



# Spin Touch

LMW's Customer Connect



EDITION  
**04**  
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**Engineering Advantage -**  
All the latest updates from  
LMW & the world of Textile Machinery



## GREETINGS FROM THE LMW FAMILY!

Spin Touch over the past one year has remained as a source of knowledge for the entire textile fraternity. It amuses me, the kind of interest it has stirred among people. Standing by its name, Spin Touch, LMW's Customer Connect has truly served as a link between LMW and the Textile industry over the past 3 quarters.

The global economy and Indian textile and clothing industry are presently going through tough times and facing several issues. LMW's sustainable approach and R&D capabilities have helped the company to handle the situation well and stay abreast of the tides. As always, our approach is to deliver maximum value to the customers. This year's ITMA held at Barcelona, Spain, was a perfect platform for LMW to exhibit both its new products and R&D capabilities. In ITMA'19, LMW held the theme of "Automation, Digitization and Innovation". As the theme implies, they have been LMW's building blocks which form the basis for the entire machine being built.

In the Fourth Edition of Newsletter, we would focus on the South market, Non-Autoleveller Drawframe, which has gained popularity in recent times and the business relation which LMW shares with its Indian and Global customers. Hope this Newsletter imparts knowledge, both from LMW's and the industries' perspective. As always, we are excited to receive your feedback on the Spin Touch issues.

Wishes from the LMW team and Happy Reading...!!

With warm regards

**SANJAY JAYAVARTHANAVELU**

**CMD, Lakshmi Machine Works**





## ITMA'19 BARCELONA 2019

LMW has unveiled its 3 pronged approach of Automation, Digitization & Innovation for addressing the emerging challenges of the Spinning industry at ITMA 2019, Barcelona.

From day 1 of the event, the technology and the features of the products showcased in our stall were well appreciated and received by the customers. With an overall footfall of 1200 visitors, the response was overwhelming. Innovative products for different spinning systems viz. Ring spinning, Open End spinning and Air Jet spinning were displayed.

The technologies devised by LMW are committed to address the challenges faced by the spinning industry. LMW throughout its near to six decade journey has been working to solve the challenges of the textile industry by providing solutions and value added products.

### RAP (Ringframe Autopiecing system )

Presently, the biggest challenge faced by the spinning industry is shortage of skilled manpower. Especially in the area of Ring Spinning, the piecer needs to be trained and skilled to do the piecing in lesser time so that the machine efficiency is not disturbed, which is a major concern for the spinners. With increased spindlage of the Ringframes, the operators also get fatigue often. Now we have a solution from LMW.

Our RAP (Ringframe Auto Piecing), is revolutionary technology in this direction. Its unique underpiecing method is similar to the piecing done in mills by operators. These features were well appreciated by the visitors and they were convinced that this technology shall support them in scaling up to new heights. This automation from LMW will lead to major labour saving in the ring spinning industry.

### Lakshmi Jet Spinning - LJS 9

The fast growing demand for products made from MMF in today's scenario has pushed the industry to identify alternate new spinning systems such as Airjet Spinning. After continuous research and innovation, LMW has now made its mark in this domain with the latest launch of LJS 9, the Airjet Spinning machine. With a maximum

capacity of 200 spinning units, the machine is capable of running upto 550 mpm. The individual drive system for each spinning unit enables flexibility in operation. The dual side spinning facilitates better space utilization. LJS 9 comes with a fully automated setup in case of doffer, piecer and empty tube loader. The filter system on both sides are independent of each other. These highlights made LJS 9 a favorite among the visitors.

### Lakshmi Auto Winder - LAW 60

LAW 60 is a result of market study, analysis and rigorous research and development. With a maximum capacity upto 60 drums for link winders and delivery speed 2200 mpm, LAW 60 comes with Auto doffer, Adaptive Yarn Tensioning System, Dual preparation stations for coarser counts, Individual drives for all machine elements and Dynamic balloon controller. Radio Frequency Identification (RFID) technology in Ringframe pegs can be integrated which shall help in individual spindle monitoring.

### Card with Drafting System - CDS

Few customers opt for a shortened preparatory process for their Open End and Airjet spinning processes. To benefit them and to meet the demand, LMW has come out with a new technology in Carding - CDS, Card with Drafting System. Here a drawing operation is integrated with the Carding machine with a maximum delivery speed of upto 700 mpm. It has specific features such as pneumatic loading of top rollers, auto piecing of sliver, electronic sliver cutting mechanism & auto levelling.

### Fix Fil

LMW after thoroughly understanding the spinners' need for effective space utilization in their mills has worked out and unveiled its innovative can changing system, "Fix Fil". The new system works with minimal movement of can and the can change happens at the running speed itself. These features lead to efficiency improvement in Card and Drawframe. With maximum possible can dimensions of 1200mm X 1300 mm (diameter X height), there is a 56% increase in the can volume. This technology addresses the manpower shortage challenge.

# LMW - Vardhmān

## A PARTNERSHIP

### Nurtured with Trust



LMW & Vardhmān started their journey way back in the year 1962 and have developed a lasting relationship right from the inception. Vardhmān Spinning & General Mills Ltd. (VSGML) was set up at Ludhiana in the state of Punjab by Shri Vidya Sagar Oswal & Shri Ratan Chand Oswal. VSGML started commercial production of cotton yarn in the year 1965. The company commenced its journey with just 6000 spindles which has impressively grown over the years to over 1.1 million spindles today with a capacity to manufacture 2,40,000 metric tonnes of yarn annually. Vardhmān has 18 manufacturing units across 4 states.

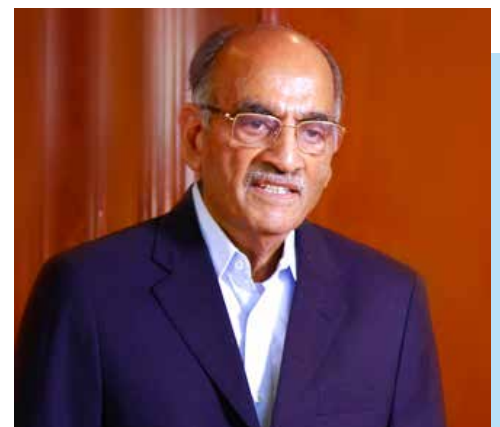
Vardhmān Group is one of the largest and most prominent, vertically integrated textile manufacturers of India. The Group constantly expands and adapts to the latest technology to boost its capacity, output and flexibility so as to meet the growing demand of the domestic and global markets. Powered by LMW machines, Vardhmān's yarn manufacturing process is extremely flexible, both in terms of composition as well as volumes. It is well equipped to develop and produce wide range of yarns and fabrics to cater to the requirements of the global market.

The state-of-the-art manufacturing units of Vardhmān are highly advanced and automated, ensuring consistency and quality products across multiple categories. LMW has been providing the desired technology and innovative products to Vardhmān contributing to their promise of quality. Vardhmān Group has evolved as a world-class

textile organisation producing a diverse range of products - from yarns to garments - for the global textile market.

Vardhmān has always focussed on customer's delight. It is a prime goal of the organization to lead the textile manufacturing industry through performance excellence. The group diversified into steel business in the year 1973. Today its steel arm, Vardhmān Special Steels Limited, is well equipped to produce high grade special and alloy steels for Automotive and Engineering applications matching the globally stringent quality parameters.

Vardhmān, as an organization, believes in meticulously crafting consistent growth and is consciously guided by a strong value system. The Group is committed to continuously invest in businesses with initiatives directed towards long-term sustainability. LMW has undertaken several projects with Vardhmān including setting up of Mahavir Spinning Mills at Hoshiarpur in Punjab in the year 1976. Subsequently, LMW was the first choice for setting up Arihant Spinning Mills at Malerkotla in Punjab in 1978. The partnership continued unabated with the setting up of Auro Spinning Mills at Baddi, Himachal Pradesh in the year 1989 and Anant Spinning Mills at Mandideep, Madhya Pradesh in 1991 followed by the establishment of Arisht Spinning Mills & VMT Spinning Company at Baddi in Himachal Pradesh, and later Vardhmān Yarns at Satlapur and Vardhmān Fabrics at Budhni located in the state of Madhya Pradesh.



#### Mr. S P Oswal

Chairman & Managing Director

Mr. Shri Paul Oswal is the Chairman and Managing Director of the Vardhmān Group. He is also the Chairman of Vardhmān Holdings Limited, Vardhmān Acrylics Limited and Vardhmān Yarns and Threads Limited. With over 48 years of experience in textiles industry while being associated with Vardhmān Group, he has led Vardhmān Textiles to achieve accelerated growth in yarn manufacturing capacity, fabric weaving plants and yarn & fabric processing facilities in the country.

He was the Founder President and Director of Ludhiana Stock Exchange for the period 1983-87 and President of Ludhiana Management Association for the period 1987-1991. He also acted as Chairman of Nimbua Greenfield Punjab Limited, a consortium of industries of Punjab for developing a common facility for storage, treatment and disposal of hazardous wastes generated by the industry with grant from Government of India. For his extensive contribution to the trade & industry, he was bestowed the Padma Bhushan Award by the Government of India in the year 2010.

LMW & Vardhmān Group share a greater bond than that of a customer and a supplier. This relationship has evolved over the generations. The enormous sense of trust fostered during all these years between the two Groups and the synergy is not only commendable but also has proved to be profitable at both the ends. During the last 50 years, LMW has worked extensively with Vardhmān Group to provide latest technologies in Spinning, both for installation of new plants as well as upgradation of the existing plants.

Recently, LMW has secured an order of 75 Ring Frames both for regular as well as smart Ring Frames from Vardhmān Group for revamping their units located in Punjab, Himachal Pradesh and Madhya Pradesh. The unique feature of LMW's Smart Ring frame is its flexibility and adaptability to produce both regular and fancy yarns in the same machine. This series of LMW Ring Frames are designed with innovative technology for versatility in the products. All parameters including draft can be adjusted with a touch of fingers on the machine's display. These superlative features of this series make it as a Gen-Next machine. The technology ensures high-quality spinning

and value-added yarns, for maximizing profitability. Our customers are our best teachers and central to all our operational processes. LMW & Vardhmān have been continuously working together for implementing Kaizens in LMW machines to improve performance.

LMW has fulfilled the dynamic Speed Frame modernization requirements of Vardhmān and their quality-stringent customers. LF 4280, the latest Speed Frame from LMW's stable has maximum spindle count of up to 280 and is available either with or without doffer. The machine enables spinning of both Cotton and Man-Made Fibres. This machine can be easily integrated with Roving Transportation System by installing bobbin converters at either side of the machine. The automatic Tension Control System ensures uniform and consistent tension of the roving and thus delivers perfect roving packages with supreme quality. These superior features make LF 4280, a preferred choice for high-quality spinners such as Vardhmān.

With constant innovations and proven excellence in R&D of LMW, we are sure that this partnership will continue for the ages to come.



### Mr. SACHIT JAIN

Vice Chairman & Managing Director  
(Vardhmān Special Steels Limited)

Mr. Sachit Jain joined of the Vardhmān Group as a Director of the Company in the year 1990 and thereafter was appointed as Executive Director of the Company in March, 2005. Currently, he is also the Managing Director of Vardhmān Special Steels Limited, a group Company. He is also a member of the Stakeholder Relationship Committee, CSR Committee, Risk Management Committee and Committee of Directors (Legal, Banking & Finance) of the Company. He has a rich experience of more than 25 years in textiles industry.



### Mrs. SUCHITA JAIN

Vice Chairman & Joint Managing Director

Mrs. Suchita Jain is Vice Chairman & Joint Managing Director of the Company. She has an experience of more than 20 years in the textiles industry. After joining the Vardhmān Group, she gradually worked her way through various departments in the Group. She was instrumental in setting up the Fabric business in 1991, whose first plant was established in Himachal Pradesh. Initially starting from greige fabric she led the Group to set up a state-of-the-art fabric processing factory.



### Mr. NEERAJ JAIN

Joint Managing Director & Head (Yarn Business)

Mr. Neeraj Jain is the Joint Managing Director and was appointed to the Company Board as an Executive Director in April, 2010. He holds a Bachelors Degree in Commerce and is a Chartered Accountant. He is also a member of the CSR Committee of the Company. He has more than 22 years of experience in the textiles industry.

With a laser-sharp focus on excellence, continuous customer-driven innovation, original strategies and a series of technology collaborations, Vardhmān has established itself as the prime producer of premium quality yarns globally and Lakshmi Machine works is proud to be their partner in this endeavour .

### From the Desk of Vardhmān Management

“Vardhmān and LMW share a close bond with each other since their inception. The engagement has grown to a great extent & the relationship has proven fruitful at both the ends. LMW has aligned with us in each and every aspect and imparted enormous value via their technologically-superior spinning solutions. We look forward to a successful and everlasting engagement with LMW.”



## NON- AUTOLEVELLER DRAWFRAME LDB 3

### Highest Efficiency with individual drive systems

LMW has been making Non-Autoleveller drawframes since 1976. First machine in this series was model LDO/2S. Over the period of four decades, through our commitment to the spinning industry and with the continual improvement, we rolled out successive models such as LDO/6 and LD2. As on date we have sold more than 12500 Drawframe

machines to our customers in India and overseas. Our latest innovation LDB 3 redefines the way Non-Auto leveller drawframes perform in spinning preparatory. With unique feature of in-built closed loop digital sliver control system, LDB 3 (electronic variant) ensures consistency in linear density of delivered sliver.

## Specific Features

### Efficient

- State of the art drive system with independent drives
- Programmable oscillating stripper for cleaning top rollers
- Auto cleaned filter screen
- Automatic can changer

### Enhanced Productivity & Economical

- Maximum possible delivery speed of 1100 mpm
- Top roller end bushes with lifetime lubricant
- Servo drive for draft adjustment (Variant)- Gears eliminated

### Ease of Operation

- Automatic sliver cutting
- Use of touchscreen for delivery speed change
- Unique condenser ensures higher running speeds
- Accurate controls and stop motions

### Top Notch Quality

- Shorter travelling of sliver material from drafting to calendering
- Delivery independency leads to quality consistency

# LDB 3



## LDB 3 – Available variants

Simple construction & stable design

LDB 3 variants offered

### Electronic Drafting Machine

### Mechanical Drafting Machine

Electronic drafting machine is smarter with following unique features like:

#### S Draft

The efficient servo motor drive deployed in this variant makes the operation simpler & user friendly.

The machine does not require change gears for changing the total draft. User can change the draft by simply keying-in the required value in the display. This eliminates the machine downtime associated with such changeovers. Overall utilization of the machine improves significantly.

#### Closed loop digital control system on delivery sliver (Hank Levelling)

The electronic drafting machine is incorporated with levelling system, which results in consistent sliver quality and premium yarn. This also acts as an additional control point for quality management.

#### Quality Monitoring System

The linear density of the delivered sliver will be monitored continuously. This eventually stops the machine when the linear density deviates beyond a pre-set target range enabling the user to take appropriate corrective action.

QMS monitored parameters include:

- Monitoring of thick place
- Spectrogram analysis

#### e -Sliver Cutting

The servo drive changes the draft to an extent that the cutting of sliver happens smoothly during can changeover.

**Highest delivery speed of 1100 mpm (mechanical) possible in LDB 3. 38% increase in productivity over earlier version of Non - Auto Leveller Drawframe.**

The LDB 3 with above mentioned features will definitely revolutionize the spinning preparatory. Mills having previous generation drawframes will find the LDB 3 to add value to their spinning through all these outstanding features. Investing in the current model will benefit the spinner in multiple dimensions such as Highest efficiency, Top notch quality, Increased

productivity, Ease of access & Efficient manpower utilization. It will be the most sought after machine in upcoming days. We urge the spinners to keep this unique drawframe machine in their modernization plan so that they do not miss out the best in class.

# RIVATEX

Turnkey Project



LMW a proud partner of various textile mills across the globe executed a turnkey project of composite textile mill, Rivatex East Africa Limited, Kenya.

The Project consists of setting up of a spinning mill of 12 tons per day capacity, weaving mill of 35,000 metres per day, 15 tons per day process house, electrical networking for 6.5 MW, piping networks for 12 tons steam, 1500 CFM compressed air, 15,00,000 Kcal thermic fluid lines, 10,50,000 CMH humidification plant.

### LMW's scope includes,

- Detailed Project Report preparation
- Civil construction design
- Finalizing the project layout
- Finalizing the technical specifications
- Supply of spinning, weaving, processing machinery, laboratory equipment & utility items
- Installation of machinery
- Training of technicians
- Skill development of operators
- Benchmarking

This project was completed by LMW in a record time of 24 months and the project was inaugurated by Mr. Uhuru Kenyatta, the President of Kenya on the 21st of June'19. This project created employment for 2,000 people directly and another 20,000 people indirectly in the Farm to Fashion Value Chain. 41 senior technicians of Rivatex were trained on-site by LMW in India, 90 technicians were trained locally and currently about 270 operators are undergoing LMW's Skill Development Training Program.

This far-sighted project is worthy of emulation across the developing world, as the growth of the domestic Textile Industry incidentally has always been integral to the growth story of many economies, across the world. It is worth to note that the base of the Global Textile Industry which started in Europe has over the years moved to Japan to South Asian countries to Central Asian countries and now is finding its way into Africa.

LMW, sincerely thanks our Prime Minister Shri. Narendra Modi, President of Kenya H.E Uhuru Kenyatta, The High





Commission of India to Kenya, EXIM bank of India, Ministry of Industry of Kenya, National Treasury of Kenya and Rivatex for having given us this wonderful opportunity to be a part of this path-breaking project. LMW would like to place on record our sincere appreciation for the efforts of the Rivatex team, our vendors, project implementation team and other stake holders who have worked on a 24x7 basis and have enabled us to complete this project within the record time of 24 months.



# REPLACEMENT OF PARTS AND WHY OEM MATTERS



## LMW Parts and Components

The replacement parts you change and from whom you purchase them, can often make the big difference between experiencing long, extended periods of downtime and a quicker delivery in just a day or two to avoid the downtime of machines.

### Advantages of purchasing parts and components from OEM

- Proper inventory is maintained to quickly despatch the required parts by avoiding more lead time. 20000+ parts in stock inventory
- More reliable, as they are machined with high end machines, thoroughly inspected for quality
- The material, finish, tolerance, size and other specifications are identical to the parts being replaced, as they are being manufactured with our own OEM specifications
- We offer field service, process expert, technical support as well
- Troubleshooting for unexpected maintenance, unnecessary down time & repairs
- Customers can save time, by keeping our parts kit handy. Our technical sales team provides the required resources which helps customers to save time.

## After market support and service

Our extensive network provides the necessary support, including parts, service, retrofits, training and more.

With OEM parts, we assure you the guarantee for quality, fit and function

With OEM parts, one is investing in a quality part that has the potential to last a very long time

Longevity is not just for the part itself but the machine as well

The efficiency of maintenance / service team is improved as their strain in fitting the parts is completely avoided

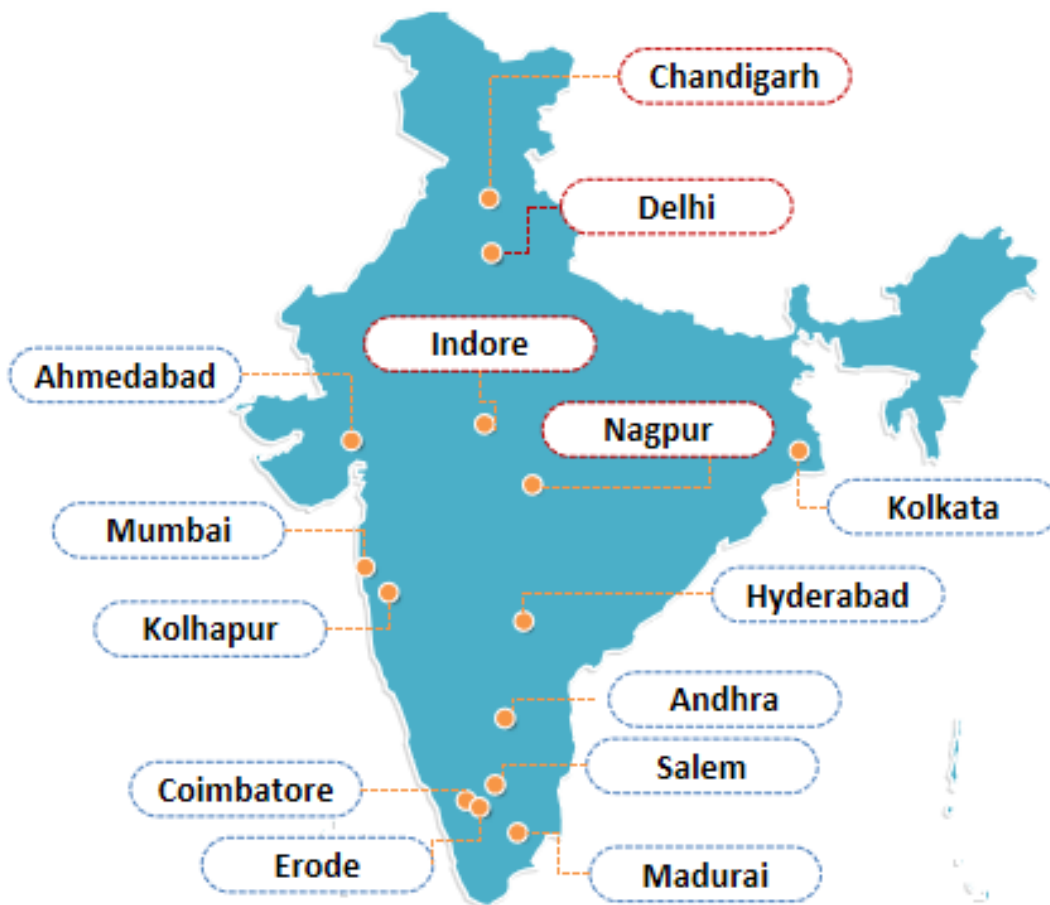
## Our network is wider. We have 14 service networks across India.

### LMW eSpares

To facilitate easy spare part management of a spinning mill, LMW eSpares with innovative features offers more benefits to customers.

Customers can log-in round-the-clock in the portal, ensuring immediate booking and quicker despatch.





### eSpares has the following deliverables

#### Responsive website

- Fast track ordering - Payment and order integration for immediate order booking
- Order tracking from quote to physical delivery at customer end
- Transaction details - Invoice, Payment & Pending order
- Recommended stores portfolio - Quick ordering
- 24 X 7 Online ordering facilities
- Upload facilities through excel for proforma generation
- Ordering possible through Tab
- Order booking and dispatch - Alert message through email
- Product news flashes - Recently launched upgrades and kit
- e-Bulletin contains performance data of profitable kit
- Ordering dynamic data indicating all updates on drawing numbers

### Visual image - Ordering at ease

LMW components, Parts and Performance Enhancement Kit (PEK) are manufactured with advanced technology to provide customers with consistent performance to enhance the quality of the product and also to increase the health and longevity of the machines.

Technological parts, Rings, Spindles, Cots & Aprons, Top rollers, Gears etc., which are manufactured provide excellent value proportion to the customers.

In addition many performance enhancement kit are also in our scope of supply.

In order to ensure optimum performance and efficiency from your spinning machines, its always better to use parts supplied by LMW.

### Electrical / Mechanical Repair and Service @ LMW

Customers can avail our repair service to all machine parts of their ring spinning line. Key mechanical parts that are serviced include Gear box/ Beaters/ Nippers. Key electrical items that are serviced include Inverters, Displays, Servo drives and Motors.

OEM servicing of parts will help in better enhancement of the life and performance of the machines & processes. The servicing is handled by experts ensuring the reliability and consistent quality.

### Fast Track Support - FTS

LMW offers Fast Track Support to customers for servicing of machine parts. FTS customers enjoy following salient benefits:

10% benefit on service value

Shortened lead time (around 40%)



▶ **VOICE OF  
THE CUSTOMER**



▶ **Mr. Suresh**

Managing Director, Dhanalakshmi Synthetics

“We Dhanalakshmi Synthetics, are based at Erode and are processing 100% Viscose and Modal fibres. We are into Ring Spinning, Airjet Spinning and also Weaving. We have purchased LC 361 Cards, Drawframes - LDB 3 and LDF 3 for our Airjet spinning project from LMW in 2019. The performance of Cards and Drawframes is very good in terms of productivity and quality. The support extended by the LMW team was excellent. They understood our requirements and accordingly provided the required solutions enabling us to achieve best process conditions & subsequently best quality product from our Airjet spinning process. We are happy with the Cards & Drawframes from LMW and we congratulate LMW team for their success.”



▶ **Mr. Sudhakar Chowdary**

Managing Director, Mohan Spintex

“Our recent engagement with LMW has proven very much beneficial to us and the project has turned out to be a highly successful one. Starting from the planning stage, LMW team has guided us with the best parameters in alignment with the global standards. This has motivated us to go ahead with longer Ringframes from LMW with 1632 spindles and 1824 spindles”



## ▶ Mr. P. Senthilkumar

Director, Avaneetha Textiles

“We run 24,000 spindles with LMW’s latest Ringframe LR9/AX (20 X1200 spindles) for the last 1.5 years, the average count being Ne 25s. The advanced doffing system in these products enable us to achieve the doffing time of around 110 seconds, which helps to increase the machine efficiency significantly. Our technical team is highly satisfied and LMW’s products create new benchmarks in our operational performance. The service support provided by the LMW team before and after the sales is outstanding, which actually increased our confidence level to rely on LMW’s products in future.”

▶ 13

## ▶ Mr. Rohit Rajendran

Executive Director, Prima Products Pvt. Ltd

“In our modernization drive, considering the reliability and versatility, we opted for latest LMW Carding machines. We have replaced our existing Cards 16 nos of C 1/3 and LC 300 with 6 nos of LC 363 Cards from LMW and we were able to witness huge power saving from the previous 11% to just 5% in the overall consumption. End breaks in our Open End machines have dropped by 25% with the improved sliver material from carding stage which in turn improved the overall efficiency of the plant.”



## ▶ Mr. P. Ashok Kumar

Managing Director, Saranya Spinning Mills Pvt. Ltd.

“LMW has fulfilled our modernization plans effectively. In recent times, with the breakthrough ideas given by LMW team, we were able to complete modernization of Ringframe, Speedframe and Bobbin Transportation System (BTS) with the given budget. We process cotton, viscose, tencel and their blends. With LMW machines we are able to achieve increased productivity and improved yarn quality.”



▶ **Mr. N. Krishnakumar**  
Managing Director, Hindustan Textiles

“Our plant runs predominantly with LMW machines. We spin medium and coarse counts catering to the hosiery segment. The Drawframe LDF 3, Speedframe LF 4280A and Ringframe LR 9AX from LMW add high value to the yarn that we spin. With Spinpact, the latest suction compact system from LMW, we could see significant increase in productivity in our count range: Ne 30/1 to Ne 40/1. The consistent performance from LMW machines helps in achieving finest fabric quality, which is being witnessed by our end users. The yarn performs best-in-class in downstream processes resulting in highest productivity and maximum efficiency.”



▶ **Mr. M. Jayabal**  
President, OSMA

“LMW Preparatory machines - Blowroom, Card LC 361/LC 363, Drawframe LDF 3 are ideally suitable for Open End applications which will add significant value to our products by means of better productivity, consistent quality and optimum waste. LMW machines are running in the OSMA training centre for the last 5 months and the performance of the machines is excellent. Most of the OSMA member mills witnessed the performance of LMW’s preparatory machines in OE applications for better value addition and profitability. Our member mills are really impressed with the way LMW machines LC 361 and LDF 3 are performing in the Open end manufacturing line.”





**LMW**®

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