

**18. Hofer Vliesstoff-Tage
5. und 6. November 2003**

Entwicklung der Vliesstoff-Beschichtungstechnologien

**Johannes P.M. Zimmer & Alfred Habenbacher & Wilhelm Gericks
J.Zimmer Maschinenbau GmbH Klagenfurt, Austria**

1874 – 2004



1874 Gründung durch Franz Zimmer in Warnsdorf



Franz Zimmer



Julia Zimmer



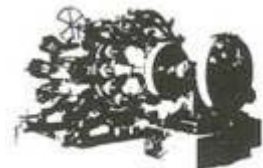
Heinrich Zimmer



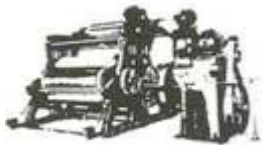
Johannes Zimmer



Peter Zimmer



Rechtarben-Druckmaschine



Duplex-Druckmaschine





Die **Zimmer Firmengruppe** gehört der **Johannes Zimmer Privatstiftung**, geführt vom **Stiftungsrat** und dem **Geschäftsführungs-Team**



Heinrich, Peter, Johannes, Roland J.P.,
und Johannes P.M. Zimmer



Dr. Gerhard Fresacher, Hans Lettner,
Johannes P.M. Zimmer, Karl Wechselberger,
Johann Baumgartner



Tradition,
Erfahrung und
junges,
dynamisches
Management sind
die Basis für top-of-
the-line moderne
Textilmachinen
Fertigung



INTERN. KLASSIFIKATION TECHNISCHER TEXTILIEN

1. **Agrotech** – textiles for agriculture and forest-management
2. **Buildtech** – construction textiles
3. **Clothtech** – clothing textiles
4. **Sporttech** – sport textiles
5. **Geotech** – geo textiles
6. **Homotech** – home and house textiles
7. **Indutech** – industrial textiles
8. **Medtech** – textiles for medicine and hygiene
9. **Mobiltech** – mobile textiles
10. **Oekotech** – oeko textiles
11. **Packtech** – packing textiles
12. **Protech** – protection textiles



PRINTING COATING DYEING FINISHING

magnorOLL
FINISHING SYSTEM

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

variopRESS
FOAM DYEING SYSTEM

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

twinCOAT
FINISHING SYSTEM

for PVC-coating and lacquering simultaneously on both sides of the fabric.

miniROLL
FOULARD DYEING SYSTEM

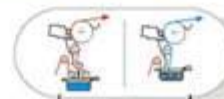
Mini-Roll foulard dyeing machine.



Zimmer
AUSTRIA



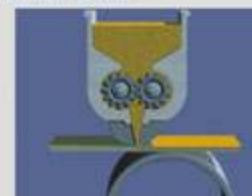
miniROLL
POULARD DYING SYSTEM



magnorOLL
COATING DYING FINISHING SYSTEM



variOPRESS
FOAM COATING SYSTEM



twinCOAT
COATING LAQUEERING SYSTEM



Zimmer
AUSTRIA



magnorOLL 
COATING DYING FINISHING SYSTEM

magnorOLL
COATING DYEING FINISHING SYSTEM

Multipurpose coating machine for working widths from 50 to 540 cms
The most versatile coating machine on the market. 100% even application with the Zimmer Magnet-System guaranteed, with or without the use of rotary screens. Coating in horizontal or vertical web direction. Very compact machine design that can easily be fitted into existing production lines.



International classification

-  Agrotech
-  Buildtech
-  Clothtech
-  Medtech
-  Mobiltech
-  Oekotech
-  Geotech
-  Hometech
-  Indutech
-  Packtech
-  Protech
-  Sporttech

Screen Coating



GMA Coating



Knife Coating



Transfer Coating

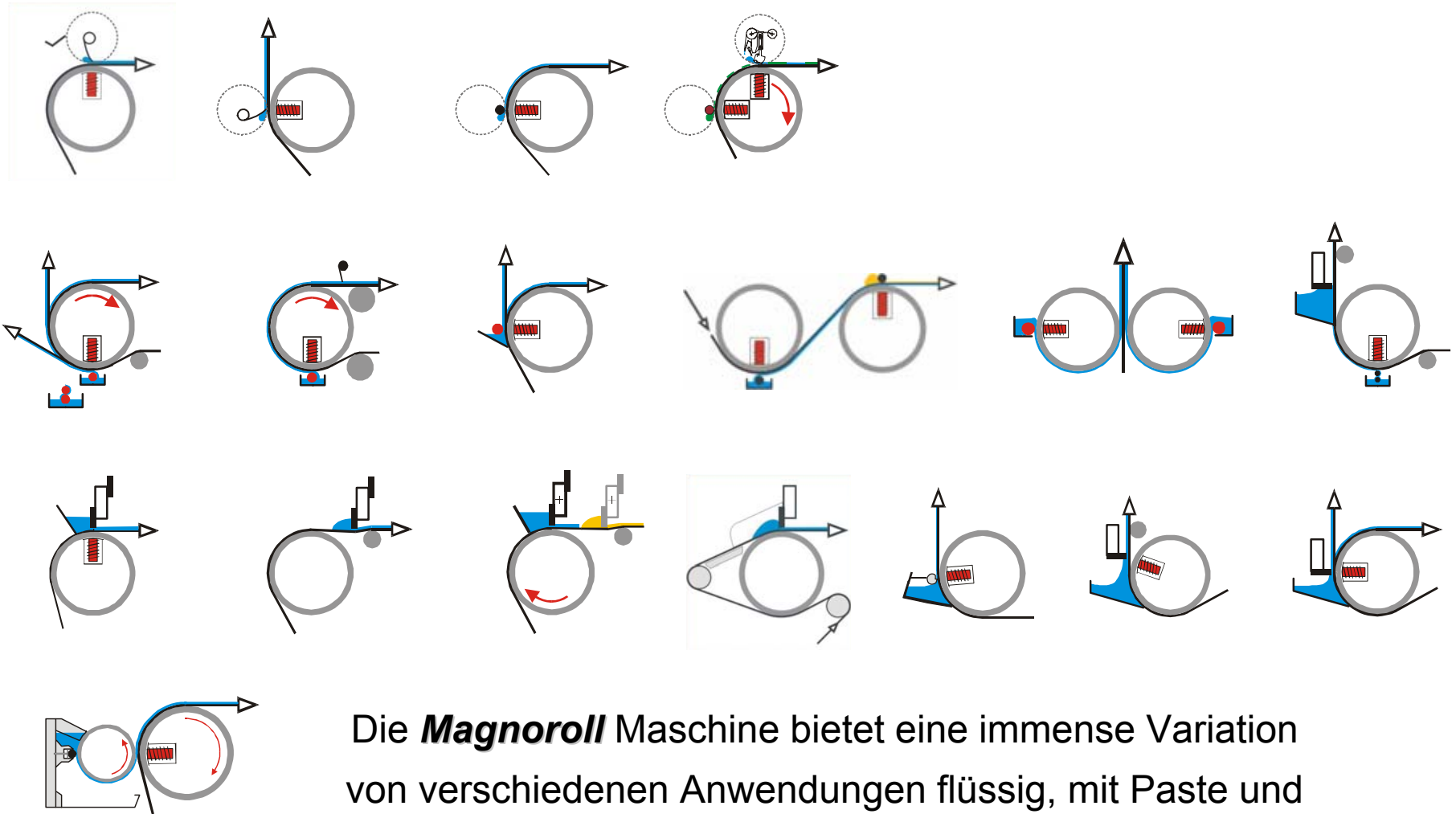


Modular machine design concept for

- Screen coating
- GMA direct Roller Coating
- Knife Coating
- Transfer Roller Coating

for uniform coating of liquids, paste and foam





Die **Magnoroll** Maschine bietet eine immense Variation von verschiedenen Anwendungen flüssig, mit Paste und Schaum innerhalb eines modularen Maschinenkonzept



Magnoroll direct magnetknife coating of sun protection material with precoloured PVC-strips



Foam coating with Magnoknife System



magnoroll
COATING DYEING FINISHING SYSTEM

Standard textile coatings with open rotary screen in front of stenter frame



GMA system for perfect uniform minimum application of liquids and pastes with magnet rollrod



Magnoroll transfer roller application system

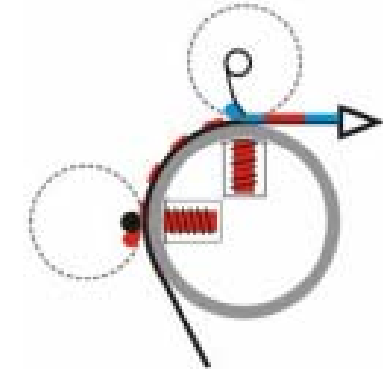
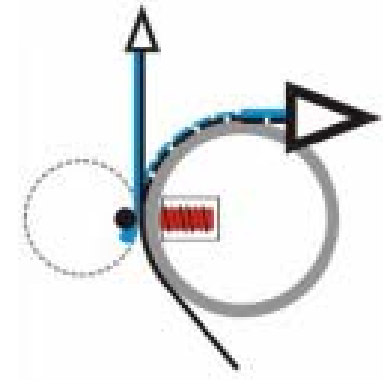


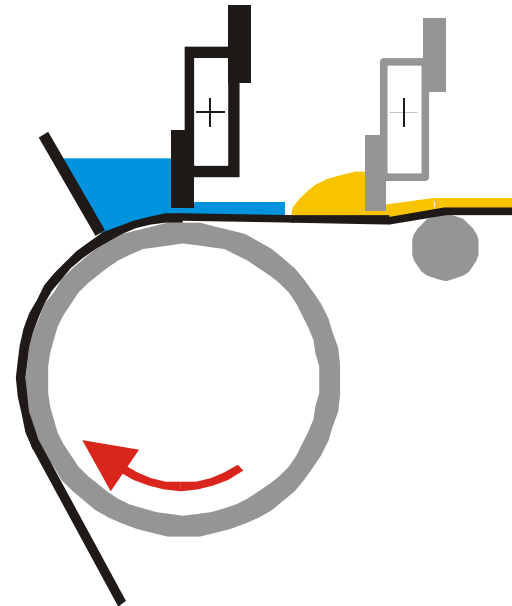
COATING, PRINTING AND LAMINATING LINE

- 1 Big-bath unwinding device
- 2 Feeding system for plated materials
- 3 Material compensator
- 4 Material cleaning device
- 5 Magnoroll machine
- 6 Application quantity measuring system
- 7 Second material unwinding and laminating station
- 8 Hot air dryer with conveyor belt with gas heating, thermo oil heating or steam heating
- 9 Crusher
- 10 Drawing and cooling station
- 11 Swivelling frame
- 12 Edge cutting device
- 13 Surface or centrally driven rewinding device



Modular design allows each line to be custom built



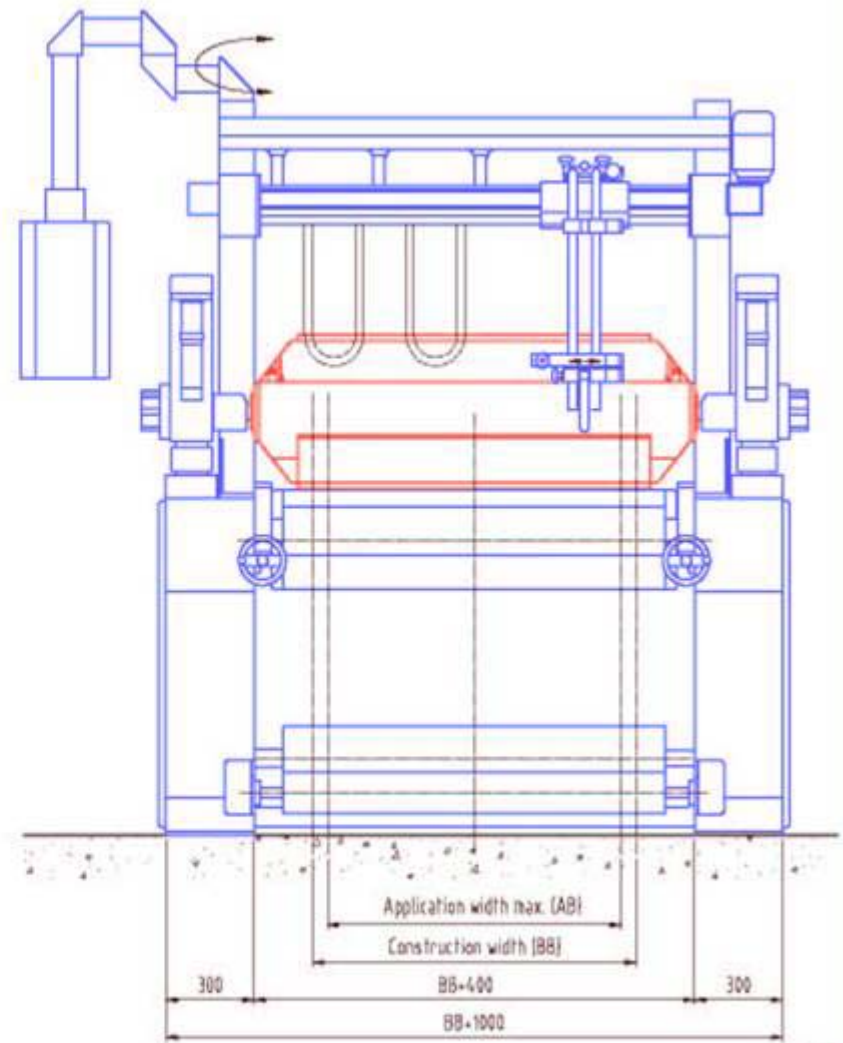
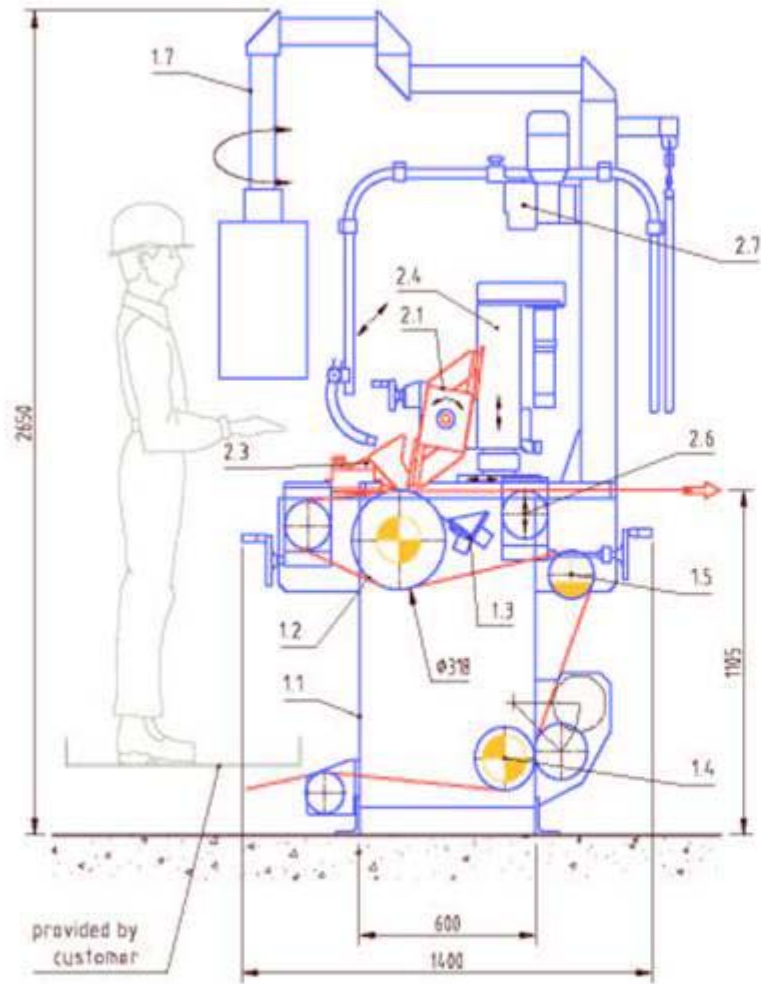


Magnoroll

Schaumbeschichtung oder Pasten-
beschichtung mit **Walzenspaltrakel**
oder mit **Luftrakel**

OPERATING SIDE

DRIVE SIDE



Technische Änderungen vorbehalten
subject to technical alterations

Alle Maße in "mm"
all measures in "mm"

Datum: 03.09.2003	Reviz: Ge. Scherz
Zeichn. Nr.: 213020-107-3	

FOAM- AND PASTE COATING MACHINE
Type RMR-STR-MKIV

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WITHOUT OUR PERMISSION

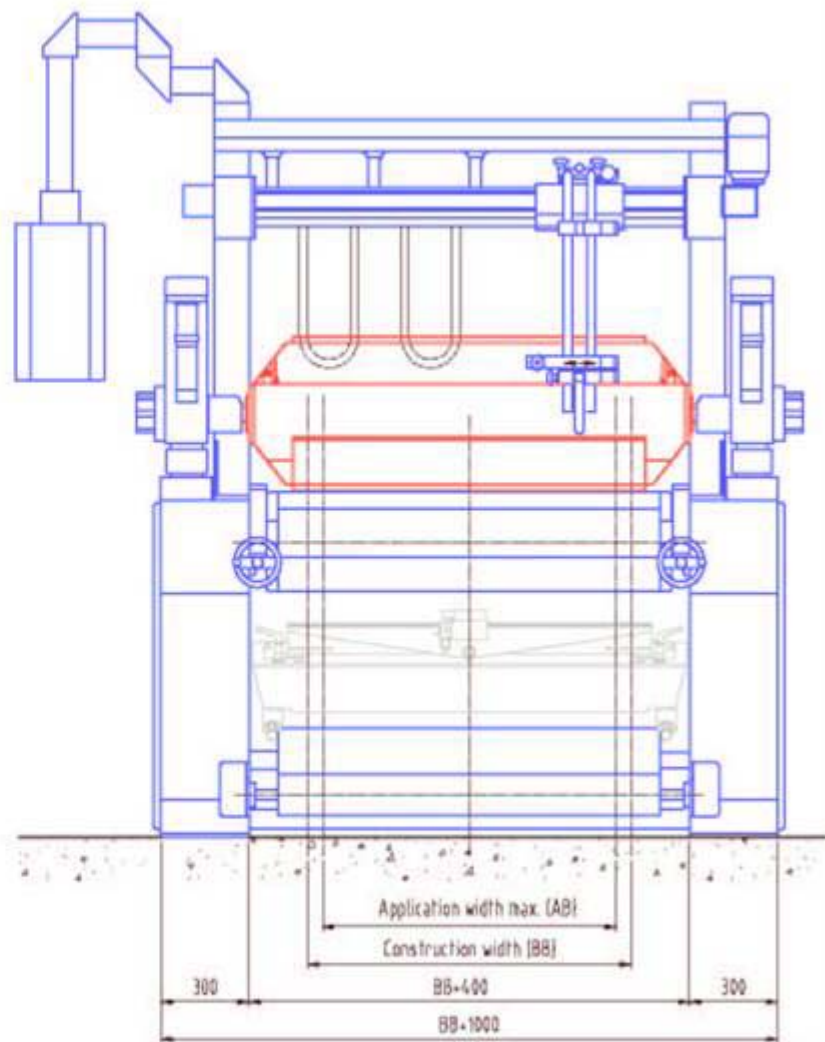
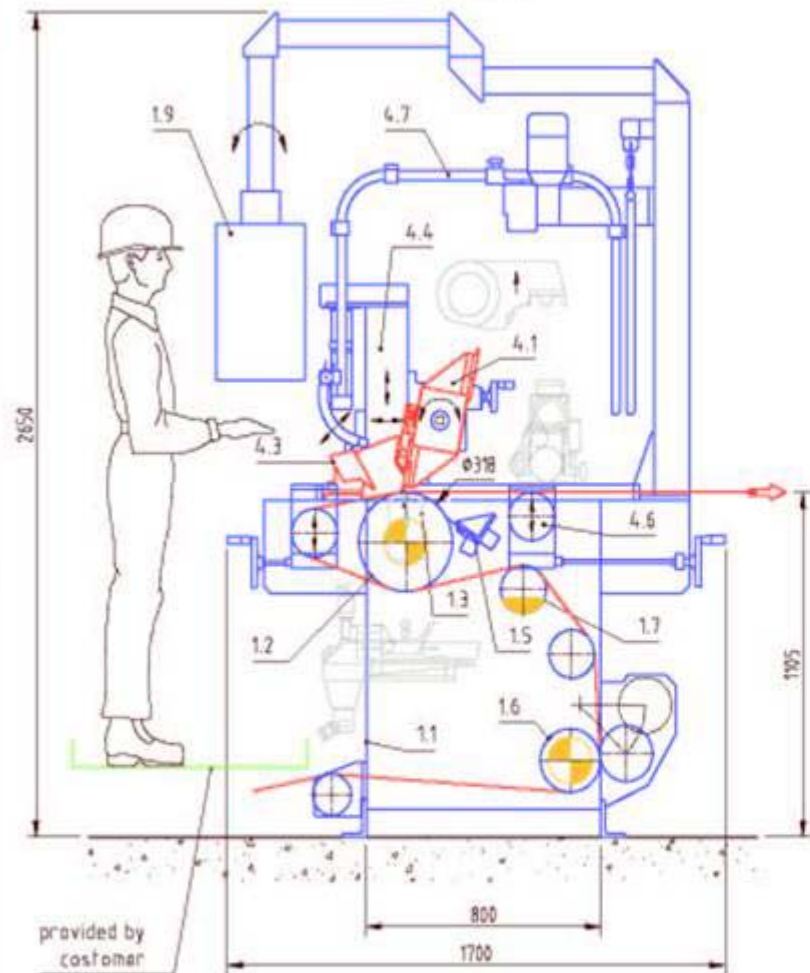


Datum: 11.05.2003
 Reviz: 01
 Name: Ge. Scherz
 Zeichn. Nr.:

KINIFE-OVER-ROLL
FOAM APPLICATION

OPERATING SIDE

DRIVE SIDE



Technische Änderungen vorbehalten
subject to technical alterations

Alle Maße in "mm"
all measures in "mm"

Datum: 03.06.2003	Reviz: Ge. Scherz	Benennung:
Zeichn. Nr.:	213020-098-3	Bl. 1

MAGNOROLL PRINTING- and COATING MACHINE
TYPE RMR-RS-GMA/F-MKIV

Funk:

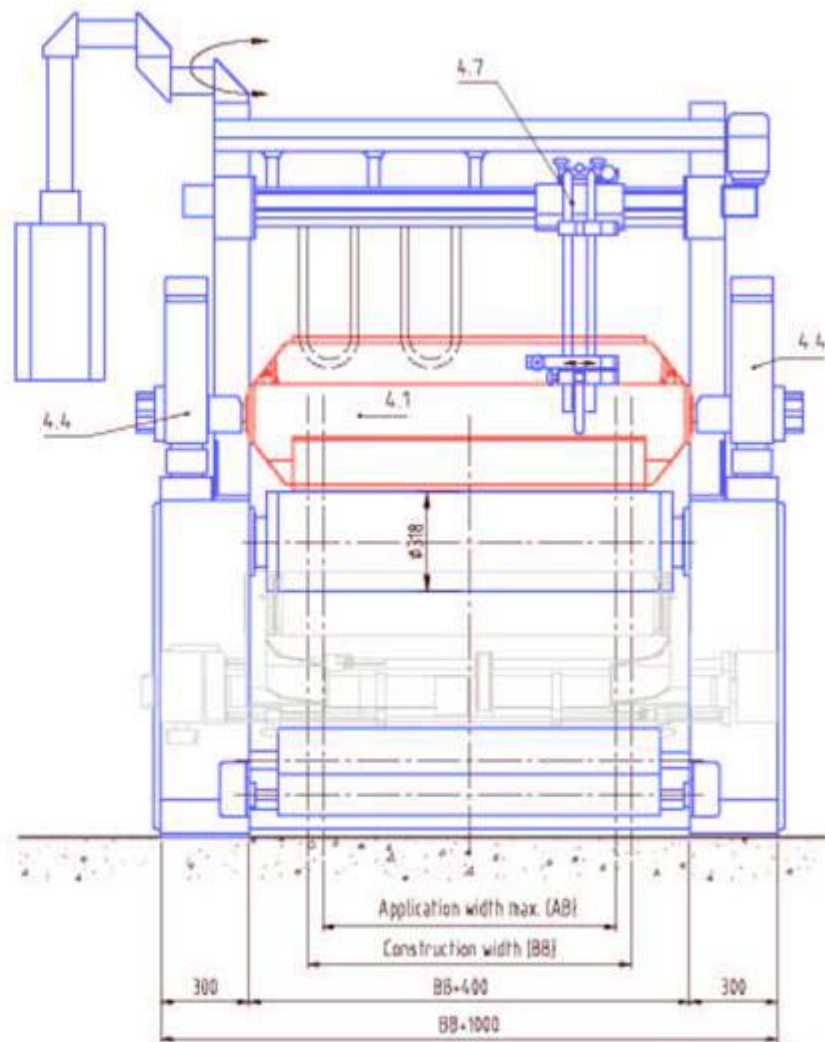
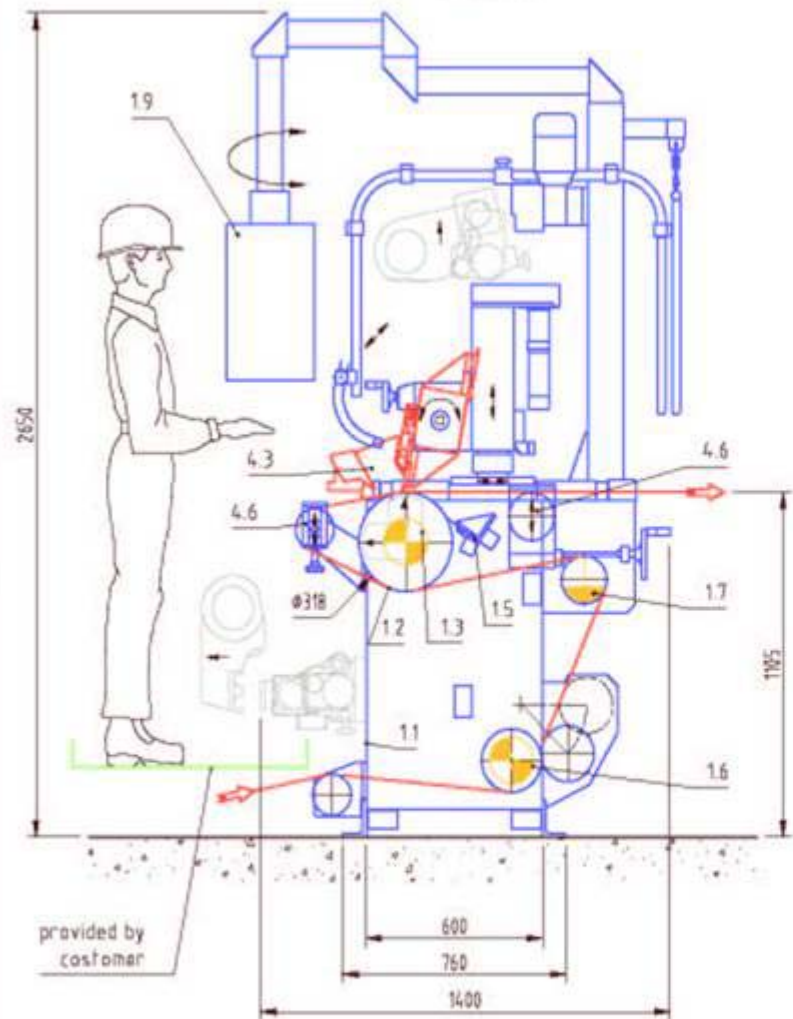
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J. Zimmer
Maschinenbau Ges.m.b.H.

KINIFE-OVER-ROLL
FOAM APPLICATION

OPERATING SIDE

DRIVE SIDE



Technische Änderungen vorbehalten
subject to technical alterations

Alle Maße in "mm"
all measures in "mm"

Datum: 10.01.2003	Reviz: Ge. Scherz	Benennung:
Zeichn. Nr.: 213020-105-3		Bl. 1

MAGNOROLL PRINTING- and COATING MACHINE
TYPE RMR-2RS-MKIV

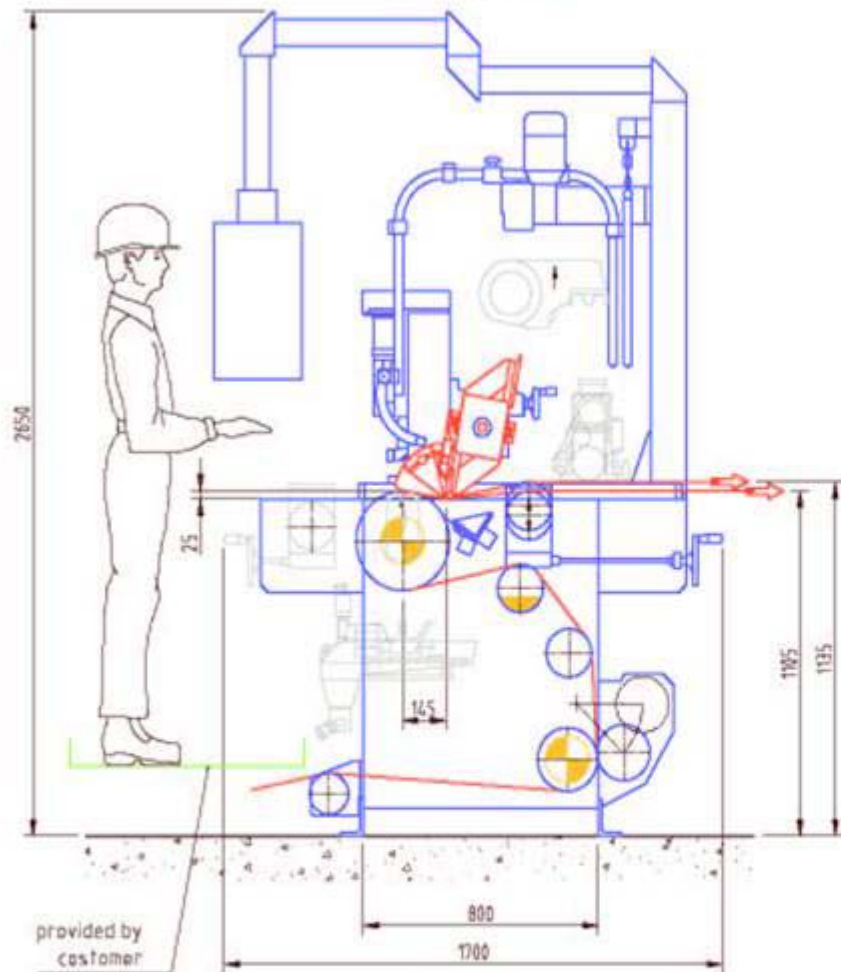
Fabrik:
DOWMAT S.R.L. DE C.V.
MEXICO

J. Zimmer
Maschinenbau Ges. m.b.H.

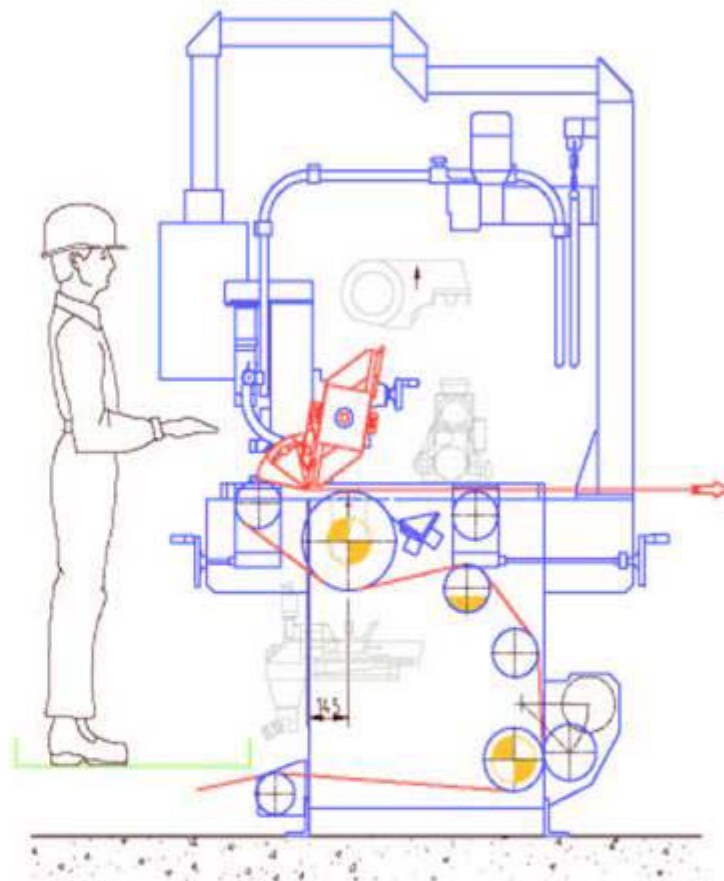
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KINIFE-ON-AIR PASTE APPLICATION
AFTER MAGNET ROLLER



KINIFE-ON-AIR PASTE APPLICATION
BEFORE MAGNET ROLLER



Technische Änderungen vorbehalten
subject to technical alterations

Alle Maße in "mm"
all measures in "mm"

Datum: 03.06.2003	Reviz: Ge. Scherzau	Benennung:
Zeichn. Nr.: 213020-098-3		Bl. 2

MAGNOROLL PRINTING- and COATING MACHINE
TYPE RMR-RS-GMA/F-MKIV

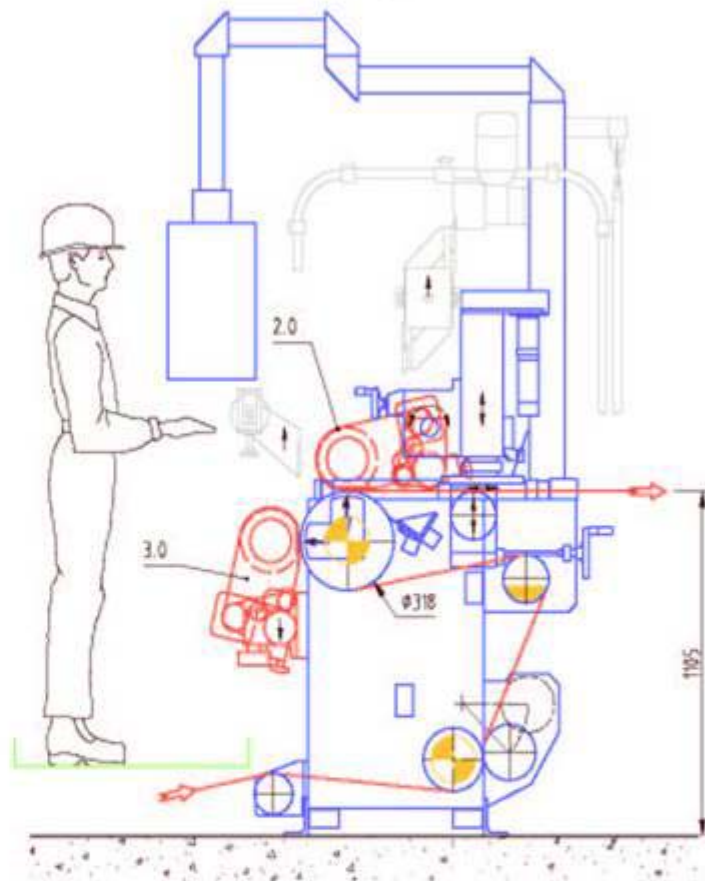
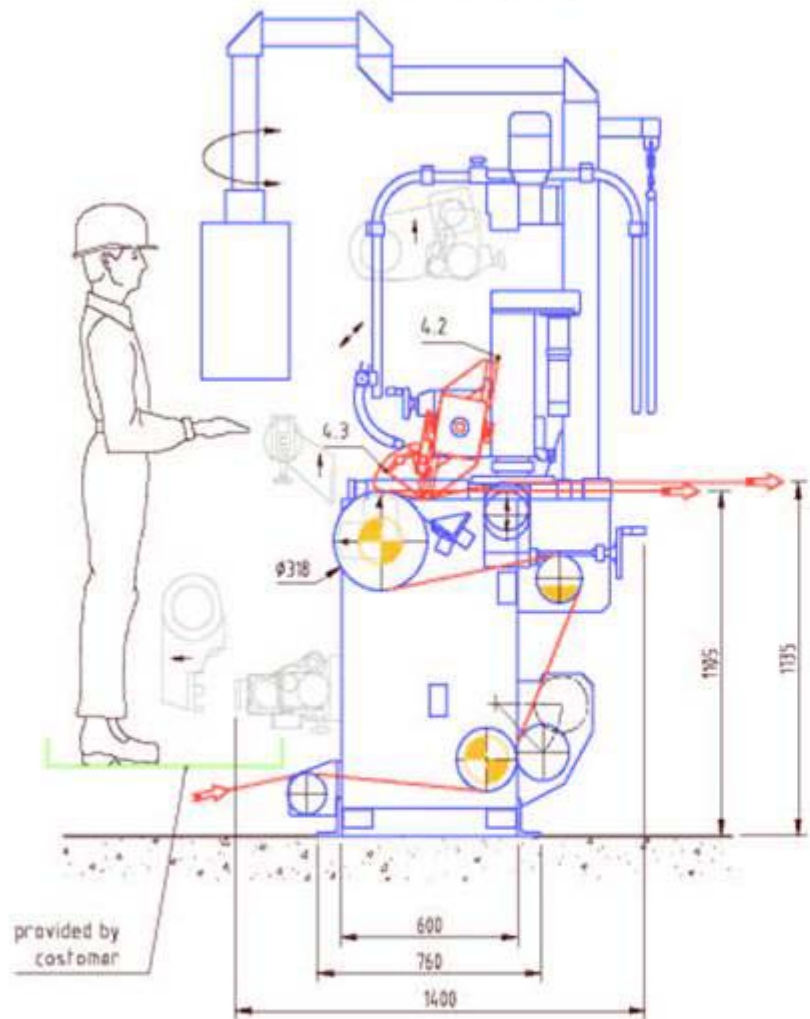
Funkst.

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Maschinenbau Ges.m.b.H.

KINIFE-ON-AIR PASTE APPLICATION
AFTER MAGNET ROLLER

ROTARY SCREEN PRINTING
2 RS



Technische Änderungen vorbehalten
subject to technical alterations

Alle Maße in "mm"
all measures in "mm"

Datum 10.01.2003	Reviz. Ge. Scherz	Benennung MAGNOROLL PRINTING- and COATING MACHINE TYPE RMR-2RS-MKIV
Zeichn. Nr. 213020-105-3 Bl. 2		

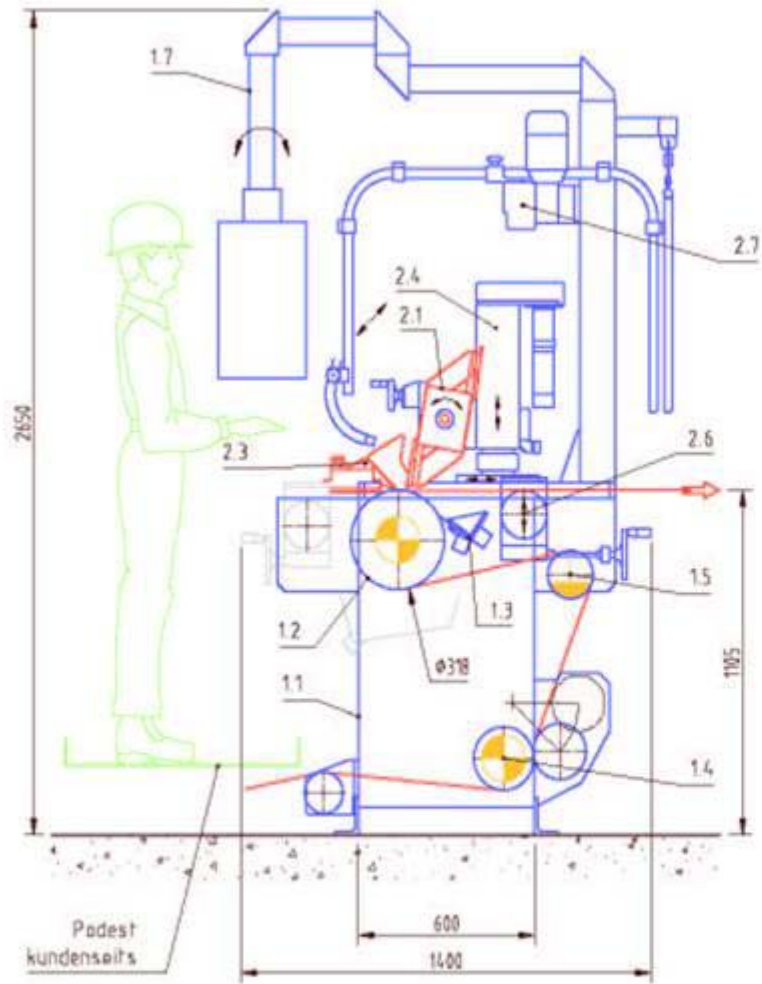
Fabrik DÖNART S.R.L. DE C.V.
MEXICO

J. Zimmer
Maschinenbau Ges.m.b.H.

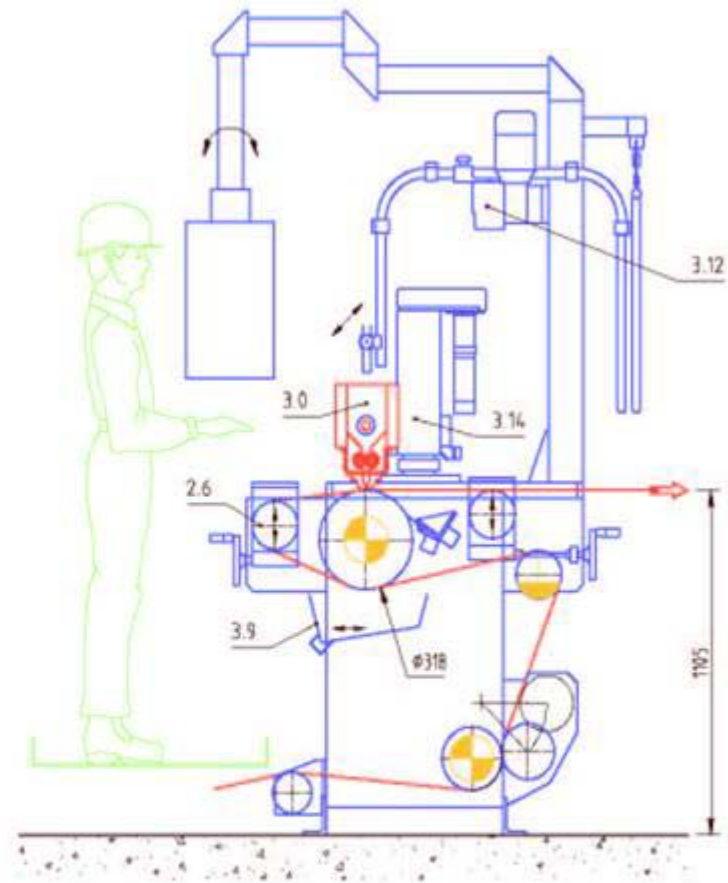
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ANSICHT mit MKIV



ANSICHT mit VARIOPRESS



Technische Änderungen vorbehalten
subject to technical alterations

Alle Maße in "mm"
all measures in "mm"

Datum: 14.05.2003	Reviz: Ge. Scherwas
Zeichn. Nr.: 213020-096-3	

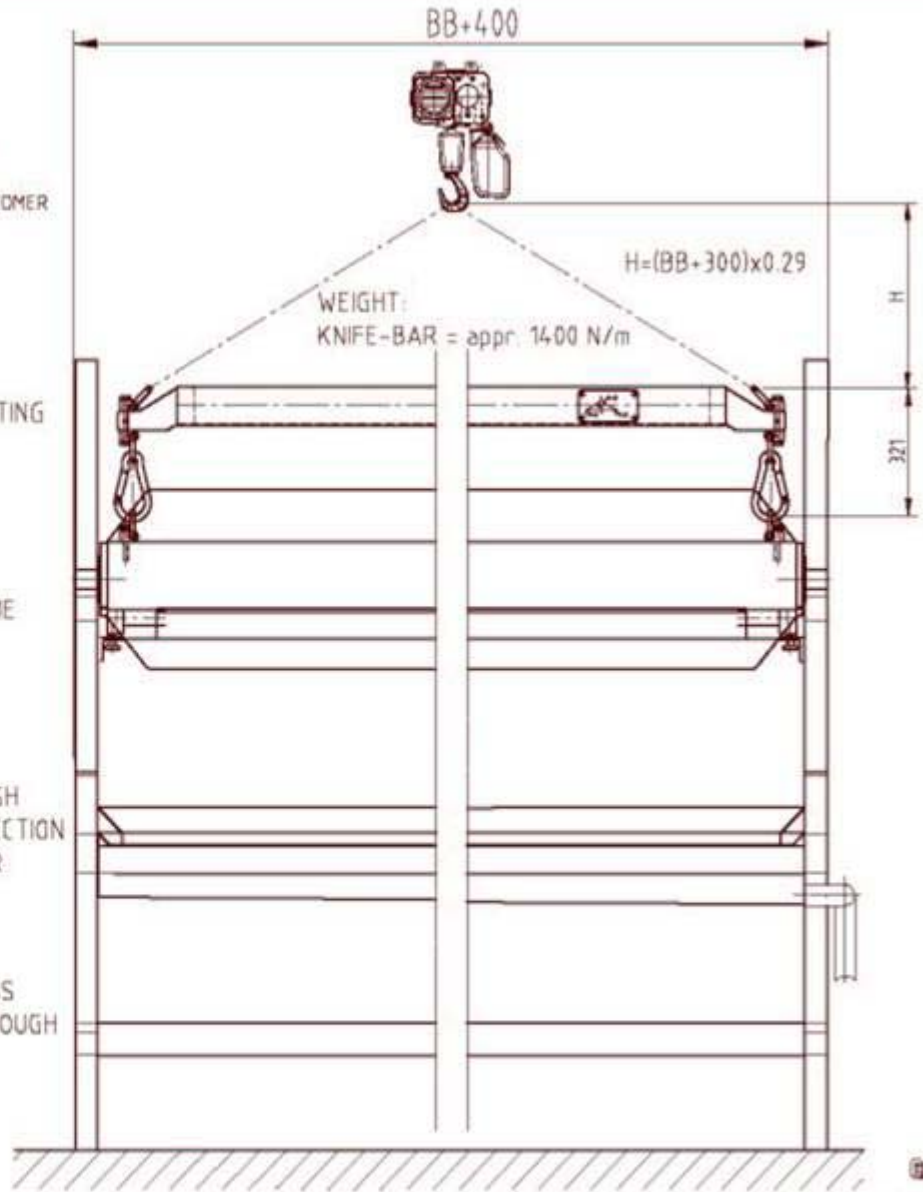
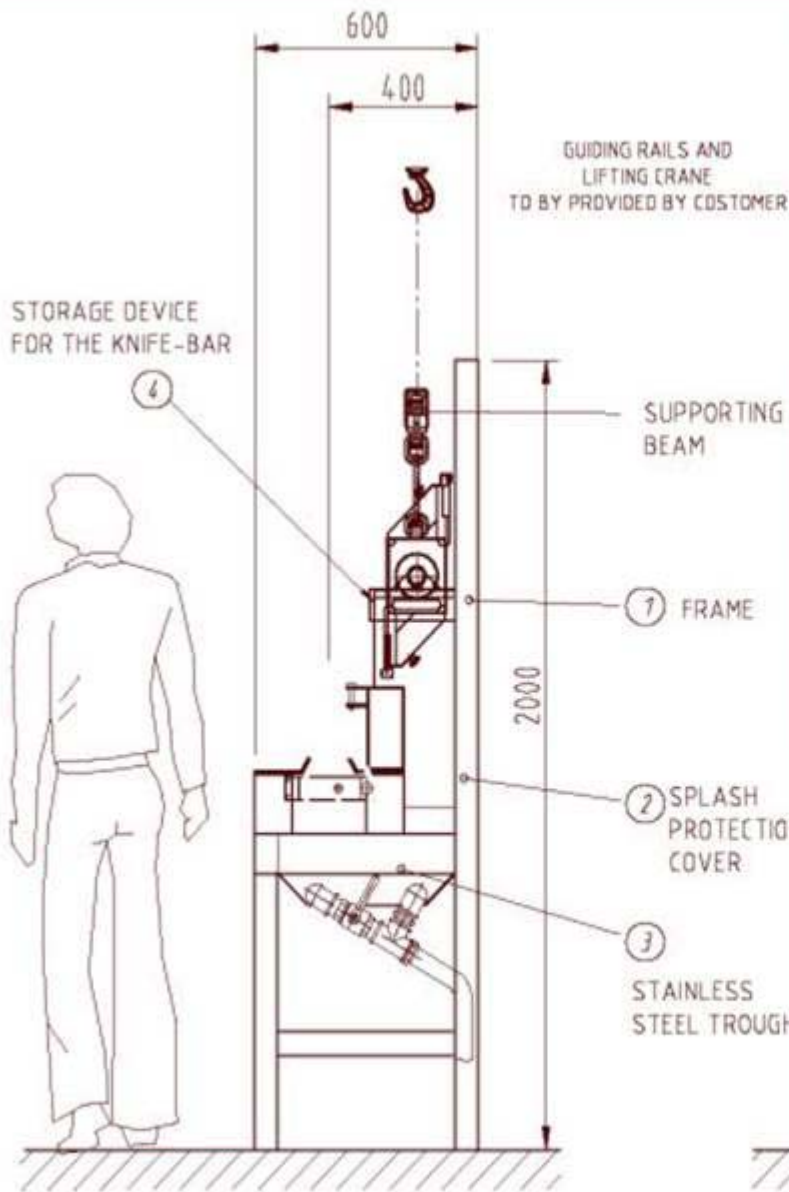
Bezeichnung:
SCHAUM- UND PASTENBESICHTUNGS-MASCHINE
MKIV-VP

Funktion:
DÖHLER
Bräunler

J. Zimmer
Maschinenbau Ges.m.b.H.

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Name: G. Scherlau
Begrüß:

Datum: 14.01.2003
Proj. Nr.:

Technische Änderungen vorbehalten
subject to technical alterations

Alle Maße in "mm"
all measures in "mm"

Datum: 04.06.2003 Name: G. Scherlau
Zeichn.Nr.: KVV-VP-Z126-3

Bezeichnung: STATIONARY WASHING- AND STORING DEVICE
WITH SUPPORTING BEAM FOR TRANSPORT OF MKIV

Vertrieb: INDUSTRIAL
OLIVE S/A
SPAIN

J. Zimmer
Maschinenbau Ges.m.b.H

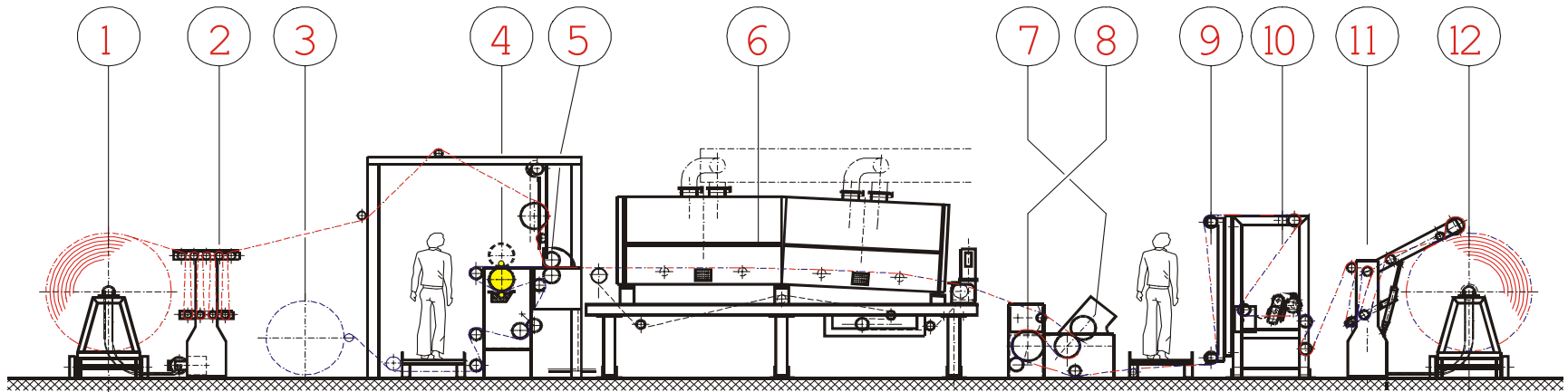
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1 Hydraulic big-batch unwinding device

2 Storage compensator

3 Unwinding for paper, foils, or foamed materials

4 One-color printing and coating machine

5 Laminating station

6 Drying channel

7 Crusher or calander

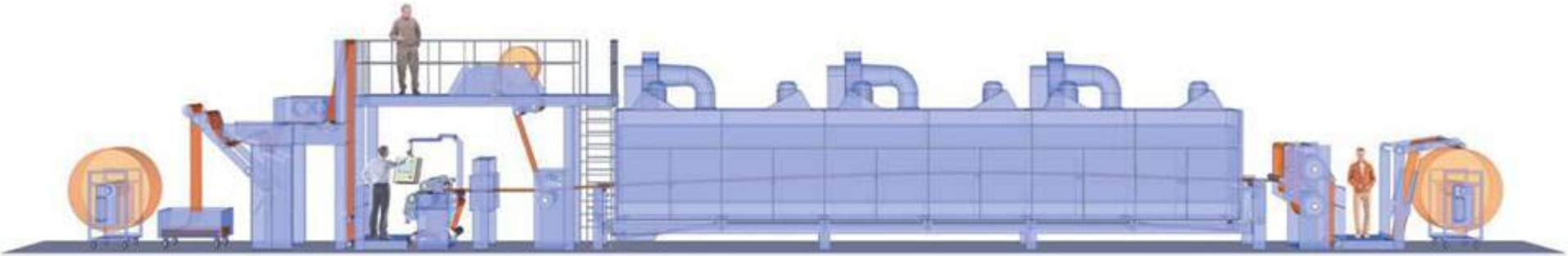
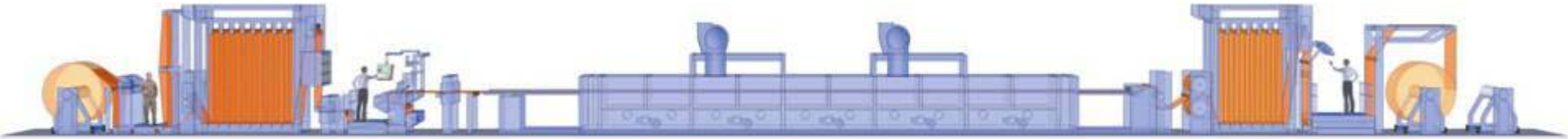
8 Drawing and cooling station

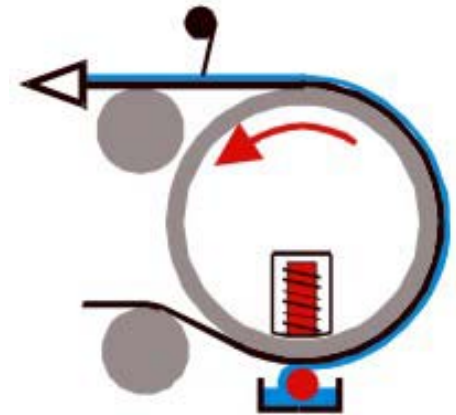
9 Swivelling frame

10 Edge-cutting device

11 Circumference rewinding device

12 Central rewinding device

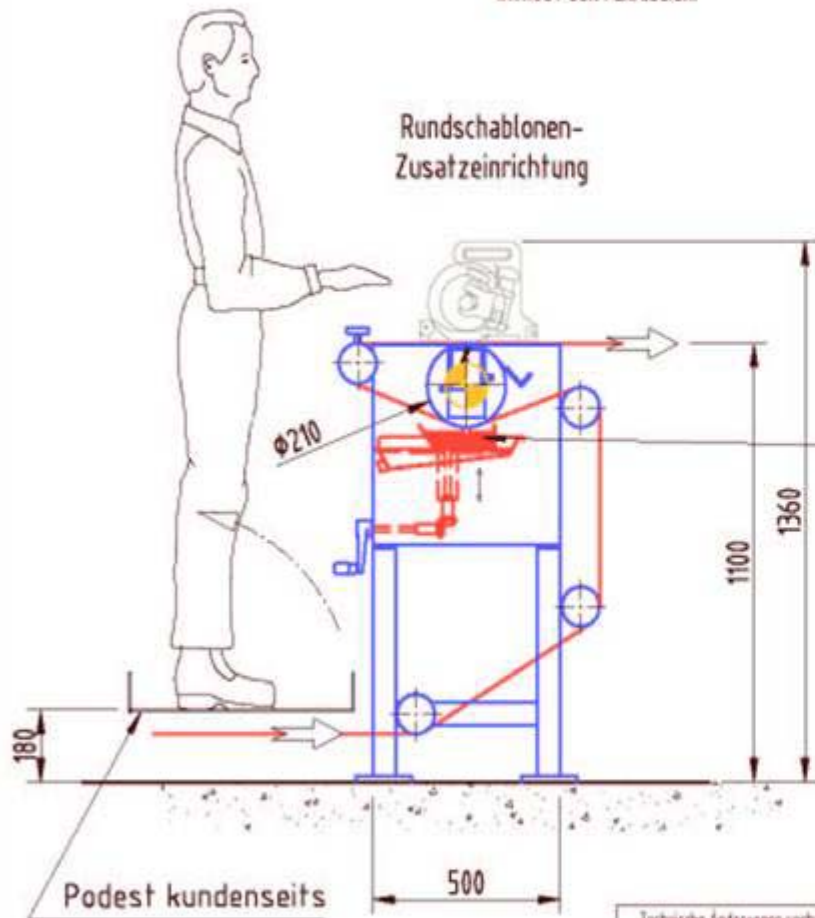




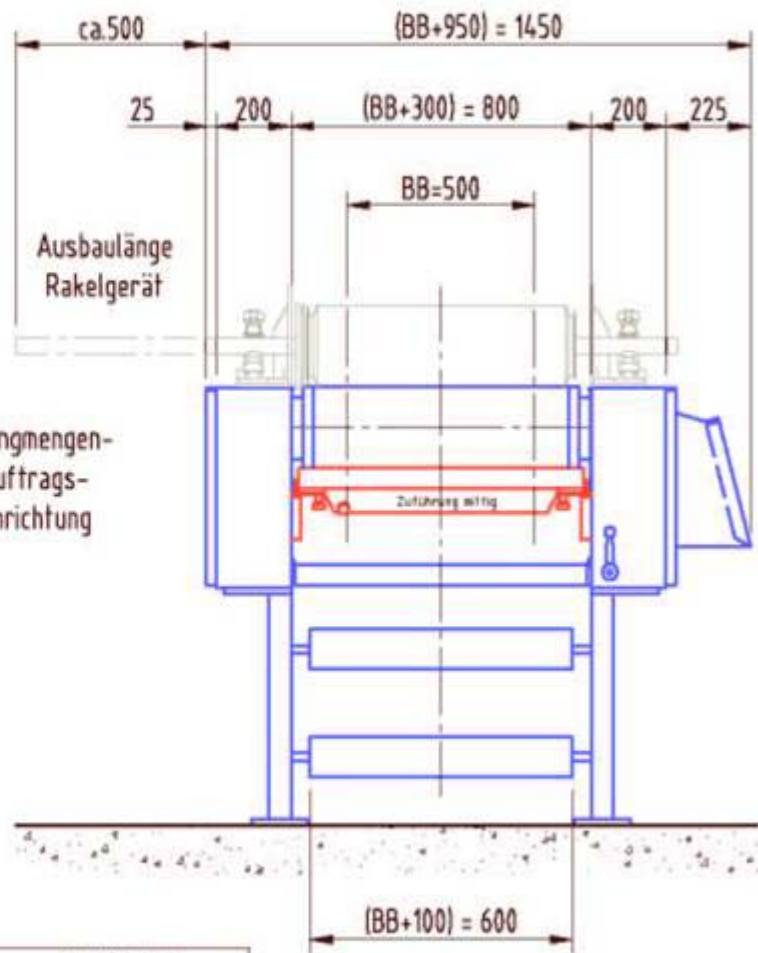
zusätzliche Option:
Glättrakel mit
Unterstützungswalze

Magnoroll RMR-GMA-1RU

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ANTRIEBSSEITE BEDIENUNGSSEITE



Technische Änderungen vorbehalten
subject to technical alterations

Alle Maße in "mm"
all measures in "mm"



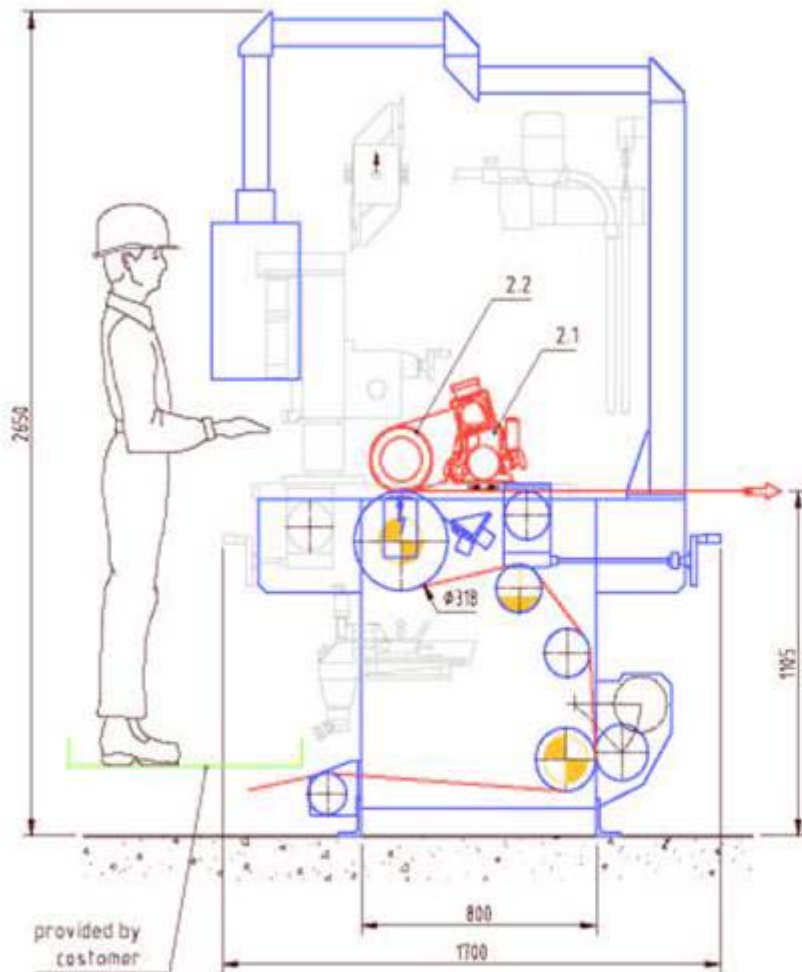
Datum: 17.06.2003	Name: Ge. Scheriau
Zeichn. Nr.: 211020-019-4	

Benennung: **MAGNOROLL DRUCK- und BESCHICHTUNGSMASCHINE**
Type RMR-RS-GMA-Labor

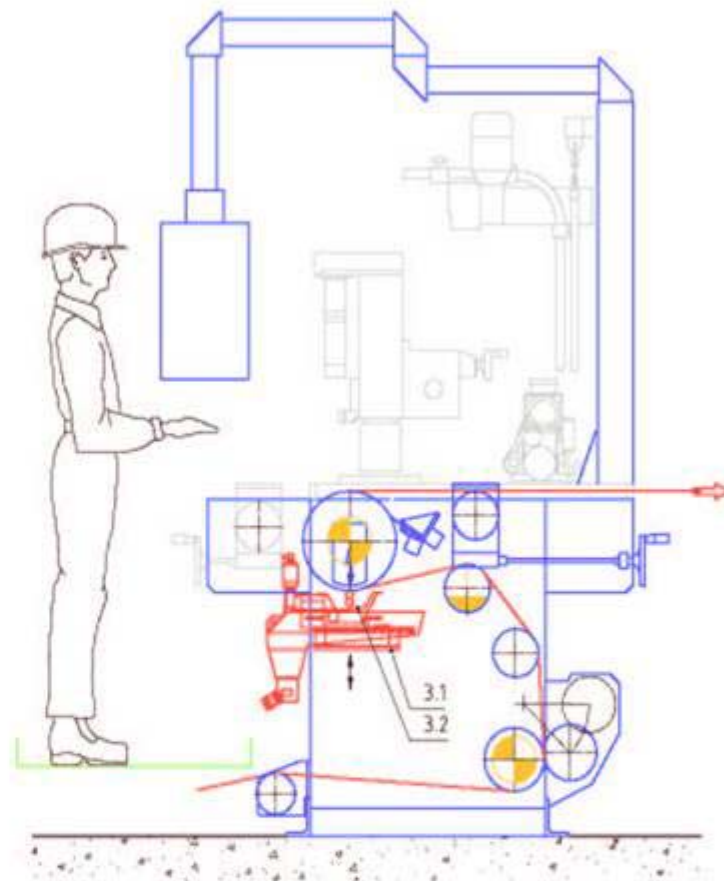
Kunde: **SARNAFIL INTERNATIONAL AG**
Switzerland



ROTARY SCREEN PRINTING



LOW-ADD-ON EQUIPMENT



Technische Änderungen vorbehalten
subject to technical alterations

Alle Maße in "mm"
all measures in "mm"

Datum: 03.06.2003	Reviz: Ge. Scherz	Benennung:
Zeichn. Nr.:		MAGNOROLL PRINTING- and COATING MACHINE
213020-098-3		TYPE RMR-RS-GMA/F-MKIV

MAGNOROLL PRINTING- and COATING MACHINE
TYPE RMR-RS-GMA/F-MKIV

Funk:

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J. Zimmer
Maschinenbau Ges.m.b.H









Trave Magnetica 1

01: 0%	09: 44%	17: 44%	25: 26%
02: 0%	10: 36%	18: 38%	26: 0%
03: 0%	11: 31%	19: 0%	27: 0%
04: 0%	12: 42%	20: 0%	28: 0%
05: 0%	13: 20%	21: 3%	29: 0%
06: 0%	14: 27%	22: 20%	30: 0%
07: 28%	15: 25%	23: 48%	31: 0%
08: 33%	16: 55%	24: 26%	

Magnetkraft Zonenregulierung

minimale individuelle Zonebreite: ca. 100 mm

manuell oder automatische Einstellung über Touchscreen



Trave Magnetica 1

01: 0%	09: 44%	17: 44%	25: 26%
02: 0%	10: 36%	18: 38%	26: 0%
03: 0%	11: 31%	19: 0%	27: 0%
04: 0%	12: 42%	20: 0%	28: 0%
05: 0%	13: 20%	21: 3%	29: 0%
06: 0%	14: 27%	22: 20%	30: 0%
07: 28%	15: 25%	23: 48%	31: 0%
08: 33%	16: 55%	24: 26%	

Magnetkraft Zonenregulierung

in Kombination mit automatischer Dickenmesseinrichtung



Rüstwagen für Auftragsrollen bis zu 540 cm Arbeitsbreite

varioPRESS

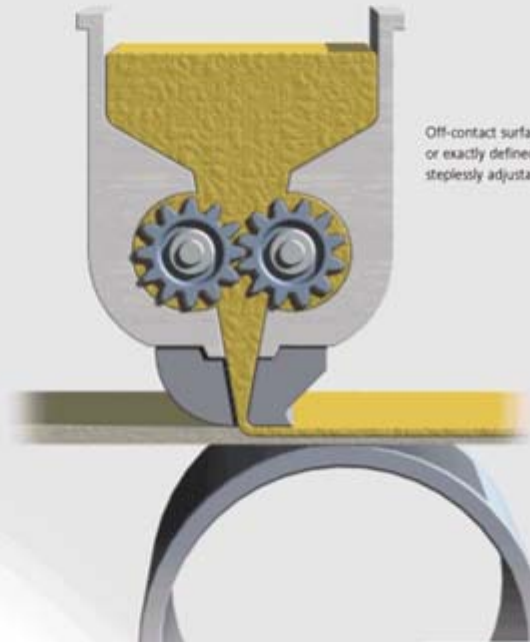
FOAM COATING SYSTEM



For paste and foam applications on technical textiles, standard textiles, plastics, carpet, upholstery, nonwovens, glassfibre, tissues...
 The only foam application system that gives you 100% control of how much foam is applied independent of line speed, web tension and/or absorbance characteristic of the coated web. Web contact or "contactless" application possible.



The tooth gears are driven with steplessly adjustable speed and the foam application amount and penetration into the material is 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 steplessly adjustable from 0 to 100%

FOAM COATING SYSTEMS

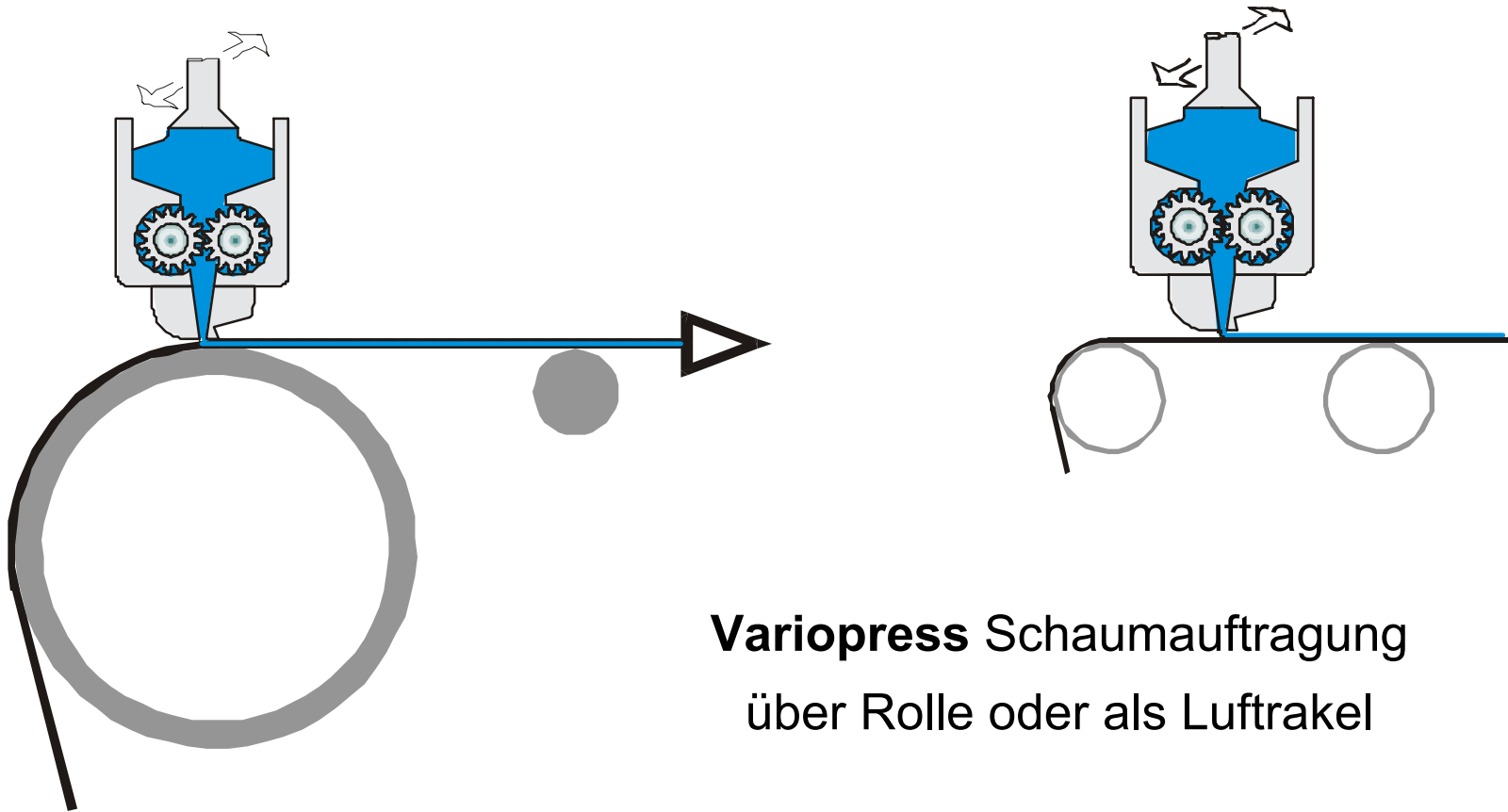
- 1 Horizontal application above roller
- 2 Horizontal application on air
- 3/4 Easy and absolutely precise angle adjustment
- 5 Vertical foam application



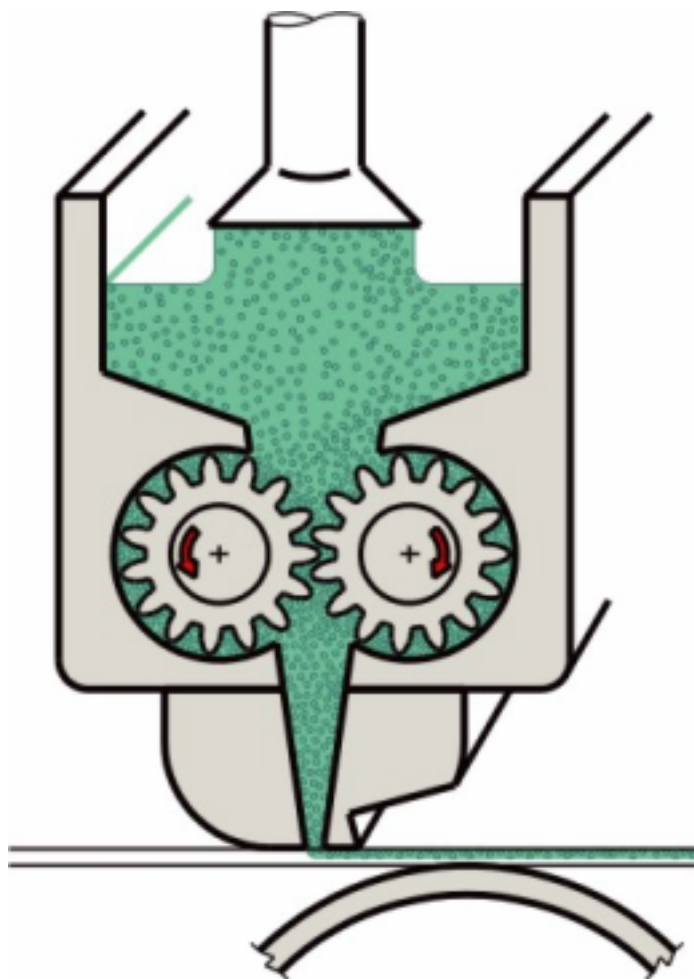


Variopress Schaumauftragungs-Einrichtung
in Arbeitsbreiten von 50 bis zu 550 cm





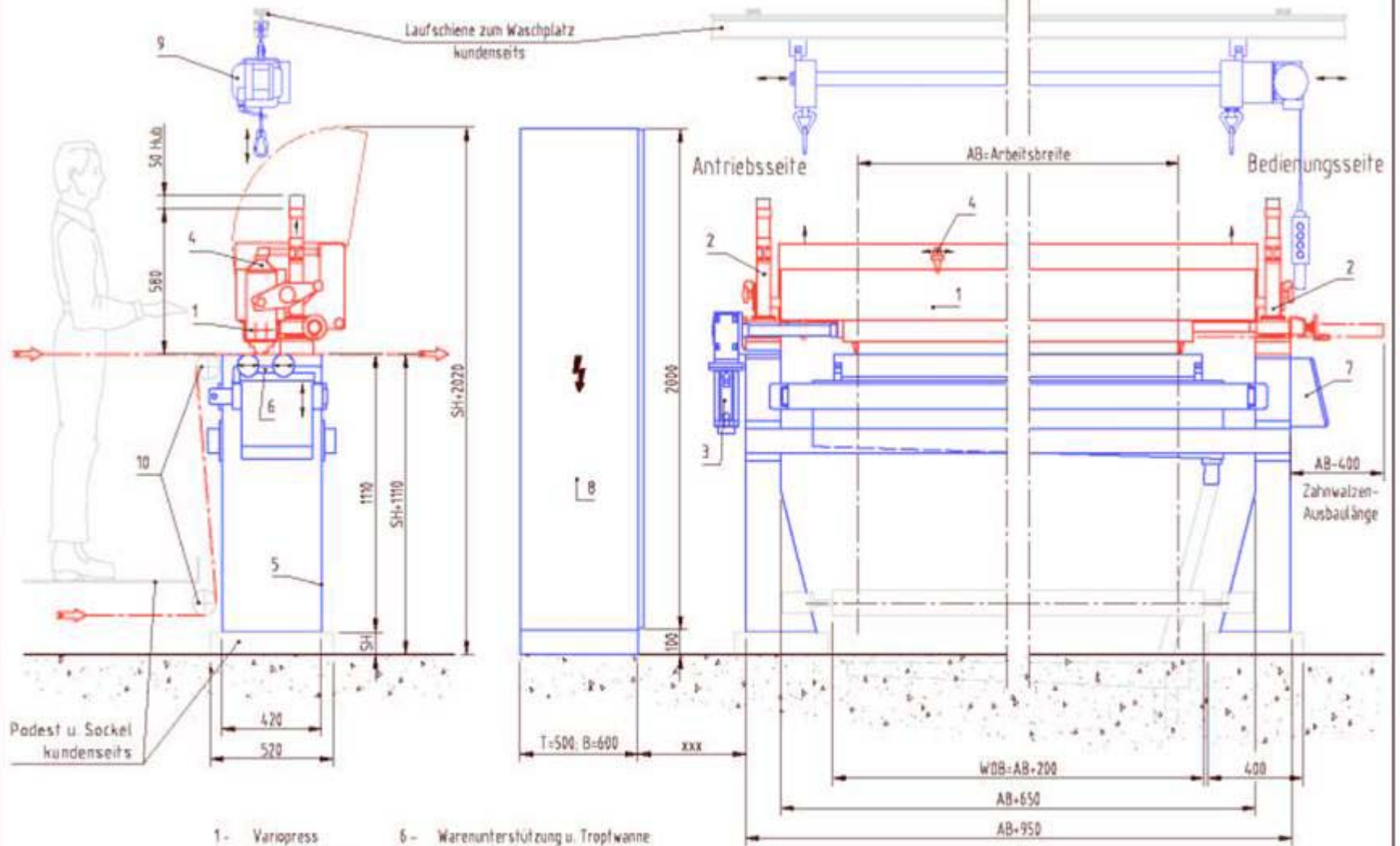
Variopress Schaumauftragung
über Rolle oder als Luftrakel



Die Zahnwalzen sind angetrieben.
Die Geschwindigkeit ist stufenlos
regelbar.

Die Schaumauftragsmenge und die
Penetration in das Material werden
bestimmt durch die Drehgeschwindigkeit
der Zahnwalzen und die Position der
Variopress.

Jedes Resultat ist 100 % gleichmäßig
und absolut konstant vom ersten bis
zum letzten Zentimeter.



- | | |
|---------------------|--------------------------------------|
| 1 - Variopress | 6 - Warenunterstützung u. Tropfwanne |
| 2 - Säulenhalterung | 7 - Bedienpult |
| 3 - Antrieb | 8 - Schaltschrank |
| 4 - Schaumzuführung | 9 - Aushebe- u. Transporteinrichtung |
| 5 - Maschinengerüst | 10 - Warenlenkwalzen (Option) |

Technische Änderungen vorbehalten
subject to technical alterations

Alle Maße in "mm"
all measures in "mm"

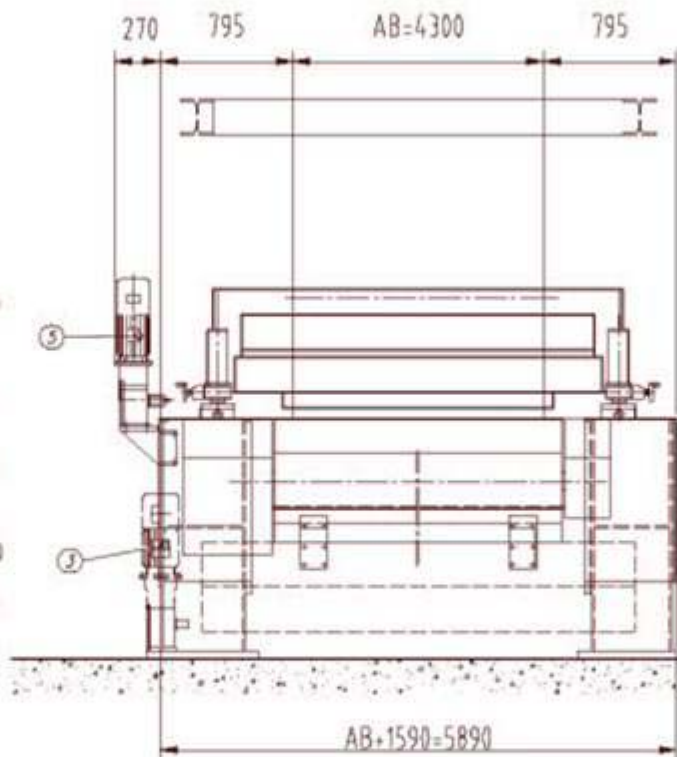
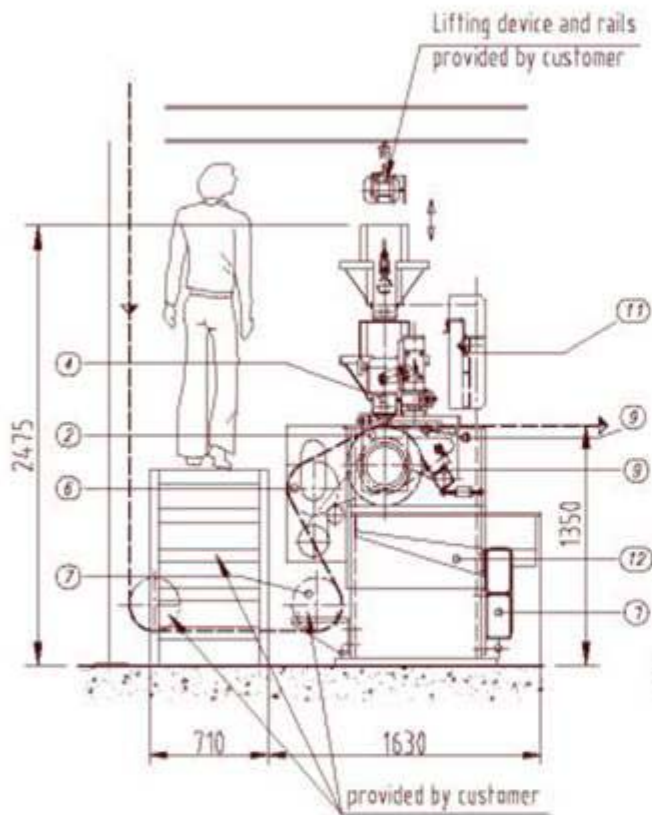
Datum: 10.08.2003	Zeichn. Nr.: 219820-001-3	Hersteller: Gb. Scharlau	Bezeichnung: Schaum-Beschichtungsmaschine
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Schaum-Beschichtungsmaschine
Type VARIOPRESS

Hersteller:
IB
INTERNATIONAL BV
Holland

Zimmer
AUSTRIA

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SPECIFICATION OF DELIVERY:

- 1 - Machine frame
- 2 - Precision roller $\phi 450$
- 3 - Drive to Pos.2
- 4 - Variopress device
- 5 - Drive for variopress
- 6 - Guiding roller $\phi 305$, driven and height adjustable
- 7 - Bow roller-to be provided by customer
- 8 - 2-column support
- 9 - Cleaning squeegee
- 10 - Cloth support with bow pipe
- 11 - Foam supply electrically driven
- 12 - Water collection trough

Alle Maße in "mm"
all measures in "mm"

Technische Änderungen vorbehalten
subject to technical alterations

CRD

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Datum: 08.10.2003

Name: Ge. Scheriau

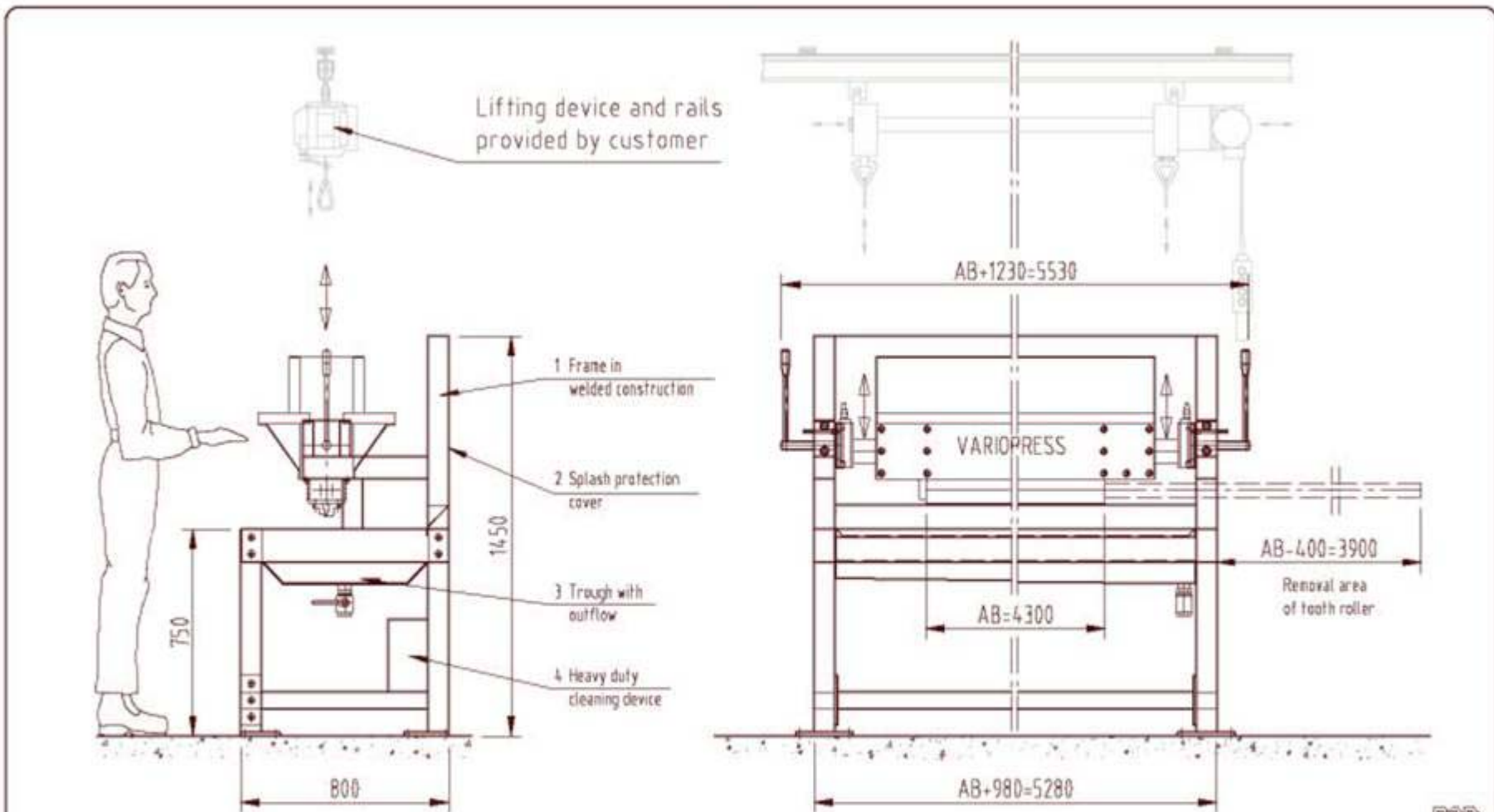
Benennung:

VARIOPRESS COATING MACHINE

Kunde:
St. Gobain
France

Zeichn.Nr.
KVU-VP-Z128-4

Zimmer
AUSTRIA



Alle Maße in "mm"
all measures in "mm"

Technische Änderungen vorbehalten
subject to technical alterations

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Datum: 08.10.2003	Name: Ge. Scheriau
Benennung:	
Zeichn.Nr.: KVV-VP-Z127-4	

Stationary washing- and storing device VARIOPRESS

Kunde:	St. Gobain
	France





For PVC coating and lacquering
 Coating on both sides of the web **simultaneously**. The Zimmer Magnet-System guarantees 100% even application on **both** sides for any application width from 50 to 540 cms.

Twincoat application systems are available in working widths from 50 to 540 cms



The magnet power is steplessly adjustable from 0 to 100% and can be divided into individually adjustable zones.

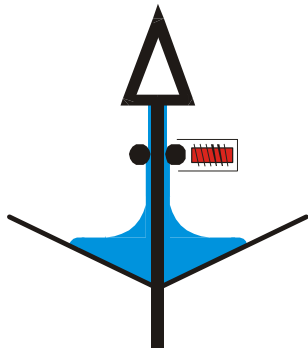


Vertical Twincoat application with rollers or knives with or without Magnet-System





**Verschiedene vertikale *Twin Coat* Auftragungen
mit und ohne
Original Zimmer Magnet System Plus**

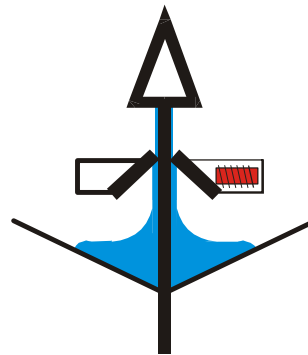


Twin Coat VDR

vertikal direkt

Rolle-Rolle

Magnet System

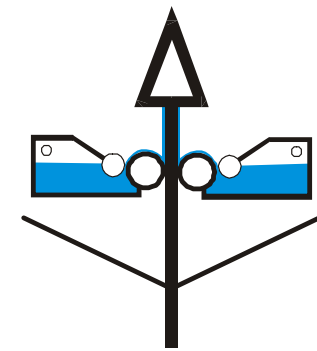


Twin Coat VDS

vertikal direkt System

mit Doppelmagnettrake

(austauschbar)



Twin Coat VIT

vertikal indirekt

Rollen-Transfersystem



TwinCoat Anwendungen
werden vertikal ausgeführt
mit Rollen-Systemen oder
Messerrakel-Systemen
mit oder ohne **Magnet System**

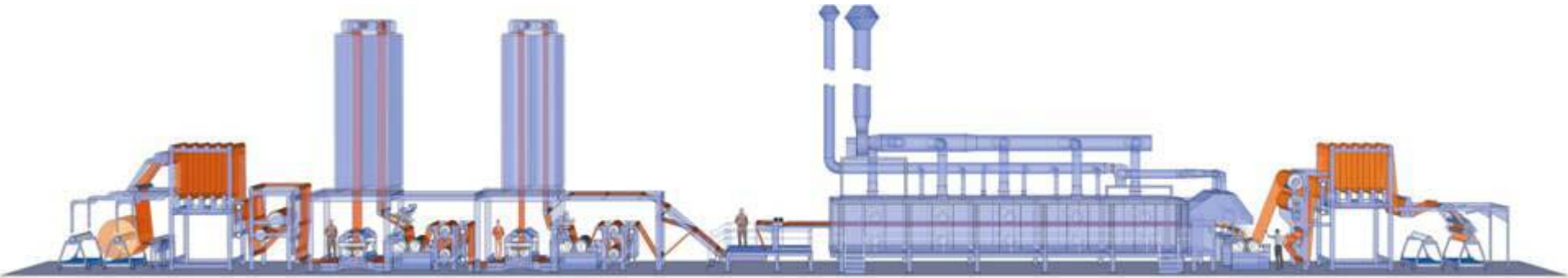


Labormaschine in der Anwendungstechnik
J.Zimmer Klagenfurt, Austria

Direkte vertikale
Twin Coat Auftragungs-Systeme
sind verfügbar in Arbeitsbreiten
von 50 cm bis 540 cm



Twin Coat
in Arbeitsbreite 540 cm



Mini-Roll Foulard dyeing machine

Dyeing and chemical applications with the newly patented most versatile Mini-roller system.
Perfectly uniform pressure adjustment from 50 to 320 cms.



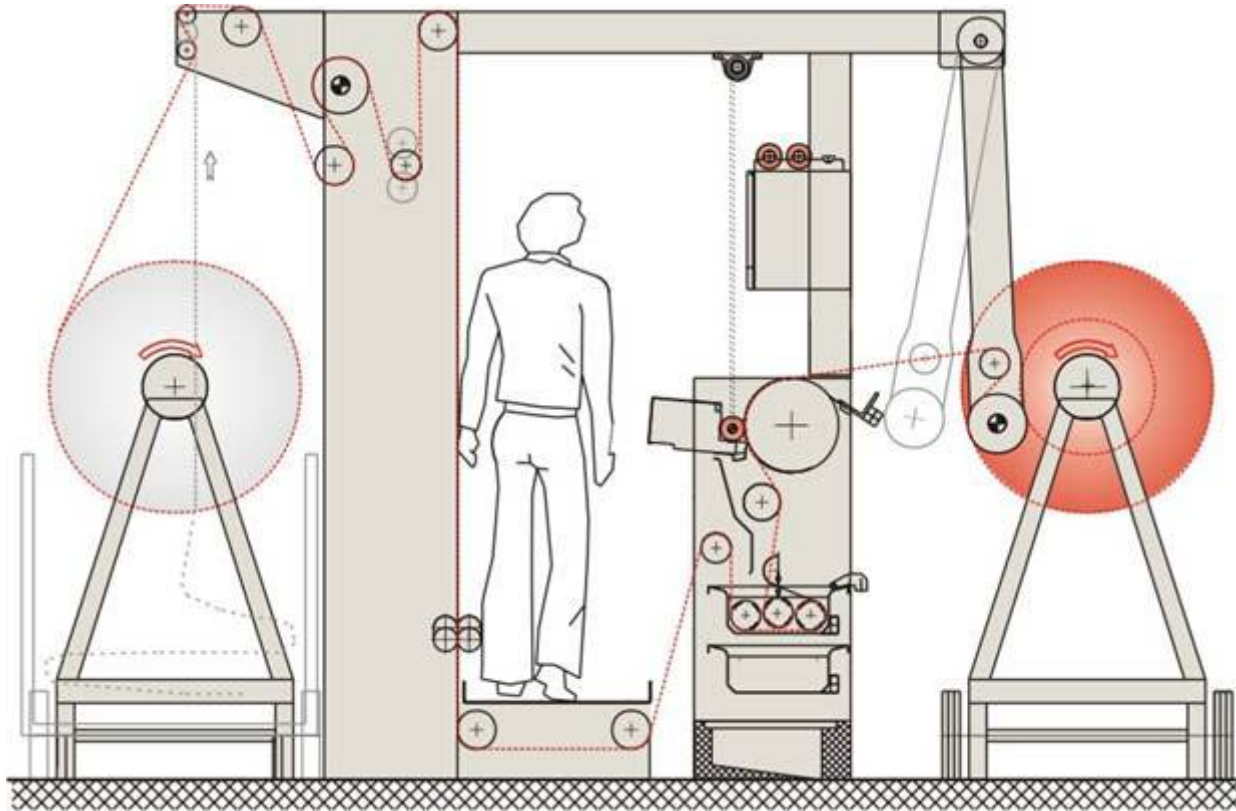
Easy-change Mini-pressure rollers with different surfaces and pressure adjustment system



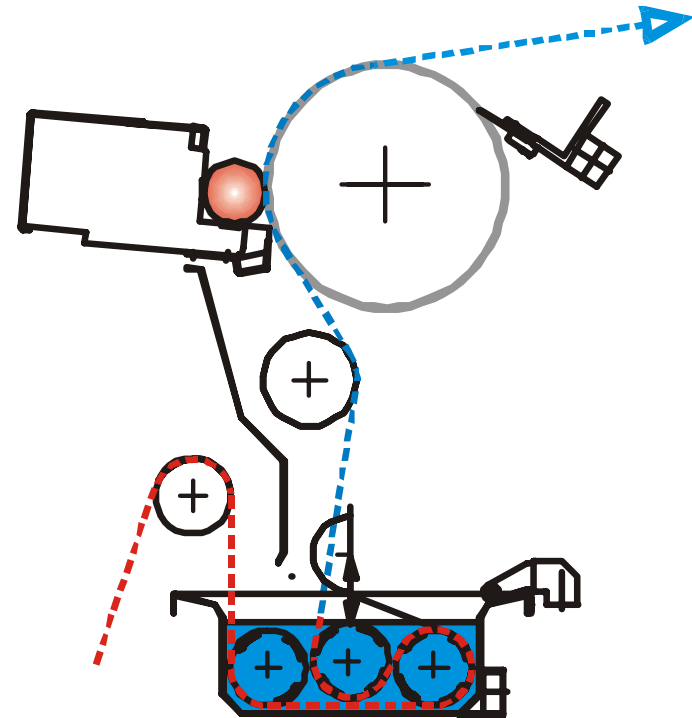
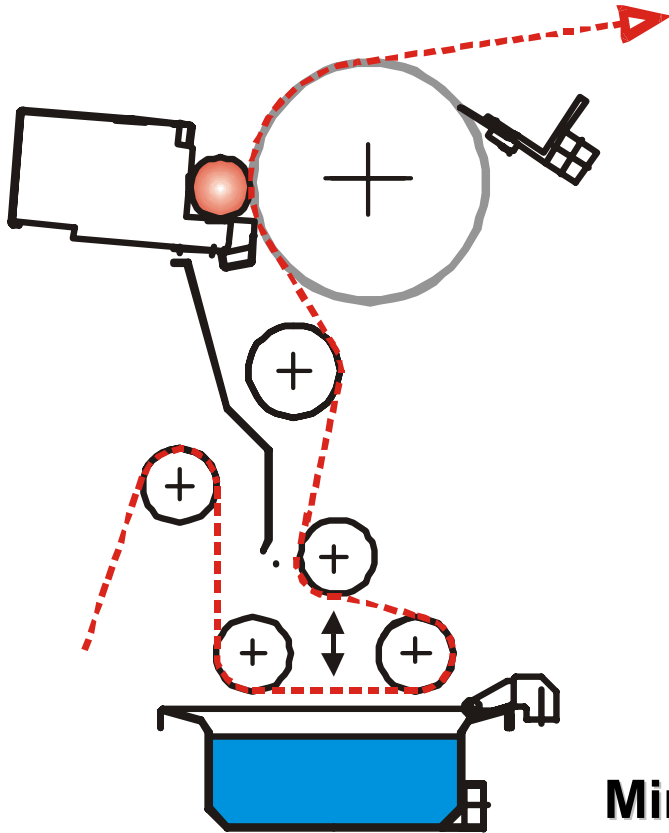
The miniroll foulard dyeing machine can be used for ICCV pad-batch dyeing or can be installed in continuous dyeing and application lines

Foulard dyeing

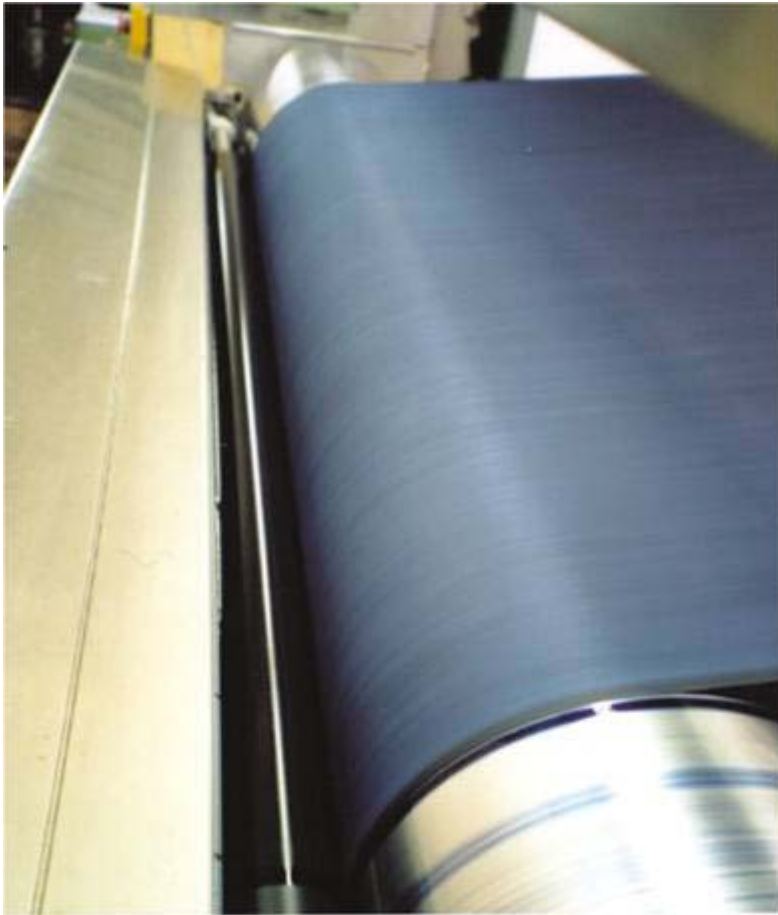




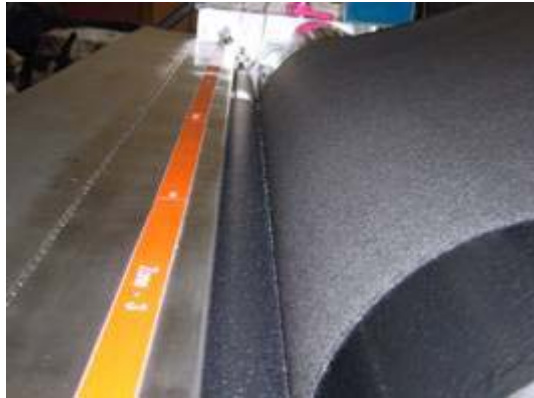
Die **Mini-Roll** Foulard Färbemaschine
mit Abrollung, elektronischen Antrieben,
Steuerung und Aufrollung



Mini-Roll Foulard Warenführungs- Diagram



Mini-Roll Foulard Anpresswalze



Touchscreen Anzeige Menüs:



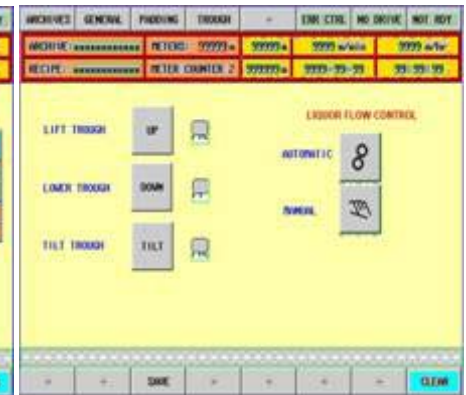
Generell



Meter reset



Padding



Trog





Warenzuführung, Antriebe und Touchscreen Kontrollsystem

Verkauf- und Service- Netzwerk in mehr als 60 Staaten



Anwendungstechnik Klagenfurt, Austria



Zentrale
Klagenfurt,
Austria



Mittlern, Austria



Kufstein, Austria



Vormontage Abteilung in Klagenfurt



Shanghai, China



Spartanburg, USA



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The Locations



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Praktisch für **Kufstein** sind die Flughäfen **Munich** und **Innsbruck**

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In den Anwendungstechniken in Klagenfurt und Kufstein können Tests und technische Entwicklungen mit Kundenmaterialien durchgeführt werden





Resultate der
Magnoroll
Labormaschinen
garantieren
100 %ige
Reproduzierbarkeit
auf den **Magnoroll**
Produktions-
Maschinen

Magnoroll Labormaschine in 50 cm Arbeitsbreite





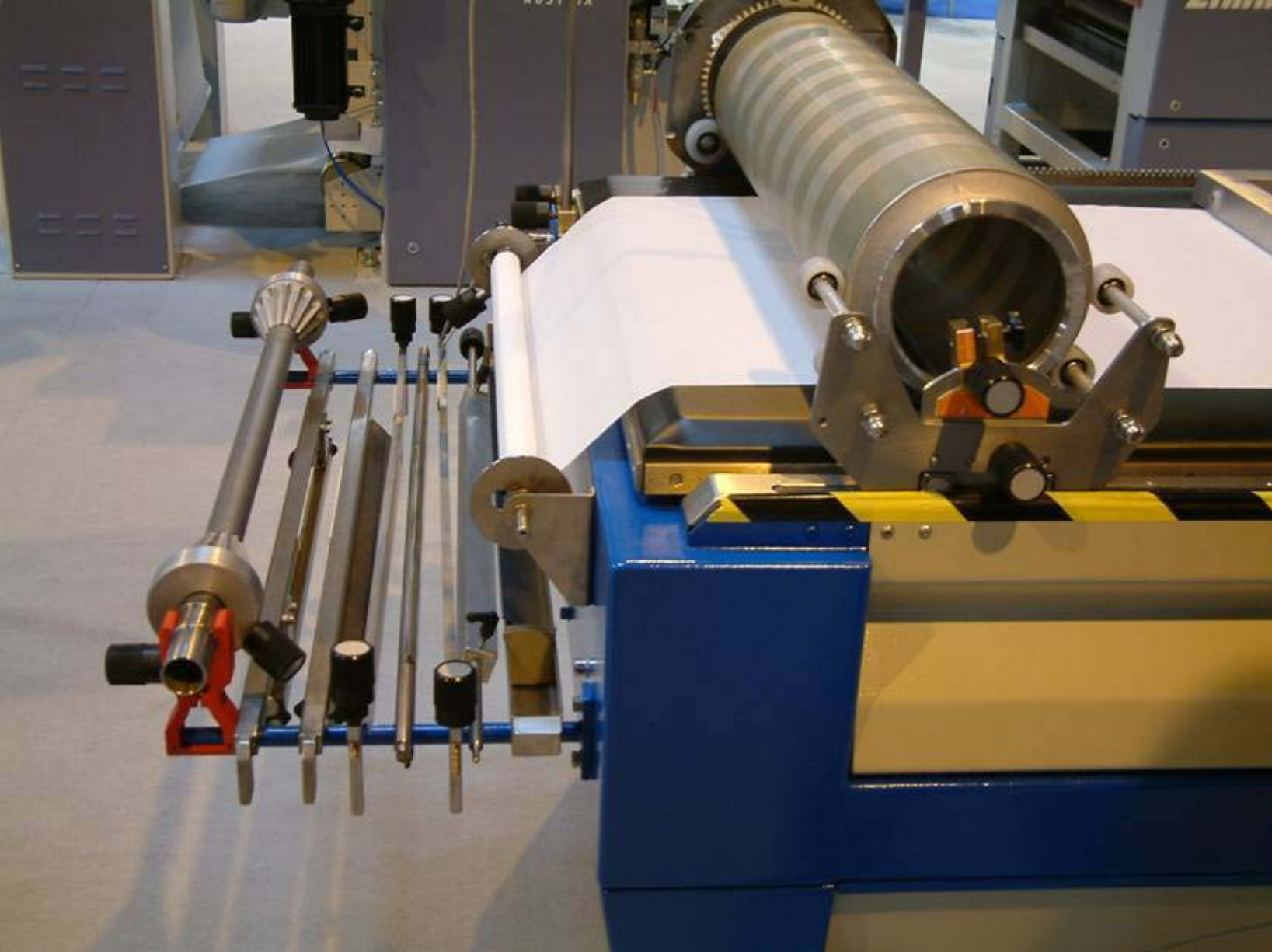


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Zimmer
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ITMA 03 in Birmingham, 22. – 29.10.2003

**18. Hofer Vliesstoff-Tage
5. und 6. November 2003**



Entwicklung der Vliesstoff-Beschichtungstechnologien

Danke für Ihre Aufmerksamkeit

**Johannes P.M. Zimmer & Alfred Habenbacher & Wilhelm Gericks
J.Zimmer Maschinenbau GmbH Klagenfurt, Austria**