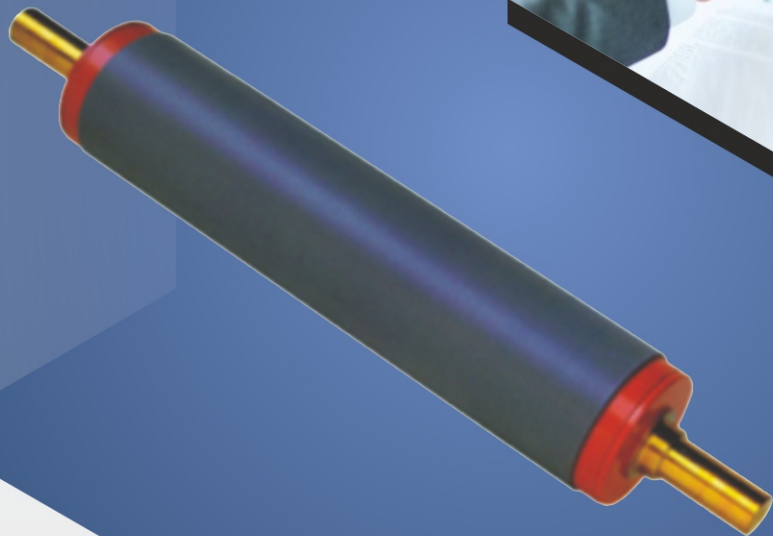


SMART ROLL INDUSTRIES

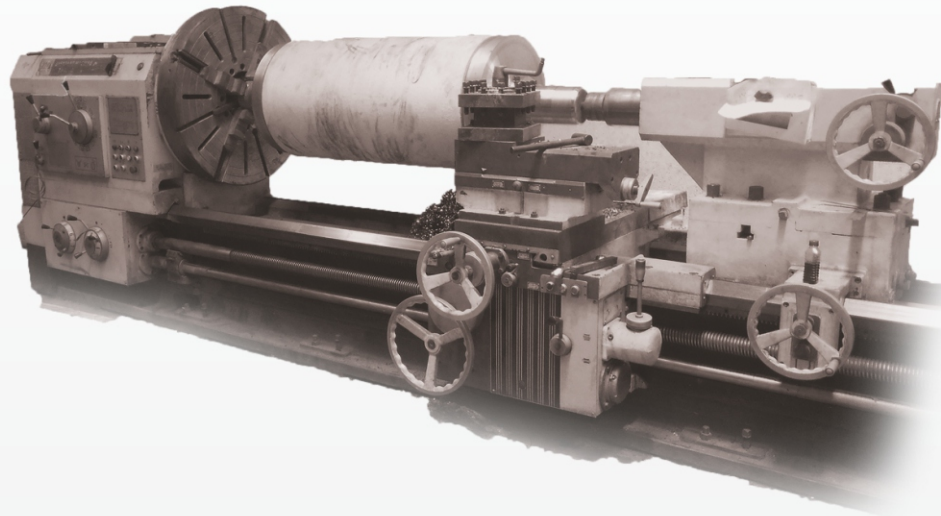


Company **PROFILE**



www.smartrollindustries.com

Company PROFILE



It is a pleasure to inform you that **SMART ROLL INDUSTRIES** has started its operations from February 2018.

With over 25 years of experience in Roll manufacturing for different Industries **Mr. PRIYA RANJAN** brings various rolls ranging from Advanced Polyamide Calendering Roll, Cotton Rolls, Paper Rolls and nonwoven rolls for every Textile house, Paper Industries, Automobile, steel industries under one roof in newly setup state-of-the-art facility at SURAT.

The Support of our employees & trust of customers have resulted in continuous improvement in our quality with handsome reduction in cost, which assure fastest paybacks.

We request you to provide us with the opportunity to serve you and feel the difference.

An ISO 9001:2015
Certified Company



Cotton ROLL



BENEFITS AND ADVANTAGES

Mark Resistant :

Cotton bowls are highly mark resistant and are generally not affected by the crease markings of the fabric.

Low maintenance cost :

Cotton bowls are easy to maintain as no special care is required for these. Most of the operators have working knowledge of these rolls.

Grinding :

Cotton rolls are easy to grind as these rolls generally do not require any CNC machines to be ground.

Low cost :

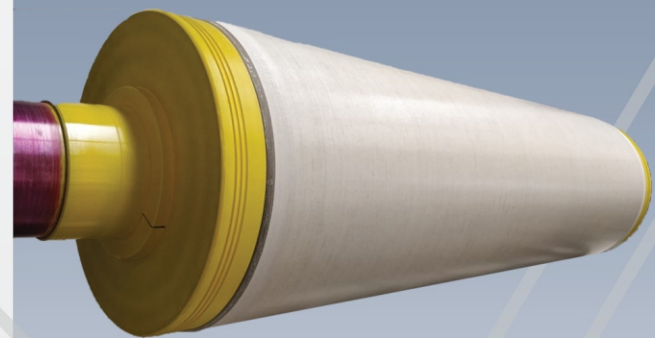
The roll cost is very less almost half of the Polyamide rolls and lesser than the paper roll.

Long life :

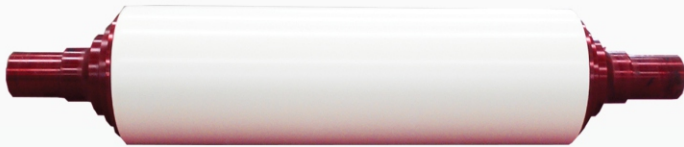
If the proper care is taken and used between the set limits cotton rolls tends to last longer than other rolls.



Cotton bowls or cotton rolls are the most traditional form of rollers that are still in use for Calendaring applications. The cotton bowl was firstly used in 80's and since then it is the first choice for every calendar.



Polyamide ROLL



BENEFITS AND ADVANTAGES

High Hardness :

Hardness is achieved by using best grade of polyamide for high hardness without the sacrifice of the toughness. This means that the roll is still mark resistant and cannot be easily indented by the selvedge marks.

High Gloss :

The polyamide sleeve can attain the higher surface finish value since it is produced from the long chain polymers.

High Speed :

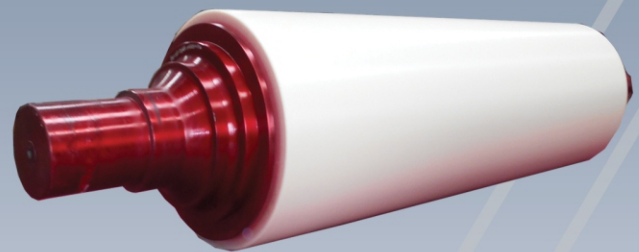
The polyamides can run on more speed compared to the cotton roll as the nip load is much higher in this roll. This increases the total production quantity and more lusture.

Easy Installation :

Polyamide rolls are ready to use and requires no conditioning like cotton rolls which takes 36-48 hours of time before taking it in the production.



Polyamide rolls are the modern form of Calendaring roll which are produced by mounting a casted polyamide cylinder on the solid steel shaft. Polyamide material is more resilient and tougher than cotton bowl and paper bowl and therefore it provides higher hardness, better nip and more speed.



Now Woven Squeeze ROLL



BENEFITS AND ADVANTAGES

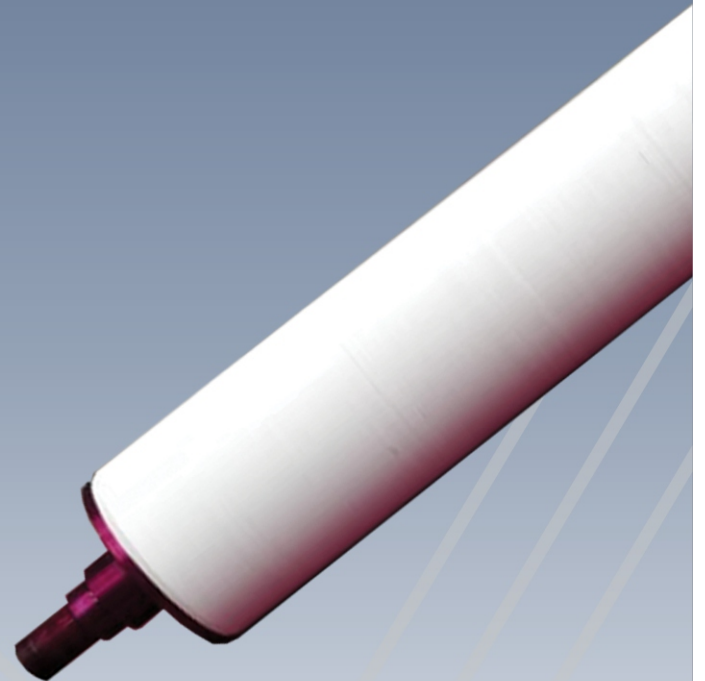
Nonwoven based rolls are primarily used for saving energy and can save around 25-40% annually.

The nonwoven rolls have high coating thickness due to which it can last long compared to an ordinary rubber roll.

These rolls are self-recovering and regain its shape due to minor damage caused by foreign materials. In case of high damage these can recover by the use of hot water also.



The nonwoven material is made up of fibers like polyamide, polyester and viscose which tends to provide them the desired action of resilience, strength, toughness and capillarity for the squeezing. These fibers are then bound with a synthetic binder to make the material stronger.



Paper ROLL



BENEFITS AND ADVANTAGES

Ease of Operation :

The paper roll can be put to use within 4-6 hours of conditioning.

Higher Operational Loads :

Paper roll can be subjected to higher loads compared to cotton rolls which produces more gloss and machine can run at higher speeds.

Mark Resistant :

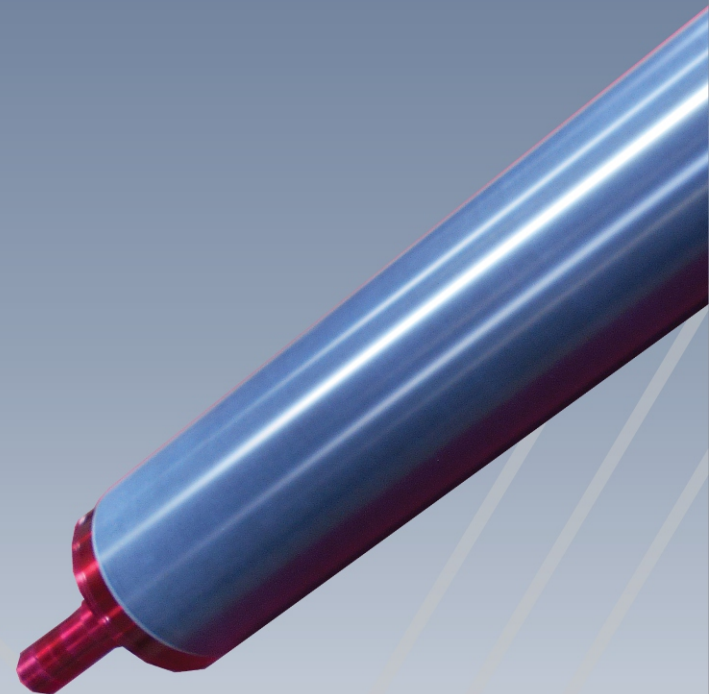
Due to the presence of the wool, the paper roll is not easily indented by the selvedge or crease.

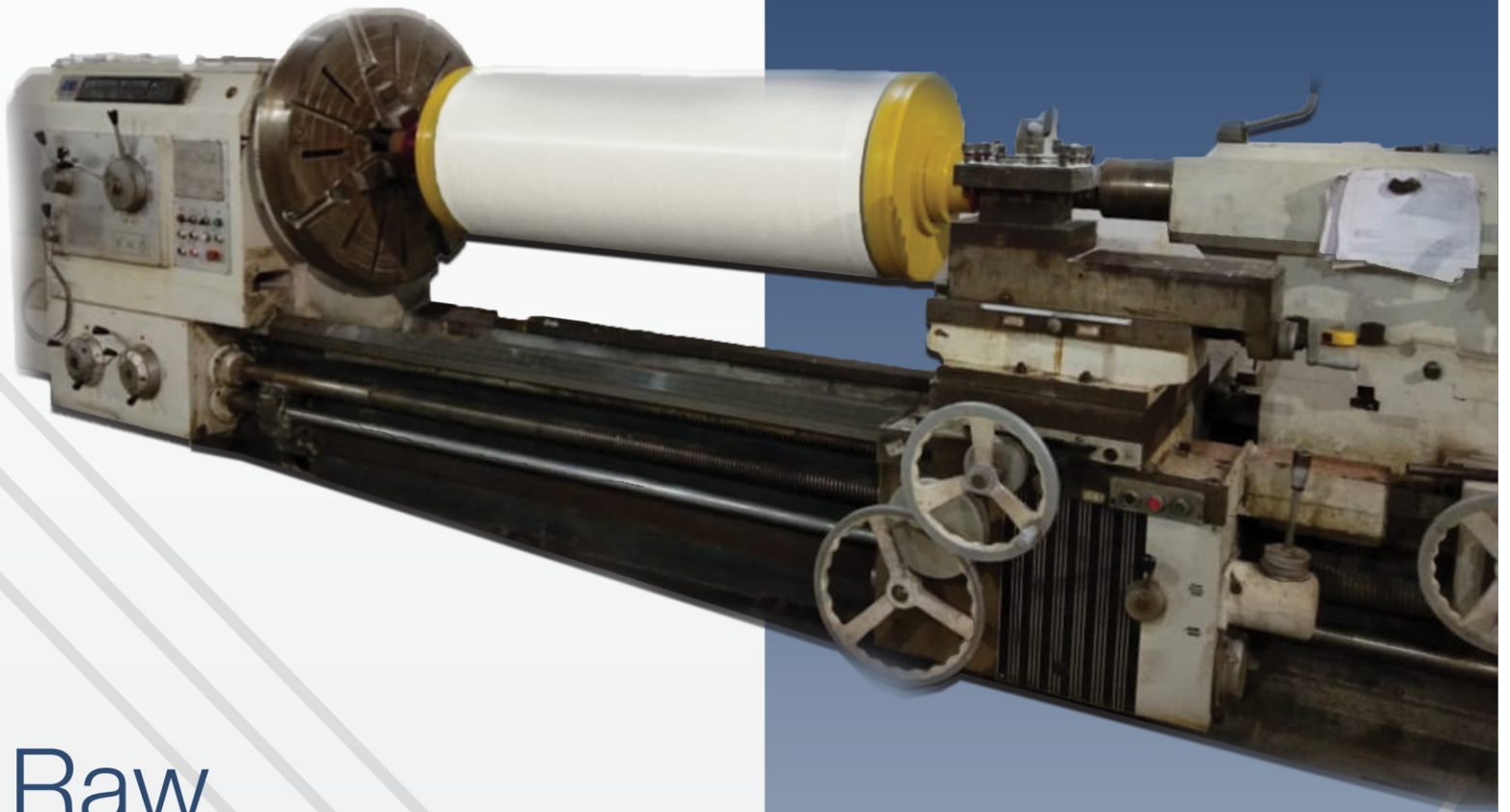
Lesser Grinding :

Paper roll requires less grinding frequency as paper is stronger than the airlaid fibers in the cotton roll.



Paper bowls are the improved form of Cotton bowls where the cotton material is filled in the form of paper sheets. These paper sheets are sourced from Europe and are made from fine cotton pulp and mixed with wool to provide the high degree of resilience.



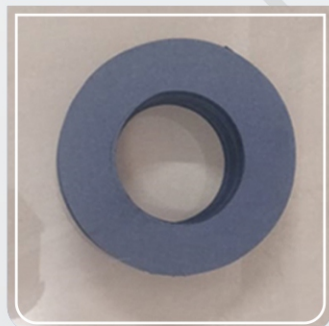


Raw Material



Cotton

Paper



Non Woven

Polyamide





SMART ROLL
INDUSTRIES
An ISO 9001:2015 Certified Company
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