

4S SMART SOLUTIONS FOR SPINNING SUCCESS

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Smart Spinning Solutions

Digitization | Automation | Sustainability

Card Sliver System | Combing System
Ring Spinning System | Mill Monitoring System

LMW offers a complete range of state-of-the-art **Spinning solutions**



■ Card Sliver System

- > Gentle Blowroom Line
 - Bale Plucker Line
 - Swift Floc Line
 - MBO Line
- > Card LC363 / 361 S
- > Card LC636 S
- > Card with Drafting System (CDS)

■ Combing System

- > Non Auto leveller Draw frame LDB3
- > Auto Leveller Draw frame LDF3 S
- > Lap Former LH20 S
- > Comber LK69 Series
- > Lap Transportation System (LTS)

■ Ring Spinning System

- > Speed frame LF4280 Series
- > Smart Ring frame LR9 / SX / SXL
- > Smart Compact Ring frame LRJ9 / SX / SXL
- > Spinpact – LMW Suction Compact System
- > Roving Transportation System (RTS)

■ Mill Monitoring System

- > Spin Connect



LMW

Founded in 1962, Lakshmi Machine Works Limited (LMW) is one of the largest manufacturers of textile machinery in the world offering the complete range of spinning solutions from Blow room to Winding. With customer centricity at its core, a portfolio of machines that harness latest technology and an extensive sales and service network, LMW has emerged as the preferred partner for customers who are gearing up to meet dynamic needs of an evolving industry.

LMW works constantly to reduce dependence on skilled manpower by introducing innovative solutions with the right balance of automation and ergonomics. The in-house Research and Development team, staffed with accomplished specialists drive the culture of Innovation & Automation and deliver machines and solutions that consistently meet and exceed customer expectations.

With a strong presence in markets across the globe, LMW ensures that the demands of the local markets are met without compromising global standards. With over 50 million Spindles in operation worldwide, LMW is the preferred global partner for end-to-end spinning solutions in today's global textile market. With an exhaustive range of offerings, the ability to scale and a culture of innovation, LMW is committed to offering superior value today and in future.

CARD SLIVER SYSTEM



GENTLE BLOWROOM LINE

Bale Plucker LA23 / S

Swift Floc LA21

Mixing Bale Opener (MBO) LB3 / 2 & LB3 / 6

Mixing Opener (MO) LB3 / 5 & LB3 / 7

Varioclean LB9 / 2

Unimix LB7 / 6

Unimix LB7 / 4

Flexiclean LB5 / 6

Supremoclean LB10 / 2

Blending Solution

Auto Blend LA10

The Blowroom line is configured to meet the requirements of

Higher productivity

Consistent quality

Homogeneous blending

The Blowroom line ensures

Gentle cleaning

Gentle opening

Effective microdust extraction



CARD LC363 / 361 S

SALIENT FEATURES

- Higher production up to 130 kg/hr
- Triple / Single Licker-in arrangement with arcual combing segment
- Direct feed to card with pressure regulated chute
- Feed weight control system
- Inverter drive for cylinder
- Aluminium alloy flats with increased number of revolving flats (36 nos.)
- Highest Active Flat Index (AFI)
- Replaceable end connector for flats
- Automatic piecing aid
- Linear 40" x 48" coiler with high speed can changer
- Optimum waste extraction at right place
- Metal detector and earthing stop motion
- Online quality monitoring system

OPTION

- Fix Fil Can Changer for bigger can
- Card with Drafting System (CDS)



CARD LC636 S

SALIENT FEATURES

- Higher production up to 250 kg/hr
- Working width of 1500 mm
- Direct feeding to card with pressure regulated chute
- Feed weight control system
- Multiple feed plate arrangement for highest degree of levelling
- Single Licker-in arrangement with pair of arcual combing segment
- Inverter drive for Licker-in and cylinder
- External knife adjustment for waste extraction setting in Licker-in zone
- Highest active carding area of 1.95 m² and cylinder area of 3.95 m²
- Aluminium alloy flats, 101 nos. with increased number of revolving flats (36 nos.)
- Replaceable end connector for flats
- Optimum cylinder diameter of 1017 mm leading to lower thermal expansion and higher centrifugal force
- Automatic piecing aid
- Linear 40" x 48" coiler with high speed can changer
- Optimum waste extraction at right place
- Metal detector and earthing stop motion
- Online quality monitoring system

OPTION

- Fix Fil Can Changer for bigger can
- Card with Drafting System (CDS)

COMBING SYSTEM



DRAW FRAME LDB3 SERIES

VARIANT

LDB3 S Electronic Drafting Machine

LDB3 Mechanical Drafting Machine

SALIENT FEATURES

- Delivery speed of up to 1,100 mpm (mechanical)
- Delivery speed can be changed using touch screen
- Two materials can be processed simultaneously at different speeds
- Automatic sliver cutting and Auto can changer
- Top roller end bush with lifetime lubricant – Top roller buffing without removing end bush
- Programmable oscillating stripper for top rollers
- Drafting drive through timing belts
- Separate drive for coiler and can

LDB3 S FEATURES

- Closed loop digital sliver control system
- Servo drive for drafting
- e-sliver cutting
- Auto piecing arrangement
- Quality monitoring system

OPTION

- Inverter driven fan motor



DRAW FRAME LDF3 S

SALIENT FEATURES

- Delivery speed of up to 1,100 mpm (mechanical)
- Duo-digital auto levelling system
- Servo drive for drafting
- 4 Over 3 drafting arrangement with pressure bar
- Automatic suggestion for best Levelling Action Point (LAP)
- Self cleaning top rollers through programmable oscillating strippers
- Pneumatically aided auto piecing
- Separate motor for coiler and can
- Inverter controlled main drive
- Spectrogram for self identification of mechanical faults
- Power saving and kinetic backup technology
- Delivery can dia. 12" to 24" / Delivery can ht. 36", 42", 45" and 48"



LAP FORMER LH20 S

SALIENT FEATURES

Production up to 680 kg/hr

Average delivery speed up to 200 m/min
(depending on raw material)

Minimum doffing time ensures higher efficiency
and productivity

PRO-IN control system for better lap preparation

Unique single head drafting system with servo
drive

Full lap weight monitoring

Lap weight levelling – Lap 1 mtr CV less than 0.5%

Compact and uniform lap sheet across the width

Ergonomically designed static creel for sliver feed



COMBER LK69 Series

VARIANT

LK69 S Electronic Drafting Machine

LK69 M Mechanical Drafting Machine

SALIENT FEATURES

Production up to 2.1 tons / day

Speed upto 600 npm

PACT for versatile operation

3/3 pneumatically loaded inclined drafting system
placed over the coiler for direct entry of silver to
coiler calender roller

Can changer – Minimum space requirements

24" x 48" with two reserve cans

Modular construction – with 2 modules

LK69 S FEATURES

Change gearless drafting drive through Servo motor

Hank monitoring system to verify consistent delivery

Machine speeds can be changed through display

OPTION

40" x 48" with one reserve can

RING SPINNING SYSTEM



SPEED FRAME LF4280 SERIES

VARIANT

LF4280/A Non-doffer Machine

LF4280/SX Auto-doffer Machine

SALIENT FEATURES

Spindleage up to 280

Spindle speed up to 1500 rpm (mechanical)

Auto doffer with provision for roving transport system

Doffing time less than 2.5 minutes

Automatic roving tension controller for minimal and uniform roving stretch

4 segment drive - Drafting, Bobbin, Flyer & Trough

Dual drive arrangement for drafting

4 over 4 or 3 over 3 spring loaded drafting system

Effective suction arrangement with CQ duct

Main draft & twist per inch can be changed in display

In-built safety system during running & doffing

Monitoring of drives / motor parameters from display



SMART RING FRAME LR9 / SX / SXL

SALIENT FEATURES

Change gear less Ring frame – Swift changeover of draft & twist through display

Provision to produce fancy yarns such as siro, slub, injection slub, multicount, multitwist and multieffect yarn

Inbuilt HPM Module for unmatched performance
MRFL – Best choice for multiple Ring frames with single link coner

Autodoffer with basket type tube loader and provision to link with winders

Maximum Spindles up to 1824

Maximum Spindle speed up to 25,000 rpm (mechanical)

Total draft up to 100

Dual side suction for broken end with inverter drive for fan motor

Servo drive for ring rail

HLLD low decibel Spindles to reduce the noise generation



SMART COMPACT RING FRAME LRJ9 / SX / SXL

SALIENT FEATURES

Hi-tech, unique suction compact system with ease of handling

Maximum number of Spindles up to 1824

Easy drive system for compact roller

Uni-compact nozzle made from special Aluminium alloy for eight Spindles

Unique top suction arrangement

Special spinning angle for enhanced performance

Consistent quality through Direct Loading System (DLS)

4Q-2M/2Q-1M drive for drafting with T-flex drive

AC Servo drive for ring rail movement

TPI change from display

Inbuilt HPM Module for unmatched performance

Auto doffer and provision to link with winder

Energy module with higher efficient main motor

Auto doffer with basket type tube loader



SPINPACK

SALIENT FEATURES

Suction nozzle with unique cross section made with special Aluminium alloy

Eight Spindle drive for enhanced suction management and easy maintenance

Inverter controlled compact suction motor to adjust & fine-tune the required compact suction pressure

Special geometry for prolonged compacting and hence matchless lower hairiness and better strength of yarn

Top suction system for user friendliness

Can be retrofitted in all Ring frame models

Ready to make Single and SIRO compact



CARD WITH DRAFTING SYSTEM (CDS)

FIX FIL CAN CHANGER

CARD WITH DRAFTING SYSTEM (CDS)

SALIENT FEATURES

- Maximum speed up to 700 m/min
- 2/2 drafting system with Servo control
- Pneumatic loading of Top Rollers – Easy adjustment
- Auto levelling of sliver through Servo drive control
- Auto piecing of sliver
- Simplified yarn preparation process for Airjet and Open-end spinning

FIX FIL CAN CHANGER

SALIENT FEATURES

- Can changer mechanism with minimal movement of can (Inside the machine)
- Improved efficiency - No reduction in running speed during can changing
- Dual can plate with individual drive arrangement - Less mechanical & no pneumatic components
- In built can pusher arrangement - Operator friendly
- Doffed can monitoring sensor - Safety and intelligence in-built
- Can dia up to 1200mm with height of 1200mm - Increase in can content up to 50%
- Improved Card and Draw frame efficiency due to minimal can movement, reduced number of doff and reduction of piecing in Draw frame creel



LAP TRANSPORTATION SYSTEM (LTS)

SALIENT FEATURES

- Fully automated Lap Transportation System ensures automatic transportation of laps & spools between Lap former & Comber
- Accurate positioning of laps
- Gentle and reliable handling of laps, ensures consistent combing quality
- Increases the Comber machine efficiency
- User friendly HMI display system for easy operation
- Lap Turntable option provides layout flexibility
- Elimination of manual error
- Reduces operator fatigue
- Manpower reduction / savings
- One system can supply 3 Lap Former & 18 Combers connected in a straight line with maximum travelling length of 90 mtr



ROVING TRANSPORTATION SYSTEM (RTS)

SALIENT FEATURES

Highly reliable, specially designed track made of extruded Aluminium and Anodized rail for smooth transportation

Motorized drive for train movement

Track motor with brake for bobbin transfer and for positioning of bobbins in Bobbin Stripper / Exchanger

Execution with Bobbin Holder (Four Leg)

Train speed can be varied through Inverter drive

Separate storage area for full bobbin & empty bobbin

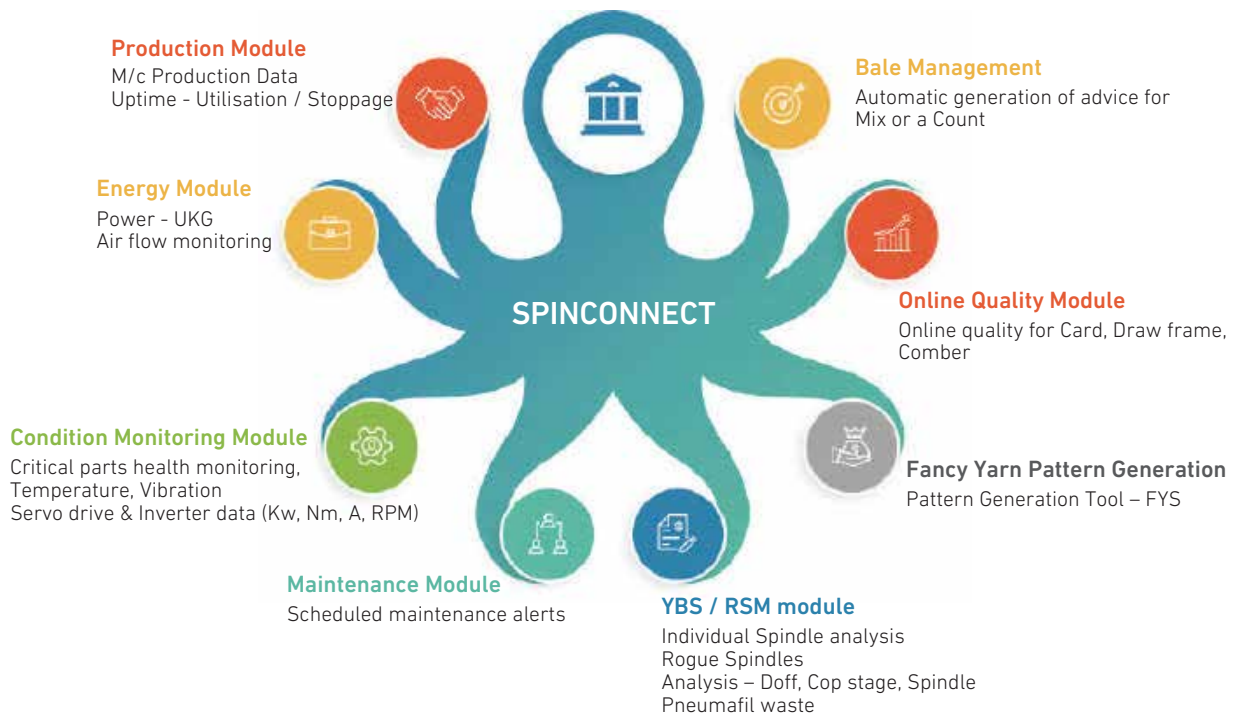
Automatic Roller Clearer Arrangement

Automatic cleaning of empty bobbins by Stripper Arrangement

Exchanger available for Automatic & Fully Automatic RTS

Can be installed in existing layout / machines with flexible design

MILL MONITORING SYSTEM



Mobile App

Real time update and quick access of mill performance from anywhere any time



E-Alert

SMS & Mail alert system for deviations & abnormalities in the process, along with a service call & escalation matrix



Reports & Charts

User defined performance report & charts to fix & attain targets



Read Write

Don't just view, have the power of controlling the process parameters



Web Based

Anything, anywhere - Access on the go through browser



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