

# ROBA-*Tech*

Surface sanding machine



Brush belt for a gentle surface sanding in all areas



Double brush aggregate at the exit of the machine



Profi Disc aggregate as an option at machine exit

## Roba-Tech ... operation areas

The patented **Roba-Tech** principle is used for the sanding of flat and profile surfaced work pieces.

The rotational brush belt sanding system for optimal processing in the field of:

- \* *intermediate lacquer sanding*
- \* *white wood sanding*
- \* *MDF – sanding*
- \* *metal deburring*

Due to its innovative sanding method the **Roba-Tech** offers for all these areas optimal suppositions for best surface quality.



## Roba-Tech

"We save your quality and productivity."



The **Roba-Tech** has three programmable sanding options: Rotation-, Oscillation- and belt sanding function



The sanding belt consists of easy interchangeable sanding brush segments



Simple and clear operating comfort

### Standard configuration (Special constructions on request)

Roba-Tech 650 DI	Roba-Tech 1300 DI	Roba-Tech 1300/2
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#### Machine data:

Machine length:	2800 mm	3860 mm	3860 mm
Machine width:	1550 mm	2400 mm	2400 mm
Machine height:	2000 mm	2000 mm	2000 mm
Working width:	650 mm	1300 mm	1300 mm
Electrical power:	11 KW	16 KW	21 KW
Voltage:	230/400V 50 Hz 3 PH/N 480V 60 Hz 3 PH		
PLC control system:	Siemens S7		
Control element:	Siemens OP 77 A		

*(Technical details are subject to change)*

#### The advantages of the Roba Tech principle summarized:

1. Large abrasives quantities make low movement speeds possible, at better effectiveness.
2. The rotational sanding head with a large sanding area ensures a consistent sanding in all work piece areas.
3. Free PLC programmable sanding parameter to optimize results.
4. A perfected vacuum system guarantees that even drawers can be feeded surely.
5. A "pulling" sanding avoids wavy surfaces and penetrates deeply into the milled grooves.
6. The low rotational speed guarantees long abrasive lifespan because the sanding segments do not hit the work piece edges that hard.
7. Abrasive configuration is freely eligible from the **MB-Flex** system.

### Roba-Tech ... sanding method

The main idea of the Roba Tech principle is to avoid the main disadvantage of all today known rotational brush sanding machines: Those who work normally with sanding drum and a diameter of about 350 mm are only in a very small area in touch with the workpiece, about 40 mm.

Only in the vertex of the radius of the tool a sanding process is possible. To compensate the very small sanding area normal sanding systems have to increase their rotation speed to a high degree. Only this way they have a chance to get nearly the same effectiveness. But this results a "hard touch" of the sanding paper which leads to 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 and patented Roba Tech is equipped with a totally new developed sanding belt containing 174 sanding strips and provides a sanding area of approx. 1300 x 1600 mm in touch with the workpiece and more than 250 meters of sanding material on all aggregates.

This is unique on the market of brush sanding machines. A 360 ° rotation of the sanding aggregate makes it possible to reach all edges and corners of a work piece.

Due to the by this means enlarged sanding effectiveness the machine is able to get best cutting results by lowest rotation speeds. As a result of this, low movement speeds allow the sanding strips slide gently into the milled grooves and sand them every effective.

Many by SPS adjustable sanding options help the operator to set the machine to his special sanding requirements.

# ROBA-Tech

## Surface sanding machine



Roba-Tech is assessed many times, even in three shift operation.



Denibbing of all kind of lasered metal sheets.



Door production



### Roba-Tech 650 DI ... operation areas

A space saving execution for a budget that is also affordable for producers with smaller production amounts. All advantages known from the **Roba-Tech 1300** can also be found in the 650 version.

Constructed in a working width of 650 mm (26") this machine is able to denibb all kind of lasered and stamped metal sheet parts, beside high quality sanding of wooden parts with a width up to a kitchen front door.

All features known from this machine range are also intergrated into the 650 mm version:

- Brush sanding aggregate with large sanding area
- large abrasive quantities
- ProfiDisc aggregate at machine exit
- Vacuum transport system

The machine is designed for the following applications:

- \* denibbing of lasered metal sheets
- \* white wood sanding
- \* lacquer and sealer sanding
- \* MDF sanding





Roba-Tech integrated into a cabinet door membrane press production line



Roba-Tech integrated into a furniture production spraying line



Aluminum door production

## We offer solutions for special applications.

### Roba-Tech Vertical ... special application

Vertical solution for all kind of parts moved in a hanging transport device. Interior and exterior doors as well as furniture fronts and wooden windows can be sanded with this machine while transported vertically.

The separation of the machine in left and right side sanding enables the utilization of a vacuum transport system.

An innovation that makes the advantages of the Roba Tech principles even more useable.

