

IMPREGMAT®

process engineering

has set the standards.

We were the ones

to invent it!

IMPREGMAT®

Schiele
Maschinenbau GmbH



IMPREGMAT®

Proven a thousand times, patented machine concept for high efficiency, loss-free impregnating, varnishing and staining of planed and milled lumber products.

The Super Spray system with the double X overlapping of the multi-purpose nozzles, guarantees intensive application on all-sides. Brushing and polishing of the four sides passing through provide high effectiveness. A constant product quality is achieved.

Capability characteristics

- The highest standard of coating quality that has been proven for decades by Schiele's safe IMPREGMAT® application technology.
- Virtually loss-free material application. The surplus substance is brushed off, filtered and returned to the application process.
- Filter system and pressure recirculation with integrated filter cleaning are patented Schiele process technologies.
- High efficiency. Dependent on the workpiece and the existing handling system feed rates from 8 to 60 m/min can be achieved.
- Safe all-around application through double X overlapping of the multi-purpose nozzles.
- Very intensive and effective polishing by 6, 8 or 10 counter-rotating polishing brushes that work on all-sides.
- The IMPREGMAT® polishing system can be adapted to different workpieces with a minimum of hand movements.
- A cleaning system prevents the hardening of the polishing brushes when the machine is stopped for a short time. Additionally, it provides a rapid cleaning of the entire application area.
- High production safety. The IMPREGMAT® is designed for 24 hour continuous operation.



The workpiece leaves the IMPREGMAT® with a constant surface finish quality that cannot be obtained with manual labor.

IMPREGMAT® EVO

For water soluble impregnating agents, -salts, -oils, -stains and thin-layer varnishes used on workpiece dimensions up to 300 x 300 mm or 500 x 300 mm. Special size requirements, i.e. 600 x 300 mm, for machines are possible. Components that come in contact with the workpiece are made of rust-free material (stainless steel, aluminum, plastics).

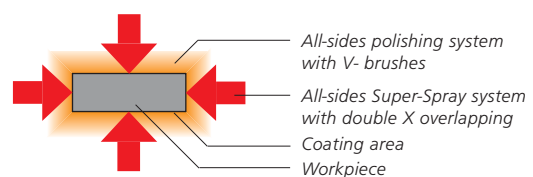
IMPREGMAT® VM-MAXI

The economical variation for the processing of aqueous and oily products used on beams, boards and strips or laths up to dimensions of 300 x 120 mm. Components that come in contact with the workpiece are made of rust-free material (stainless steel, aluminum, plastics).

IMPREGMAT® VM-MINI

The economical variation for the processing of aqueous and oily products used on boards and strips or laths up to dimensions of 200 x 40 mm. Components that come in contact with the workpiece are made of rust-free material (stainless steel, aluminum, plastics).

The IMPREGMAT® offers optimum efficiency and quality with the impregnating, varnishing and staining of planed or milled lumber products.



IMPREGMAT® Function principle

The intake roller conveyor is fitted with an adjustable guiding rail that secures the passage of the workpiece. Intake and exit roller conveyors are each 3 meters long and equipped with height adjustment base plates. The rollers in the basic machine are motor driven. The speed of the feed rate is step less adjustable in the range from 8 to 60 m/min. Other rates of feed are available. Longer beams pass through the equipment without roller pressure influence from above. For lighter planed products such as battens, strips or lathes, quick fitting pressure rollers provide for the correct passage.

Due to the central location of the drainage beneath the machine, small and large quantities can be processed without problems. The combined IMPREGMAT® filter system with pressure recirculation and filter cleaning is a patented Schiele process technology. Excess coating material is brushed off, filtered and recycled into the application circuit.

The proven IMPREGMAT® Super Spray system, with double X overlapping of the multi-purpose nozzles, guarantees a high degree of application.

The IMPREGMAT® polishing system consists of 6, 8 or 10 counter-rotating polishing brushes of highest quality controlled by adjustable hand wheels for appropriate measurements.

They are step less adjustable, power driven and possess self-evasive maneuver ability for protection against collision. For spinning out impregnating material and cleaning of the polishing brushes the rotational speed is set to the highest level. The impregnating material should be so adjusted that a hardening on the brushes does not occur too rapidly (drying time). As a result a profile change is possible without great expense. All IMPREGMAT® machines are fitted with a cleaning system. At the end of a work process or color change the entire spray system can be cleaned within a few minutes.





Selection of 6, 8 or 10 counter-rotating polishing brushes of highest quality, simply and precisely adjustable via hand wheels located on the outside of the machine.

The stable stainless steel frame enables simple and quick cleaning of the equipment through its user-friendly design.

The clearly visible, pivotal Operation Panel provides easy and secure operation. Variable setting of speed by the touch of a button.

The Schiele Spray System with the double X overlapping guarantees highly efficient coating. The flexible spray nozzles (10) can be adjusted in the spray area and for intensity.

The adjustable mechanical stop rail assures a correct passage of the workpiece.

Intake and exit roller conveyors (each 3 meters long) are fitted with height adjustment base plates. It is possible to power the rollers alternatively.

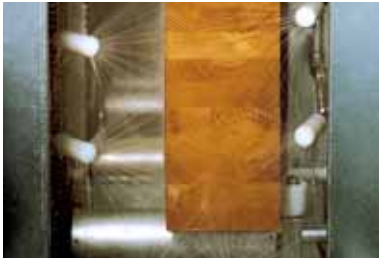
Items for cleaning assistance are delivered with the machine (spray pistol, flexible hose and connection).

Practical storage reservoir with 40 liter capacity is an available option.

Options:

- Electrically adjustable brushes
- Special brushes for special workpieces
- Parameter settings via SPS/PLC easily accomplished by the touch of a button (Line feed rate, brush revolutions, nozzle settings, etc.)

Photo and description:
IMPREGMAT® EVO



The proven IMPREGMAT® Super Spray system with double X overlapping of the individual multi-purpose nozzles, is integrated as a separate component into the intake area of the machine. The X spray fog guarantees an all-sides spraying of the workpieces in the passage.



The polishing system consist of 6, 8 or 10 counter-rotating brushes, hand wheel adjustable settings, self-evasive maneuver V – brushes of the highest quality. The durability will last several years with the proper care and maintenance. The rotation speed is step less adjustable. With minimum hand movements the arrangement of the brushes can be adjusted to the relative workpiece. Rapid clamping or locking devices enables simple fitting and removal of parts.



The IMPREGMAT® coating material reservoir is fitted with pressure recirculation and filter cleaning. A patented Schiele process technology assures a loss-free coating application and a malfunction free operation process. Excess coating material is brushed off, filtered and returned to the application process. These important machine components are also designed for continuous operation.

Technical Data

IMPREGMAT®	EVO	VM-MAXI	VM-MINI
Rate of Feed	10 - 60 m/min	10 – 60 m/min	25 m/min
Electrical data	400 V, 3 Phases 50 Hertz	400 V, 3 Phases 50 Hertz	400 V, 3 Phases 50 Hertz
Compressed air	450 l/min at 3 bar	450 l/min at 3 bar	320 l/min at 3 bar
Electrical input (max)	approx 2,3 kW	1,1 kW	0,37 kW
Length of intake conveyor	3000 mm (optional)	3000 mm (optional)	1000 mm
Length of exit conveyor	3000 mm (optional)	3000 mm (optional)	3000 mm
Length of basic machine	3100 mm	approx 1500 mm	approx 1100 mm
Weight of basic machine	approx 1000 kg	approx 350 kg	approx 250 kg
Working height	815 or higher	815 or higher	with rollers 950 mm
Guiding rail	on the right	on the right	on the right
Flash point	above 55° C (no explosion protection)	above 55° C (no explosion protection)	above 55° C (no explosion protection)
Workpiece dimensions	Height: up to 300/500 mm Width: up to 300 mm Length: 600 mm up to endless	Height: up to 120 mm Width: up to 300 mm Length: 600 mm up to endless	Height: up to 40 mm Width: up to 200 mm Length: 600 mm up to endless

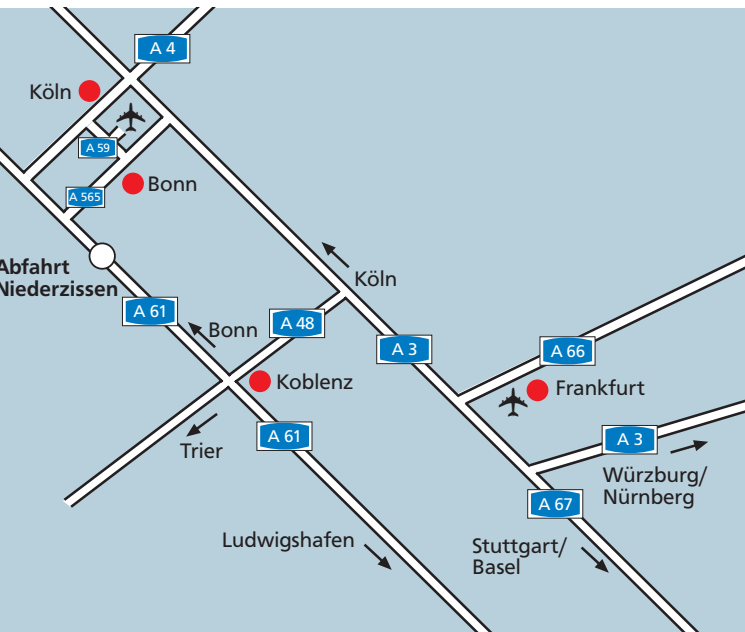


IMPREGMAT® VM-MAXI
for workpiece sizes
up to 300 x 120 mm

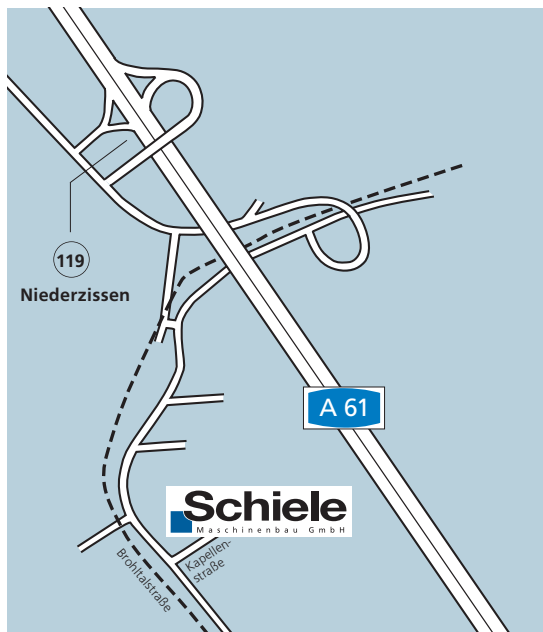


IMPREGMAT® VM-MINI
for workpiece sizes
up to 200 x 40 mm

The machine properties indicated in this brochure relate to the **latest state of the art** at time of printing. For any legal relationships only the concrete contractual terms are valid. The indicated data concern standards under standardized conditions, which can differ from real time practical values. We reserve the right to make changes in the concrete design.



Cologne/Bonn airport = 65 km, www.airport-cgn.de
 Düsseldorf airport = 125 km, www.dusseldorf-airport.de
 Frankfurt airport = 145 km, www.frankfurt-airport.de
 Luxemburg airport = 154 km, www.airport.lu



Our company premises in Niederzissen are situated conveniently close to the A 61 motorway, just 2 km from the Niederzissen motorway exit. We look forward to your visit!

Schiele Maschinenbau GmbH
 Brohltalstraße 153, D-56651 Niederzissen
 Telefon +49 (0) 26 36 / 97 52 - 0
 Fax +49 (0) 26 36 / 97 52 - 99
www.schiele-maschinenbau.de
office@schiele-maschinenbau.de

**Perfect surfaces
 for wood, metal and plastics**

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