

Venjakob

YOUR FINISHING LINE.
OUR PROCESS EXPERIENCE.

FLEXIBLE FOR INDIVIDUAL REQUIRE- MENTS



VEN SPRAY ADVANCED

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SPRAY BOOTH

The spray booth housing is designed with sturdy steel profile construction. On the operating side of the machine there are two large double wing glass doors for easy monitoring of the coating process. The spraying area is illuminated with 1 or 2 LED lights. The system is safety interlocked with electronic door switches. All areas of the booth are easily accessible for maintenance purposes. Compressed air control valves and pressure gauges as well as a gun test switch are located above the operating doors. The machine is operated via a touch panel that can be conveniently swiveled, rotated and tilted for ease of operation.



GUN DRIVE

The solid, durable high performance linear axis moves up to 12 individually switchable spray guns to ensure reliable, even and precise coating. The linear unit is fully enclosed and completely integrated into the supply air filter ceiling. This means that any overspray cannot damage the drive. The design insures a uniform gun speed across the entire working width. The gun speed is infinitely adjustable from 1-2.5 meters per second (max. 30 double strokes). The deceleration and acceleration values automatically adapt to the selected gun gun drive speed to insure smooth consistent movement of gun carrier. This enables a smooth gun movement. The gun drive can be prepared for permanent mounting of spray guns or exchangeable options.



SPRAY GUN CONTROL / PART RECOGNITION

The machine is equipped with a part recognition system that detects the position of the parts passing through the sensor. The control system, in conjunction with the preprogrammed recipe then generates the switching impulse for the spray guns, for precise control of spray results. The preprogramming recipe can be set to achieve different results.

COATING MATERIAL SUPPLY

The coating supply lines are installed to supply up to 12 spray guns. These are designed as ring flushing lines. There can be up to 4 circuits included with the machine. Individual spray gun mounting and optional quick couplings for fluid and air add to the flexibility of this machine.

FILTER CEILING

Speed controlled axial fans provide fresh air for the two stage filtering of the supply air. The intake filter system is fully integrated into the machine to insure the highest quality coating.

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TRANSPORT SYSTEMS

The machine can optionally be equipped with a paper belt conveyor and/or a belt conveyor with paint recovery system.



PAPER BELT SYSTEM

The paper system optimizes the production process by reducing the cleaning effort and at the same time ensuring a clean working environment, especially with frequent paint or lacquer changes. This facilitates a quick start up and shut down at end of production.

Flat parts are protected from overspray on the underside.

The paper belt system is equipped with fast change unwinding and servo driven winding device to maintain consistent tension of paper throughout the process. The paper is mounted on carts for easy handling and exchanging of the paper rolls.

INFEED & OUTFEED ROLLER CONVEYOR

The paper belt system is supplied with a "lifting" outfeed roller conveyor. When lifted up, the design creates additional space for easy positioning of the take-up unit and convenient installation of the paper rolls.



BELT TRANSPORT WITH PAINT RECOVERY

The purpose of this unit is to remove the excess coating from the conveyor after the spraying process. The recovery and subsequent cleaning of the conveyor belt offers a cost saving for larger production capacities.

There are 2 options for material recovery;

1. Oscillating scraper, particularly suitable for low viscosity materials.
2. Additional belt with V-Scraper, particularly suitable for high viscosity materials for fast recovery

The cleaning unit consists of rollers, squeegees and circulation pump to continuously clean the belt with minimal solvent use. This insures the belt returns clean and dry continuously.

ELECTRICAL CONTROL CABINET

The electrical cabinet is integrated into the machine and is equipped with all the necessary switching and fuse elements, motor protection switches, indicator lamps and main switch. The switch cabinet contains all the necessary contacts for interlocking the machine.



VERSATILE SOLUTIONS FOR **INDIVIDUAL** PRODUCTION REQUIREMENTS

Your benefits

- Extremely flexible / variably configurable
- Large linear axis for up to 12 guns
- Designed for a continuous feed speed of 7 m/min
- Integrated control cabinet



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VEN SPRAY ADVANCED | OPTIONS

CONFIGURATION OPTIONS

Operating side	left or right
Working width	1.300, 1.600 mm
Working height	940 +/-20 mm
Cabin interior lighting	at outfeed side or infeed + outfeed side

ADDITIONAL OPTIONS

- **Air baffles above the extraction boxes**
The air baffles improve the air flow and ensure an even distribution of the air flow over the entire extraction surface. This optimizes the extraction performance, maximizes the capture rate of the paint mist and minimizes the formation of deposits in the work area.
- **Humidifier guns for paint recovery**
This insures that the recovered coating material always remains viscus.
- **Glass detection**
An additional glass detection system compensates for factors such as different lighting conditions and glass properties, which mean that the light barrier does not always detect the glass panes accurately. This principle makes it possible to reliably detect the workpiece position, workpiece width and workpiece length of the glass panels.
- **Paint Shuttle**
The compact design enables short paint lines, economical material consumption and low disposal costs. The small quantity container 'Paint Shuttle' is used for sample parts and very small batches. A 2 liter lacquer container is mounted on the carriage of the linear axis of the coating system and moves back and forth during the coating process.
- **Hard metal scraper**
For paint recovery / belt cleaning:
As an option, the paint discharge blade can be equipped with a carbide blade. The advantage of this design is the hardened contact surface with the belt, which offers significantly higher wear resistance. This contributes to a longer service life.
- **Extra V-scraper for active paint recovery**
The replacement scraper can be used when the first scraper has been removed for cleaning. Advantage: cleaning can be carried out parallel to ongoing production, significantly faster color change, increased productivity.

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TECHNICAL SPECIFICATIONS

Workpiece dimensions minimum - maximum

Length 250 mm - endless

Height 1 - 90 mm

Width 50 - 1.300 mm

Supply air volume flow: 10,000 m³/h

Exhaust air volume flow: 10.000 m³/h

TRANSPORT SPEED

Operating modes

Minimum (m/min) Maximum (m/min)

Belt drive without paper system

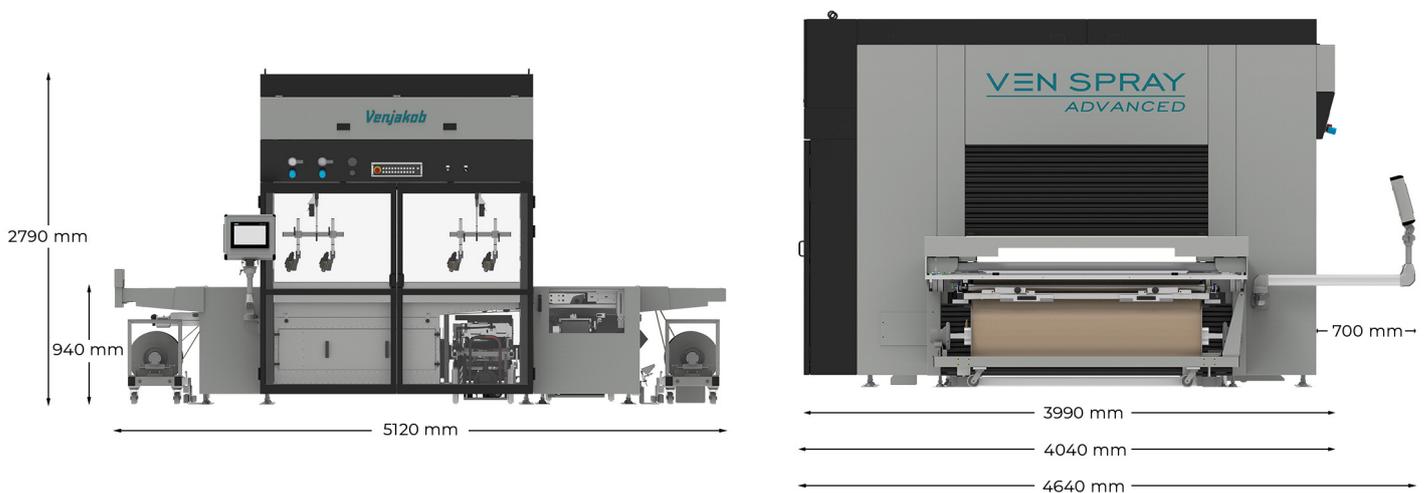
1,2

9

with paper system

2,5

9



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YOUR FINISHING LINE.
OUR PROCESS EXPERIENCE.



SURFACE EXPERTISE WITH SYSTEM

From a small metalworking shop to a global player. Founded in Rheda-Wiedenbrück in 1963, we are now one of the world's leading suppliers of industrial finishing systems: individually designed solutions for the entire production line.

Over the years, we have preserved what has driven us from the very beginning: Inventiveness, creativity and precision. Your coating requirements continue to drive these values.

Your Finishing Line. Our Process Experience.



Wood |
Furniture



Automotive



Building
materials



Glass



Plastics



Metal



Special

PRE-TREATMENT | COATING | DRYING | AUTOMATION | EXHAUST AIR PURIFICATION

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Subject to technical changes