



Hard Chrome Plated Metal Roll

Hard Chrome Roll is known by many names such as Heating Roll, Metal Roll, Finishing Roll and Hard Chrome Plated Roll. EHL Hard Chrome Roll is a vital part of Calender machines. The fabric finish mostly depends upon the metal roll or hard roll. These rolls provide the best support to elastic rolls or soft rolls. The nip formed with the combination of elastic roll is responsible for the finish on fabric or on paper or any other media which are being passed through the calendering process. ECL Hard chrome roll stands tall in all quality & operational parameters.

Hard Chroming Plating Is An Art

At EHL, we recognize the importance of cleaning prior to Hard Chrome Coating in our plating process. To achieve the required levels of cleanliness and Surface Dimension Accuracy the roll has to undergo through the Pre-Plating Grinding. If required, the roll will be pre-blasted in the blasting room. To ensure proper bonding and a superior, wear resistant surface, Chromium must be skillfully impregnated in the metal pores. Plating is an art that benefits from our extensive, in-house expertise in metallurgy, metal working & plating.

Compression Chart of Hard Chrome Roll Normal Hard Chrome Roll v/s EHL Hard Chrome Plated Roll			
Description	Normal Hard Chrome Roll	EHL Hard Chrome Plated Roll	Advantage
Construction	From Pipe	From 1-piece solid shaft	Accuracy & long life
Design	Local design as per pipe availability	German Design	Standard design technically proven
Operation	Deflect in High Pressure	Stable in High Pressure	Trouble free running
Pressure	Can't withstand at High	Withstands at High	Sturdy design
Wall Thickness	Less Wall Thickness	Solid Shaft with Boring	Maintenance Free
Balancing	No Balancing	Static Balanced Roll	Smooth operation
Accuracy	No accurate dimensions	High Accuracy	Fabric gets even finish
Chrome Plating	Less Micron Plating	More Micron Plating	More working life
Surface Finish	Dull Finish	Mirror Super Finish	Excellent Fabric finish



Eck Haubold & Laxmi®
A Unit Of Hindoostan Mills Ltd

Complete Calender
Bowl Technology

Super Finish

Better Economy

High Endurance

Advanced Technology

Excellent Performance

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Wool Paper Bowl

In the year 1961, paper as roller cover material was imported from Germany and bowls were made for the following applications.

Textile calendering · Schreiner calendering · Textile
embossing · Coated/uncoated paper calendering /
embossing · Aluminium embossing · Fax paper
embossing

Jute Textile Calendering

High density calendering

Magnetic tapes. Temperature in textile may be higher.

- Nip pressure
- Relation of roll diameter to speed
- Hardness of elastic bowl
- Material to be calendered

Finishing of filled bowl is an important step in the bowl manufacturing. Bowls are turned initially with carbide tiptool and later with diamond tool. The silky and glossy finish is produced by specially designed finish machine with USA make Polish abrasive papers and Tool .

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Cotton Bowl Application	Hardness Shored	Density	Nip width	Nip pressure	Resilience	Loading Capacity	Mark Removal	Hardness	Heat Development	Reduction in Bulk	Ease of Calendaring	Heat Resistance
Super Calendar	78° - 80°	↑ MORE	↓ LESS	↑ MORE	↓ LESS	↑ MORE	↓ LESS	↑ MORE	↓ LESS	↑ MORE	↓ LESS	↑ MORE
Friction Textile Calendar	76° - 78°											
Universal Textile Calendar	72° - 76°	↓ LESS	↑ MORE	↓ LESS	↑ MORE	↓ LESS	↑ MORE	↓ LESS	↑ MORE	↓ LESS	↑ MORE	↓ LESS

A large roll of white material, likely a filter or membrane, with a blue end cap and a central core. The core is labeled 'EHL' and 'Hochdruck-Filter'. The roll is shown at an angle, highlighting its cylindrical shape and the blue end cap.

Product development is key success for EHL since its year of incorporation 1959.

Our continuous research works help us to introduce different rollers in textile, paper, steel, Home Textile Industry. ECK Haubold & Laxmi introduce new type of special type of hybrid roller and its advantages are as follows

- Excellent Unique Fabric Finish
- Higher temperature bearing capacity
- Better Pressure bearing capacity
- Improved production
- More resilience
- Extended Life

- 1) Core Shaft : Bigger Diameter EN8/EN9 Steel Grade Shafts.
- 2) Filling Material : 5 Types Fibre sourced from across the world.
- 3) Raw Material : Pre Processing of Raw Material is Key Stage .
- 4) Pressing Technology : Pressed On the Advance Automatic Press.
- 5) Hardness : Optimum Hardness for Better Life & Better Finish.
- 6) Proper Surface Finish : Excellent Gloss surface on the Roll.
- 7) Cambering Profile : EHL Offer True Parabolic Cambering.
- 8) Quality Test : Each roll has to pass through EHL's Strict Quality Test.
- 9) EHL Brand : Peace of Mind & Complete Trust on EHL Products.



EHL Polyamide Sleeve Roll comprise of spun-cast sleeve (approximately 50mm thick) manufactured from the highest quality polymers, fitted to a precision engineering carbon steel solid shaft. Polyamide sleeves are cast on industry leading equipment ensuring the optimum density and elasticity throughout. Carefully mixing and temperature control of the polymers combined with excellent pressure control during casting, guarantees that every polyamide sleeve is perfectly cast for optimum performance. (Note: Inferior cast polyamide type sleeves in the market are susceptible to hot spots caused by uneven density, bad polymerisation and short polymers).



Maximum Running Conditions*

Maximum Linear Pressure	350kg/cm
Maximum Speed	100M/Min
Maximum Surface Temperature of Heated Steel Roll	120°C
Maximum Surface Temperature of Polyamide Roll	100°C

*For Actual Operating Parameter please refer EHL Product manual

Polyamide rolls can be produced upto 6m face length & 1m diameter, with a parallel or crowned profile

- Much longer service life
- No 'running-in' required
- Different material widths can be run without edge marking problems
- Higher hardness combined with better elasticity
- Resistant to most commonly used processing chemicals
- Higher resistance to the embossing effects of selvages, sewing seams, creases & knots etc.
- Low maintenance

- Better smoothing/calendering effect
- Excellent glazing effect when used in conjunction with a highly polished steel roll
- Polyamide Roll can be remachined several times
- Running stability enables higher and more homogeneous lustre at higher speeds
- Polyamide produces excellent lustre/feel/matte effects when used in combination with cotton rolls