



Wood Finishing Systems



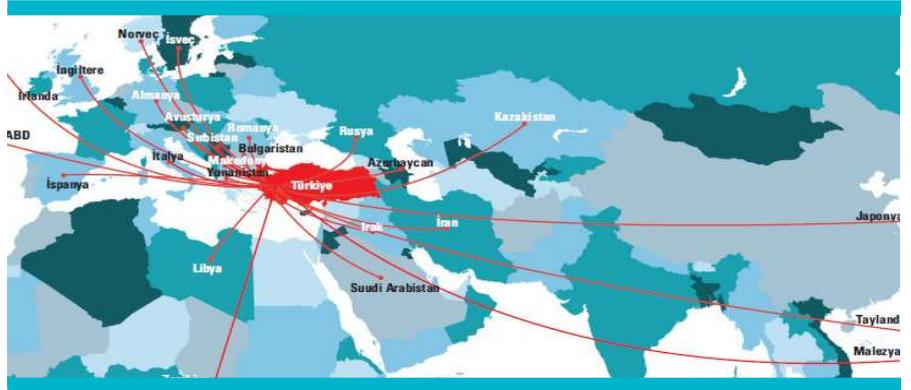
KARABUDAK MAKİNE;

Karabudak Makine designs, develops and produces machines and systems in order to increase the quality and the speed of the wood painting case which is the most important and the last process in Wood Industry. In 2010, founded with 100% Turkish capital by grounding on the quality and customer satisfaction, Karabudak Makine is maintaining its production journey in modern facilities with high technology equipment pool and experienced staff.



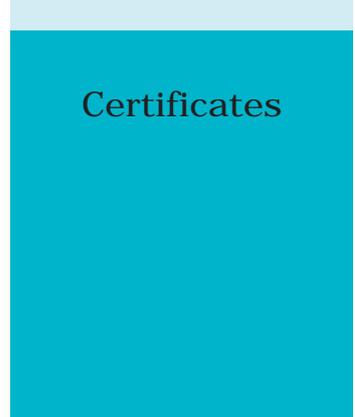
Karabudak Makine became the market leader in Turkey by growing up rapidly with its innovative approach. Now exporting %30 percent of its production with its export spurt which started in 2014.

ABOUT US



Karabudak Makine also provides engineering services such as turnkey painting facilities and production automatization to its customers by means of its expert staff, high technology equipment, innovation.







KR BM 1700 AUTOMATIC OSCILLATING SPRAYING MACHINE

KR BM 1700 has been designed and developed to achieve high quality finishing on any kind of panel material together with an ease of operation. Materials such as wood, glass, plastic, metal, fibercement etc. can be painted very fast with lower costs.



STANDARD FEATURES



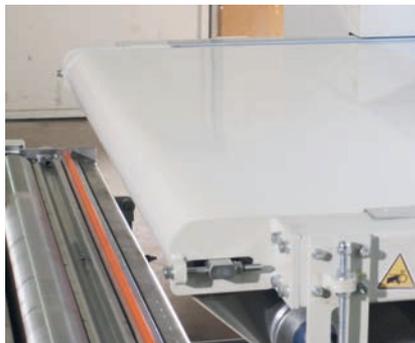
Dust Removal Unit with Antistatic Bar:

By the help of airjet nozzles and a high quality brush, dust is removed over the panel to be painted and the static electricity that consists after sanding is neutralised. Smart Airjet System economizes energy consumption by blowing only while the product is passing and stopping in the absence of product. It's height can be adjusted automatically for different thicknesses.



Laser Scanner:

Laser scanner ensures a milimetric precision on determining the section which will be painted. This system is designed and patented by our company



Polyolefin Conveyor Belt:

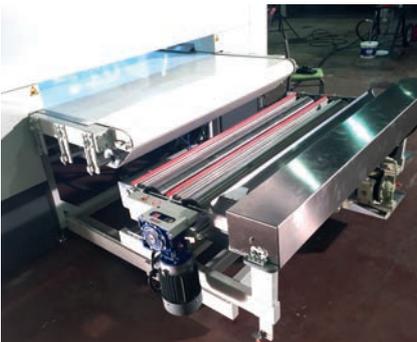
Products are painted on a special polyolefin belt which does not keep paint on itself. A clean painting operation is obtained with this.

KR BM 1700 AUTOMATIC OSCILLATING SPRAYING MACHINE



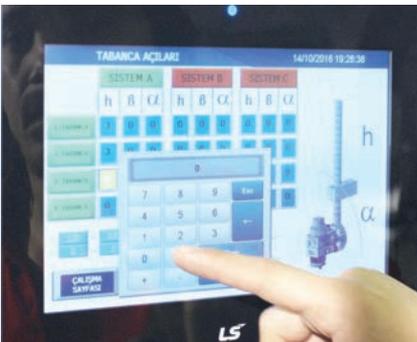
Paint Recovery System:

KR BM 1700 has a specially designed recovery system which does not mix any solvents while removing the paint from the belt. This allows customers to reuse the paint. Around %25 material saving is provided. Cleaning and maintenance are practical thanks to removable blades and mechanism.



Belt Cleaning System:

KR BM 1700 belt cleaning system provides a clean double side painting. Products never contact to dirty belt. It's economical, it only consumes 12 liters of thinner in 8 hours of working.

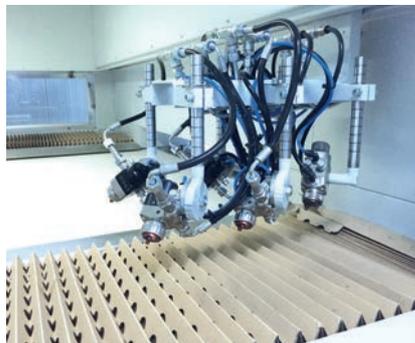


Painting System:

KR BM 1700 has an advanced painting system. 4, 8 or 12 automatic guns can be installed on it. System allows to use high or low pressure guns. System is adaptable for polyurethane, acrylic, water based, cellulosic, UV paints and varnish. By means of the software which is completely produced by Karabudak Makine, settings like product offset, paint amount, fan speed, belt speed, robot arm speed can be adjusted and saved to memory from the touch panel easily.

STANDARD FEATURES

**KR BM 1700
AUTOMATIC
OSCILLATING
SPRAYING
MACHINE**



Pump System:

Machine has 2 pumping circuit substructure as a standard. (3. Circuit is optional.) 3 pumps can be mounted to these circuits. With this feature, 3 different paint material can be used independently and without losing time.



Ventilation System:

Filtered air with EU5 standards is ventilated inside the cabin linearly. Dusty air inside the cabin is exhausted by passing through the accordion filters. Thus both inside the cabin and ventilation ducts remain clean.



Automatic Lubrication System:

System lubricates the reciprocating arm liner bearings and guides automatically within determined period. These time periods can be adjusted. This system obtains a very long and trouble-free operation time.

OPTIONAL FEATURES



Water Filtration System:

Culverts exhausting the dusty air in the cabin can be produced with water curtain. Thus cabin inside and ventilation ducts are kept more clean. Emission is reduced.



Optional Circuits:

12 guns and 3 pumps can be mounted to the machine. This allows to change 3 different colors quickly and easily.



Wider Painting Capacity:

KR BM 1700 can be produced wider as able to paint parts up to 1500 mm width



KR BM 1700 AUTOMATIC OSCILLATING SPRAYING MACHINE

TECHNICAL SPECIFICATIONS

| | |
|--|--|
| Dimensions | : L: 5500 mm W: 3200 mm H: 2800 mm |
| Total Weight | : 4000 Kgs |
| Total Electrical Demand | : Dry Type : 16.5 Kw/h, Water Type Filtration: 18.7 Kw/h |
| Air Consumption | : 60 L/m (Excluding Guns) |
| Max. Operating Speed | : 7 m/min |
| Max. Robot Arm Speed | : 120 m/min |
| Max. Product Height | : 100 mm |
| Max. Product Width | : 1300 mm |
| Max. Product Length | : Limitless |
| Min. Product. Height | : 1 mm |
| Min. Product Width | : 10 mm |
| Min. Product Length | : 150 mm |
| Aspirated Air From the Environment | : 12000 m3/h |
| Pumped clean air into the Environment: | 12.000 m3/h |
| Area of Usage | : Doors, door cases, door trims, modular furniture, kitchen & bathroom furniture, flat and carved cabinet doors. |
| Painting Materials to be Sprayed | : Polyurethane, water based, acrylic, cellulosic, Uv primer & dye and varnishes. Water & solvent based ground colorants. |

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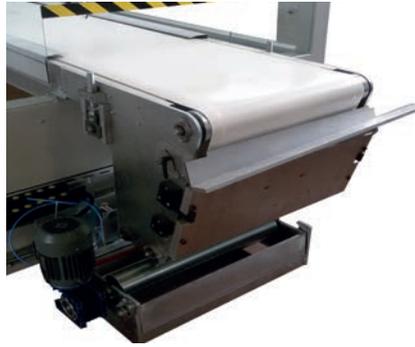


KR BM 600 PROFILE PAINTING MACHINE

KR BM 600 is a new generation profile painting machine which differs from its equivalents with its wide cabin, paint recovery system, economy, adaptability to automatic loading & unloading systems.



STANDARD FEATURES



Conveyor Belt with Paint Recovery System

Paint recovery system which provides material saving between %20 to %30 comes in to use with KR BM 600 as a standard.



Pump & Guns

KR BM 600 has 1 diaphragm pump and 4 low pressure automatic guns as a standard. Gun positions can be adjusted easily.



Cartridge Exhaust Filter

Removable Cartridge Exhaust Filter provides convenience for cleaning cabin inside and gun adjustments.

OPTIONAL FEATURES



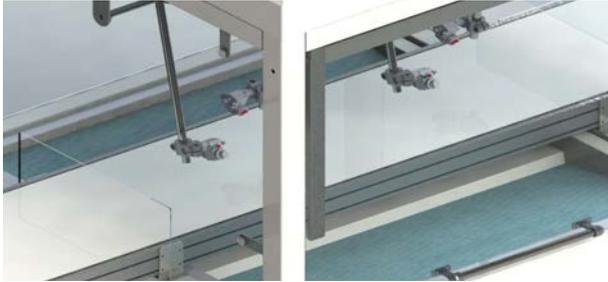
High Pressure Pump & Guns

KR BM 600 Profile Painting Machine's substructure design is convenient to install high pressure pump and guns. 4,6 or 8 guns can be installed optionally.



Automatic Loading & Unloading Units

Automatic loading & unloading units can be added to work in tandem with KR BM 600 Profile Painting Machine.



Water Filtration

KR BM 600 Profile Painting Machine can be produced with water filtration system optionally. This system both increases the product quality and protects the environment by reducing emission.

TECHNICAL SPECIFICATIONS

| | |
|----------------------|--|
| Dimensions | : W: 1904 mm L:4200 mm H: 2000 mm |
| Weight | : 1200 kg |
| Electric Consumption | : 5,25 Kw/h |
| Direction | : Right |
| Max. Working Speed | : 30m/min |
| Max. Product Width | : 300mm |
| Max Product Height | : 250 mm , |
| Aspiration Fan Debit | : 12000 m3/h, |
| Areas Of Usage: | : Door Case, Door Frames, Baseboard, Wood Profiles |





KR UVKH 24 UV DRYING SYSTEM

KR UVKH 24 is a quality and speed oriented new generation UV Drying System. It quickens the user's work with its 24 meters length and with its inverter balast technology it economizes energy consumption. Considering these features KR UVKH 24 becomes an inseperable part of furniture painting.



STANDARD FEATURES



Sliding Input Conveyor:

Sliding Input Conveyor is a standard equipment of KR UVKH 24. This conveyor serves as a bridge between Spraying Machine and Flashoff tunnel.



Flashoff Tunnel:

As a standard feature; 16 meters of flashoff tunnel is the place where the solvent on the product is taken out and where paint spreaded on the surface. Its length can be extended optionally. It enables to do flashoff with a speed of 2.5 m/min. Air conditioning plant upon the tunnel which can produce 60.000Kcal heat energy blows 30C-35C hot air inside the tunnel continuously. There is also an exhaust system which removes the dirty air inside the tunnel.



TL Lamp Tunnel:

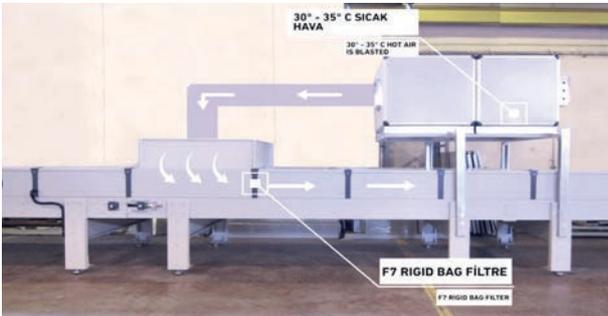
There are 24 pieces “TL 3” and 24 pieces “TL 10” total 48 pieces TL Lamps inside this tunnel. These lamps prepares the paint to UV Lamps by activating the photo initiators.



UV Lamp Tunnel:

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



Air Conditioning Plant with Electric Resistance:

It's a system for the customers who does not have a hot water supply.



Extra 4 meters Flashoff Tunnel:

Extra length of the flashoff would increase the speed and the quality.

Stable Output Conveyor:

It is designed for output of the KR UVKH 24 which enables to take the work piece from the line easily. It can be produced 2,3 or 4 meters according to demand.

TECHNICAL SPECIFICATIONS

Applicable Materials

: UV or PU fillings, primer & lacquer. Water or solvent based paint.

Areas of Usage

: Modular & Standard Furniture. Kitchen & Bathroom cabinet doors. Doors, door frames & door sills.

Product Quality

: Semi-dull, high gloss – lacquer paints, varnish, primer & ?lling applications

Max. Dimensions of Item to be Lacquered : L: Limitless W: 1300 mm H: 70 mm

Min. Dimensions of Item to be Lacquered : L: 250 mm W: 100 mm H: 10 mm

Average Drying Speed : 3 – 4 mt/min

Total Electrical Demand (All Units % 100 On) : 65 Kw/h

Total Dimensions of Oven : L: 25.500 mm G: 2000 mm H: 1400 mm



KR YZM 1300 SURFACE SANDING MACHINE

KR YZM 1300 is a very sensitive sanding machine which is developed to sand raw, primer or filling applied flat and carved surfaces of doors, cabinet doors and modular furnitures. It also enables to perform delustering sanding successfully before polishing.



STANDARD FEATURES



Piano Type Scanner:

This system which consists of 52 inductive reader, obtains a high precision mapping and smart abrasion.



Reciprocating Orbital Sander System:

There are 8 moving orbital vibration sanders in this unit. Their pressing force and distances can be adjusted automatically. By the help of high precision mapping; these independent working units do smart abrasion and obtain a high quality surface by considering the edges of the product and thickness differences on the surface.



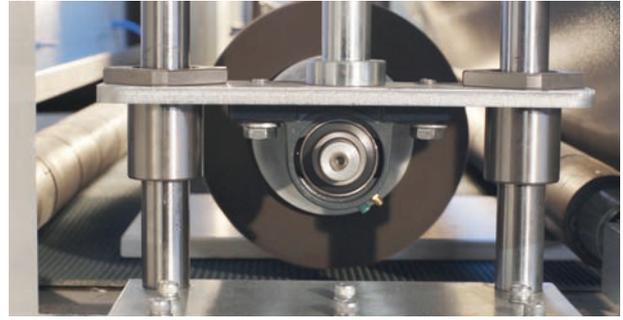
Oscillatory Disc Brush System:

This system consists of 9 brush sanders. It's oscillated and disc brushes' rotating speed & height can be adjusted automatically. Raw or primed carved, rustic work surfaces can be sanded successfully by these brush sanders. Easily replaced sanders provide convenience to the user.



Oscillatory Cylinder Brush System:

This system consists of 2 cylinder brush sanders. It's oscillated and disc brushes' rotating speed & height can be adjusted automatically. It provides sanding raw or primed carvings on the product surface.



Nonwoven Flap Cylinder:

Nonwoven flap removes the sanding scratches from the surfaces and does superfinish.

OPTIONAL FEATURES



Steady Vibration Sanders:

There are 6 oscillatory orbital sanders in this unit. Their pressing force and distances can be adjusted automatically. It obtains to make the surface homogeneous with delustering sanding before polishing and also can be used for primer sanding.



Wider Sanding Capacity:

KR YZM 1300 can be produced wider as able to sand parts up to 1500 mm width.

TECHNICAL SPECIFICATIONS

| | |
|-------------------------|--|
| Dimensions | : L: 5490 mm W: 2440 mm H: 1900 mm |
| Total Weight | : 5310 Kgs |
| Total Electrical Demand | : 20 kw/h |
| Air Consumption | : 260 L/m |
| Max. Operating Speed | : 8 m/min |
| Max. Robot Arm Speed | : 120 m/min |
| Max. Product Height | : 70 mm |
| Max. Product Width | : 1300 mm |
| Max. Product Length | : Limitless |
| Min. Product. Height | : 3 mm |
| Min. Product Width | : 150 mm |
| Min. Product Length | : 350 mm |
| Sand Paper Grit Range | : P80 – P2000 |
| Operation Direction | : Left |
| Areas of Usage | : Doors, Cabinet Doors, Carved or Flat Furnitures. |

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KR KZM 5 - EDGE SANDING MACHINE

KR KZM 5 is suitable for sanding door edges, cabinet door edges and modular furniture parts' edges.

With its flexible and moving sanding units, it can sand raw or primed flat, chamfered, rounded edges efficiently.



STANDARD FEATURES



Flexible Belt Sander:

This unit is usually used for erasing saw traces on raw edges. By changing the pressing pad, it's can be used for rounded edges too. Angle, distance, pressing force can be adjusted manually. It oscillates while working. Sanding belt can be replaced easily.



Oscillatory Orbital Sanders:

This unit consists of 2 orbital sanders and it's suitable for sanding raw or primed flat edges. It oscillates while working. Distance, pressing force can be adjusted easily.



Disc Brush Sanders:

This unit sands the radius or corner of the edges. Height, distance and rotating speed of the brush sander can be adjusted.



Nonwoven Flap:

This unit removes the sanding scratches from the surfaces and does superfinish. Height and distance can be adjusted.

OPTIONAL FEATURES



Extra Belt Sander:

Optional if the customer will sand chamfered or rounded edges mostly. It can be used on some easy profiles.



Extra Cylindric Brush Sander:

It is developed for some splined cabinet door edges.

TECHNICAL SPECIFICATIONS

| | |
|-------------------------|------------------------------------|
| Dimensions | : L: 4340 mm W: 1550 mm H: 1760 mm |
| Total Weight | : 1400 Kgs |
| Total Electrical Demand | : 6 kw/h |
| Air Consumption | : 650 L/m |
| Max. Operating Speed | : 15m/min |
| Max. Product Height | : 70 mm |
| Max. Product Width | : 2100 mm |
| Max. Product Length | : Limitless |
| Min. Product. Height | : 3 mm |
| Min. Product Width | : 150 mm |
| Min. Product Length | : 150 mm |

KR PM 8 PROFILE SANDING MACHINE

KR PM 8 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. All units are PLC controlled and movable. This features prevent both edge rounding of the heading & end of the profiles and paint removal.



STANDARD FEATURES



Oscillatory Orbital Sanders:
There are 2 oscillatory orbital sanders for profile edges and 1 oscillatory orbital sander for the top surface of the profile as a standard on the KR PZM 8. 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.



Steady Vibration Sander Motor:
There is 1 vibration motor without oscillation as a standard on KR PM 8 in order to sand door frames profile recesses. 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:

This unit is also PLC controlled and its height, revolution and distance can be adjusted easily.



Steady Cylindrical Brush Sander:

There are 2 cylindrical brush sander units as a standard on KR PM 8. 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.

OPTIONAL FEATURES



Mop Sander

Mop sanders can be easily added to KR PM 8 if the customer would like to sand special splined profiles.

TECHNICAL SPECIFICATIONS

| | |
|-------------------------|--|
| Dimensions | : L: 4280 mm W: 1600 mm H: 1650 mm |
| Total Weight | : 2485 Kgs |
| Total Electrical Demand | : 6 kw/h |
| Max. Operating Pressure | : 6 Bars |
| Max. Operating Speed | : 15m/min |
| Max. Product Height | : 100 mm |
| Max. Product Width | : 250 mm |
| Max. Product Length | : Limitless |
| Min. Product. Height | : 6 mm |
| Min. Product Width | : 60 mm |
| Min. Product Length | : 650 mm |
| Area of Usage | : Door Case, Door Trim, Baseboard, All types of profiles |





PAINTING BOOTHS WITH WATER CURTAIN:

Water Curtain Painting Booth enable to paint products such as cabinets, chairs, armchairs which are not disassembled. Its dimensions can be designed according to requirements and space. Robot arm and automatic dosing can be coupled optionally.



POSITIVE PRESSURISED DRYING ROOM;

It is designed for keeping the products dustless while curing after automatic or manual painting. Heating or cooling systems can be installed optionally.



AUTOMATIC LOADING, UNLOADING AND TRANSFER SYSTEMS;

These systems are designed to load the products to painting or sanding machines or to unload and pile the products after painting or sanding. Special designs can be made according to process.



Painting Facilities and Engineering Solutions





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