

ROBA REP

Edge sanding machine

Operation areas

The ROBA REP sanding machine has been developed for MDF, white wood, primer and intermediate lacquer sanding of edges.

- Joiner's workshops
- Industrial plants
- Cabinet door producers
- Door production

Sanding method

Edge sanding of solid wood and MDF doors in furniture and interior construction industry is a major challenge in terms of results and effectiveness. Straight or profiled workpiece edges, with constantly changing workpiece sizes, need to be processed. The new ROBA REP edge sanding machine from MB addresses this task with a completely new concept. It is developed with the aim of sanding furniture and interior doors, starting at lot size one, with high quality and high throughput. Even large quantities, which come from mod-

ern CNC-controlled production machines, can be handled by the ROBA REP. For this purpose the sanding units, which consist of a left and right double brush, are placed in a short, fully encapsulated machine body. The sanding brushes turn clockwise and counterclockwise to ensure that all wood fibers are safely cut. A brush head jump control ensures that the part corners are not rounded, an automatic up and down oscillation ensures that the abrasives are always fully utilized. Depending on the contour of the edges, the aggregates can be arranged vertically or at an angle. By means of an automated width detection the workpieces are automatically measured, passing the machine inlet and the processing units are positioned with high-speed servo axes accordingly. This means that all parts can be fed to the machine indiscriminately and the use of the MB brush technology eliminates the need for any additional set-up work.

Since the actual sanding cell is very short, the workpieces leave the work area very quickly, which makes the machine immediately ready for a new workpiece. Thus, large quantities can be processed with very short cycle times.

Four-sided sanding is done in combination with a fast material return system. After the workpiece left the sanding cell, they are laterally pushed by a high-speed servo pusher onto conveyor belts that return parts back to the operator. He rotates the parts by 90° and repeats the process to sand the missing two edges. Now the pusher system, which has previously moved the parts onto the return transport system, can be used to place them side by side to be processed directly into a subsequent machine.

Large cabinet door producers have already successfully implemented a line in combination with the ROBA REP, ROBA Tech and ROBA Anti Dust.

The latest development is the combination of the ROBA REP with the automated high-performance double end tenoner ROBA Fusion from MB Maschinenbau.

Advantages of the ROBA REP principle

1. Fully automated sanding process for edges.
2. Loading the machine without any consideration of part dimensions.
3. No set-up work.
4. High throughput.
5. Perfect sanding results thanks to MB brush technology.



ROBA REP sanding machine with automatic width detection on the infeed belt which initiates the high-speed sanding aggregate positioning.



A right and left double brush unit is responsible for the sanding of the edges.

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Your move to perfection