WPR TAKA: the best solution for profile wrapping.

WPR / TAKA are the only company in the world to combine the design and performance of profile wrapping machinery with the research and innovative production of Hot Melt PUR adhesives. Italian know-how and quality, together with excellent customer service, guarantee complete systems, for machines and adhesives, of outstanding technical performance.

www.wpr.it
NWA PROFILES WRAPPING MACHINE

WPR / TAKA have developed a winning synergy between profile wrapping machines and Hot Melt PUR adhesives. The best solution, with the best performance, custom produced for each customer, are the result of the experience gathered by the first manufacturer in the world to combine design and construction of machines with the research and production of next generation glues.
NWA is a panel and profile wrapping machine at the forefront of technology, the machine is a result of the extraordinary NWA know-how and quality, and the machine is completely made in Italy.

The NWA system is especially suitable for the wrapping of waferboards, MDF and metal panels, as well as extruded PVC, ABS and PS profiles and panels, using rolls of paper and CPL, PVC, PP, PET, ABS-PMMA veneers.
PRIMER APPLICATION SYSTEMS

The WPR systems guarantee the optimal dosing of primers used to pre-treat the surfaces to be coated, thus improving the final strength and durability characteristics of the wrapping. They are equipped with a high-speed pneumatic dispenser unit, stainless steel containers, level sensors, stainless steel filters, PIREX displays and and a central electronic control system. The dispensers regulate the quantities of both traditional and LOW VOC primer with extreme precision. The stand-by function (the applied primer is reduced to 10%) is present in order to avoid the drying up of the felt pads during the operation breaks.

AUTOMATIC PRIMER DOSING SYSTEM FOR LOW VOC PRIMERS

<table>
<thead>
<tr>
<th>TANK CAPACITY</th>
<th>15 l</th>
</tr>
</thead>
<tbody>
<tr>
<td>APPLICATION QUANTITY</td>
<td>2/50 g/m²</td>
</tr>
<tr>
<td>DISPENSING UNITS</td>
<td>2/20</td>
</tr>
</tbody>
</table>

The system dispenses the primer quantity in g/m² following the working speed. The system is designed for the application of both solvent-based primers and LOW VOC primers.

APPLICATION VACUUM SYSTEM FOR LOW VOC PRIMERS

WPR vacuum, the automatic application vacuum system for LOW VOC primers, uses a shaped template according to the profile to be treated to apply primer on the surface, thus preventing any human error due to the incorrect position of the felt pads. The automatic dosing system ensures maximum precision, of up to 2 g/m². The primer is constantly circulated and purified by an AISI 304 steel filtering system. The high turbulence present inside the system is used, through the targeted action of a system of high-power pumps, to scour the surface of the profile, similar to that used to occur with the use of traditional felt pads.

| TANK CAPACITY | 25 l |
| APPLICATION QUANTITY | 2-10 g/m² |
HOT MELT APPLICATION SYSTEMS

The gluing technology requires the use of Hot Melt and Reactive Hot Melt (HMPUR) adhesives. The adhesives are melted prior to application thanks to the integrated pre-melting system. The automatic glue dosing system is governed by a central processing unit (CPU) that regulates all the system’s processes, the data processing and the set times, the alarms and the safety functions. Unlike other traditional systems, this system simply eliminates the need for manual measurements of the quantity of adhesive to be applied, thus guaranteeing consistently correct doses including when the speed changes, and which result in considerable savings. An “on site” opening system guarantees a safe and quick maintenance of the melting unit.

<table>
<thead>
<tr>
<th>WHM 20 TANK MELTER</th>
<th>WHM 20 POWER DRUM TANK MELTER</th>
</tr>
</thead>
<tbody>
<tr>
<td>TANK CAPACITY</td>
<td>35 l</td>
</tr>
<tr>
<td>MAX PUMP RATE</td>
<td>3/14/30 Kg/h</td>
</tr>
<tr>
<td>MAX MELT RATE</td>
<td>15 Kg/h</td>
</tr>
<tr>
<td>PUMPS</td>
<td>n. 1-2</td>
</tr>
<tr>
<td>HOSES</td>
<td>n. 1-2</td>
</tr>
<tr>
<td>MACHINE DIMENSIONS</td>
<td>1.200x610x1.150 mm</td>
</tr>
</tbody>
</table>

*Max melt rate is to be considered theoretic, as it may vary accordingly to the adhesive used.

<table>
<thead>
<tr>
<th>WF 16 TANK MELTER</th>
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</thead>
<tbody>
<tr>
<td>TANK CAPACITY</td>
</tr>
<tr>
<td>MAX PUMP RATE</td>
</tr>
<tr>
<td>MAX MELT RATE</td>
</tr>
<tr>
<td>PUMPS</td>
</tr>
<tr>
<td>HOSES</td>
</tr>
<tr>
<td>MACHINE DIMENSIONS</td>
</tr>
</tbody>
</table>

*Melt rate is to be considered theoretic, as it may vary accordingly to the adhesive used.

<table>
<thead>
<tr>
<th>WF 160 DRUM MELTER</th>
</tr>
</thead>
<tbody>
<tr>
<td>CAPACITY</td>
</tr>
<tr>
<td>MAX PUMP RATE</td>
</tr>
<tr>
<td>MAX MELT RATE</td>
</tr>
<tr>
<td>PUMPS</td>
</tr>
<tr>
<td>HOSES</td>
</tr>
<tr>
<td>MACHINE DIMENSIONS</td>
</tr>
</tbody>
</table>

*Melt rate is to be considered theoretic, as it may vary accordingly to the adhesive used.

WF 16 TANK MELTER

**CLEAN SYSTEM (PATENTED)**

The exclusive, patented system ensures that the whole machine, including the applicator, the pumps, the hoses and the slot nozzles can be cleaned perfectly, simply and quickly. The system comprises a thermoregulated tank for the Hot Melt cleaner, an integrated electro-pneumatic product change system, a distribution manifold and the relevant electronic switches. The system can be activated also through a remote switch.

The Drum Melt applicator heats only the necessary part of the adhesive surface, thus avoiding thermal stress and preserving the chemical-physical characteristics of the adhesive.
VARIABLE CLEARANCE SLOT NOZZLES

Thanks to their innovative design, the Hot Melt and Hot Melt PUR slot nozzles are compact and simple to use and maintain. They perform a homogeneous distribution of the glue in all conditions, spreading it precisely along the whole length. Also on PVC, they also provide high quality distribution on special foils.

<table>
<thead>
<tr>
<th>WORKING TEMPERATURE</th>
<th>75/225 °C</th>
</tr>
</thead>
<tbody>
<tr>
<td>APPLICATION QUANTITY*</td>
<td>10/200 g/m²</td>
</tr>
<tr>
<td>APPLICATION WIDTH</td>
<td>15/1,350 mm</td>
</tr>
<tr>
<td>TEMPERATURE SENSOR</td>
<td>PT100</td>
</tr>
</tbody>
</table>

*The minimum application density value is to be considered theoretical, as it may vary according to the type of adhesive used.
FOIL SLITTER FOR FOIL ROLLS

Multiple-cut coiling-uncoiling foil cutting machine for paper, PVC and CPL laminate foils. The unwinder shaft installed on quick release recessed seats to facilitate material loading and unloading operations, and the double rewinder shaft operated by a dedicated motor are both governed by a precision sensor for foil tension control.

WTG 700S-1400S

<table>
<thead>
<tr>
<th>MAX SPEED</th>
<th>80 m/min</th>
</tr>
</thead>
<tbody>
<tr>
<td>MAX FOIL WIDTH</td>
<td>max 700-1,400 mm</td>
</tr>
<tr>
<td>MAX COIL DIAMETRE</td>
<td>max 600 mm</td>
</tr>
</tbody>
</table>

NB Performance should be checked based on the analysis of materials to be processed.
OPTIONAL FEATURES

WPR machines can be customised through the installation of optional features that can make the adjustments quicker and more precise, and increase the performance of the production process, thus improving the quality of the finished wrapped product.

- Single Unwinder with Expander
- Unwinder with Automatic Braking Control
- Double Unwinder with Expander
- Double Unwinder with Automatic Braking Control
- Foil Heating Plate
- Semi-Automatic Foil Splicing Unit with Unwinders
- IR Lamp
- Precision Foil Guide
- Air Heaters
- Automatic Profile Foil Placement
- Slot Nozzle Automatic Placement

- Rapid Tool-Change System
- Lateral Guide at Profile Entry
- Rapid Hydraulic Tool-Change System
- Manual Opening Shoulder
- Outgoing Cutting System
- Foil Trimming Machines
- Draft Wheels Quick Movement, 5 mm Step
- Simultaneous Opening of Draft Wheels
- Foil Trimming Kit
- “Push and Pull” Quick Change System

- Primer Cabin
- Ionised Air Blowers
- Lateral Guide at Profile Entry
- Cleaning Brush
- UV Lamp

WPR machines can be customised through the installation of optional features that can make the adjustments quicker and more precise, and increase the performance of the production process, thus improving the quality of the finished wrapped product.
In the initial processing phase, WPR customised systems guarantee high quality preparation and treatment of the profile surfaces and a considerable control of the production process, that is made safe and reliable.

**PRIMER CABIN**
The cabin protects the primer application area and is equipped with a suction unit.

**IONISED AIR BLOWERS**
System for the elimination of electrostatic charges and impurities from the profiles.

**LATERAL GUIDE AT PROFILE ENTRY**
2-axis, manual adjustment guide for the alignment of incoming profiles.

**CLEANING BRUSH**
Brush used to remove impurities from the profile.

**UV LAMP**
Primer application control system.
In the central processing phase, the WPR optional systems guarantee “tailored” and constant processes, to increase the quality of the final product.

**SINGLE UNWINDER WITH EXPANDER**
Single unwinder for foil rolls, with pneumatic-assisted braking system. Pneumatic expansion roll lock.

**UNWINDER WITH AUTOMATIC BRAKING CONTROL**
Single unwinder for foil rolls, with automatic braking control system. Pneumatic expansion roll lock.

**DOUBLE UNWINDER WITH EXPANDER**
Double unwinder for foil rolls, with pneumatic-assisted braking system. Pneumatic expansion roll lock.

**DOUBLE UNWINDER WITH AUTOMATIC BRAKING CONTROL**
Double unwinder for foil rolls, with automatic braking control system. Pneumatic expansion roll lock.

**FOIL HEATING PLATE**
Heating plate for pre-heating foils.

**SEMI-AUTOMATIC FOIL SPLICING UNIT WITH UNWINDERS**
Automatic foil splicing system, with profile/splice synchronising device.

**IR LAMP**
Infra-red lamp for profile heating.
**OPTIONAL FEATURES 2**

**PRECISION FOIL GUIDE**
Precision foil/profile alignment system with manual adjustment.

**AIR HEATERS**
Air regulators with temperature control (from 0° to 600° C) and outgoing air flow.

**AUTOMATIC PROFILE FOIL PLACEMENT**
The automatic control system guarantees the correct placement of the decorative foil on the profile.

**SLOT NOZZLE AUTOMATIC PLACEMENT**
The automatic control system guarantees the correct placement of the slot nozzle in respect to the foil.
In the third phase WPR accessories integrate the system with features that reduce tooling times and increase production speed.

**RAPID TOOL-CHANGE SYSTEM**
Mechanical eccentric locking system for the rapid exchange of profile guide and lamination tools.

**RAPID HYDRAULIC TOOL-CHANGE SYSTEM**
High precision hydraulic locking system for profile guide and lamination tooling, complete with hydraulic pump.

**LATERAL GUIDE AT PROFILE EXIT**
2-axis, manual adjustment guide for the alignment of outgoing profiles.

**MANUAL OPENING SHOULDER**
Transfer system for the tools placed on board of the machine, complete with position indicator.
OUTGOING CUTTING SYSTEM
Automated system for on-line separation of profiles after lamination.

FOIL TRIMMING MACHINES
Excess foil, veneer or CPL trimming system, complete with autonomous high speed motor and 3-axis adjustment.

DRAFT WHEELS QUICK MOVEMENT, 5 mm STEP
Fast regulation system that makes it possible to move the individual draft wheels by means of a mechanical guide and stop devices, with a 5 mm step.

SIMULTANEOUS OPENING OF DRAFT WHEELS
Fast action that can be triggered directly from the mechanical register for the simultaneous opening of the draft wheels.

FOIL TRIMMING KIT
Excess foil trimming that can be oriented from 0° to 90°, complete with adjustable flow “Venturi” pneumatic suction system.

“PUSH AND PULL” QUICK CHANGE SYSTEM