Date :	07/14/2025 - 3:15 PM *
EXF # :	PM-010433
Category :	PRESSES-MEM/VAC./EMBOSS
Brand / Model :	WEMHONER "PROFESSIONAL 3000S"
Machine Type :	MEMBRANE PRESS W/PIN SYST. - COMPLETE LINE W/5 TRA
Year of Mfg. :	2007
Condition :	Very good condition
Elect / Voltage :	400 V, 50/60 Cy, 3 Ph.
Special Note :	Rare Find

FOB / Region :	SOUTHEAST
Appr. Repl. Cost. :	$ 2,450,000
Price :	**$ 0 ***
Comment :	If you have the volume this WEMHONER has the Exten
Leasing :	Contact NCL for quote

Please ask me

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* Pricing is valid at the time of printing and subject to change at any time.

Description :

- **Complete Automatic Thermofoil (RTF) Line Featuring WEMHONER *VARIOPRESS® PROFESSIONAL 3000S* Membrane Press Line with (5) Oversized Tray Tables, Automatic VARIO® Pin System, Automatic Foil Cutting, Panel Turner, CEFLA UNOSPRAY 1700 for Adhesive. *Press will run with 1500 mm or 1800 mm wide PVC rolls.***

1. MAIN DATA FOR THE LINE

1.1 Technical short description of the press.
Press system: .....Single-daylight downstroke system
Press body: .....Consisting of steel frames bolted together to form a closed unit. Each frame manufactured out of a single piece
Heating platen dimensions: .....4.800 x 1.850 mm
Execution of heating platen :.....Electrically heated aluminum platen on top
Total pressure of press:..... 6.500 KN.
Chamber pressure max.:.....7.0 Bar
Electrical Equipment:.....According to VOE & DIN specifications.

1.2 Consumption Data.
Total installed electr. capacity:....Approx. 165 kW
Operating voltage:..... 400 Volt.

Control voltage Frequency:.....24/200 V.
Frequency:..... 50 Hz.
Necessary air pressure:..... 10 Bar
(Compressed air required at 70% utilization approx. 230 Litres/press cycle x operating pressure and 30 mm panel thickness.)

2. SYSTEM CAPACITY

2.1 Mechanical Time of the Hydraulic Cycle Press
Opening, closing, feeding and outfeed, pressure
build-up and reduction, not including press time: ..... approx. 40 Sec

2.2. Press Time
Pressing time or curing time depends on the type of
laminating material, the press tem-perature, the glue
formula and similar factors. .....Impossible to provide general press time to cover all such parameters.
For standard thermoplastic foils: .....Approx. 90 - 120 Sec press cycles can be achieved.

3. PRESSING PROGRAMMS.

3.1 Single-sided lamination {top} of pre-profiled substrates with:
a.) Thermoplastic foils, using a membrane for the preheating of the foil and for forming = pressing.
b.) Thermoplastic foils, using a membrane for the preheating of the foils by the membrane and for forming = pressing of the foils without membrane (simultaneous pressure)

4.0 ADDITIONAL PARAMETERS

4.1 Net pressure chamber height = workpiece height + jig (pin) with pressing program:
a.) Approx. 50 mm.
b.) Approx. 50 mm.

4.2 Max. charge, workpiece size, based on material width, respectively.
a.) For the main working width max. approx. 4.520 x 1.620 mm.
b.) For second working width max. approx. 4.520 x 1.250 mm.
c.) For third working width max. approx. 4.520 x 1.060 mm.

5. FOIL MATERIALS FOR LAMINATION.

5.1 Substrates on wood basis = MDF or other suitable sub-strate materials.
Workpiece profiling has to be matched to the relative laminating material and procedure.

5.2 Laminating material.
Standard thermoplastic foils like PVC, PET, ABS etc.
Must be suitable for the above pressing procedure. Delivery form as roll material with a foil width of min. 1.780 mm, 1.420 mm, 1.230 mm. (where available).

5.3 Glue systems.
PUR dispersion adhesives added with cross-linking agent for thermoplastic foils.

6. COMPONENTS OF THE LINE

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6.1 (One) Tray Belt Lay up Device (stationary design).

Function:
Transfer of panels onto the lay up trays. The lay up is not accurate for the press process. Therefore the operators have to align the panels in a manual operation.

Execution:
Frame construction located in front of the scissor lift table Item 6.2.
Driven chain conveyor on bottom with inverter speed control.
Drive of belt conveyor with inverter speed control.
Nose shaft of belt with diameter 25 mm, swivel-mounted design.

6.2 (One) Hydraulic Scissors Lift Table with Chain Conveyor.

Function:
Transfer of the lay up pallets into the lay up station.

Execution:
Hydr. scissor lift with compact hydr. aggregate integrated in the basic frame.
Chain conveyor with drive and pallet guidance.
Drive via brake gear motor on both sides with inverter control.

6.3. (One) Chain Conveyor.

Function:
Alignment position for workpieces on lay up trays and resetting of pins

Execution:
chain conveyor with drive and pallet guidance
drive via brake gear motor on both sides with inverter control

6.4 (Two) Foil Automatic Unwinding and Cutting Stations.

Function and Execution:
Provided for taking (2) foil rolls each.
Automatic reeling of the foil, reeling synchronously to the transport system.
Cross cutting devices executed as circulating knives with automatic release of separation cut.
Pressure roller in front of the circular knife.
Designed for winding diameter up to 600 mm.
Min. foil width 1.780 mm, 1.420 mm, 1.230 mm (if available).
Control sensor for both foil edges as a position control with indication by flash light.
Deionization bar for electrostatic discharge.

6.5. (One) Chain Conveyor.

Function:
Transport of lay up pallets through the unwinding section.

Execution:
Like Item 6.3.

6.6 (One) Chain Conveyor.

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Function:
Control position of foil lay up and transport to the press.

Execution:
Like Item 6.3.

6.7 (One) WEMHONER VARIOPRESS@ Model Professional 3000 S.

Press system: Single-Daylight Downstroke
Press body: Consists of steel frames which are bolted together to form a closed unit. Each frame manufactured out of a single steel plate
Heating platen dimensions: ..... 4,800 x 1,850 mm. Max operating temp 160°C (302°F).
Loading width: ..... 1,850 mm.
Working height approx: ..... 1,000 mm.
Daylight opening max:..... 300 mm.
Stroke of pressing cylinders: ..... 300 mm.
Number of pressing cylinders: ..... 8 .
Diameter of press pistons: ..... 180 mm.
Height of press chamber:..... 50 mm.
Execution of press tables: ..... Solid steel platens - top and bottom side.
Total pressure of press: ..... 6,500 KN.
Chamber pressure max: ..... 7.0 Bar
Max. System Hydr. Pressure: ..... 320 Bar

6.8 Hydraulic Proportional Control. For the upper press table

6.9.Vacuum System - top and bottom side with vacuum pump and vacuum tank.

6.10 Upper and Lower Press Table (solid steel platen).
Top platen equipped with electrically heated aluminum platen, heated by electrical resistor elements. Oil recirculation pump circuit for uniform temperature over the press platen area.

6.11 (One) Distribution Plate.
Optimizes air flow on the top side of the press chamber. Special heating system for the corners of the foil section

6.12 (One) Infrared-Control-Sensor/ Control Device.
The sensor is placed on the edge of the press body and is controlling the membrane temperature of the open press.

6.13 (One) Multi-Function Frame Wemhoner (Patented).
For the foil width 1,780 mm. To be fitted and dismantled quickly when changing the pressing program. Recommended for the pressing of thermoplastic foils

Advantages:
Following pressing programs are possible:
a.) Thermoplastic foils with membrane.
b.) Thermoplastic foils with simultane-ous pressure

Further Advantages:
a.) Re-Cooling of the thermoplastic foil after the pressing process to avoid a memory effect.

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b.) Cooling down of the glue joint.
c.) Soft separation of the membrane from the thermoplastic foil by means of blow-in device
d.) No change-over time for pressing program with simultaneous pressure.

6.14 (One) Multi-Function Frame Wemhoner (Patented): For the foil width 1,420 mm.
Execution: Like Item 6.13.

6.15 (One) Multi-Function Frame Wemhoner (Patented): For the foil width 1,230 mm.

Execution: Like Item 6.13.

6.16 (One) Membrane and Membrane Tensioning Device.

Execution:
Silicone, 3 mm thickness. Pneumatic membrane tensioning device.

6.17.1 (One) Special Turbine for Air Heating and Circulation
for preheating of compressed air in pressure chamber during pressure time via heating unit and circulation.

Advantages:
Heat supply during pressure time.
Shortens pressure time.
Better heat resistance of final product at critical parts (edges).
Optimal separation of temperature.

6.18 (One) VARIOPIN® System

Function:
Lifting of the workpieces with modular reception heads during pressing.

Execution:
Automatic setting of pins after laying up workpieces on the pallets. Consisting of:
Scanner Unit.
Setting Device.
Resetting Device.
Electrical Control Siemens S7

6.19 (Five) Lay up Trays.

Designed as aluminum carrier sheets with joint frame for placement of the workpieces without the need or spacer/riser jigs. Frame height 30 mm.
Includes (2) separation bars to reduce the space in the lay-up trays for narrow foil of 1,420 mm for each tray.
Incl. (2) separation bars to reduce the space in the lay-up trays for narrow foil of 1,230 mm for each tray.

6.20 (One) Chain Conveyor

Function:
Buffer station after the press.

Execution:
Like Item 6.3.

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6.21 (One) Hydraulic Scissor Lift Table with Chain Conveyor.

Function:
Reception of the pressed lay up tray and return of empty tray.

Execution:
Like Item 6.2.

6.22 (One) Vacuum Lifting Device.

Function:
Pick up of a whole load of panels from the lay up tray and lay up on the tray for the turnover device.

Execution:
Gantry with suction carriage
Suction frame lift- and lowered by pneumatic cylinder
Suction frame equipped with Uni-Gripper System

6.23 (One) Rotary Turnover Device.

Function:
Turning the whole press load 180° face up-side down. The press load is running out into the next position.

Execution:
One belt conveyor with clamping device built into a rotary drum.
One tray powered to move out of the drum for loading purposes covered with protective foam surface.

6.24 (Two) Driven Belt Conveyors.

Function:
Transport of workpiece carpet face side down for manual trimming, 1,800 mm width x 5,200 mm length.

Execution:
Flat belt conveyor with drive and reverse drum. Belt driven by gear-brake-motor.

6.25 (One) Electric Control.

Complete electric cabinet.
Memory programmable controls.
PLC controls - MODEL SIEMENS PLC S7.
Operator display for PLC control SIEMENS TP 270 10" screen.
Connecting cable from control cabinet and operating panel to the machine.

6.26.Transition and platforms along unwinding section and alignment station, as far as complete protection grids supplied by Wemhoner.
Includes platforms with (2) stairs to walk across the line.

6.27 PlexiGlass® Covers. Supplied by Wemhoner:
Covers section of tray belt lay up device and scissor lift table items 6.1. to 6.2.
Between scanner station and first unwinding station. (platform with stairs item 6.3).

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- A large selection of photos of this line are available upon request.

  Note: All data is to be verified by Buyer.

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