

NEWSLETTER 01/2008

February 2008

Pleating of Sunblinds, Sun- and Light Protection Foils, foldable Mosquito Protection Mesh, Room Separation Curtains, Telescopic Covers and Bellows

with our

Electronic Knife Pleating Machine PLEATMASTER PM-2400

NEW:

Now also available as PM-3200 with a working width of 3200 mm!

Dear Customer,

We are pleased to inform you about our new product **PM-2400**, a fully electronic knife pleater in latest version with new CNC-control and a working width of 2400 mm for pleating sun-blinds or any other pleatable material.

This most versatile pleater from Rabofsky combines our long term experience in the range of robust mechanical knife pleaters having an extended working with the latest control and drive techniques for exceptionally flexible and careful pleating of even most difficult media, including a choice of M- / W-type pleats or more complex patterns for decorative pleating or marking the end of a pack.

The PM-2400 is based on our design of the only electronic knife pleater in the world having a working width of 3200 mm. Thus, the machine offers adequate securities and reserves for an optimum processing and thermal conditioning of the material to be pleated.

Please find hereafter our general description of a typical equipment configuration in successful operation with many manufacturers in Europe and world-wide:

Address Motzener Str. 10A, D-12277 Berlin
Phone +49 - 30 - 713 026 - 0
Fax +49 - 30 - 713 026 - 13
Internet <http://www.rabofsky.de>
Email rabofsky@rabofsky.de

Bank Accounts
Deutsche Bank Berlin AG
Bank Code 10070000, Account 3207008
IBAN: DE 52 1007 0000 0320 7008 00
Commerzbank AG
Bank Code 10040000, Account 5306667
IBAN: DE 29 1004 0000 0530 6667 00

Trade Register, Place of Jurisdiction
AG Berlin-Charlottenburg, HRB No. 1857
Place of Jurisdiction is Berlin.

Chief Executive Officers
Commercial: Dr.-Ing. Michael Sperling
Technical: Dipl.-Ing. Frank Matecka

ITEM	DESCRIPTION
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1. UNWINDING UNIT

1.1 Sensor-Controlled Unwinding Unit, type V-UA-2400-1

- max. working width 2.400 mm
- equipped with 1 standard material shaft, suitable for material roll with a max. diameter of 800 mm and a max. weight of 150 kg
- one shaft with deflection roller, flap bearings and two conical end pieces
- one shaft motor-driven with selectable unwinding direction
- with special dancer control for one material web
- "end of roll" signalisation with automatic machine stop
- frame made from solid profiles

Alternative:

Unwinder with 2 or 3 material shafts for multi layer applications
(e.g. when processing very sensitive media that require auxilliary paper)

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2. PLEATING MACHINE

2.1 Electronic Knife Pleating Machine, type V-PM-2400

- max. working width 2400 mm
- electronically adjustable pleat heights from 5 mm to 104 mm
- built-in pleating knives for pleat heights from 5 mm to 50 mm (subject to material tests)
- knife bars with center support offering advanced stability
- optimized trimming of machine table and pressure plate resulting in an excellent constancy of the pleat height within a wide temperature range
- freely programmable pleat programs with main and intermediate pleats of different size (e.g. M- and W-pleats or other more complex patterns), graphical display of the programmed pleat profile, fully automatic adjustment of input table, pleating knives and pressure plate
- high-resolution "Soft Touch" feature for an electronically controlled gentle movement of the pleating knives, individually adjustable both for top and bottom knife
- electronically controlled tilting angle individually adjustable both for top and bottom knife (especially suitable for sensitive media and high pleats)
- motion curve individually adjustable both for top and bottom knife by means of intuitive graphical sampling points (especially suitable for unsymmetrical / laminated materials)
- "Changes on the Fly": relevant parameters can be dynamically altered during machine operation for easy adjustment of new material combinations or to optimise the pleat formation at changed physical conditions
- high-resolution setting of the pleating speed
- integrated pleat and pack counter with preset and display of the current value, pack counter with autostop function
- pleat program input and machine control by an industrial PC with monitor and keyboard integrated into a modern and solid housing with own standing foot, Windows XP ® operating system

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- graphical functions for easy monitoring of the pleating process and the status of peripheral equipment, coloured indication for critical process states
- six heavy-duty servo drives of latest generation
- space-saving with monitor and keyboard
- pleat program input on a 15" touchpanel (resolution 1.024 x 768) with graphical Windows XP user interface
- touchpanel fixed onto a swivel arm and movable on both sides to the machine
- automatic reproduction of all filed settings by recalling the pleat programs, memory for more than 1 million pleat programs
- operating levels "set-up" (full access) and "operator" (limited access), authorisation by separate passwords, free setting of operator access limitations
- optimised machine heating with five panel heaters both for machine table and pressure plate, separate temperature control of all heating zones for a flexible adjustment of the temperature profile as per specific requirements
- integrated standby modus for time saving preheating of machine table at top and bottom
- warning or automatic machine stop in case of temperatures out of the pre-set tolerance range (especially important after loading another pleat program)
- pneumatic counter pressure with eight cylinders for fixing the pleats, each cylinder adjustable by a separate regulator with digital display, pressure values also shown on the touchpanel
- material guides on both sides of input and delivery table, manually adjustable according to the material width
- vibration-reducing metal chassis made of solid profiles, slide guides free of maintenance
- electronic service function allowing for easy cleaning of the pleating knives
- extended delivery table with a length of approx. 2000 mm

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2.2 Integrated Pre-Heating, type V-PM-2400-4100

- max. working width 2.400 mm
- for thermal pre-conditioning of the material before pleating
- one heating zone each top and bottom at the entry side
- separate adjustment of required value and digital display of actual value of both heating zones

2.3 Electronically-Controlled Horizontal Counterpressure, type V-PM-2400-8500

- continuous movement of the horizontal counter pressure bar in correspondence to the increasing length of the pleat pack during pleating
- max. working length (= max. distance between counter pressure bar and pleating knives) approx. 800 mm
- transparent plate for covering the pleat pack
- counter pressure bar with guidance at the left and right side, selectable forward / backward movements, counter pressure bar servo-driven with selectable counter pressure, display of the counter pressure value at the touchpanel

2.4 Remote Maintenance via Public Telephone Network, type V-PM-2400-2800

- Package comprising a modem for the public telephone network (built-in the pleating machine PC) as well as software modules "Server" (installed on pleating machine PC) and "Client" (installed on a dedicated PC at Rabofsky)
- dial-up connection established from client to server upon prior agreement by telephone call, connection protected by a password which can be freely changed by customer
- the remote maintenance allows for
 - controlling the user interface (error messages etc.)
 - controlling and modifying relevant configuration files
 - controlling the drives and aligning internal parameters
 - performing software updates

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3. OPTIONS

Opt 1 Two miniature TV Cameras for Pleat Monitoring, type V-PM-2400-7230

- comfortable alternative to the side window for immediate control of the processed pleats
- cameras installed at the right and left side behind the pleating knife section, monitoring of the gap between pressure plate and machine table
- display of the b/w videos at the PC monitor [touchpanel]
- control of all focus and zoom functions under menu item "Pleat Monitoring" of the pleat program

Opt 2 Pleat Height Control for one Material Web, type V-PM-2400-7110

- one central pleat height sensor at the delivery table
- digital display of the actual value above the delivery table
- as well display of requested and actual pleat height at the touchpanel
- preselectable tolerance range and automatic error signal in case of deviations from the preselected parameters, selectable autostop function, all parameters can be stored within pleat programmes

We would appreciate if our above information could stimulate your interest for the new PLEATMASTER PM-2400, or even our special large version PLEATMASTER PM-3200.

Certainly we would be glad to meet you in our factory where we could present our new range of pleating machines and arrange for some pleating tests, if requested. Kindly ask for further information or a CD-ROM if you need more details.

Your Rabofsky Team