



Eck Haubold & Laxmi®
A Unit Of Hindoostan Mills Ltd

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Complete Squeezing Technology



Laxmi Helextra
High Expression Fibre Squeezing Rolls



Latest Development

For more than 50 years, ECK Haubold & Laxmi has offered Textile and Paper industry outstanding services in the field of surface finishing. We developed a roll with unique features of high efficiency liquid extraction advanced version Laxmi Helextra Roller. This roller is the latest development in Squeezing Technology assuring greater efficiency, substantial cost & saves the energy.



Smart Payback

Our customer appreciate Helextra's potential of tremendous cost saving. It gives remarkable payback and cost of the roller will be recovered within few months.



Significant Saving

ECK Haubold is pioneered in manufacture of Laxmi Helextra rollers in the country and is much superior to ordinary rubber roll. The squeeze-off effect is nearly upto 30% more than the normal rubber roller depending on the type of fabrics to be processed with using less energy. Significant saving in subsequent drying process, resulting in improved productivity by increased mangle speed. In many cases, it is also possible to work wet-on-wet process whereby immediate drying operation can be omitted.



Powerful Extraction

In operation, Laxmi Helextra rollers powerful squeezing action creates capillary suction effects. The fabric passes between the nip of Laxmi Helextra roller and hard roller, liquid is squeezed by the hard roller and extracted out by Laxmi Helextra roller. When compressed fabric which still in the nip, regains its shape, draws air through the fabric, creates the capillary action and initiate the sucking action which removes much of the liquid from the fabric as shown in the diagram. The recommended nip line pressure is 15-30 kg/cm for excellent results.



Helextra Construction

Laxmi Helextra Fiber rolls comprise of a substantial steel center shaft with two longitudinal key inserted. Diametrically spaced, and steel or stainless steel end plates restraining a highly compressed micro-porous filling special fibers individually coated with compound which permanently binds them together.



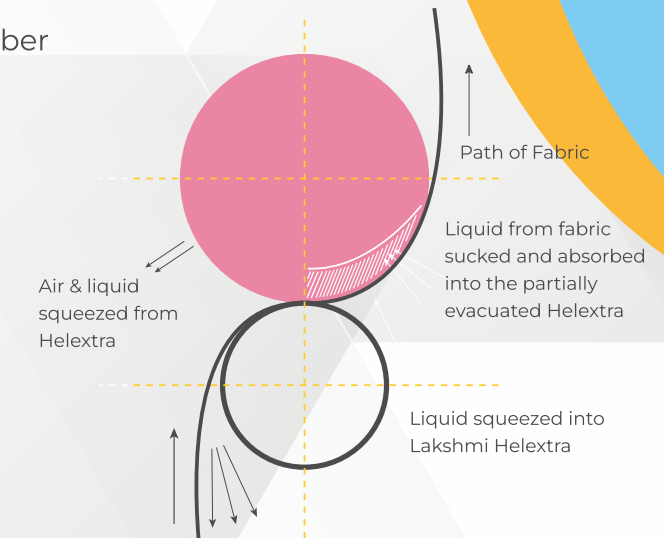
Wider Applications

Squeeze off performance: Using non-woven roller is possible to obtain a squeeze-off effect as 30% higher depending on the textile material. This high performance makes it possible to work wet-on-wet process. By virtue of its properties to resist various chemical reactions, Laxmi Helextra Roller can be safely used in stenter finishing, mercerising, washing range, balloon padders, rope forms and soaper units.

Helextra Expression Results

The expression results illustrated below were achieved at 50m/minute, 30 kg/cm load

	Helextra	Hard Rubber
100% Cotton (knitted)	55%	78%
100% Cotton (knitted-terry)	62%	83%
100% Wool (woven)	60%	80%
Poly Cotton (60/40)	34%	51%
100% Polyester (knitted)	37%	73%
100% Cotton (toweling)	63%	78%
100% Cotton (120.m2)	63%	79%
100% Cotton (200g.m2)	58%	72%
100% Cotton (70g.m2)	66%	91%
Brushed Acrylic	36%	75%
Micro Fibre	30%	46%
Wool/polyester (45/55)	37%	57%



Expression percentge are based on the dry weight of the fabric For installation, maintenance and storage of Helextra rolls refer to data sheet no. ECK-LH2

Laxmi Helextra Fiber Rolls operate on the principal of squeezing liquor from the fabric and at the same time providing a powerful capillary suction



Service Life

Laxmi Helextra roller has a longer life than rubber rollers. It requires minimum maintenance. Owing to high durability, it requires less regrinding cycle than the rubber rollers. Indentations can be easily levelled out by spraying steam or hot water, working the roller under pressure but without material.



Helextra Advantage

- Helextra rollers provide an efficient extraction of liquid due to the combined squeezing and capillary suction effect within the micro porous composition.
- Helextra rollers give a “gentle” squeezing action due to their extreme resiliency, unlike hard rubber rollers which tend to damage permanently the fibre construction of fabrics.
- Helextra rollers offer up to 30% savings in power compared with rubber covered rollers and significantly higher savings in power when compared with vacuum extraction systems.
- Helextra rollers can withstand high squeezing pressures up to 50 kg/ Linear cm (* For Specific Applications). Laxmi Helextra rollers recover very quickly from damage marks. Foreign metallic objects or other small debris simple sink into the roll and need not be removed.
- Fibre rolls can be reground to remove any unusually deep marks. Fibre rolls can simply replace other types of squeezing rolls and can be “refilled” when the minimum diameter is reached. Their life is considerably longer thana rubber covered roll.
- Helextra rollers can be run together with Metal, Ebonite Rollers. On Tubular Knit or thick pile fabrics combination of two Helextra rollers provides excellent results.
- Helextra rollers can be used for squeezing fabrics containing the usual soft chemicals found in the textile processing. (* For Specific Applications)