

**ZAPPA MACCHINE**  
SINCE 1860

 DESIGN

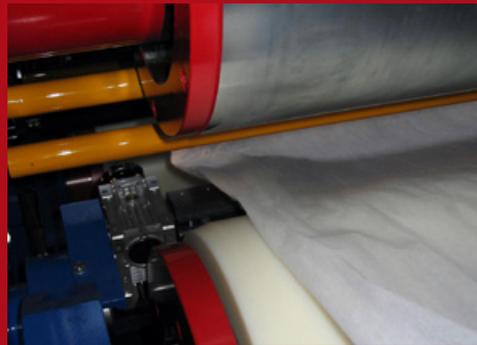
 MANUFACTURING

 SERVICE

## FINISHING, COATING AND LAMINATING MACHINERY

### CALENDER

We produce laminating calenders for textiles of any width, embossing calenders for textiles and paper, laboratory calenders with steel rollers with mirror finish or embossed surface, heated or cooled, with rubber, nylon sleeve covered nip roll, with pneumatic or hydraulic pressures up to 60 tons, and complete calendaring plants.



## CALENDER

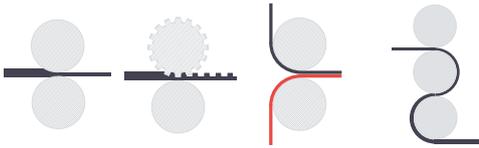
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**2 / 3 ROLLER CALENDER**  
EMBOSSING/SMOOTHING/IRONING/LAMINATING  
CALENDER

**Configuration**

Top roller is ground, chromed and reground to a mirror finish or engraved surface according to production requirements, steel pressure roller with nylon sleeve. Bottom roller can be moved vertically, towards the chromed roller, by a couple of hydraulic cylinders. The roller is mounted on a couple of lever mechanism so to be quickly and easily removable, should it be changed with an engraved roller. Modular and compact design, customizable according to client's requirements. Smooth or embossing calendering of textiles, tnt, film or paper is possible.

**Web width** from 500 to 3200 mm.

**Pressure/load** calendering pressures are adjustable from 6 up to 40 tons.

**Mechanical speed** 0 – 30 m/min.

**Heating** Oil filled and electrical heated roller or with external hot oil generator or eating element.



**LABORATORY CALENDER: MOD. CALA-B**  
10 TONN EMBOSSING/SMOOTHING/IRONING/  
LAMINATING LABORATORY CALENDER

**Configuration**

One top, high tolerance, accurate finish chromed roller, nominally Ø 290 mm. This roller is ground, chromed and reground to a mirror finish surface. The roller is heated by electric element placed internally of the roller and immersed in diathermic oil. The roller is mounted on a couple of lever mechanism so to be quickly and easily removable. One bottom, nylon sleeve covered roller, free running, supported on a couple of high precision oscillating bearings. A stainless steel plate, placed at the entry of the calendering point allow the positioning of the sample to be tested.

**Web width** 400 mm. **Pressure/load** calendering pressures are adjustable up to 10 tons.

**Mechanical speed** 0 – 15 m/min.

**Heating** Oil filled and electrical heated roller.

