



COATING

Finishing Systems for Coating and Printing



MADE IN AUSTRIA



FINISHING SYSTEMS
FOR COATING AND PRINTING



the multipurpose coating system for textiles, plastics, nonwovens, paper, glass fibre, tissues, ...



the multipurpose coating machine with high precision counter roller



for paste and foam applications on technical textiles, standard textiles, carpets, upholstery, nonwovens and glass



for foam applications on technical textiles, standard textiles, carpets, upholstery, nonwovens, glass fibre, tissues, ...



Agrotech



Buildtech



Clothtech



Medtech



Mobiltech



Oekotech



Geotech



Hometech



Indutech



Packtech



Protectech



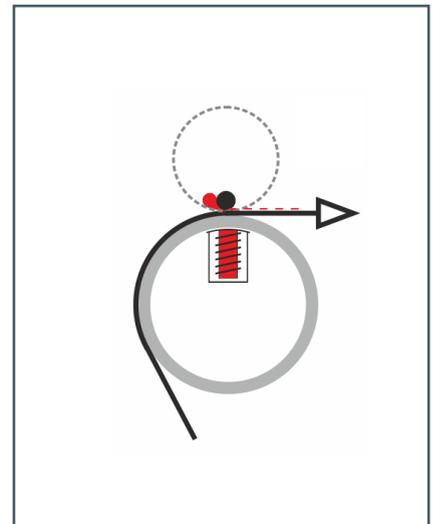
Sporttech

Magnoroll - screen coating

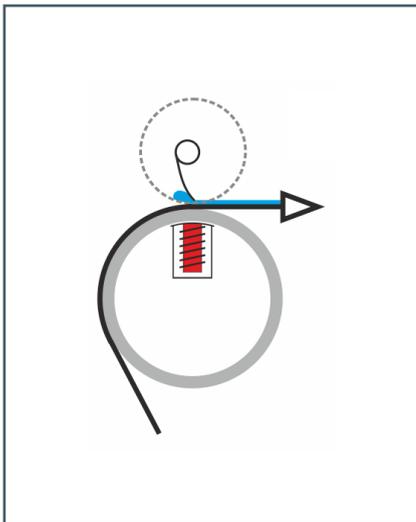
Rotary screen station for paste or foam application with the famous Zimmer Magnet System roll rods or magnet blade squeegee, optionally with mechanical blade squeegee in vertical or horizontal position. Available in working widths from 500 mm - 3200 mm and repeat sizes of 640 mm - 914 mm.



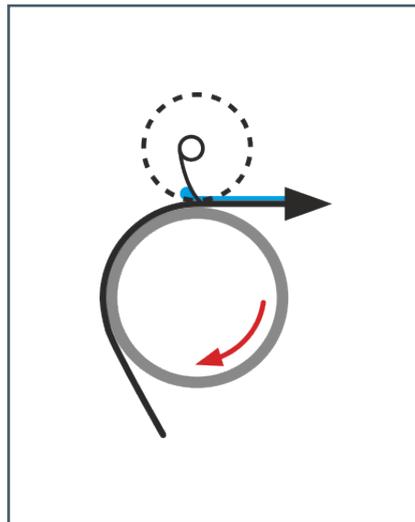
Magnoroll screen application



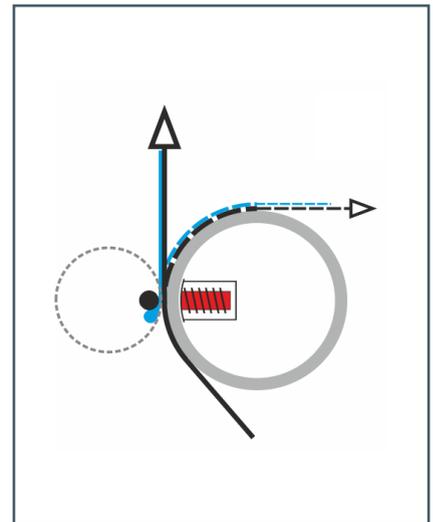
Horizontal roll rod application



Magnet blade squeegee



Blade squeegee for max. 200 cm



Vertical screen application

Rotascreen - Closed bearing system G

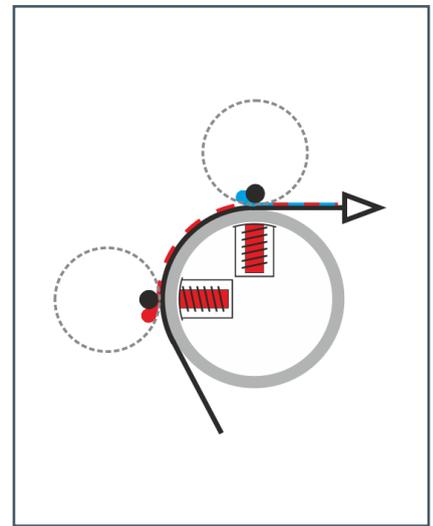
Individual width adjustment of both print heads allow narrow printing on any wider machine. The original **Zimmer Magnet System Plus** combines the advantages of the Magnet System with the traditional blade system.

Magnoroll - two screen system

The Magnoroll coating and printing machine can optionally be equipped with two rotary screens for simultaneous application.



Coating and printing with two rotary screens



RMR-2 RS



Foam generator



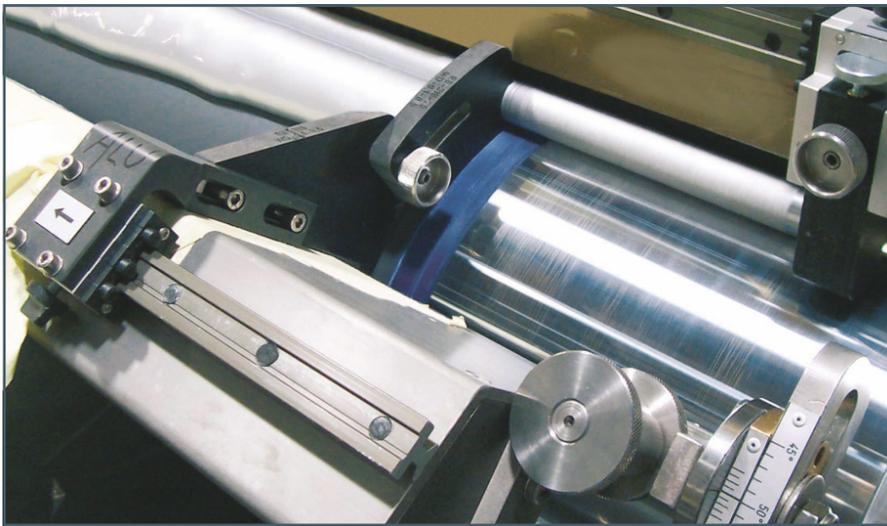
Paste pump

The necessary application amount of any stable or instable foam is being supplied by an automatic computer controlled foam generator.

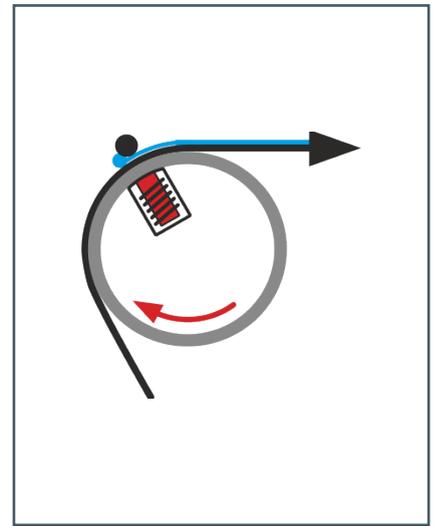
Paste pump system

Magnoroll - roll coating and PVC lacquering

Magnoroll system for perfect uniform minimum application of liquids with the magnet roll rod in various application positions with either single roll rod or twin roll rod.



Magnoroll 11 o'clock application position



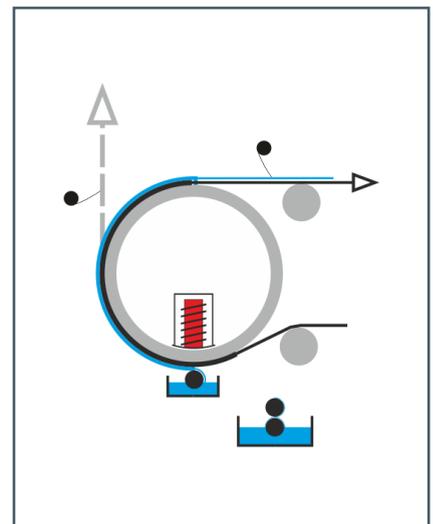
Magnoroll 11 o'clock



PVC lacquering with one roll rod



PVC coating with two roll rods



Single and twin roll rod system

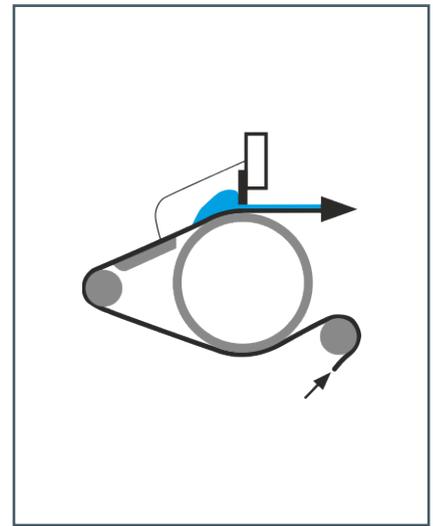
For PVC coating and lacquering the Zimmer Magnet System guarantees 100% even application at any application width from 500 to 5600 mms.

Magnoroll - knife coating

The reversible high precision beam is equipped with two knives (possible in different executions) and ensures perfect even application and fast adaptation for different products. Standard basic execution comes with manually operated side limiters and counterbars. Optionally motorized limiters are available.



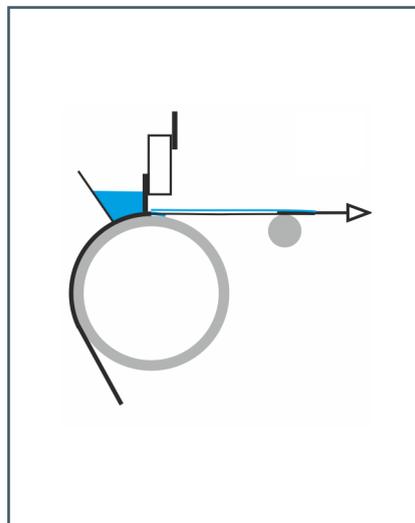
Magnoknife coating machine



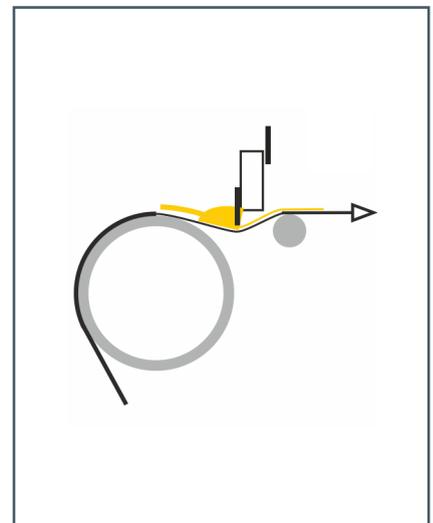
Foam coating with Magnoknife



Foam coating machine



Paste or foam coating - MK over roller



Paste coating - MK on air

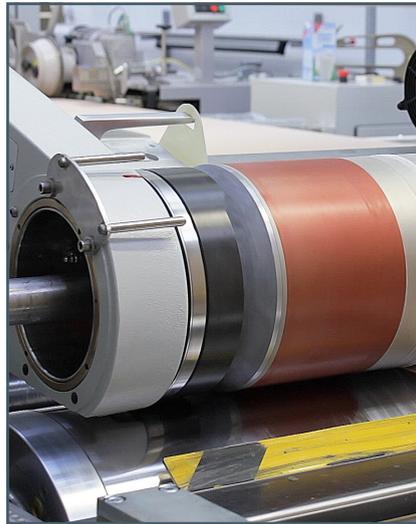
The high precision beam is adjustable 360° degrees and can be locked at any position by pneumatically operated brakes. The Magnoknife can be positioned horizontal and vertical by each two servo gear motor drives. Available in working widths from 500 - 5400 mm.

Triplexcoat multipurpose coating machine

The modular machine design concept with knife, rotary screen and Magnojet slot nozzle device for uniform, high precision paste and foam coating.



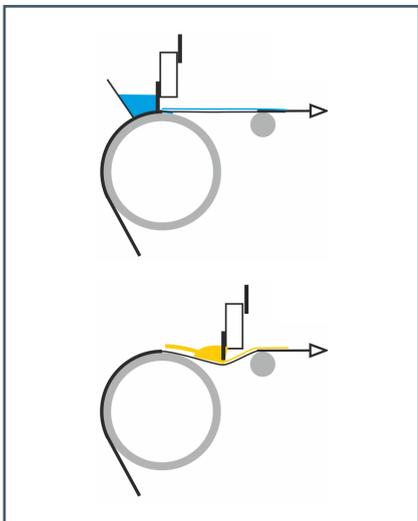
Knife coating machine



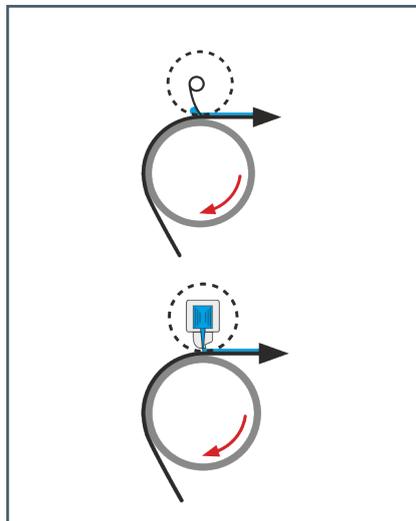
Screen coating machine



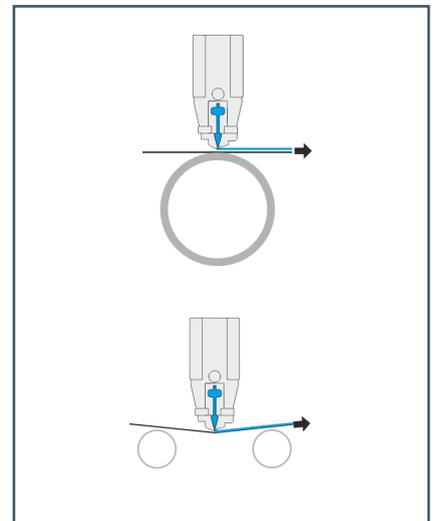
Magnojet coating machine



Knife coating applications



Screen coating applications



Magnojet coating applications

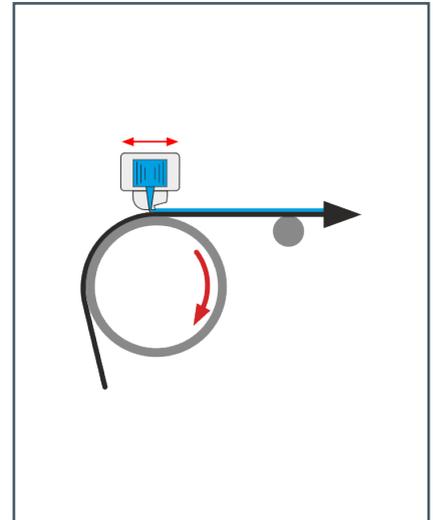
The Triplexcoat knife and Magnojet coating machine is available in working widths from 500 - 3400 mm, screen coating with blade squeegee is available in maximum 2000 mm. It can be integrated into any existing stenter line or delivered as a special coating plant.

Magnojet - foam coating system

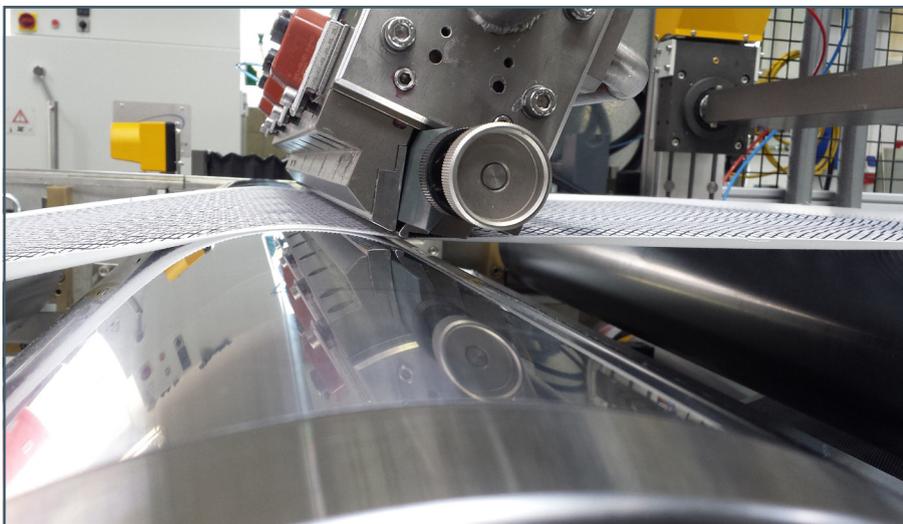
is a closed coating system for paste or foam application in many different working positions. Controlled application by means of a constant substance feeding pump with an inline flow meter unit or a foam mixing unit with software controlled weight measuring system.



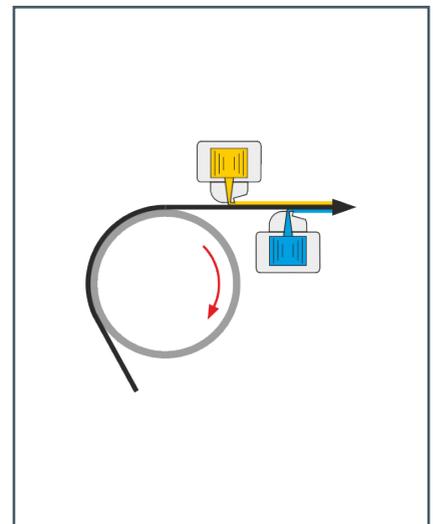
Magnojet coating machine



Magnojet foam coating over roll



Magnojet coating machine



MJ optionally double side on air

Advantages

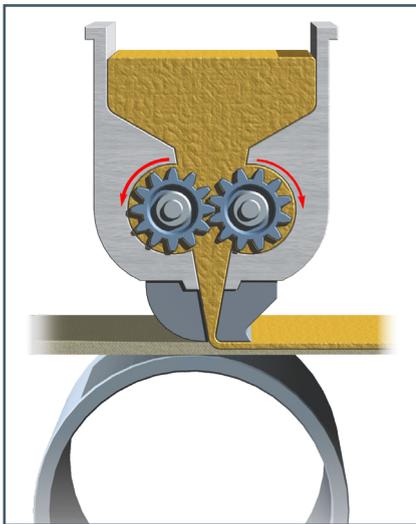
Closed application system, as such avoiding the evaporation of liquids, no pollution and no creation of foam during paste application. No extra amounts of application media necessary within the system. The power of capillar force and pressure act between the slot and the substrate.

(For more details please see our separate Magnojet leaflet)

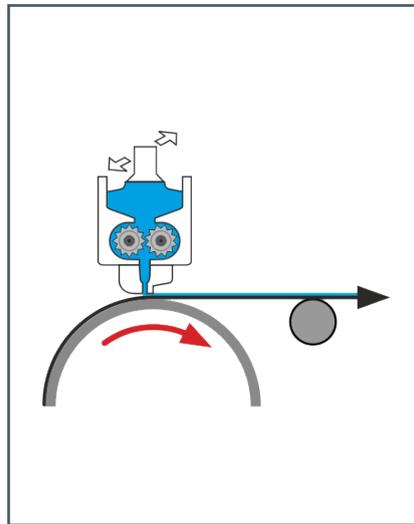
Variopress - foam coating system

For foam applications on technical textiles, standard textiles, carpet, upholstery, nonwovens, glassfibre, tissues ...

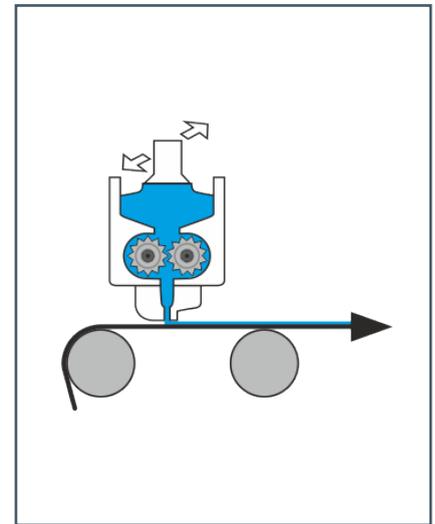
variopRESS
FOAM COATING SYSTEM



Variopress application machine



Foam application over roll



Foam application on air



Exchanging of tooth gears

The only foam application system worldwide that gives you 100% control of the foam application amount independently of line speed, web tension and/or absorbance characteristic of the coated web. Web contact or „contactless“ application are possible.

The tooth gears are driven with steplessly adjustable speed. The foam application amount and penetration into the material are determined by the speed of the tooth gears with 100% uniformity and absolutely constant from the first to the last centimeter.

Off-contact surface application or exactly defined penetration are steplessly adjustable from 0 to 100%.

Options for the installation

The Variopress foam and paste application machine can be installed at the front of any new or existing stenter frame or coating line.

Laboratory machines and devices

All application systems are available as laboratory machines and devices such as knife coating system, rotary screen application system with roll rod and blade squeegee, magnet roller application and foam application systems. Available in working widths of 200 mm - 1000 mm.



Lab - Variopress foam application device



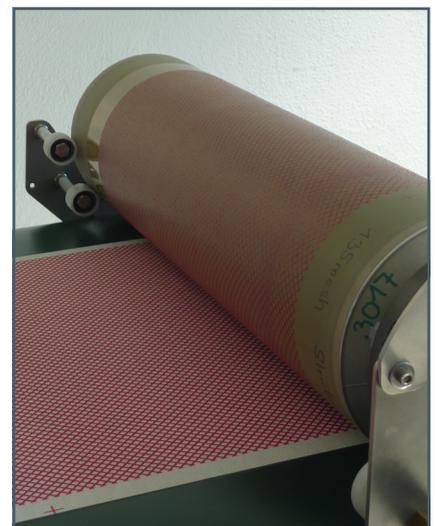
Lab - knife coating application



Laboratory knife coating machine



Lab - Magnojet foam application



Lab - rotary screen system



Coating, printing and laminating line - modular design allows each line to be custom built

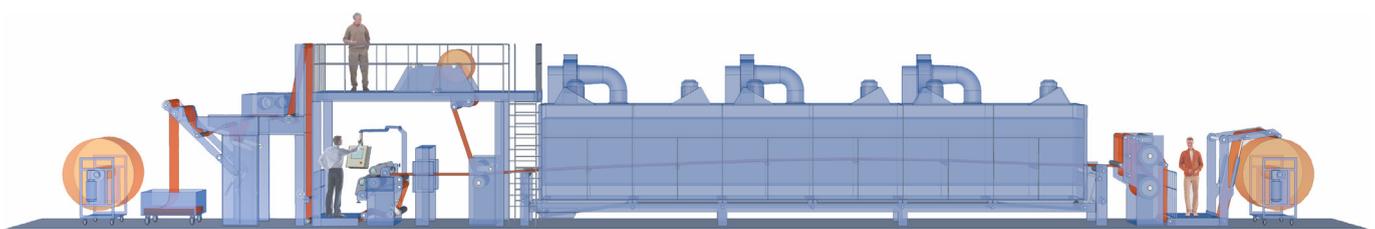
- | | |
|---|--|
| 1 Big-batch unwinding device | 7 2nd material unwinding & laminating station |
| 2 Feeding system for plaited materials | 8 Hot air dryer with conveyor belt & gas heating |
| 3 Material compensator | 9 Crusher |
| 4 Material cleaning device | 10 Drawing and cooling station |
| 5 Magnoroll machine | 11 Steering roller frame for web guiding |
| 6 Application quantity measuring system | 12 Edge cutting device |
| | 13 Surface or central driven rewinding device |

1 | 2 | 3 | 4 | 5 | 6 | 7 |

8 |

9 | 10 | 12 |

11 | 13 |



FIRST IN QUALITY & FIRST IN SERVICE

PIONEERING INNOVATIONS FOR MORE THAN 135 YEARS



J. Zimmer Maschinenbau GmbH
Screen & Coating Systems

Ebentalerstrasse 133
9020 Klagenfurt
Austria

phone +43 (463) 38 48
e-mail sales@zimmer-austria.com