

with which the coating is applied - between the centre and the edges of the wide width fabrics being treated. With the use of a magnetic roller, there is no difference in the pressure being applied anywhere on the fabric.

Our magnetic roller technology provides textile finishers with an expanded range of options due to the fully-adjustable positioning of the magnet within the roller. With four different magnet positions possible, the roller can be set to operate both as a direct coating system and as an indirect coater. We recommend the use of this technology for companies working with fabrics of over 2.4 metres.

Adjusting the roller surface, rather than changing the finishing formulation, to match the required add-on and viscosity for each coating effect required, leads to much higher output from the line.

#### Hand-held control

Furthermore, adjustments can now be made simply and easily with the new hand-held remote controller which has recently been introduced for the Montex®Coat unit.

This is a really big help because making adjustments manually was previously quite time consuming and operators had to move between the

fixed control panel and the position of the adjustment constantly. It also allows an operator to check that the knife is precisely positioned by simply holding the device in the position where he or she can see and measure the gap. With the device the motors can be controlled and the necessary adjustments carried out.

Also offered as an option for the Montex®Coat is a carbon fibre roller for meeting even the highest level of coating accuracy that is being demanded by the most exacting customers today.

This provides the extreme stiffness necessary to deal with the winding tension required in the processing of materials such as prepregs for composites and other heavyweight fabrics, but at the same time, a significant improvement in coating accuracy is achieved, even for very lightweight flexible materials. In addition, the surfaces of the rollers are protected against both abrasion and damage from aggressive chemicals by a special ceramic coating.

Agent for Belgium:  
LE CLAIR & MEERT nv  
Deinzesteeweg 25  
9770 KRUISEM  
Tel.: 09 333 88 88  
Fax: 09 333 88 99  
Email: info@leclairmeert.be  
Website: www.leclairmeert.be



Picture 1: Adjustments can be made simply and easily with the new hand-held remote controller which has recently been introduced for the Montex®Coat unit



Picture 2: The Montex®Coat unit available for customer trials at the Monforts Advanced Technology Centre in Mönchengladbach, Germany



Picture 3: A typical integrated Monforts coating line is automated from the inlet feed to the winder

## MODERN OLBRICH COATING AND LAMINATING MACHINERY

OLBRICH is a leading manufacturer of customized designed and manufactured production equipment of coating and laminating lines as well as single machines. OLBRICH serves besides the wallcovering, flooring and technical textiles industries also the paper, film and foil converting industry in Europe and worldwide.

OLBRICH GmbH with Polytype Converting GmbH and R+S Technik GmbH form today's OLBRICH Group with approx. 900 employees in their global network of facilities. As a production machinery and equipment manufacturer that has been operating successfully on the market since 1949.

The sound process knowhow in combination with the own technical centres in Germany and

Switzerland with five different pilot plants allow the realization of innovations: they provide proven knowledge on planned investments under production conditions and are the perfect complement of the engineering competence rendered by OLBRICH.

The main features of the three pilot lines located in the headquarter in Bocholt, Germany are:

**1<sup>st</sup> Pilot line BA-1:** This coating and laminating line has a working width/speed of up to 22"(558.8mm)/300fpm. It can be adapted for any process, including the components listed above. Newly developed designs and modules can be added at customer's request, for testing new ideas and/or products.

**2<sup>nd</sup> Pilot line BA-2:** This paper/

film/foil coating and laminating line with a working width/speed of up to 42"(1050 mm)/1640fpm. It incorporates latest technologies with focus on coating, laminating and drying for high-end products and it can also be adapted for any process, including the components listed above.

**3<sup>rd</sup> Pilot line PLA-1:** This embossing and laminating line has a working width/speed of up to 40"(1000mm)/650fpm. It offers a wide range of heat lamination of up to three layers and embossing technology at production scale.

OLBRICH became the major supplier of production lines for the modern wallcovering industry – for good reason – because OLBRICH lines set standards both in regard to efficiency and to the flexibility

of applications. From the single winding machines up to the complex combined printing lines. We supply a custom-fit high-quality line to you which is easy to maintain. This is advanced technology for the wallcovering industry.

In addition to the conventional wallcoverings available on the market, there is a wide range of textile wallcoverings or special wallcoverings offered on the market by the most diverse manufacturers. To differentiate these product segments in the field of textile or special wallcoverings, we refer to them as "commercial wallcoverings". The product segment addressed here is a relatively large market, which is offered almost exclusively in North and Central America and Asia, but can also be found more and more here in Europe in the hotel and catering industry and in hospitals.

A textile wallcovering or commercial wallcovering is, as the name suggests, a textile wallcovering. More precisely, it is a wallcovering whose surface consists of textiles. There are many different materials such as silk, velour, jute, imitation leather, linen and also cover foils and PVC foils for the backs. Depending on the textile material used, a smooth, fine, crimped or coarse surface structure characteristic of the material is created.

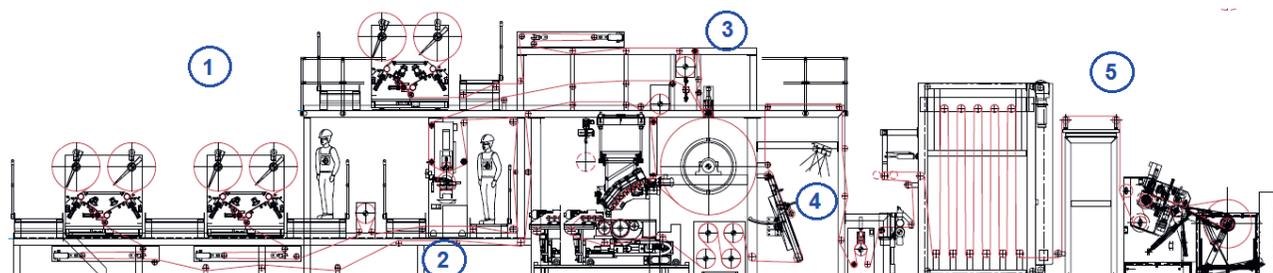
While the upper layer of a commercial wallcovering can thus consist of different textiles, the reverse side of the wallcovering has a PVC, TPO or, more recently, a nonwoven backing.

The production process to create the permanent bond between the upper material from textile and the carrier material is called laminating. Today, dispersion lamination (or "wet lamination") is mostly used for this purpose.

Here, the carrier material is wetted with a dispersion adhesive and then the textile outer material is applied to it. The advantage of this lamination is that it is permeable to air and thus prevents the formation of mould behind the wallcovering.

OLBRICH GmbH offers a wide range of different machines and complete systems to produce these special wallcoverings products. Enclosed you can see a sketch of a typical production plant for the lamination the different layers: textile, foil and also PVC sheets form the commercial wallcovering.

Agent for Belgium:  
GETCO nv / Olivier Guillaume  
Loofstraat 30  
8500 KORTRIJK  
Tel.: +32 (0)56 22 19 01  
Mob.: + 32 (0)479 33 98 70  
Email: info@getco.be  
Website: www.getco.be



Picture 1: a sketch of a typical production plant for the lamination the different layers

Legend:

1. Unwind area with three unwind stations for textile and foil material
2. Coating station for the wet coating process
3. Laminating station with big laminating drum and embossing unit
4. Inspection table direct after the embossing
5. Re-winding area with accumulator and re-winder for big rolls



Picture 2: detail of zone 2



Picture 3: detail of zone 4

## MAHLO'S SAVING RESOURCES THROUGH PROCESS CONTROL

**The most valuable energy is that which has never been used**

The experience of statistical offices and other institutions shows that energy saving and thus cost reduction potentials regularly remain untapped. This is a common theme in all industrial sectors. The textile industry is no exception. Many measures with which the potentials can be made visible or

even already implemented require only small investments in relation to the savings achieved and entail little effort. Suitable measurement and control technology can drastically increase the energy efficiency of production plants. At the same time, this means increased productivity with mostly improved, reproducible quality and optimized raw material costs. A welcome side effect for the

manufacturer is the additional cost reduction.

Mahlo has developed the Qualiscan QMS quality-measuring system to measure, record and control-critical process parameters such as moisture, layer thickness, basis weight, coating application, material composition and many more. The various sensors and measuring frames of the modular system can