

CALENDER

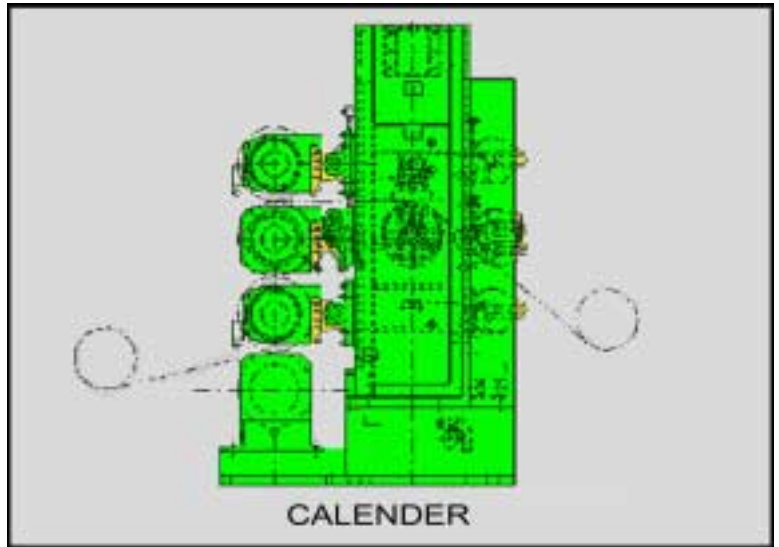
Calendar is a set of rolls that are stacked vertically and positioned directly after the last dryer section. The sheet enters the calendar at the top and is in direct contact with the rolls.

Calendaring is a smoothening process, by which the paper is passed between rolls of alternating material: steel and pressed paper at high pressure. The deformation of the nip, by token of the steel roll penetrating slightly into the softer paper roll, causes the paper, in between, to undergo a brushing effect, which smoothenes and increases gloss.

The surface quality of a paper sheet is as important to the user as the internal properties. The calendar is the key tool in affecting these qualities and careful design is vital in optimising the balance between surface finish and caliper.

The pressure applied to the web by the rollers determines the finish of the paper, and there are three types of finish that the paper can have. The first is *machine* finish, and can range from a rough antique look to a smooth high quality finish. The second is called a supercalendered finish and is a higher degree for fine-screened halftone printing.

The third type of finish is called a *plater* finish.



Salient Features:

- Open Type with 4 Rolls.
- Rolls of Chilled Cast Iron with Drive Journal.
- L' Shape main frames of rigid construction of M.S. fabricated.
- Lever arms of Steel Casting/M.S. fabricated and Lever Brackets of Steel Casting.
- Loading Brackets and Nip guards of M.S. fabricated.
- Bearing Housings of Steel Casting complete with bearing covers of C.I. Gr. 25.
- Centralized oil Lubrication System.
- Electro-mechanically oscillating Doctor for king Roll complete with pneumatic loading and lift – off arrangement. Stationary Doctoring arrangements complete with Doctor Holder and blades.
- C.I. sole plates with foundation bolts and Nuts.
- Cross walk – way and ladder of steel above the calendar.
- Loading and Nip-relieving will be with rubber bellows.

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