

ROBA Profi Edge

Edge sanding machine



Double brush can be configured in different tool combinations: two stacked chamfered tools.



Double brush can be configured in different tool combinations: chamfered and cylindrical tool.

Operation areas

The edge sanding machine has been developed for MDF, wood, lacquer and primer sanding.

Customers:

- Joiner's workshops
- Industrial plants
- Stairs manufacturers
- Cabinet door producers
- Window producers
- Tabletop production

Sanding method

The ROBA Profi Edge is a solution for sanding profiled edges and panels.

It is available in three versions: 1,100mm, 2,400mm and 3,600mm working area.

The machine uses the typical MB double brush unit, which is attached to a mobile support that

moves in the background along the stationary workpiece.

Extra-large sanding tools, which rotate frequency-controlled clockwise and counterclockwise, ensure an excellent sanding of the workpieces.

A jump control avoids over rounding the corners and the unit oscillation ensures that the abrasives are fully utilized. A pneumatic pressure bar clamps the workpiece, which is particularly advantageous for large workpieces, as the parts do not have to be moved. Rather, the workpiece rests and the sanding unit moves in the encapsulated machine, creating a safe and dust free environment.

The tools, which rotate in two directions, ensure that the end-grain areas of solid workpieces are perfectly sanded. When sanding MDF, protruding fibers are removed and the surface is smoothed. In both cases the further processing in the painting department is made considerably easier.

ROBA Profi Edge

Your move to perfection



ROBA PROFI EDGE IN ACTION

Simply scan and watch the video!

ROBA Profi Edge

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Different tools can be flexibly mounted on the 200mm long spindles: A 200mm high cylindrical brush or two 100mm stacked tools, which can be equipped with different grits.

Also tools with a chamfered sanding area are used for complicated edge contours. The combination of these options makes the machine very flexible.

Which tool is used for a specific process is stored in the sanding program and will be pneumatically positioned.

The working cycle is typically executed in a way that e.g. a cabinet door, starting with the short side, is rotated by 90° after finishing a given edge till the four-sided sanding is complete.

The actual sanding position is approached in high-speed mode, while the sanding area itself is passed at a programmed processing speed.

Sanding can be done in different ways:

- Sanding starting from the right parking position to the left, then back to the parking position in high-speed mode.
- Sanding starting from the right parking position to the left, waiting in this position until the workpiece has been rotated, to sand on the way from left to right.
- Sanding starting from the right parking position to the left, to sand again on the way from left to right.
- Sanding starting from the right parking position to the left, waiting in this position until another tool on the spindle has been called up in order to sand now with the new tool on the way from left to right.

These functions can also be used if you place and clamp several workpieces next to each other. This makes sense if the sum of the long sides does not exceed the working area and increases productivity.

