Automatic coating machine

Grüning-Interscreen AG
CH - 3150 Schwarzenburg
Switzerland

Telefon: +41 -31 734 26 00
Telefax: +41 -31 734 26 01
E-mail: mail@gruning.ch
Internet: www.gruning.ch
G-420 Automatic coating machine

Basic model

- Patented coating head at the center of the coating machine. (Pat.No. 0 608 661)
  The force is applied at the center of the trough and therefore at the screen frame, which guarantees an extremely even build-up of the layer even if large screen frames are used. This unique construction allows to reach a screen frame width of up to 5000 mm. Extremely torsion-proof trough supporting profiles with prestressing mechanics.
- Safe reproductibility of the coating results guaranteed for direct coating process wet-on-wet. (tolerance +/- 1%).
- By means of the setting button on the coating carriage, the frame profile height of the screen frame can be easily adjusted to the respective screen frame size.
- The separate control of both coating troughs allows to coat the mesh from the squeegee side, from the printing side or from both sides.
- The contact pressure of the coating troughs on the mesh can be adjusted separately for both sides.
- Pneumatic screen frame clamping device on top and at the bottom for fastening the screen frame. Control of the stretchers via a foot-operated pedal.
- For screen frame widths of SB = 5500mm or more, several pneumatic screen holders will be mounted on top and at the bottom.
- The coating carriage and the drying carriage are guided by means of a precision steel shaft.
- A monitoring of the compressed air by means of a sensor and a blocking valve at the entry prevents any compressed air malfunctions which might have a negative effect on the coating result. The error message is specified on the display.

Option R

Cleaning of the coating edge by means of moistened wiping-off rolls. The wiping-off rolls are washed out automatically. The wiping process after coating is actuated by an electric motor.

Option T

Intermediate drying of the layer by means of hot air from the printing side. This allows to build up a layer on the printing side by alternating between the coating, drying and coating processes, etc. The speed of the hot air drying and the number of drying moves are programmable.

Option P

If required, the data can be printed out on reel paper after each program end.

Option Z

Multiple reception of several screen frames by means of additional pneumatic screen frame clamping device at the bottom. The left and right side can be separately controlled via a foot-operated pedal.

Programs

10 programs (F1 - F10) Coating Coating --> heating Layer build-up

Control

PLC the most up-to-date processor-based programmable logic control with EEPROM memory; the RS-232 interface is already installed. MMI input terminal including display with 2 x 40 characters in three languages. 1 German 2 English 3 to be selected by the customer FUF fully digitized frequency converter for the motor control.

Accessories

1 Sets of aluminium coating troughs G-401 with free selected edge radius
Air connection complete
Operating manual with CE declaration
2 anchor straps for screen frame heights SH = 3000 or more

The machine answers the requirements of the EU guidelines for machinery (CE-conformity).

| Screen frame size | SB Screen frame width mm | 1250 - 5000
| SH Screen frame height mm | 1250 - 3000
| Frame profile height mm | 30 - 80
| Frame profile thickness mm | 10 - 60
| Index of options | R Trough cleaning on both sides
| T Hot air drying from the printing side
| P Printer (including real time clock)
| Z Additional screen frame clamping device
| Overall size | Total width mm | SB + 500
| Total height mm | SH + 850
| Total depth mm | 1070
| Energy supply (Depending on the heating capacity) | Nominal voltage Volt | 3x400 + N + PE
| 3x220 + PE
| Fuse protection A | 10 - 25
| Capacity kW | 1 - 12
| Frequency Hz | 50/60
| Compressed air Connection value bar | 6
| Air consumption l/m | 10
| Permanent sound - pressure level dB (A) | < 70

Technical data subject to change without notice.