

MODEL L05SP-2000

Special calender with hydraulic pressure for the application of:

- Metallization of foils.
- Special effects, "paillettes", thermo transfer films (ex. Snake, lacquer, cracked effect, pull-up, glossy effect).
- Foils pre – coated with glue.
- Microdots foils (brinatura effect, total or partial lamination) onto knitted and woven fabrics as well as other substrates in continuous.

According to selected optional, the machine is also ideal for the following applications:

- Transfer printing.
- Direct inks reactivation.
- Thermosetting – heatsetting.
- Film/web thermobonding.
- Plastification and coating with film.
- Transfer printing of polyurethane, PVC and synthetic leather.
- Embossing using release paper.
- Heatsetting of "crush" effect.
- Application of "black out" films and barriers.

1. Characteristics of heating cylinder

- 1.1. Diameter: 500 mm (19,69").
- 1.2. Width: 2.000 mm (78,74").
- 1.3. Working width: 1.800 mm (70,87").

2. Heating system and temperature control

- 2.1. The cylinder is heated by one resistor (heating element) in a vacuum sealed diathermic oil bath, in complete absence of air and pressure. MONTI ANTONIO S.p.a system.
- 2.2. The temperature of the cylinder is set by touch-screen and regulated by mean an electronic thermostat and equipped with an alarm system and a limitation system of maximum temperature (230 °C).

3. Tension controls

- 3.1. Tension control for printing or bonding material:
 - Lower entry: axial unwinding with disk brake, pneumatically adjusted and fabric manual brake.
 - Upper entry: axial unwinding with disk brake, pneumatically adjusted.
 - Exit: independent axial winding with control by potentiometer.
- 3.2. Tension control for printing paper or fusing film:
 - Entry: axial unwinding with disk brake, pneumatically adjusted.
 - Exit: independent axial winding with control by potentiometer.

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4. Other devices of the machine

- 4.1. Silicone upper pressing cylinder, covered by rubber for high pressures. Adjustable hydraulic pressure.
- 4.2. Centesimal calibration of the distance between pressing cylinder and heated cylinder.
- 4.3. Independent motors with electronic synchronization system.
- 4.4. Meter-counter, with alarm to predetermine the length of production runs.
- 4.5. General management of the machine, including temperature control by adjustable PLC for the memorization of production data.
- 4.6. Front touch-screen keyboard for production data access and programming.
- 4.7. Protection of the pressing zone by intangible barriers.
- 4.8. Safety sensor installed on the moving part of the pressure roll to interrupt intangible barriers only in case of open roll.

5. Rolls diameter machine without options

- Fabric roll diameter in entry 400 mm (15,75").
- Fabric roll diameter in exit 500 mm (19,69").
- Printing paper roll diameter in entry 300 mm (11,81") - Larger diameters on request.
- Printing paper roll diameter in exit 300 mm (11,81") - Larger diameters on request.

6. Technical data

- 6.1 Installed power: 36,1 kW.
- 6.2 Average electrical consumption: 26,2 kWh.
- 6.3 Compressed air pressure: 6-8 bar.
- 6.4 Mechanic speed: 0.5 ÷ 7.5 m/min.
- 6.5 Pressing rubbed roll during direct pressure on chromed heating cylinder. Maximum pressure applied 70 Kg/linear cm at 140 bar.
- 6.6 Overall dimensions (with platform): width 3.750 mm (147,64"). length 3.080 mm (121,26"). height 2.210 mm (87,01").
- 6.7 Net weight: 5.100 kg.
- 6.8 Machine produced according to CE rules.
- 6.9 Customs tariff: 84 51 80 80.

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