

SMART SURFACE SANDING

KR YZM 1300

Smart Surface Sanding Machine

Guaranteed precision and quality through intelligent image-processing sanding.



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

/ STANDARD FEATURES

■ Image Processing Technology

It ensures the perfect sanding of your products by providing much more precise scanning compared to other scanning systems. The technology employs a learning method, allowing you to specify the areas on the part where sanding should 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). It stores all images to be sanded, daily work data and error records, and offers remote data management and control. 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 the pressure arms for intelligent sanding.



■ Oscillatory Disc Brush System

This unit comprises nine oscillating disc brushes with automatic height and speed adjustment, facilitating sanding of raw and primer coats on product indentations.



/ STANDARD FEATURES

■ Oscillatory Cylinder Brush System

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



■ Movable Air Jet Unit for Dust Removal

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

■ Movable Conveyor Table

The conveyor is adjustable in height and can be automatically set to the desired part thickness with 1 mm precision, via the touch screen. Maximum operating speed is 8 m/min.



■ Nonwoven Flap Cylinder

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



■ Automatic Lubrication System

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

/ OPTIONAL FEATURES

■ Cross Brush System

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



/ TECHNICAL SPECIFICATIONS

Model	KR YZM 1300
Type	Smart Surface Sanding Machine
Weight	5,720 kg
Dimensions	L 6,140 × W 2,330 × H 2,350 mm
Total Electricity Consumption	38.5 kW/h
Conveyor Working Speed (max)	11 m/min
Workpiece Width	150 – 1300 mm
Workpiece Height	3 – 165 mm
Workpiece Length	350 mm – Unlimited
Dust Collection Flow Rate (max)	25,000 m³/h
Dust Collection Rate (max)	30 m/h
Supply Air Pressure	6 Bar
Supply Air Requirement	500 L/min
Sandpaper Grit Range	P80 – P2000

SUPPLIER

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