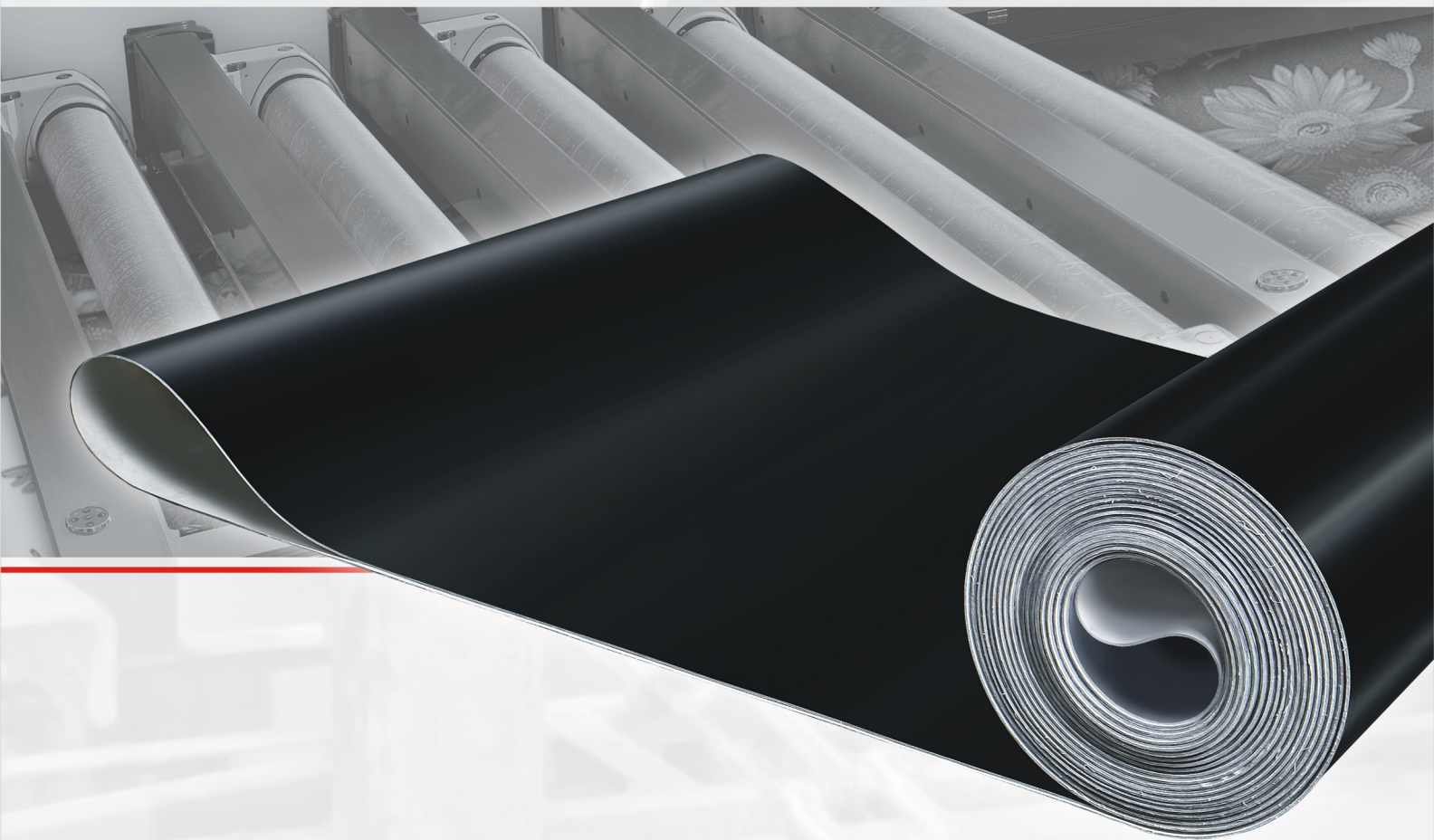


Image
Printing Rubber Blanket

SCREEN PRINTING
RUBBER BELT



DEDICATED TO QUALITY

YOUR ONE STOP SOLUTION FOR SCREEN PRINTING RUBBER BELT

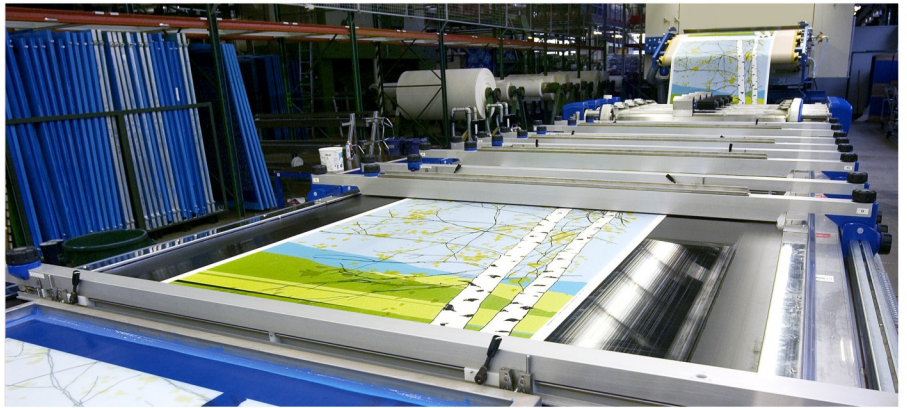
Image

Printing Rubber Blanket

Company Overview

In 1929, when textile mills used imported sanforizing and screen printing rubber belts, there were no service centers to repair damaged belts and new ones were too expensive. Late Mr. M. R. Maniar, the founder of a reputed and established rubber vulcanizing workshop named Gujarat Vulcanizing Works, Stepped into the market with his sons in manufacturing textile screen printing rubber belt and endless rubber preshrink belt. In 1986 we successfully manufactured "IMAGE" brand rubber belts for rotary and flatbed screen printing machine. Thousands of rubber belts have been successfully installed during these years. Image rubber belts are ideal for customized printing requirements. With many years behind us, our exceptional creative insights and rich experience along with purely indigenous efforts encourage us to produce international quality at substantial lower cost setting standards for others to follow.

We make printing rubber belt for both rotary and flatbed screen printing machines.



Product Features

- » **SMOOTH AND STURDY**
Absolute smooth and even on the surface, but sturdy on the inside
- » **COMPLETE ENDLESS**
Because of the proprietary technology and processing, the joint will never break under normal usage.
- » **RELIABLE SURFACE**
Resist corrosive elements, but remain smooth on periodic usage.
- » **UNIFORM THICKNESS**
The uniform callipered thickness (+/-0.08). From beginning fabric coating to endless loop binding, on every stage we maintain thickness on every stage to achieve nil tolerance and variation in thickness.
- » **TEMPERATURE RESISTANCE**
Excellent Temperature Resistance: moment working at 120°, long-term working at 100°, no harm to printing quality.
- » **SOLVENT RESISTANT**
excellent resistance to detergents and solvents, such as acetone, ethylic acetate etc. Experiment shows that the resistance to such corrosive material is much better than other products. Belt also has a fine resistance to corrosion of acids and alkali.
- » **REPEAT ACCURACY**
Stable size, easy adjustment, little elongation during travel. No contraction and flared phenomenon appeared
- » **ACCURATE PRINTING AT HIGH SPEED**
Dimensionally stable in all running conditions. Excellent tracking at high speed give accurate printing quality.
- » **LONG LIFE SPAN**
Image Rubber Belts Lasts more than twice or three times as long as polyurethane (resin) belts.



RESPONSIVE INNOVATION FROM DESIGN TO FINISH

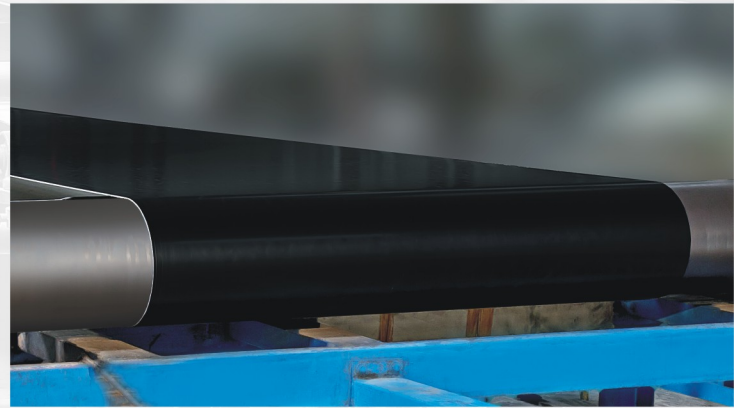
Backup Support

Installation and maintenance advice and support by highly qualified, trained and experienced technical personnel. Professional after sales service only a phone call away. We maintain a full team of specialized technicians and tool kits at our service centers at Mumbai, Surat and Ahmedabad. Our emergency cell is open 24 hours giving round the clock service at moments notice. There by saving our clients a considerable amount of revenue by restricting the close down time of machine to a minimum.



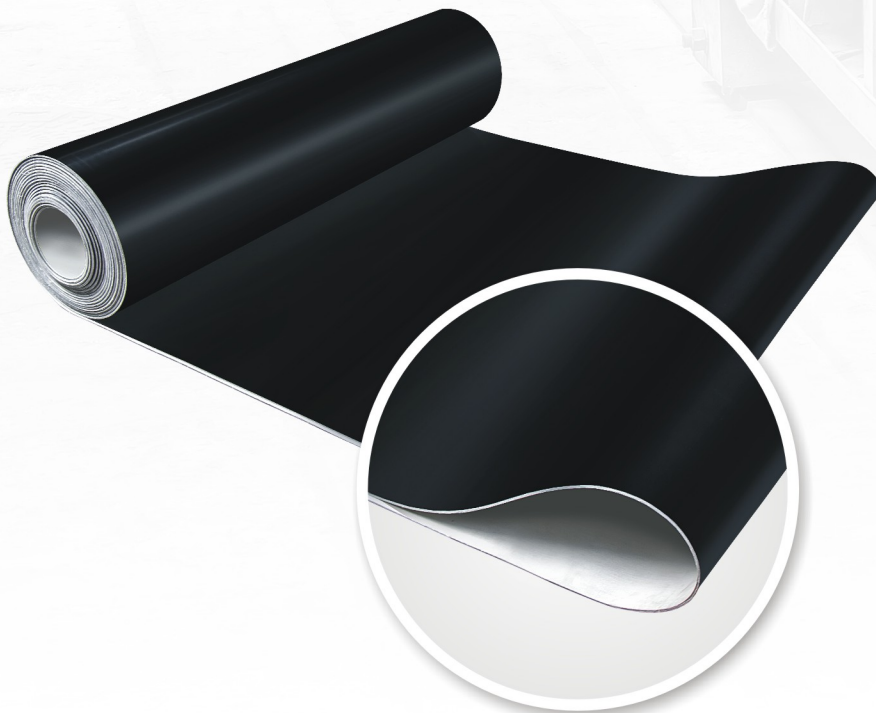
Manufacturing Unit

Since 1929 solving variegated problems concerning Screen Printing Rubber Belt gave us the necessary experience and impetus to start manufacture of image textile printing rubber blankets which are at par with the imported rubber belts and far superior to other Indian makes, in terms of quality.

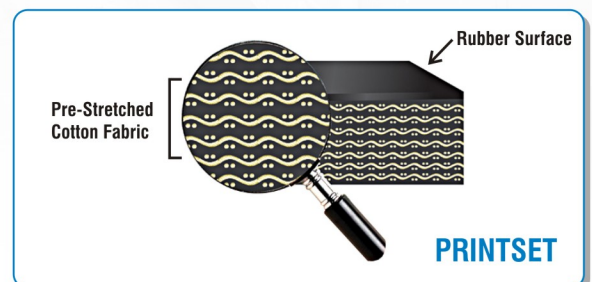
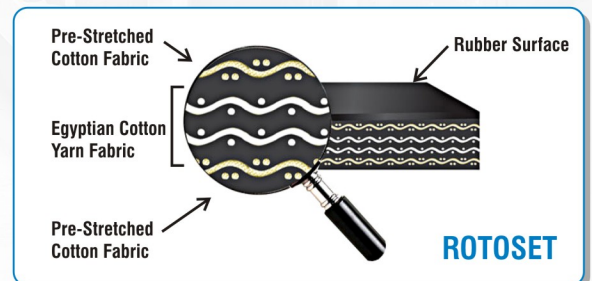
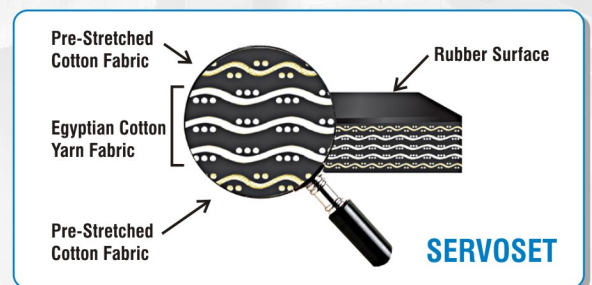


Product Composition

- ✓ Absolute smooth & even on the surface, but sturdy on the inside.
- ✓ Egyptian Cotton (pre-stretched fabric)
- ✓ Intermediate layers with polychloroprene rubber for optimum bonding & compressibility.
- ✓ Uniform thickness (+0.08mm) multi-layered structure.



Cross Sectional View of Textile Printing Blankets



Production Process



Raw Fabric Inspection

Raw fabric is regularly inspected and completely checked for any defects. After approval fabric is sent for the next process.



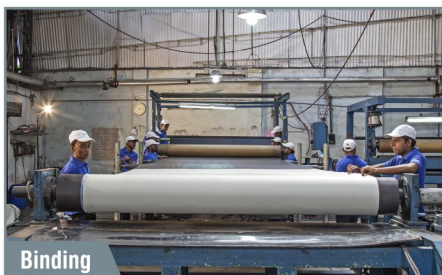
Rubber Mixing

Image rubber belts produced only from the best quality rubber obtained from the world's best manufacturers and other prime ingredients scientifically selected for their proven end results.



Rubber Spreading

Image Rubber Belts are precisely manufactured using spreading process having uniform thickness in all fabric layers. This process is very complicated making whole ply overlapping technique to form one pure endless blanket.



Binding

Rubberised raw fabric is made into a loop, and rubber and specially treated fabric is applied to form a belt. This process makes the whole rubberised fabric into endless belt. Thanks to our unique ply built technology.



Pressing

The belt from the previous process is vulcanized by the press machine. Horizontal flow is adjusted to prevent accuracy errors. Our experts are skilled with a variety of types of statistical analyses.



Balancing

Image Rubber Belts are precisely manufactured. To get the exact output measurement and remove cotton fabric shrinkage we balance the whole blanket to run continuous minimum 48 hours to get the optimum result of the screen printing belts.

Technical Specifications

Length Any length as required		Fitting tension (%) 0.50 - 0.60	
Width maximum (mm) 4000 mm (4 meter)		Elongation under constant load of 5 N/mm(%) 0.2 ~ 0.5% depending on machine type	
Thickness (mm) 2.7 (Rotary) / 3.0 (Flat Bed) ±0.08 mm		Repeat accuracy (mm) ± 0.25	
Number of layers 7 (Rotary) / 9 (Flat Bed)		Operating temperature resistance on top surface (°C) - ≤ 100~120	
Weight (Gms./Sq.M.) 3750 / 4000		Abrasion resistance on top surface (%) 0.23	
Type of reinforcement Egyptian cotton (pre-stretched fabric)		Co-efficient of friction with respect to S.S. 0.25	
Length tolerances (mm) -0 / +50		Resistance to solvents Resistant to aliphatic and aromatic solvents	
Type of top layer Perbunan synthetic rubber		Joint Overlapping ply built joint	
Type of intermediate layer Polychloroprene synthetic rubber		Built Endless belt	
Peel strength (Kgs.) ≥15		Surface - Absolute smooth, black & without any variation of levels	
Function - Rotary & flat bed textile printing machines			

Image Screen Printing Rubber Belt Composition

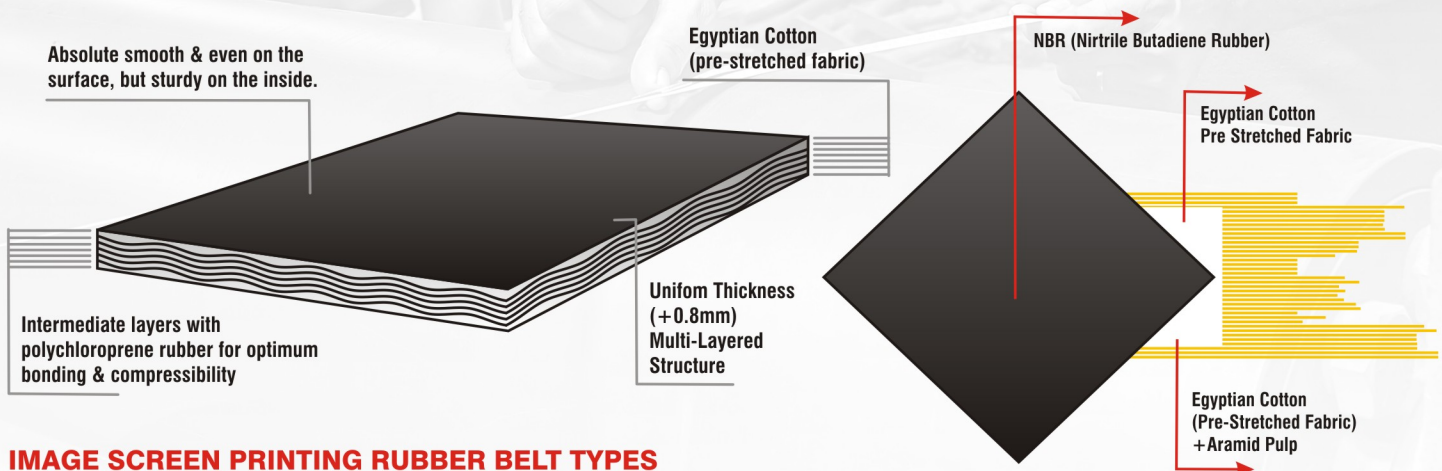


IMAGE SCREEN PRINTING RUBBER BELT TYPES







FB7000	Base Fabric: Egyptian Cotton Yarn Fabric + Aramid Fiber Top Coat : NBR (Nitrile Butadiene Rubber)	SERVOSET	For Flat Screen Machines (Twin Motor Driving System)
FB5000	Base Fabric: Egyptian Cotton Yarn Fabric Top Coat : NBR (Nitrile Butadiene Rubber)		
RS3000	Base Fabric: Egyptian Cotton Yarn Fabric + Aramid Fiber Top Coat : NBR (Nitrile Butadiene Rubber)	ROTOSET	For Rotary Screen Printing Machines
RS1000	Base Fabric: Egyptian Cotton Yarn Fabric Top Coat : NBR (Nitrile Butadiene Rubber)		
FR500	Base Fabric: Pre-Stretched Cotton Yarn Fabric Top Coat : NBR (Nitrile Butadiene Rubber)	PRINTSET	For Flat Screen Machines (Single Motor Driving System, Clamping and Vacuum System)

Product Advantage

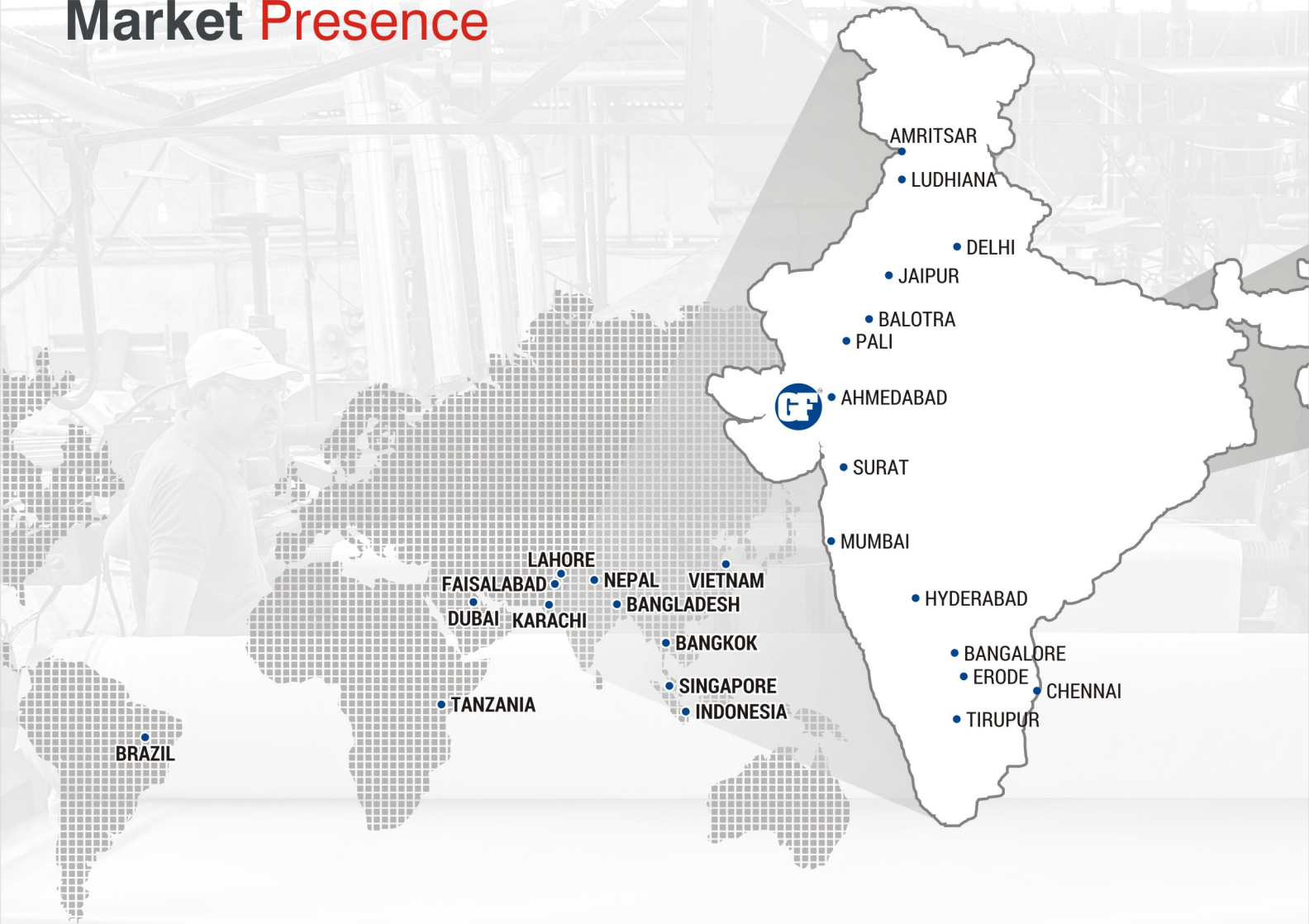
Gummi Fab Industries has been committed to produce the best quality screen printing rubber belts. We are relentless in our pursuit to meet and exceed the needs of those who counts on our proven screen printing rubber belt quality and our worldwide technical service. Image screen printing rubber belt features a extent of product advantages, such as...

- ◆ Minimum elongation (excellent elongation control over long periods of operation & high resistance to shocks and cuts).
- ◆ High dimensional stability.
- ◆ Excellent temperature resistance.
- ◆ Optimum flexibility & compressibility (thanks to our multi-layered structure of pre-stretched fabric, rubber and special chemical formulations), uniform calipered thickness (+/-0.08 mm), Smooth printing surface. These characteristics have been combined into our manufacturing process after years of real field observation.
- ◆ The uniform calipered thickness (+/-0.08 mm) of image screen printing rubber belts enables fine repeats, good colour absorption & uniformity, and continuous production.
- ◆ The smooth surface of image screen printing rubber belts offer best bond with adhesives (water-based, thermoplastic & permanent), high resistance to dyes, pigments & temperatures and high consistency of colour application & absorption.
- ◆ High resistance to solvents like toluene, acetone, acid and white spirit.

THE FOLLOWING ARE GENERAL COMPARISON BETWEEN IMAGE SCREEN PRINTING RUBBER BELT AND POLYURETHANE TPU/PU BELTS.

Screen Printing Rubber Belts	Polyurethane TPU/PU Belts
 <p>Robust Structure The multi-layered structure of image screen printing rubber belts, reinforced with Egyptian cotton pre-stretched fabric. Advantage-Natural compressibility. These belts retain in shape throughout their lifetimes, enabling great printing accuracy, colour absorption and perfect design repeats.</p>	<p>PU printing belts are made of comparatively rigid Polyurethane, and offer very low compressibility. This hold up printing accuracy and repeats.</p>
 <p>Loyal Surface The rubber surface of image belts are highly resistance to printing chemicals, and solvents (such as acetone, thinner and ethyl acetate).</p>	<p>The surface of PU belts offers very poor resistance to chemicals and solvents.</p>
 <p>Higher Resistance to Temperature Image belts offer resistance to temperatures upto 100 degree Celsius.</p>	<p>PU belts cannot effectively resist temperatures higher than 70 degree Celsius.</p>
 <p>Easy Repairs Image belts are much easier to repair in case of mechanical damages.</p>	<p>PU belts are harder to repair.</p>
 <p>Smooth & Strong Joints Image screen printing rubber belts are manufactured endless. Belts are joined smoothly on the top surface. We use unique ply built overlapped joint which is absolute smooth and strong.</p>	<p>PU belts are weaker in area of joints as it is not part of whole endless structure.</p>
 <p>Exclusively Made Screen printing rubber belts are designed and manufactured exclusively for the textile printing industry.</p>	<p>PU belts, fundamentally, are conveyor / transmission belts, modified to suit textile printing industry.</p>

Market Presence



“We deliver quality
Screen Printing Rubber Belts
to customer
around the world”





STANDOUT FROM OTHERS

Image screen printing rubber belts are manufactured using only the highest quality raw materials and ingredients which are often available only to a very high volume rubber product manufacturer.

The belts manufacturing method is unique to image. The time honored "PLY BUILT" method ensures absolute rubber belt surface uniformity, ideal rubber dynamics for maximum colour applications & absorption capacity throughout rubber belts useful life, and uniform performance throughout belts surface from beginning to end.



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