Calender used for:

- Transfer printing
- Direct inks reactivation
- Thermosetting - heatsetting
- Film/web thermobonding
- Plastification and coating with film
- 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 HEATING CYLINDER:
   1.1. Diameter : 500 mm (19,68").
   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 oil bath, in complete absence of air and pressure. MONTI ANTONIO S.p.A. system.
   2.2. The temperature of the cylinder is set up by the touch screen and 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 INTO MACHINE:
   4.1. Independent motors with an electronic synchronization system.
   4.2. NOMEX felt with pneumatique tension adjustment system and automatic felt-centering device.
   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. Temperature cooling system for printed fabric exit, complete 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. Pneumatic felt pressing roll (IP) Ø 210 mm controlled by pneumatic cylinders.

5. ROLLS DIAMETERS 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 400 mm (15,75").
- Protection paper roll diameter in exit 400 mm (15,75").

6. TECHNICAL DATA:
   6.1. Installed power: 32,24 kW
   6.2. Average electric consumption: 22,37 kW/h
   6.3. Compressed air pressure: 6-8 bar
   6.4. Mechanic speed: 0.5 - 7.5 m/min
   6.5. Overall dimensions (with platform): width 3.540 mm (139,37"). length 2.925 mm (115,16"). height 2.290 mm (90,16").
   6.6. Net weight: 4.000 kg
   6.7. Machine produced according to EC rules
   6.8. Customs tariff: 84 51 80 80

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