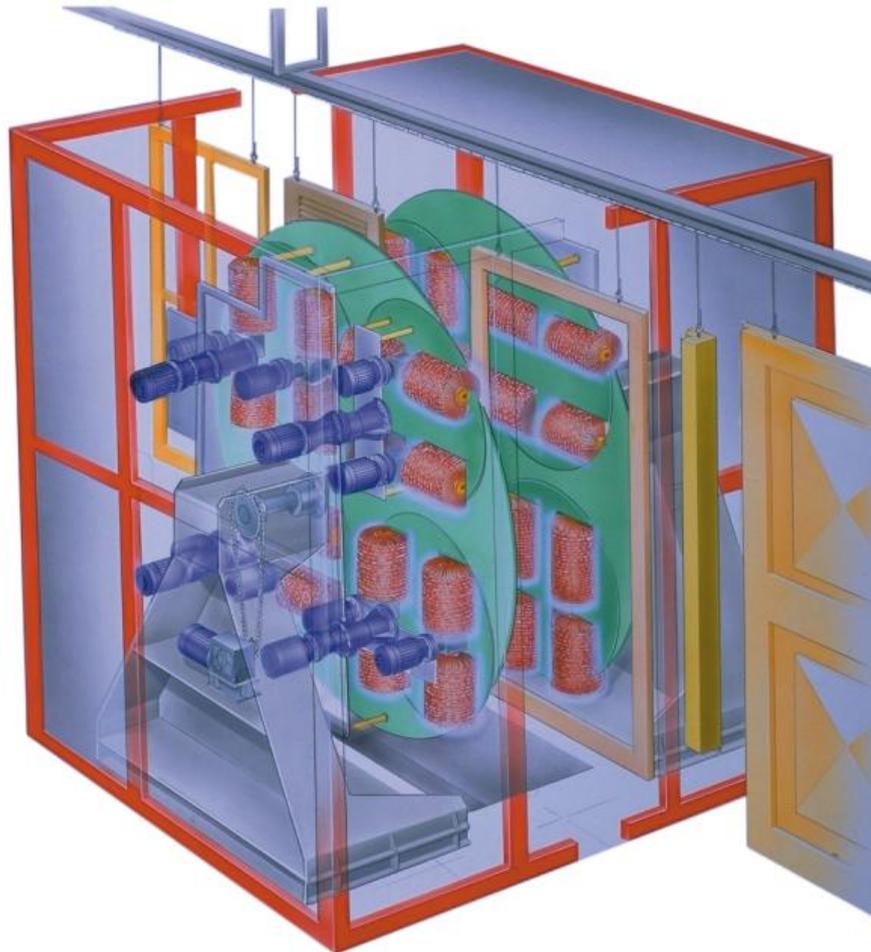


QuickWood System

VERTICAL SANDER

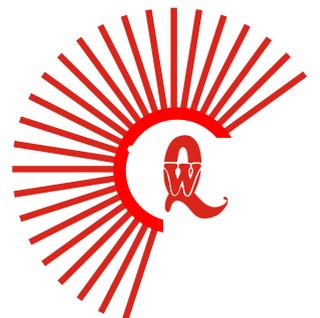
Model RO V 2600



Vertical sealer sander

- Sealer sanding on both sides of window frames, flat profiled doors and furniture parts in an overhead conveyor.
- Careful sanding of the surface by 16 spindles per sanding side.
- Squeezing conveyor for the safe transport of the workpiece through the machine.
- Central control of transfer interfaces to other machines.
- Brushes for the stabilization of the workpieces when running through the machine.
- Little demand of space because of 2 laterally reversed halves.
- Long life time of tools.

QuickWood



QVRO 2800

The machine consists of 2 halves and is a stable weld construction. Each side of the machine has 4 gearheads, each with 4 spindles, i.e. totally 16 spindles mounted with Quick Discs. The 4 gearheads are rotating on the turning carrousel. In this way the tools are homogeneously worn, independently of the size of the workpiece. Compensation for the wear of tools is made by the infinitely variable adjustment of spindle speeds. The sturdy house around the machine has 4 doors for service as well as 16 exhaust ducts.

Operation

The speeds of spindles, gearheads and carrousel are all infinitely variable with adjustment on the control panel. The squeezing conveyor will follow the speed of the overhead conveyor.

Installation

The machine is installed in a lacquering line for the finish and sealer sanding of workpieces transported in an overhead conveyor without having to take down the workpieces. As sanding tool we can use a very fine grit of Quick Discs which have the ability of entering sufficiently into each profile, making a careful sanding.

Function

Sanding through the edges is avoided thanks to the infinitely variable adjustment of the spindle speed. As you have a large number of spindles (16 pcs on each side) you can work with a very low rotation speed. This means the workpieces will not start swinging. To protect the workpieces, stabilization brushes are mounted on both sides. Further the hanging items are held by 2 squeezing belts which are synchronized with the speed of the overhead conveyor. The adjustment of thickness for the individual workpieces is preset and can remain within a determined tolerance area of the workpiece.

Adjustment possibilities

The vertical sanding machine QVRO 2800 is available with the following different possibilities of control:

1. Manual adjustment of all speeds.
2. Automatic adjustment of at least 6 different programmable speeds for all functions: rotation of the carrousel, rotation of the 8 gearheads, speed of the 32 spindles as well as the width adjustment of the complete machine.
3. Automatic adjustment of the sanding machine by bar code.



Half of machine
QVRO 2800

QDV2

Model QDV2 is a further development of QuickWood. This machine is also treating the workpieces, for instance doors in an overhead conveyor. 2 machines are standing in a line. The first machine is finishing the raw items on both sides at the same time. Hereby the sharp edges are broken and the risen fibres are removed from the surface. Then the doors are primed and after drying the sealer is sanded by the second vertical QuickWood machine. Without further treatment the workpieces can now go through a vertical lacquering machine for the final coat.

Contrary to model QVRO 2800, these 2 machines are built with parallel, vertical sanding drums and additionally equipped with special dust brushes. The long vertical spindles are split in two to make it easier to reload. In the middle of the machine is also a pair of squeezing belts to keep the item stable in the centre line of the machine. A sturdy house around the machine keeps the dust within the machine. At the same time the house is sound absorbing.

All speeds are infinitely variable. The width adjustment is made electronically moving on heavy rods.

QDH2

Contrary to model QDV2 the spindles of this machine are moving horizontally, downwards from the top. This makes it possible to sand oblong workpieces as for instance unassembled windows and door frames vertically in an overhead conveyor. The workpieces to be treated are hanged and lead past the machine by a conveyor system, for instance an overhead conveyor, and in this way they are sanded on two sides. A device in the hanging system can make it turn 90°, and all 4 sides will then be sanded.

The machine is automatically controlled by exchange of data with the conveyor system.

Upon request it is possible to have the machine slidable, parallel to the direction of the workpieces in order to sand them without stopping.



Stabilization brushes



Big workpieces



Glass mouldings



Exhaust



Infeed



Control panel

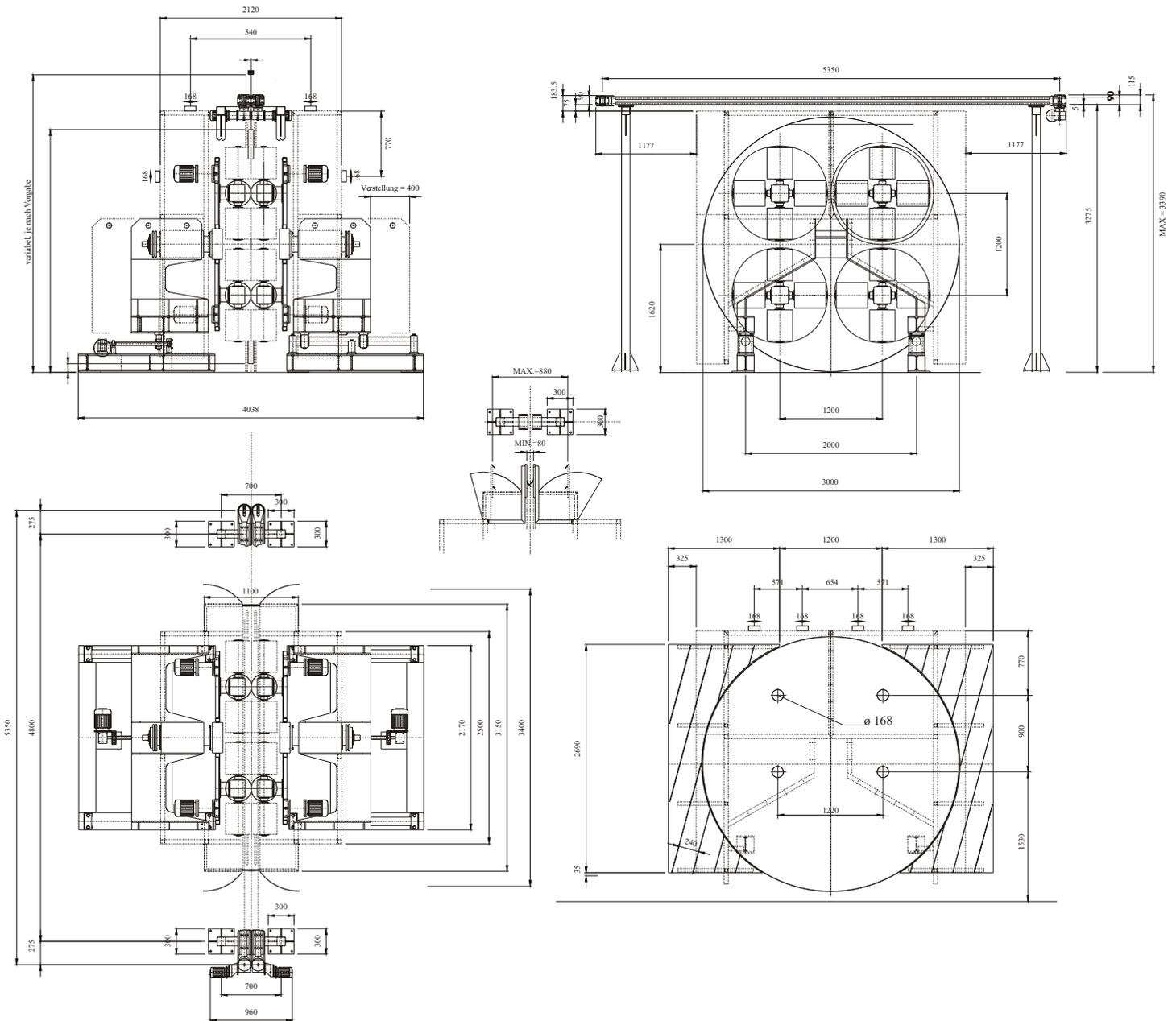


Squeezing conveyor



Factory

Technical Specifications



Model QVRO 2800

Dimensions of workpieces:

Height, max. mm	2600
Width, max. mm	150
Length	infinite

Throughfeed speed, m/min.

Depending on transfer

Spindle speed, rpm	350-1150
Rotation speed, rpm	2-15
Carousel speed, rpm	2-10
Spindle length, mm	390
Number of spindles	32
Diameter of tool, max. mm	350
Quick-Discs totally	1000

Motors for spindle speed, kW	8 x 2,2
Motors for rotation, kW	4 x 1,1
Motors for Carousel, kW	2 x 4,0
Motor for squeezing conveyor, kW	2 x 0,25
Motors for adjustment of width, kW	2 x 1,1
Exhaust ducts, mm	16 x 168
Exhaust volume m ³ /h	min. 9100
Speed of air, m/sec.	min. 20
Dimensions, mm (L x W x H)	3150 x 4038 x 3470

All speeds are infinitely variable by inverters.

QuickWood

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