

## MODEL L03-2000

Polyvalent calender used for:

- Transfer printing
- Direct inks reactivation
- Thermosetting - heatsetting
- Film/web thermobonding
- Plastification and coating with film
- Transfer printing of polyurethane, PVC and synthetic leather
- Metallization and gold lamination
- Transfer of special effects (es.: snake skin)
- Embossing using release paper
- Heatsetting of "crush" effect
- Application of "black out" films and barriers

### 1. CHARACTERISTICS OF PRINTING CYLINDER:

- 1.1. Diameter : 350 mm (13,78")
- 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 a touch screen and is regulated by an electronic card. The temperature control is 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:
  - Entry: axial unwinding with disk brake with pneumatic adjustment and fabric manual brake.
  - Exit: double roll tangential winding, possibility of hard or soft winding by management of transmission, adjustable by potentiometer.
- 3.2. Tension control for printing paper or fusing film:
  - Entry: axial unwinding with disk brake with pneumatic adjustment.
  - Exit: independent motorized axial winding with control by touch-screen, axial unwinding with disk brake pneumatically adjusted for a second material during the bonding phase.
- 3.3. Tension control for protection paper:
  - Entry: axial unwinding with disk brake with pneumatic adjustment.
  - Exit: independent motorized axial winding with control by potentiometer.

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### 4. OTHER DEVICES OF THE MACHINE:

- 4.1. Independent motors with electronic synchronization system.
- 4.2. NOMEX felt with pneumatic tension adjustment system and automatic felt-centring device by pneumatic cylinder, controlled by an electromechanics sensor.
- 4.3. Incorporated system for felt protection in case of black out and/or compressed air lack.
- 4.4. Meter-counter, with alarm to predetermine the length of production runs.
- 4.5. System of temperature reduction for the printing fabric in exit, equipped with fan.
- 4.6. General management of the machine, including temperature control by adjustable PLC for the memorization of production data.
- 4.7. Front touch-screen keyboard for production data access and programming
- 4.8. Pressing roll Ø 175 mm in silicon rubber for high temperatures, controlled by touch-screen and pneumatically adjusted.
- 4.9. Protection of the pressing area by intangible barriers.
- 4.10. Safety sensor installed on the moving part of the pressing roll in order to stop intangible barriers only when the roll is in an open position.

### 5. ROLLS DIAMETER MACHINE WITHOUT OPTIONS:

- Fabric roll diameter in entry 400 mm (15,75").
- Fabric roll diameter in exit 400 mm (15,75").
- Printing paper roll diameter in entry 250 mm (9,84") - Larger diameters on request.
- Printing paper roll diameter in exit 250 mm (9,84") - Larger diameters on request.
- Protection paper roll diameter in entry 300 mm (11,81").
- Protection paper roll diameter in exit 300 mm (11,81").

### 6. TECHNICAL DATA:

- 6.1. Installed power: 21,1 kW
- 6.2. Average electrical consumption: 14.8 kWh
- 6.3. Compressed air pressure: 6-8 bar
- 6.4. Mechanic speed: 0.3 ÷ 4 m/min
- 6.5. Overall dimensions: width 3.400 mm (133,86") . length 1.485 mm (58,46") . height 1.940 mm (76,37").
- 6.6. Net weight: 2.250 kg
- 6.7. Machine produced according to CE rules
- 6.8. Customs tariff: 84 51 80 80

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