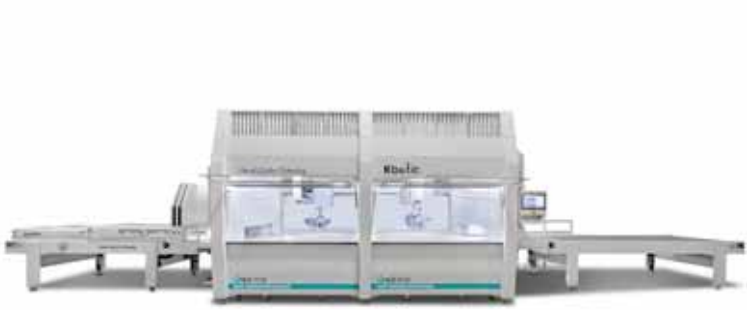
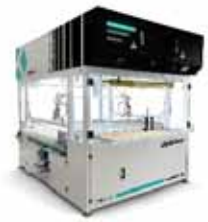
ka•ma
KARABUDAK MAKİNE

robotic painting • sanding • drying

General Catalog
of Standard Production Machines













www.karabudakmakine.com

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

With its expertise in the production of painting, sanding, and drying machines, Karabudak Makine is committed to delivering the highest quality solutions to customers worldwide. Continuously evolving, the company has firmly established itself as a trusted leader in the industry.

By prioritizing innovation at every stage of production, Karabudak Makine combines advanced machinery investments with the expertise of its skilled team. In addition to manufacturing, the company offers turnkey paint shop facilities and automation solutions, forming part of a holistic engineering service approach.

Thanks to its flexible and forward-thinking engineering structure, Karabudak Makine is capable of providing both standard and customized painting solutions tailored to specific customer needs. Its strong and dedicated team-comprising both shareholders and employees-plays a vital role in strengthening the company's position as a reliable solution partner in the sector.

As of 2021, to meet growing demand and increase production capacity, Karabudak Makine has been operating in a new 14,000 m² manufacturing facility.



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automatic spray machines



ka•ma KARABUDAK MAKİNE

robotik Kbotic • Cevval • Cevval K • BM 1000 • BM 1000 K • Optima • BM 600

Robotic Painting / **Panel** Painting Machines / **Profile** Painting Machines

" strengthen your **painting quality** with **Kbotic** "



Kbotic

Smart Cartesian Spraying Robot

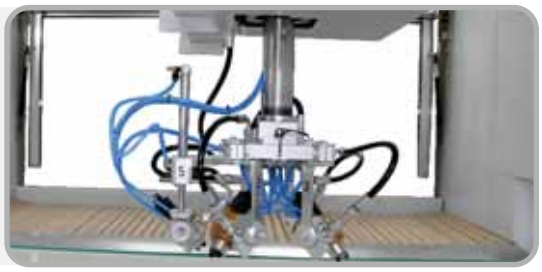
PATENTED SYSTEM

Watch Now

Kbotic is a next-generation multi-axis painting robot developed for 3D and panel-shaped products. It delivers uniform coating quality not only on flat surfaces but also on edges and complex surface profiles. With a modular design, Kbotic can be equipped with up to two Cartesian robot arms and ten spray guns, offering maximum flexibility to meet diverse production needs. The system utilizes Kavison® Image Processing Technology to accurately detect products and employs an intelligent Smart Quality Control (SQC) system to inspect the finished items at the exit. Kbotic further enhances finishing quality by automatically optimizing painting parameters using advanced artificial intelligence algorithms.

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.



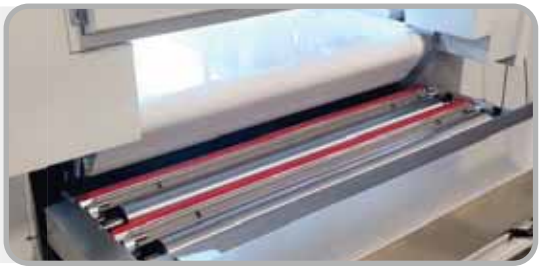
CONTROL SYSTEM

All machine control and image processing are handled via a 15" multi-touch IPC. The Kavison and SQS software are operated through this interface. It stores up to 50,000 images, including pre- and post-painting views, quality results, daily production logs, and fault records. Remote monitoring and data control are available. With the optional IoT system, all production data can be tracked online, and daily production reports can be sent automatically.



PAINT RECYCLING SYSTEM

Kbotic can be equipped with a paint recovery conveyor belt system, enabling up to 30% paint savings during high-volume production.



ASPIRATION AND VENTILATION SYSTEM

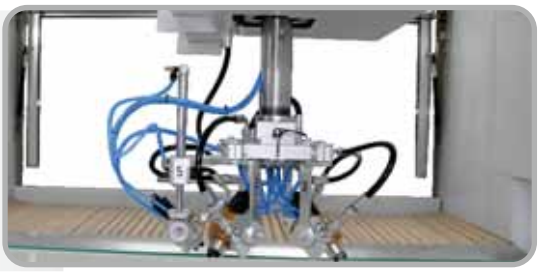
Kbotic offers an exhaust fan with a flow rate of 18,000 m³/h and an accordion cardboard filter as standard. In this way, overspray particles formed during the painting process are quickly removed from the environment and the cabin interior is always kept clean. In addition, 6 frequency-controlled internal 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 ensures smooth and long-lasting performance by regularly lubricating the linear rails and bearings on which the robot arms operate. This feature is included as standard.

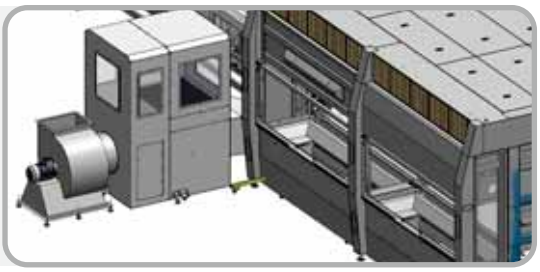
ADDITIONAL ROBOT ARM

Kbotic Painting Robot can be equipped with dual robotic arms when needed. This design allows the painting speed to be doubled, while enabling fast and efficient color transitions thanks to the arms operating independently. Additionally, their ability to work in perfect synchrony ensures high-speed, continuous painting.

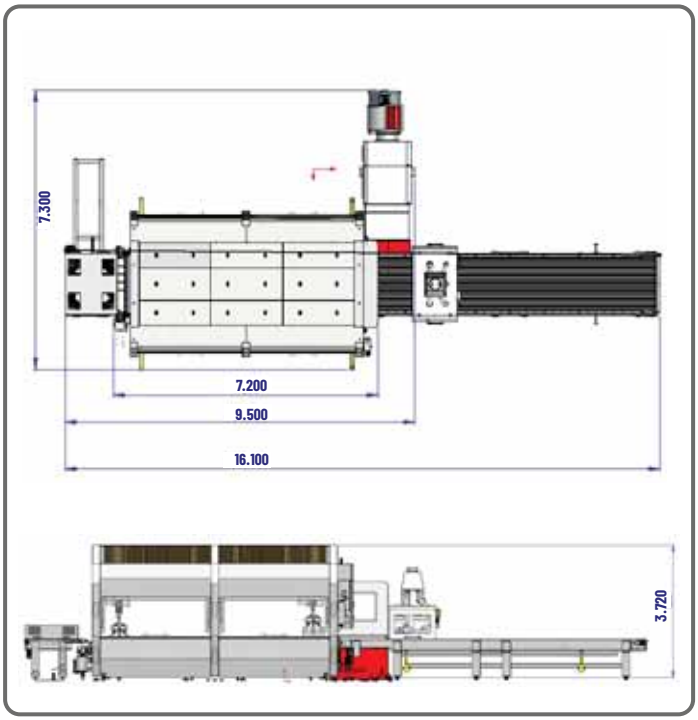


WATER FILTRATION SYSTEM

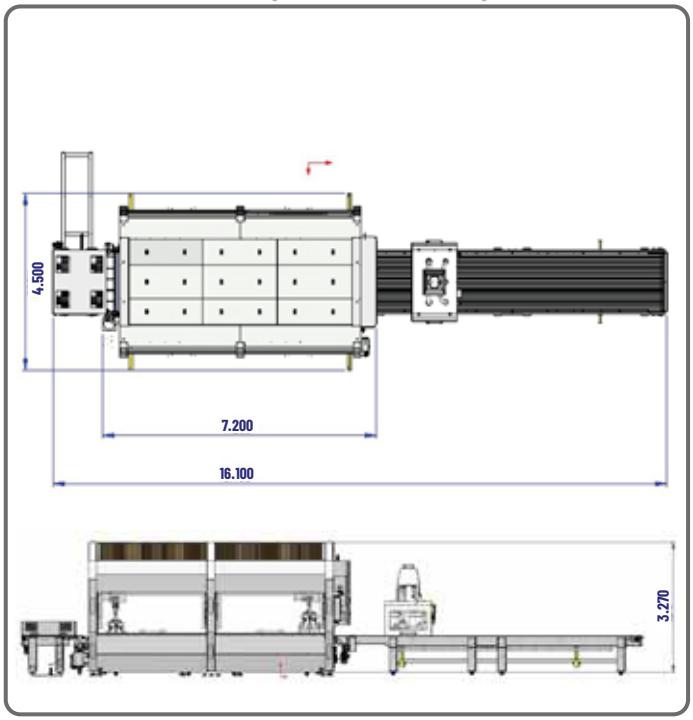
Kbotic Painting Robot can be optionally equipped with a water filtration system, ensuring reliable and uninterrupted UV painting operations.



WATER FILTRATION KBOTIC



STANDARD KBOTIC (DRY FILTRATION)



Technical Specifications	
Kbotic Weight:	11,750 Kg.
Kbotic Electricity Consumption:	24 kW/h.
Air Consumption:	1,250 L/ min. (Excluding 80 NL Guns)
Air Pressure:	6 bar.
Aspiration Flow Max.	18,000 m³/h. (Inverter Controlled)
Ventilation Flow:	18,000 m³/h.
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/sec.
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.

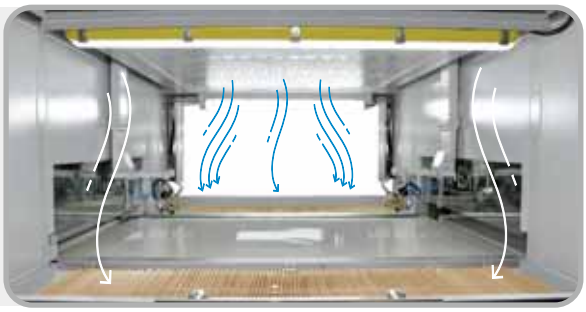
MOVING IN & OUT GLASS DOORS

The glass doors at the machine's entrance and exit move automatically (up and down) based on product thickness, helping to maintain stable pressure inside the cabin. This pressure stability prevents both internal overspray from escaping and external dust from entering the cabin. This feature is not available on equivalent machines. This method was developed and patented by Karabudak Engineering.



ASPIRATION AND VENTILATION SYSTEM

Overspray is extracted through a two-stage dry filtration system. 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.



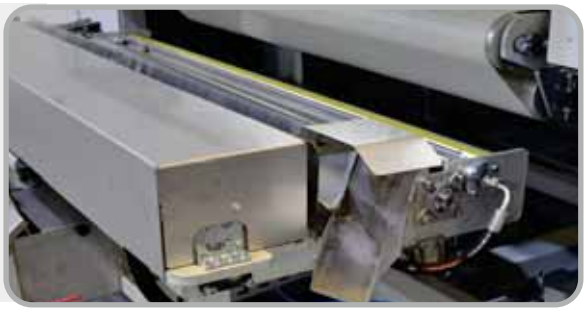
PRODUCT SCANNING SYSTEM(READING BARRIER)

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.



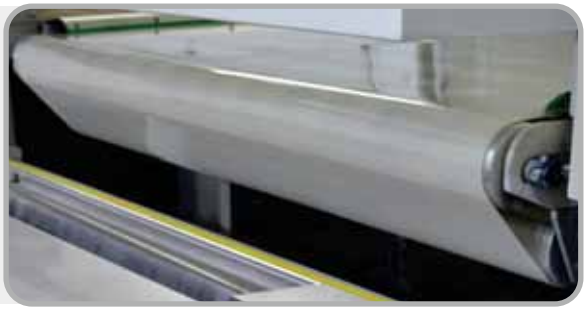
SPRAYING SYSTEM

The machine is equipped with two painting arms. The movement speed is automatically adjustable via a touchscreen.
The painting arms stand out with their design, which allows easy adjustment of gun height and angles, and their robust structure that moves on dual linear rails. One high-pressure pump and four high-pressure spray guns are included as standard. The system infrastructure supports up to 8 guns and 2 pumps if needed.



CONVEYOR BELT AND CENTERING SYSTEM

The KR BM Cevval paints products on a specially developed polyolefin belt that resists paint adhesion. Thanks to its efficient belt cleaning system, it uses significantly less thinner compared to its competitors. The belt is also equipped with an automatic centering mechanism, ensuring precise alignment on the high-accuracy carriage.



AUTOMATIC LUBRICATION SYSTEM

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

the **expert**
in wood surface
finishing

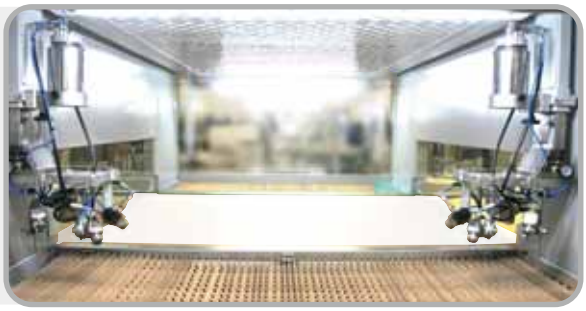
WATER FILTRATION SYSTEM

The water filtration system in Cevval purifies the cabin air by directing it through water curtain channels. It neutralizes chemicals and solvents, safely converting them into harmless gases before releasing them into the environment.



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 circiuts 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/h.
Working Width:	50mm-1300mm
Working Height:	3mm-100mm
Working Length:	300mm-Unlimited
Aspiration Fan Flow Rate:	12,000 m³/h.
Ventilation Fan Flow Rate:	12,000 m³/h.
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.

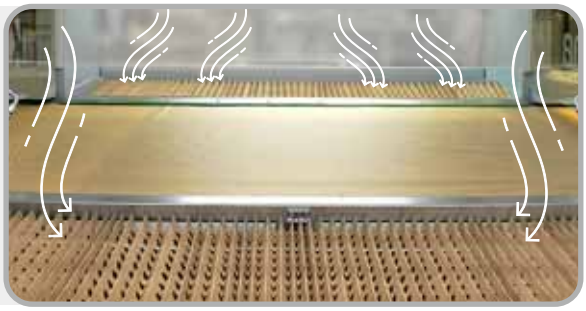
MOVING IN & OUT GLASS DOORS

The machine is equipped with two painting arms. The movement speed is automatically adjustable via a touchscreen.
The painting arms stand out with their design, which allows easy adjustment of gun height and angles, and their robust structure that moves on dual linear rails. One high-pressure pump and four high-pressure spray guns are included as standard. The system infrastructure supports up to 8 guns and 2 pumps if needed.



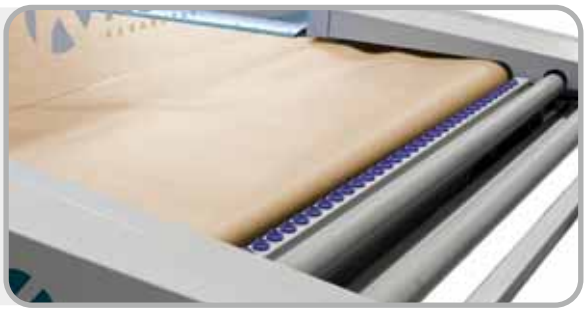
ASPIRATION AND VENTILATION SYSTEM

Overspray is extracted through a two-stage dry filtration system. 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 theF5 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

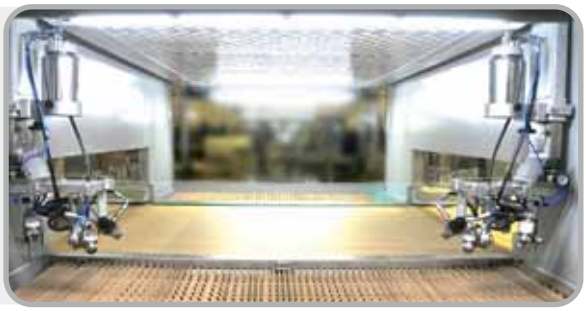
WATER FILTRATION SYSTEM

The water filtration system in Cevval purifies the cabin air by directing it through water curtain channels. It neutralizes chemicals and solvents, safely converting them into harmless gases before releasing them into the environment.



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 circiuts 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/h.
Working Width:	50mm-1300mm
Working Height:	3mm-100mm
Working Length:	300mm-Unlimited
Aspiration Fan Flow Rate:	12,000 m³/h.
Ventilation Fan Flow Rate:	12,000 m³/h.
Air Consumption:	1100 L/min.
Air Pressure:	6 Bars
Max.Robot Arm Speed:	150 m/min.
Max.Conveyor Speed:	8 m/min.
Optimum Painting Speed Range:	3-6 m/min.

" **discovery** of quality and economy in **painting** "



KR BM 1000 B

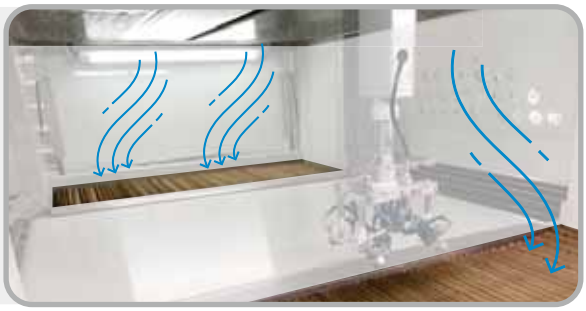
One Arm Reciprocating Spray Machine

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.



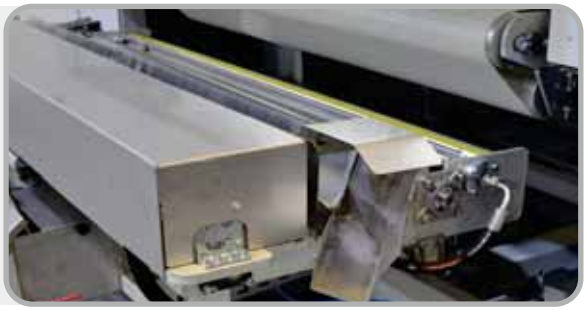
PRODUCT SCANNING SYSTEM (READING BARRIER)

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

The Automatic Lubrication System ensures smooth and long-lasting performance by regularly lubricating the linear rails and bearings on which the robot arms operate. This feature is included as standard.

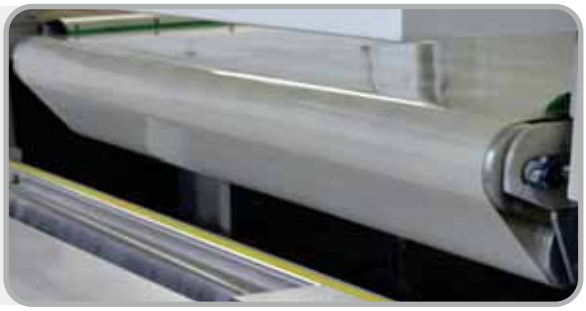
SPRAYING SYSTEM

The machine is equipped with 1 central painting arm. Movement speed can be adjusted automaticlly by touch screen. Arm speed can reach max. 220mts/min. 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.

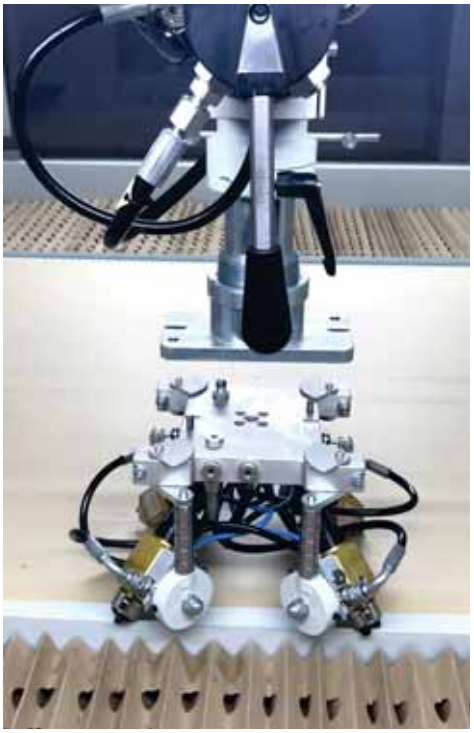


CONVEYOR BELT AND CENTERING SYSTEM

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

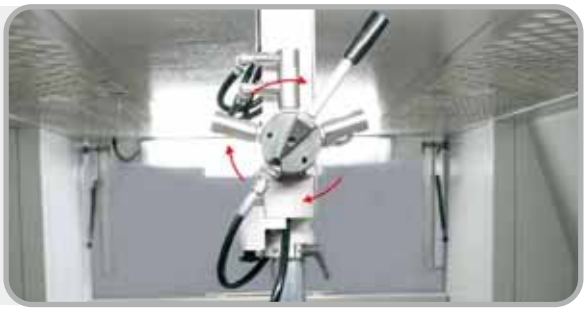






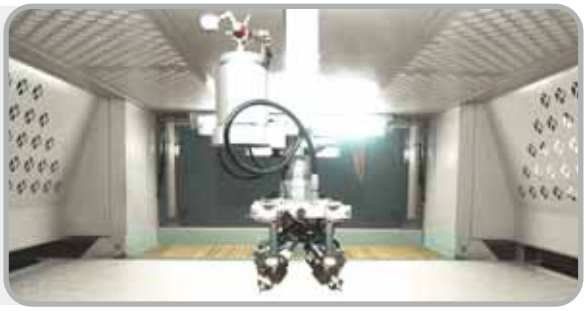
FAST COLOR CHANGING VALVE

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:	3,400 kg
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 m³/h.
Ventilation Fan Flow Rate:	12,000 m³/h.
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

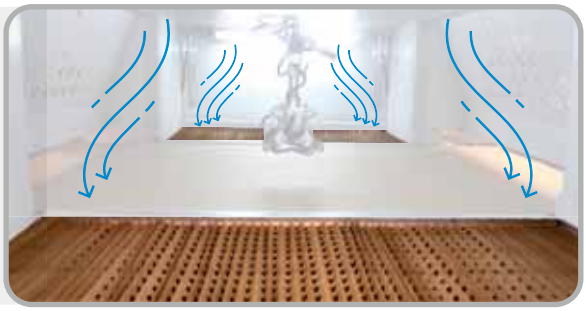
One Arm Reciprocating Spray Machine

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.



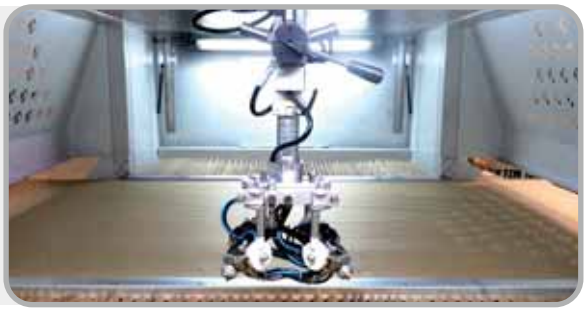
CONTROL SYSTEM

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 automaticlly 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 lineer bearings and guides.

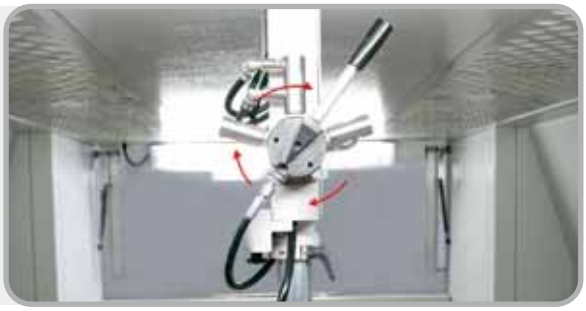
VENTILATION SYSTEM

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



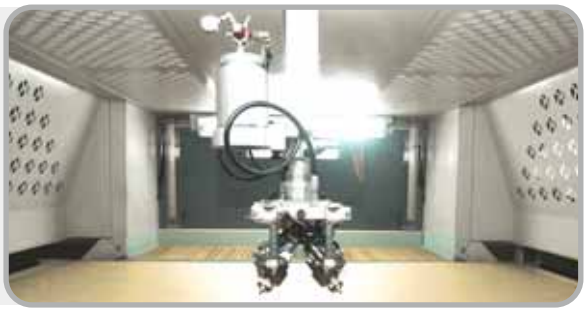
FAST COLOR CHANGE VALVE

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.



EXTRA HIGH PRESSURE PUMP

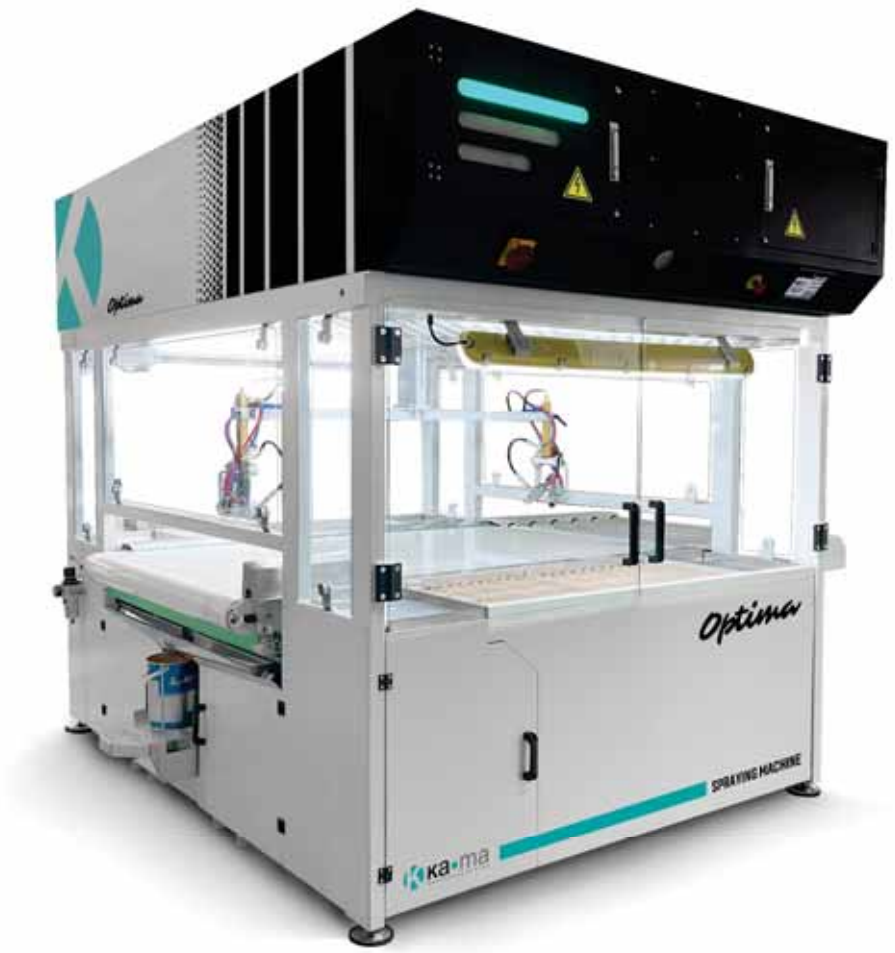
1 high pressure pump is provided as an option according to need.

EXTRA LOW PRESSURE PUMP

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

Technical Specifications	
Weight:	4,000 kg
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 m³/hour
Ventilation Fan Flow Rate:	12,000 m³/hour
Air Consumption:	1100 L/min
Air Pressure:	6 Bars
Max.Robot Arm Speed:	220 m/min
Max Conveyor Speed:	8m/min
Optimum Dyeing Speed Range:	3-6m/min

" compact and powerful "



KR BM Optima

Reciprocating Spray Machine

Watch Now

Optima, designed for the automatic painting of various panel-shaped products, is a user-friendly machine equipped with advanced technological features. Its belt-scraper paint recovery system enables up to 30% paint savings, allowing users to achieve high-quality and cost-effective results.

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.



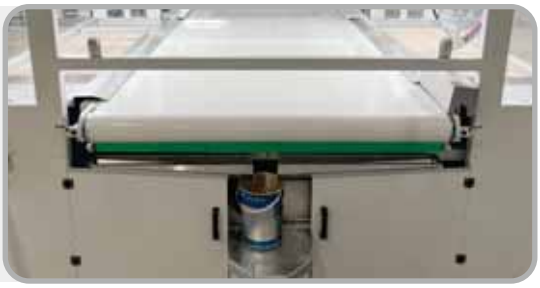
PRODUCT SCANNING SYSTEM

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 conveyor 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, which prevents paint from adhering to their bottom surfaces.



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.



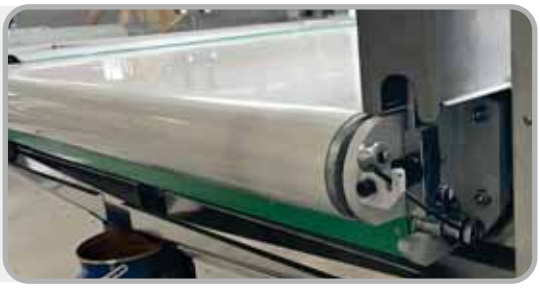
PAINTING SYSTEM

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 150 mts/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:	Unlimited
Aspiration Fan Flow:	8000 m3/h.
Ventilation Fan Flow:	8000 m3/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

" compact and powerful "



KR BM Optima K

Reciprocating Spray Machine

Watch Now

Optima is a highly advanced machine designed for the automatic painting of various panel-shaped products. It ensures high-quality and fast painting of materials such as wood, metal, glass, plastic, and fiber cement. Thanks to its paper belt system, no chemical waste is generated, and cleaning is much simpler.
It is an ideal painting solution for small and medium-sized producers.

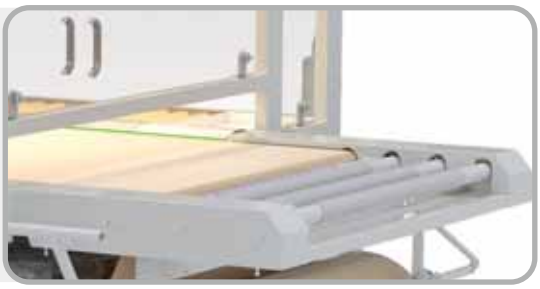
ASPİRASYON & VENTİLASYON SİSTEMİ

Kabin içindeki kirli havayı akordion filtrelerden geçirerek uzaklaştıran Aspirasyon Sistemi standart olarak sunulmuştur. Bu sistem aynı zamanda kabin basıncını ayarlayarak içerdeki optimum basıncı sağlar. Kabin içine temiz havayı F5 sınıfı filtrelerden geçirerek basan Ventilasyon Sistemi, standart olarak sunulmuştur.



ÜRÜN TARAMA SİSTEMİ

Okuyucu Sensör Sistemi'nde yer alan tarayıcı sensör barı sayesinde boyanacak ürünün şekil ve ölçülerini makineye tanıtarak yalnızca ürüne boyanın uygulanması sağlanır. Böylece kullanılan boya miktarını en aza indirerek malzemeden tasarruf sağlar.



KONTROL SİSTEMİ

Bütün fonksiyonları ve çalışma parametrelerini kontrol etmeye ve hafızaya almaya olanak tanıyan 7 " renkli dokunmatik ekran standart olarak sunulmuştur.



BOYAMA SİSTEMİ

Makine 2 adet merkezi boyama kolu ile donatılmıştır. Çalışma hızı, otomatik olarak dokunmatik ekran üzerinden ayarlanır.
Kol hızı max. 120 m/dk 'ya ulaşabilir. Portatif tasarımı sayesinde kolay tabanca değiştirebilmenize, açı ve yükseklik ayarı yapabilmenize olanak tanır. 1 adet yüksek basınçlı pompa ve 4 adet yüksek basınçlı tabanca standart olarak sunulmuştur.



BESLEME SİSTEMİ

Besleme Sistemi, temiz kağıt için ayarlanabilir frenli kağıt çözme cihazı ve püskürtme sonrası kağıdı almak için bağımsız motor tahrikli (tork kontrollü) sarma cihazından oluşur.



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.

the **expert** in wood surface **finishing**

Technical Specifications	
Weight:	2000kg
Dimensions:	L:3.200 mm W: 3.200 mm H: 2.450 mm
Power Consumption:	11.25 kW/h
Min. Working Width:	50mm
Max. Working Width:	900mm
Min. Working Height:	4mm
Max. Working Height:	80mm
Min. Product Length:	300mm
Max. Working Length:	Forever
Exhaust Fan Capacity:	8000 m3/h
Ventilation Fan Capacity:	8000 m3/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:	2-5 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.

STANDARD FEATURES

PAINT RECOVERY & BELT CLEANING SYSTEM

In the KR BM 600, paint accumulated on the polyolefin conveyor belt is automatically scraped and recovered for reuse through the paint recovery system. The cleaning unit washes the belt using either solvent or water (in case of water-based paints), while a rubber blade ensures the belt is completely dried.



CONVEYOR BANT AND CENTERING SYSTEM

It is equipped with automatic paint recovery and belt cleaningg system. Working speed is in the range of 5-25 meter per minute. The speed can be adjsuted 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.



CONTROL PANEL

A 7" color touch screen, which allows control and storage of all functions and operating parameters, is provided as standard.

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/min.
Part Size to be Painted (Max):	W: 350mm H: 250mm L: Unlimited
Dry Ventilation Flow (Max):	12000 m³/h.
Supply Air Pressure:	6 Bar
Number of Paint Guns:	4 Pcs.
Effective Bandwidth:	500 mm

glue machines



ka•ma
KARABUDAK MAKİNE

robotic Kbotic I • robotic Kbotic II • BM 1000 R

Glue Robot / Glue Machines

" strengthen your membrane **quality** with **Kbotic** "



Kbotic I
Glue Robot

Watch Now

Kbotic is equipped with a 3-gun Cartesian robot arm system designed to fully automate the gluing process prior to membrane pressing. Powered by Karabudak Machine's patented LASIMA® technology, the system detects each product and divides it into distinct segments-such as inner edge, outer edge, rustic area, and surface-then applies glue precisely to the designated zones. This advanced automation eliminates operator-dependent errors and ensures maximum precision and production efficiency.

CONTROL SYSTEM

The entire control and image processing functions of the machine are managed via a 15" Multitech IPC. This unit operates both Kavision image analysis and SQS quality control software. It stores up to 50,000 images, including both pre- and post-painting visuals, along with quality results, daily production data, and error logs. The system enables remote access for real-time monitoring and centralized data management. With the optional IoT integration, all production data can be tracked online, and automated daily reports can be generated and sent to operators.



PRODUCT SCANNING SYSTEM

Equipped with the patented LASIMA® detection system, products are scanned with millimeter-level precision and segmented automatically. This ensures accurate glue application and enhances overall bonding 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 | Glue Robot is equipped with a 3-gun Cartesian robotic arm system. It enables precise glue application to areas such as inner edges, outer edges, rustic patterns, and flat surfaces—each handled with dedicated guns and settings. Glue is supplied to the system via a low-pressure boiler, ensuring stable and consistent flow for each application point.

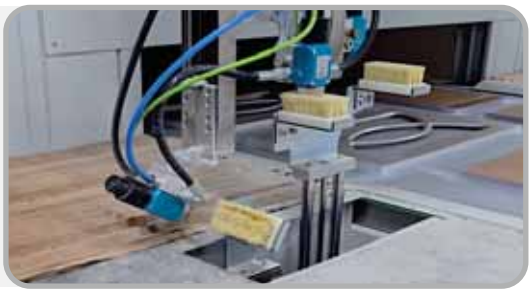


AUTOMATIC LUBRICATION SYSTEM

The Automatic Lubrication System ensures smooth and long-lasting performance by regularly lubricating the linear rails and bearings on which the robot arms operate. This feature is included as standard.

NOZZLE CLEANING BRUSH

The Kbotic I Glue Robot is equipped with an automatic nozzle cleaning brush, ensuring consistent glue quality and uninterrupted operation. The system removes dried glue residues from the nozzles at regular intervals, extending the service life of the spray heads and reducing maintenance time.



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.

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Technical Specification	
Weight: (for one arm)	11,750 kg.
Electricity Consumption: (for one arm)	24 kW/s.
Air Consumption: (for one arm)	1,000 L/min. (Excluding 80 NL Guns)
Air Pressure:	6 bar.
Maximum Suction Flow	18,000 m³/s. (Inverter Controlled)
Ventilation Flow	18,000 m³/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 m/min. (Inverter Controlled)

" strengthen your membrane **quality** with **Kbotic** "



Kbotic II

Glue Robot

Watch Now

Kbotic II is a solution developed to automate the gluing process prior to membrane pressing. It features six spray guns and two Cartesian robotic arms. Thanks to Karabudak Makine's patented Lasima technology, it detects products and divides them into segments such as inner edge, outer edge, rustic, and surface, applying adhesive perfectly to each area. This eliminates human errors and ensures high precision and efficiency.

CONTROL SYSTEM

All machine control and image processing are managed through a 15" Multitech IPC. The Kavision and SQS software are operated via this IPC. It stores up to 50,000 images of painted and unpainted parts, including quality results, daily production data, and fault records. It also enables remote data management and control. With the optional IoT system, all production data can be monitored online, and daily production reports can be sent automatically.



PRODUCT SCANNING SYSTEM

With the patented Lasima detection system, products are scanned with millimeter precision and divided into segments. This allows the robot to achieve perfect adhesive quality.



PAPER-NYLON CONVEYOR BELT

A vacuum conveyor belt is provided as standard in the Kbotic II gluing robot. This allows products to be glued on paper or nylon belts.



GLUE DISPLAY SYSTEM

The Kbotic II Gluing Robot is equipped with six spray guns and two Cartesian robotic arms. This allows faster application on inner and outer edges, rustic areas, and surfaces using different guns and settings. The glue supply to the guns is provided by a low-pressure tank system.

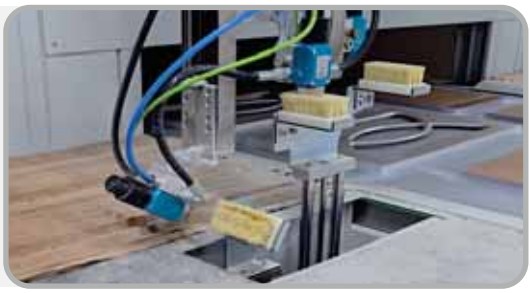


AUTOMATIC LUBRICATION SYSTEM

The Automatic Lubrication System ensures smooth and long-lasting performance by regularly lubricating the linear rails and bearings on which the robot arms operate. This feature is included as standard.

NOZZLE CLEANING BRUSH

The Kbotic I Glue Robot is equipped with an automatic nozzle cleaning brush, ensuring consistent glue quality and uninterrupted operation. The system removes dried glue residues from the nozzles at regular intervals, extending the service life of the spray heads and reducing maintenance time.



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.

the **expert** in wood surface **finishing**

Technical Specification	
Weight:	12,250 kg.
Electricity Consumption:	31 kW/s.
Air Consumption:	2,000 L/min. (Excluding 80 NL Guns)
Air Pressure:	6 bar.
Maximum Aspiration Flow	18,000 m³/s. (Inverter Controlled)
Ventilation Flow	18,000 m³/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 m/min. (Inverter Controlled)

" revolution in **membrane door** production "



KR BM 1000 R

Door Skin Gluing Machine

Watch Now

KR BM 1000 R is a high-speed, compact machine designed specifically for gluing door surfaces, offering a user-friendly experience for manufacturers. Its intelligent software infrastructure enables seamless integration with auxiliary units such as an automatic loading module and a deck oven—ensuring maximum flexibility and production efficiency.

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 m³/h.
Ventilation Fan Flow Rate:	12,000 m³/h.
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



ka•ma KARABUDAK MAKİNE

YZM 1300 • TZM Ejder • FZM 1300.2 • FZM 1300.1.1 • FZM 1300.1

Flexa 1006 • Speedy • KZM 5 • PM 10

Smart Surface Sanding Machines / **Flexible** Surface Sanding Machines / **Edge** Sanding Machines

" guarentee precision and **quality** with **Kavision** "



KR YZM 1300

Smart Surface Sanding Machine

Watch Now

This machine offers high-performance sanding for both intricate and flat surfaces. Using Kavision® image processing, it detects parts on entry and, with built-in AI, the KR YZM 1300 assigns tasks to four vibration sanding arms. With 150g pressure sensitivity and 12,000 RPM vibration, the system ensures excellent surface quality. It performs finishing before polishing and can evenly sand flat parts with up to 3 mm undulation-without damaging the bottom layer.

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.



OSCILLATING AIR JET UNIT FOR DUST REMOVAL

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

STANDARD FEATURES

HEIGHT ADJUSTABLE CONVEYOR

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

The Automatic Lubrication System ensures smooth and long-lasting performance by regularly lubricating the linear rails and bearings on which the robot arms operate. This feature is included as standard.

OPTIONAL FEATURES

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 m³/h.
Dust Collection Speed (max):	30m/h.
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

AI
Tremendous Surface Quality

Watch Now

Thanks to its flexible processing system, KR TZM 1300 performs high-precision sanding on flat panel surfaces and pockets. It is ideal for MDF, veneered cabinet doors, and wider elements such as shaker doors. In addition to Ejder's sensitive and adaptable design, it allows fine sanding (up to P3000 grit) on painted surfaces to achieve high-gloss results. With integrated image processing (Kavision®), Ejder detects incoming pieces accurately.
To achieve flawless surface finishing, KR TZM 1300 EJDER is equipped with four independent servo-controlled robotic arms, managed by artificial intelligence based on the process requirements. The system distributes workload intelligently among the arms. These orbiting arms, operating with 150 g pressure sensitivity and 12,000 rpm speed, deliver excellent surface quality. Guided by AI, the sanding motors and oscillation speed are adapted to the product type, ensuring consistent and precise results across all sections, including flaps and pockets.

sand with artificial intelligence!



Technical Specifications	
Weight:	4500 kg
Electricity Consumption:	27.5 kW/h.
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 m3/h.
Dust Collection Speed:	30 m/sec.
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

The Kavision® Image Processing Technology scans more precisely than other systems, ensuring optimal product quality. Its AI-based learning method allows you to select sanding areas via the interface-either across the entire surface or only in predefined zones.



CONTROL SYSTEM

All machine functions are controlled via a 15" Industrial PC (IPC). The IPC provides a centralized interface for managing and monitoring all operational parameters of the system.
Key features include: Continuous logging of deterioration rates, daily production data (e.g., quantity, surface area in m^2), and machine fault records. Remote access capability for diagnostics, monitoring, and control. Compatibility with optional IoT integration for real-time online tracking of production metrics. Automatic generation and transmission of daily production reports to the factory management system or designated personnel via email or SMS. This system ensures efficient data flow, traceability, and remote service support for enhanced operational reliability.



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 abrassion is achieved in this way.



MOVABLE BRUSH UNIT FOR DUST CLEANING

This unit removes sanding dust from the surface before the product exits the machine, ensuring a clean finish.



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 Automatic Lubrication System ensures smooth and long-lasting performance by regularly lubricating the linear rails and bearings on which the robot arms operate. This feature is included as standard.

" the **solution** for challenging **surfaces** "



KR FZM 1300.2

Brush Sanding Machine

Watch Now

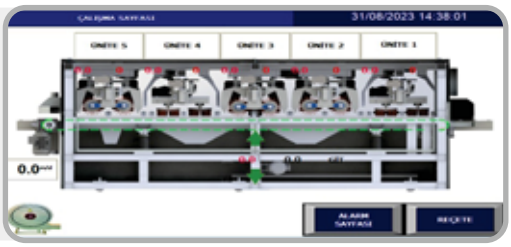
KR FZM 1300.2 which is developed to sand raw, primer or filling applied profiled, carved & flat surfaces achieves successful results even on the most difficult surfaces thanks to its flexible sanding feature.

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

STANDARD FEATURES

CONTROL SYSTEM

The control panel provides a user-friendly interface for setting key parameters, including the positioning of all units, conveyor belt speed, active unit selection, brush sander penetration depth, and the movement of independent orbital sanding units. Additionally, the panel can activate the optional IoT system, allowing real-time monitoring of production data and automatic delivery of 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.



HEIGHT ADJUSTABLE CONVEYOR

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.



OSCILLATING AIR JET UNIT FOR DUST REMOVAL

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

AUTOMATIC LUBRICATION SYSTEM

The Automatic Lubrication System ensures smooth and long-lasting performance by regularly lubricating the linear rails and bearings on which the robot arms operate. This feature is included as standard.

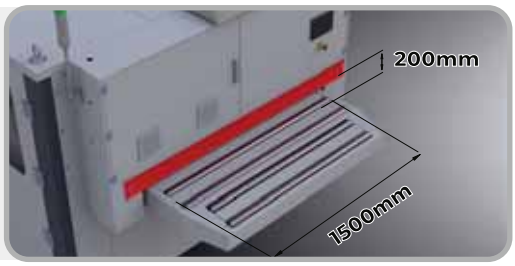
OPTIONAL FEATURES

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 m³/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

STANDARD FEATURES

CONTROL SYSTEM

The control panel provides a user-friendly interface for setting key parameters, including the positioning of all units, conveyor belt speed, active unit selection, brush sander penetration depth, and the movement of independent orbital sanding units. Additionally, the panel can activate the optional IoT system, allowing real-time monitoring of production data and automatic delivery of daily production reports.



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.

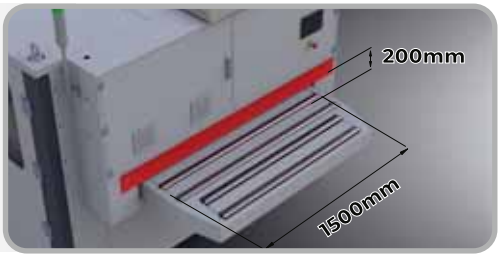
AUTOMATIC LUBRICATION SYSTEM

The Automatic Lubrication System ensures smooth and long-lasting performance by regularly lubricating the linear rails and bearings on which the robot arms operate. This feature is included as standard.

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 mostdifficult 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

STANDARD FEATURES

CONTROL SYSTEM

The control panel provides a user-friendly interface for setting key parameters, including the positioning of all units, conveyor belt speed, active unit selection, brush sander penetration depth, and the movement of independent orbital sanding units. Additionally, the panel can activate the optional IoT system, allowing real-time monitoring of production data and automatic delivery of daily production reports.



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.



HEIGHT ADJUSTABLE CONVEYOR

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.



OSCILLATING AIR JET UNIT FOR DUST REMOVAL

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

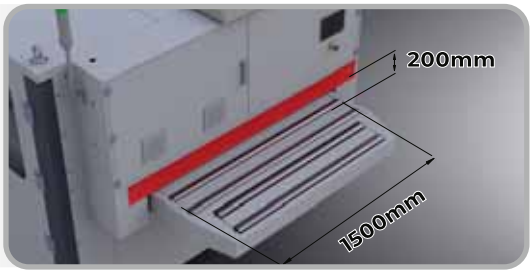
AUTOMATIC LUBRICATION SYSTEM

The Automatic Lubrication System ensures smooth and long-lasting performance by regularly lubricating the linear rails and bearings on which the robot arms operate. This feature is included as standard.

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

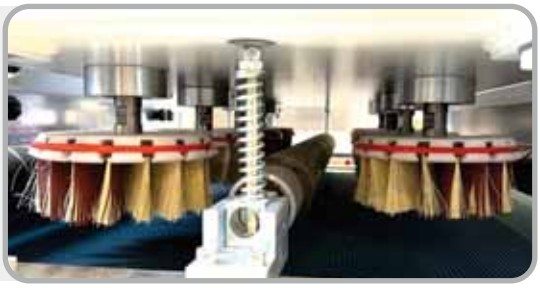
Brush Sanding Machine

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 includes 8 disc brush sanders arranged asymmetrically. Both sanding pressure and rotation speed can be continuously adjusted.



CROSS BRUSH SANDING UNIT

This unit features two brush sanding belts rotating in opposite directions. Pressure settings and rotation speeds can be adjusted continuously.



CYLINDRICAL BRUSH SANDING UNIT

This unit uses two cylindrical brush sanders rotating in opposite directions. Both pressure and rotation speed can be adjusted without steps.



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 m3/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 powerful "



KR KZM 3 Speedy

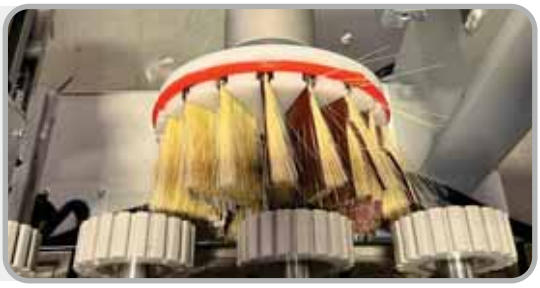
Edge Sanding Machine

Watch Now

KR KZM 3 Edge Sanding Machine is designed for edge sanding of doors, panels, and modular furniture components. With its flexible and adjustable sanding units, it delivers high-quality raw and primer sanding on both straight and curved edges.

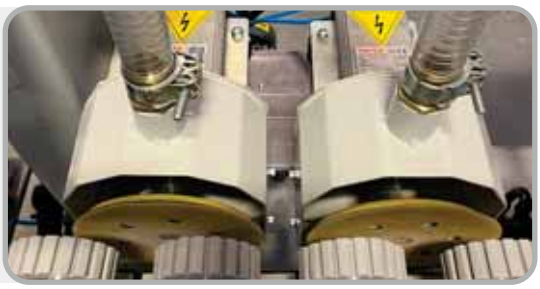
DISC BRUSH SANDING UNIT

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.



the **expert** in wood surface **finishing**

Technical Specifications	
Weight:	750 kg
Dimensions:	L: 2530 mm W: 928 mm H: 1800 mm
Electricity Consumption:	5 kW/h.
Dust collection requirement:	1000 m³/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

" **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

STANDARD FEATURES

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

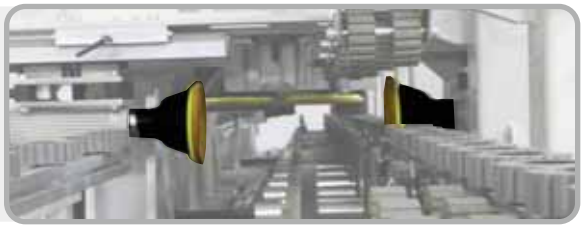
Watch Now

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 Lenght:	650 mm
Min. Product Width:	60 mm
Min. Product. Height:	6 mm
Max. Product Widt:	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.



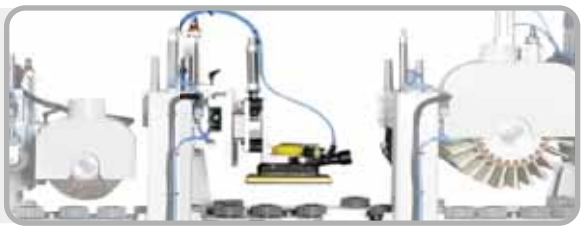
OSCILLATORY ORBITAL SANDER FOR TOP SURFACE

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 cylindirical 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



ka•ma KARABUDAK MAKİNE

UVKH 24 • FF 24 • MULTI-LEVEL OVEN • MULTI LAYER OVEN

UV Paint Drying / Water and Solvent Based Drying / Layer Oven / Multi Layer Oven

" **fast** dry, **high** gloss, scratch-**resistant** "



KR UVKH 24

UV Drying Oven

Watch Now

KR UVKH 24 is a next-generation UV drying oven designed for high-speed and high-quality performance. With its 24-meter length and inverter ballast technology, it enhances productivity while reducing 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/h.
Product Width:	100 - 1300mm
Product Height:	3 - 100mm
Product Length:	250 mm - Unlimited
Average Drying Speed:	1.8 - 4 m/min.

STANDARD FEATURES

CONTROL SYSTEM

All the settings can be controlled on a 7" touch panel. production data can be followed online and daily production reports can be monitored thanks to optional iot system.



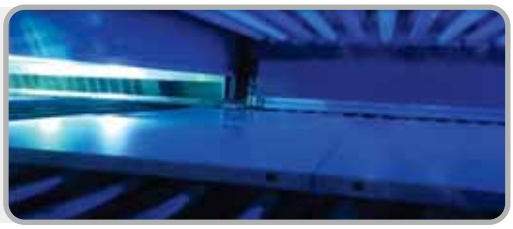
FLASH-OFF TUNNEL

TUNNEL is the place where the solvent on the product is exhuasted and paint spreaded on the sruface. Line speed can be adjusted independantly. By the help of laminar air, tunnel is kept dust-free. Temperature can be adjusted between 25-35°C degrees.



TL LAMPS

24 pieces "TL 3" and 24 pieces "TL 10" total 48 pieces TL Lampshas been placed in 4 meters tunnel. TL Lamps start the fotoreaction of the applied UV paint on the workpieces.



WIRE CONVEYOR BELT

TL-UV, excluding the lamp section, prevents paint contamination on the bottom surface of the products thanks to its wick conveyor belt system, thus increasing the application quality.



UV LAMPS

There are 2 Hg and 1 Ga total 3 UV Lamps in this tunnel. The system uses an electronic transformer controlled by PLC capable to continuously adjust the lamp power from %5 to %100. This new generation system offers energy saving and high quality to user.



OPTIONAL FEATURES

JET-AIR POWERFUL AIR UNIT

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



EXTRA FLASH-OFF

For UV Spray Paints that require longer flash-off in UV drying lines or to enable faster production, an extra Flash-off Tunnel of 8 meters in length.

U-SHAPE FLASH-OFF

It is the tunnel that provides the desired flash-off time easily for customers who have limited production areas and activates the travel of the workpieces in the "U" direction. It provides maximum efficiency with minimum space.

IR LAMBS

Reduce drying time on water-based products. Three pieces IR Lamps provide equal drying in all surfaces.

KR FF 24

Flash-Off Tunnel

Watch Now

KR FF 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.

Technical Specifications	
Max Part Width:	1.300mm
Max Part Height:	150mm
Heating Capacity:	65,000 kcal/hour
Electricity:	11 kW/h
Weight:	5,800kg
Line Speed:	8 m/minute
Dimensions:	W: 1.700mm L: 24.000mm H: 2.800mm

Multi-Level Oven

Watch Now

The Ka-Ma Multi Level Oven is a specialized system developed to ensure long-term and consistent drying of resin-based liquid chemicals.

It provides ideal conditions for resin coatings such as air-drying paints and varnishes to complete their flash-off period and, depending on their chemical composition, achieve powder dry, touch dry, sand dry, or stack dry stages.

This system can be used on various surfaces such as wood, glass, fiber cement, and metal, ensuring homogeneous and controlled drying at the proper temperature. The oven operates on the FIFO (First In, First Out) principle, ensuring order and efficiency in the production process.

The number of levels can be customized according to customer requirements. The heating method can be designed as electric or coil-based, depending on available customer facilities.



Multilayer Oven

Watch Now

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.





Technical Specifications

Max Working Length:	4,000mm
Max Working Width:	1,300mm
Max Line Speed:	10m/minute
Heating Capacity:	60,000 kcal/hour
Dimensions:	W: 5.000mm L: 7.000mm H: 3.000mm
Weight:	4,300kg
Electrical:	15 kW/h

auxiliary machines



ka•ma KARABUDAK MAKİNE

Airjet 1300 • Airjet 900 • OiM 4 • OYBM • OÇM 1300 • YTK 1300 • TKS 4000 • FT 1

Dust Removal / Automatic Stacking / Automatic Loading and Unloading / Automatic Turning / Conveyor / Foil Cutting Machine

KR TA AIRJET 1300

Double Side Panel Cleaning System

Watch Now

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

› **AirJet** (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 m³/h*
Dust Collection Rate (Max):	*30m/h*
Supply Air Pressure:	*6 Bar*
Supply Air Requirement:	*2800 L/min*

KR TA AIRJET 900

Double Side Panel Cleaning System

Watch Now

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

› **AirJet** (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	
Dimensions:	W: 1,850mm H: 2,665mm L: 1,920mm
Weight:	870 kg
Total Electricity Consumption:	2.5 kW/hr
Conveyor Operating Speed (Max):	19 m/min
Workpiece Width (Max):	900mm
Workpiece Height (Max):	180 mm
Workpiece Size:	Unlimited
Dust Collection Flow (Max):	10,000 m3/hr
Dust Collection Speed (Max):	30 m/hr
Feed Air Pressure:	6 Bar
Feed Air Requirement:	3,000 L/min

KR OiM 4

Automatic Stacking Machine

Watch Now

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

Watch Now

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/h.
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 allows panel-shaped materials to be automatically flipped for processing. The system safely inverts the panels so the opposite side can be painted without manual intervention, ensuring continuous operation. Thanks to its powerful motors, even heavy materials are transferred with ease. It operates in full synchronization with the integrated production line.



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

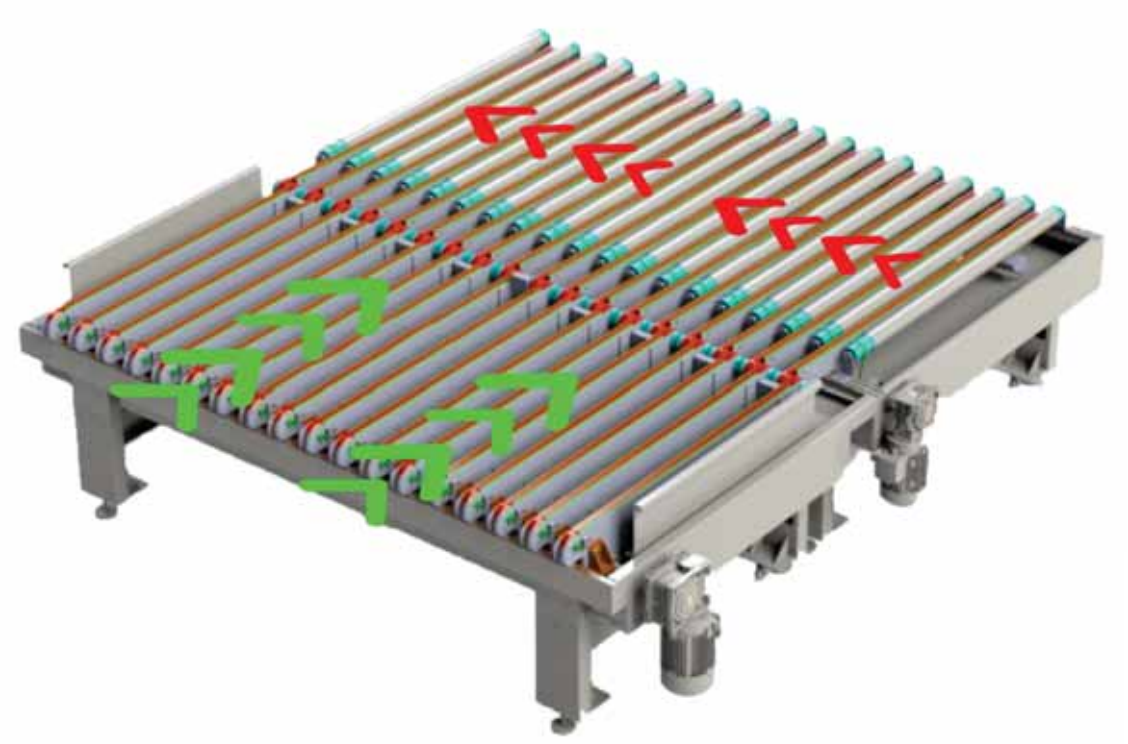
KR YTK 1300

Horizontal Transfer Conveyor

Watch Now

The horizontal transfer conveyor (YTK) is used to redirect materials from horizontal to vertical orientation. Especially for materials entering deck or rotary ovens, it feeds them sequentially into the dyeing system via the YTK unit.

By enabling smooth material flow, it prevents issues such as overlapping or reduced capacity caused by manual feeding or excessive spacing.



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/h.
Air Pressure:	6 bars

KR TKS 4000

Automatic Laying Conveyor

Watch Now

The TKS 4000 Automatic Laying Conveyor is an advanced conveyor system designed to automatically lay products-after glue application and drying in the multi-level oven-onto the press table, minimizing human errors.



Technical Specifications	
Max Product Length:	4,000mm
Min Product Length:	300mm
Max Product Width:	1,200mm
Min Product Width:	60mm
Max Speed:	10m/min
Electricity Consumption:	2.5 kW/h
Air Consumption:	30lt/min.
Air Pressure:	6 bars

KR FT 1

Foil Cutting Machine

Watch Now

Designed for the automatic removal of excess foils after membrane pressing, the KR FT 1 is equipped with high-precision image processing technology.
This intelligent system operates without the need for user intervention, offering speed, quality and reliability together in the production line.



Features

- Image processing-based detection system,
- Fully automatic foil cleaning function,
- High-precision cutting technology, User-friendly control panel,
- Minimum labor requirements, maximum efficiency.

Advantages

- Faultless cutting,
- Shorter processing times,
- Low costs, high productivity,
- Consistent quality standards.

Technical Specifications	
Weight:	1.500kg
Working Area:	4.000x1.300mm
Cutting Speed:	100m/min
Length:	5.200mm
Width:	1.650mm
Height:	1.650mm
Installed Electric Power:	8 kW/h
Air Consumption:	50 lt/min.



KASSIS PUMP

KASSIS PUMP

Superior design compared to its competitors, minimizing the pressure loss occurring in the upper and lower dead centers during the up and down strokes of the piston:

- Provides a smooth and consistent surface finish with more homogeneous film thickness distribution.
- Significant reduction in the number of rejected parts.
- Savings in coating material consumption.
- Reduced operating and compressed air costs.

PERFORMANCE

PERFORMANCE

A specially designed system offering superior sealing performance compared to its competitors: equipped with UHMWPE and PTFE seals that provide high chemical resistance, low friction coefficient, and excellent wear resistance.

- Superior sealing performance.
- Long service life.
- High resistance to paint and chemicals.

Specially designed valve base minimizing noise and icing:

- Quiet operation with low noise level.
- Minimal icing risk for uninterrupted performance.





SENSIBILITY

SENSIBILITY

Fluid section optimized for low and medium viscosity materials, featuring a precise ball control system:

- Fluid output capable of supplying multiple spray guns.
- Ideal structure for high-quality surface finish with air-assisted airless spraying.
- Continuous material feeding thanks to high suction capacity.
- Stable and consistent flow rate.
- Energy efficiency with minimal pressure loss.

SUSTAINABILITY



SUSTAINABILITY

High-quality stainless steel used in fluid-contacting parts:

- Easy and quick cleaning.
- Broad resistance to organic and inorganic chemicals, as well as colored paint pigments.

Integrated seal lubrication system extending piston seal life:
- Enhances sealing performance.
- Extends service intervals, ensuring continuous and long-lasting operation.

Tungsten carbide ball seats and ceramic-coated pistons:
- Extends service intervals for maximum operating life.
- Allows smooth pumping of abrasive and aggressive chemicals.

Lubrication-free air motor and valve system:
- Provides ease of use with low maintenance requirements.
- Ensures operational simplicity and reliability.



PUMP MODELS	95-25	95-41	190-25	270-17	
Description	*Value*	*Value*	*Value*	*Value*	*Unit – Metric (US)*
Pressure Ratio	*25/1.*	*41/1*	*25/1.*	*17/1.*	-
Maximum Air Inlet Pressure	*6(87)*	*6 (87)*	*6 (87)*	*6 (87)*	*bar (psi)*
Maximum Fluid Pressure	*150(2175)*	*246(3568)*	*150(2175)*	*102(1479)*	*bar (psi)*
Fluid Volume per Cycle	*95(3,21)*	*95(3,21)*	*190(6,42)*	*270(9,12)*	*cc (oz)*
Air Consumption (20 cycles/min at 8 bar air inlet)	*Not yet measured*	*Not yet measured*	*Not yet measured*	*440-450*	*l/dak (l/min (gal/mn))*
Max. Recommended Continuous Cycle Rate	*20*	*20*	*20*	*20*	*çevrim/dak(cycle/mn)*
Noise Level	*79*	*79*	*79*	*79*	*dB*
Fluid Output Volume	*5,7(4,28)*	*5,7(4,28)*	*11,4(3,04)*	*16,2(4,28)*	*l/dak(l/min) (gal/mn)*
Air Inlet Connection	*3/8" BSP (f) ve 1/4" BSP (f)*	*3/8" BSP (f) ve 1/4" BSP (f)*	*3/8" BSP (f) ve 1/4" BSP (f)*	*3/8" BSP (f) ve 1/4" BSP (f)*	-
Fluid Outlet Connection	*1/4" BSP (m)*	*1/4" BSP (f)*	*1/4" BSP (m)*	*1/4" BSP (m)*	-
Fluid Inlet Connection	*3/4" BSP(m)*	*3/4" BSP(m)*	*1" BSP(m)*	*1" BSP(m)*	-
Lower Seal Set	*PTFE, UHMW PE*	*PTFE,UHMW PE*	*PTFE,UHMW PE*	*PTFE, UHMW PE*	-
Upper Seal Set	*PTFE, UHMW PE*	*PTFE,UHMW PE*	*PTFE,UHMW PE*	*PTFE,UHMW PE*	-
Wet Parts	*Paslanmaz Çelik, Tungsten Karbid, PTFE, UHMWPE,Seramik*				-
Weight	*32(70.54)*	*36(79.36)*	*48(105.82)*	*50(110.23)*	*kg (lbs)*
Operating Ambient Temperature	*0-71 °C (0-160 °F)*	*0-71 °C (0-160 °F)*	*0-71 °C (0-160 °F)*	*0-71 °C (0-160 °F)*	*°C (°F)*
Air Motor Type	*HM125-100*	*HM160-100*	*HM160-120*	*HM160-120*	-
Pump Stroke	*100(3.93)*	*100(3.93)*	*120(4.724)*	*120(4.724)*	*mm(inç) (")*
Air Motor Valve	*ISO-1*	*ISO-2*	*ISO-2*	*ISO-2*	-

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