



# MULTIMAT

3D FOIL PRESSING • LAMINATED BENDING • CURVED VENEERING



# MULTIMAT – THE MULTIFUNCTIONAL VACUUM PRESS FOR 3D-LAMINATION, LAYER-GLUING, AND FORM-VENEERING



MULTIMAT is the ideal combination of two pressing techniques in one simple machine:

## **VACUUM 3D-FOIL PRESSING WITHOUT THE USE OF A MEMBRANE**

Ideal for simple and efficient foil-coating of fronts, such as kitchen and washroom furniture, furniture parts, ornamental pieces, etc. Now you can avoid problems with retailers and delivery – such as long delivery times, pressure to acquire high quantity of parts, high delivery costs, etc.

MULTIMAT units are inexpensive and easy to operate. They guarantee quick amortization even with the production of small batch sizes or built-to-order production.

## **WELL-TRIED VACUUM MEMBRANE-PRESS TECHNOLOGY**

### **PROFESSIONAL LAYER-GLUING OF COMPLEX SHAPES (“SANDWICH-TECHNIQUE”):**

Curved furniture parts, parts for interior design, parts for countertops, boats, train cars, busses, and airplanes.

### **FORM-VENEERING AND FORM-COATING:**

Profiles for furniture manufacturing and for high-end interior design solutions, table tops, work surfaces, coffin manufacturing, wall- and ceiling-profiles, technical profiles and moulds

### **2D- AND 3D-FORMING OF THERMOPLASTIC MATERIALS:**

Forming of mineral-based materials (Corian, Staron, LG-HiMacs, Avonite, Marlan), acrylic-based materials, ABS, etc. Ideal for interior construction, washroom furniture, built-to-order furniture parts, designer furniture, polyurethane foam for insulation parts (for the construction of boats, ships, train cars), specialty parts for technical use.

### **GLOSS-COATING OF PLANE AND CURVED SURFACES:**

Boards, doors, countertops, plane and curved furniture- and interior construction parts, all other kinds of furniture parts.

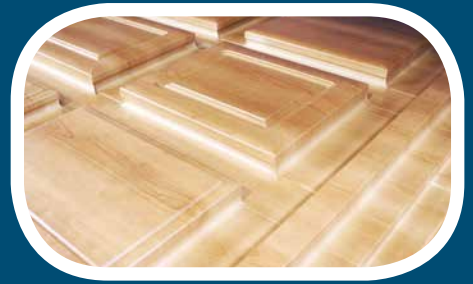
### **GLUING OF BEVELS, EDGES, CHAMFERS OR PROFILES ONTO WORK PIECES:**

Ornamental frames and elements for furniture parts or doors, bevels and protection trims of doors, furniture parts, etc.

# IT'S THAT EASY ...

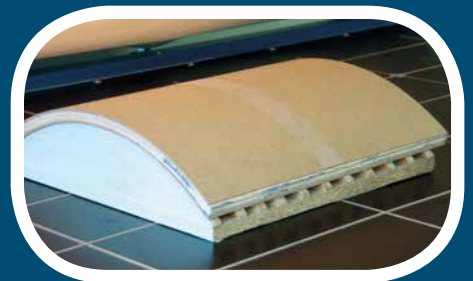
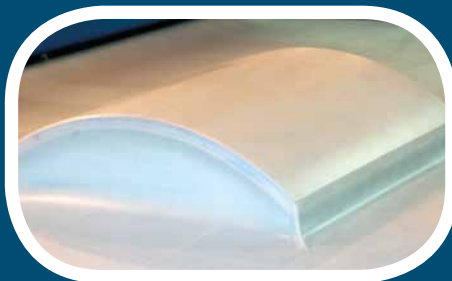
## 3D FOIL LAMINATING:

- pre-heat the machine to reach operation temperature
- place the work pieces together with the distance boards onto the working table
- place the 3D-foil over the machine table and close the heating hood
- start the automatic foil laminating process
- after the foil laminating process is finished, open the heating hood and remove the ready laminated work pieces



## LAMINATING AND VENEERING OF SHAPED PARTS:

- set the desired temperature for the heating hood, open the membrane frame and place the work piece onto the machine table
- switch the vacuum pump on - the pressing process starts
- frame after end of pressing time and remove the ready work piece



## COATING OF PLASTICS:

- apply the adhesive and place the coating material onto the base shape
- the force of the vacuum is pressing the coating material precisely onto the base shape
- remove the perfect coated work piece from the vacuum press



# ... ADVANTAGES AT A GLANCE

## **TWO-IN-ONE - MANY APPLICATION POSSIBILITIES THROUGH IDEAL COMBINATION OF DIFFERENT MACHINES:**

- 3D foil-lamination press for coating and lamination
- Vacuum membrane press for form-gluing and form-veneering

## **COMFORTABLE TO OPERATE - FULLY ADJUSTABLE:**

- Saves time and effort and prevents operation errors

## **3D FOIL-LAMINATION AND COATING SHORT PRE-HEATING CYCLES, NO SETTING-UP TIME, SHORT PRESSING CYCLE:**

- ideal for custom orders as well as serial production
- a perfect alternative to industrial machinery
- simple handling guarantees low error quota
- inspection window allows effective quality control

## **CONTINUOUS THERMOSTAT-CONTROLLED CIRCULATING-AIR HEATING SYSTEM:**

- precise control of the heat applied to the 3D-foils, even with complicated work piece shapes
- even application of heat of both horizontal and vertical surfaces

## **LOW INVESTING COSTS:**

- quick amortization even with low numbers of produced pieces
- ideal also for complicated shapes

## **VACUUM LAYER-GLUING AND FORM-VENEERING**

## **HEAT-RESISTANT, HIGHLY ELASTIC SILICONE MEMBRANE:**

- no damage from high temperature or quick temperature changes
- ideal also for complicated shapes

## **EFFECTIVE VACUUM TECHNOLOGY:**

- optimal full-surface pressing results due to a pressure application of 8 t/m<sup>2</sup>
- extremely quick build-up of ultimate pressure

## **IF NEEDED: CONNECTIBLE CIRCULATING-AIR SYSTEM:**

- short pressing cycles - no delays - high productivity
- even application of temperature, independent of the number of inserted work pieces (applies also to vertical work piece surfaces and indentations)

The technical data contained herein is subject to modifications.



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