

ROBA BIG

Surface sanding machine

The ROBA BIG line is offered with different sanding head configurations:



Double Brush



Double Brush –
Double Brush



Double Brush –
double brush 20°



Cross sanding belt –
Double Brush

Operation areas

The new developed ROBA Big brush sanding machine contains sanding drums with a diameter up to 630mm and is constructed for the following applications:

- Sealer and lacquer sanding
- White wood sanding
- MDF sanding

Sanding method

The main idea of the ROBA Big principle is to avoid the main disadvantage of all today known drum-based brush sanding machines: Those who work normally with sanding drums with a diameter of about 310mm are only in a very small area in touch with the workpiece, about 30mm. Only in the vertex of the tool a sanding process is possible. To compensate the very small sanding area, those sanding systems must increase their rotation speed to a high level. Only this way they have a chance to be effective. But this results in a “hard touch” of the sanding paper on the parts. This

results in an aggressive behavior on the edges, high temperatures and wavy optic of the material. Hurt edges and totally denibbed surfaces are often the result. The innovative ROBA Big is equipped with a newly developed, extra-large sanding brush diameter of 630mm. This makes it possible to expand the contact area with the workpiece to approx. 300mm. The increased number of slots allows more than 500 meters of abrasive to be installed, depending on the machine configuration. This is unique on the market of brush sanding machines. In this way it is possible to achieve high cutting speeds at low rotation speeds and thus significantly increase the sanding effectiveness. The increased contact area and the soft touch on the part surface guarantees the best results. Low movement speeds of the sanding segments ensure that the sandpaper does not jump over milled grooves of the workpieces. The sanding system enables the brushes to slide into the recesses areas to sand them effectively. Many sanding options that can be set via PLC, help the operator to set the machine to his requirements. In particular mass manufacturers or users with fast running finishing lines benefit from the ROBA Big principle.

ROBA Big

Your move to perfection



ROBA BIG IN ACTION
Simply scan and watch the video!

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Advantages of the ROBA BIG principle summarized

1. Large abrasives quantities enable intensive sanding of the workpieces, while offering long abrasive life.
2. A large diameter provides more sanding effectiveness in all workpiece areas.
3. The area in touch with the workpiece is enlarged up to 300mm for more effectivity.
4. Clockwise followed by counterclockwise sanding ensures best results.
5. A perfected vacuum system guarantees that even drawers can be fed surely.
6. The low rotational speed guarantees long abrasive life span.
7. Abrasive configuration is freely selectable from the MB Flex system.



Special vacuum transport belt for save piece transport with additional cleaning device



ROBA Big in vertical execution, integrated in a hanging line



630 mm diameter: Comparison conventional (middle) - ROBA BIG (right and left)



Cross sanding aggregate

