

# VEN SPRAY ONE - SEMI-AUTOMATIC COATING SOLUTION WITH DRIVEN ROLLER CONVEYOR FOR INTERIOR FITTINGS

When it comes to coating solutions for craft businesses, it is less a question of machine utilization and more a question of flexibility, speed and reducing the workload of the few employees. In this customer example, the short delivery time and commissioning of the automatic spray coating machine, within a period of four weeks, was also an important issue. The VEN SPRAY ONE automatic coating system is an affordable stand-alone solution for semi-automatic coating that is designed to meet the requirements of these companies.

## CUSTOMER PROFILE



VEN SPRAY ONE spray coating machine

**The Kalmbach joinery** is a medium-sized family business in the northern Black Forest. On a production area of approx. 2500 sqm, with approx. 20 employees, mainly woods are processed for the interior finishing of hotels, the upscale gastronomy, medical centers and other objects. The carpenter's workshop is known by its customers for its uncomplicated, flexible and fast service.

## THE REQUIREMENT

### Easy-to-use coating solution

Depending on the order, Kalmbach has to finish different workpiece geometries every day. Sometimes wide wooden panels, sometimes narrow molding. The coating materials are also different: clear coat, white, matte, glossy ...

Until now, everything was painted and stained on the manual spray booth.

The surface department was permanently overloaded. The finishing solution they were looking for was supposed to do this work in good quality. In addition, it should be easy to handle, delivered and put into operation within four weeks.

## THE IMPLEMENTATION



On-site spatial situation ideally solved:  
Machine was fitted in the room by means of drywalls

### Entire process oriented to the customer

According to the customer's feedback, only Venjakob was able to promise the desired time of delivery of four weeks. Moreover, Rudolf and Stephan Kalmbach were also more than satisfied with the entire project handling.

### Additional roller conveyor utilizes working width

As a further module for the stand-alone solution of the spray coating machine, the customer purchased a 1.8 meter long roller conveyor for feeding and removing the workpieces. This makes sense especially for longer components, in order to fully utilize the working width of the machine. The Kalmbach-joiners also came up with a work aid: The wall at the rear of the machine with the workpiece output has been fitted with a mirror. This allows a single machine operator to keep an eye on all parts from infeed to outfeed.

### Quick familiarization via video tutorials

The customer was able to familiarize himself with the machine and commission it on his own by means of tutorials and video instructions. These simply show how to operate the machine, set recipes or change filters.



Control cabinet

# KALMBACH | SUCCESS STORY



Outfeed of the spray coating machine with subsequent roller conveyor

## Finish more parts in less time

Using the VEN SPRAY ONE, significantly more parts are now coated within a shorter period of time. „What took four days at the manual spray booth is now finished in 1.5 days,” says Stephan Kalmbach. Very slim wooden moldings can be coated much easier than before. At the same time, the surface quality is consistent and independent of the skills of the machine operator.

## THE PROCESS

### No special knowledge required

The machine is controlled via a large touch screen with a self-explanatory user interface. The recipe stored for the coating process is also called up here.

The workpieces are placed manually by a machine operator, in this case on the 1.8 meter long roller conveyor. At Kalmbach, there are sometimes 20 to 30 wooden strips that are placed next to each other. The VEN SPRAY ONE independently draws the parts into the spray booth, which is illuminated by LED tubes (LED panels or LED lamps). There, four spray guns coat the workpieces at a steady speed over the entire working width of 1300 mm via a high-performance linear drive. When the finishing process is complete, the workpieces exit from the rear of the machine and are transferred from there to the roller conveyor for removal and further processing. At Kalmbach, the automatic spray coating machine is also used for staining, on the company's responsibility. According to the customer, with very good results.

## DATA AND FACTS

### Dimensions VEN SPRAY ONE (L x W x H):

4000 mm x 4000 mm x 2600 mm

### Production speed:

3 m/min

### Workpieces to be coated:

wood, glass, plastic

### Dimensions of workpieces (W x H):

min. 25 mm x 6 mm, max. 1300 x 50 mm

### Coating material:

solvent-based lacquer/stain

### SPECIAL FEATURES AT A GLANCE

- Compact spray coating machine with integrated control cabinet
- Cost-effective stand-alone solution for craft businesses
- Simple operation with intuitive user interface
- Recipes easy to create for reproducible results
- Short delivery time (within 4 weeks)
- Independent commissioning and maintenance by means of tutorials