

4S SUSTAINABLE
SMART SOLUTIONS FOR
SPINNING
SUCCESS



Preparatory Machines for OE PROCESS

About LMW

Founded in 1962, LMW Limited (LMW) is one of the largest manufacturers of Textile machinery in the world offering the complete range of spinning solutions from Blowroom 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 regional spinners are met without compromising global standards. With over 52 million Spindles in operation worldwide, LMW is the preferred global partner for end-to-end spinning solutions. With a complete range of smart offerings, the ability to scale and a culture of innovation, LMW is committed in offering superior value today and in future.

Backed by a strong after-sales service and an ongoing training Programme, LMW provides solutions and today is the benchmark for quality, service, training and total customer satisfaction.

- Market & Technology Leader in Spinning
- Supplied Over 52Mn. Spindles Worldwide
- Exporting to 15 Countries and Products are well accepted by top class spinners globally
- Having Three Manufacturing locations (India, UAE & China)
- Country-Wide Service Support

LMW machines have versatility to process different fibres with Cost effective Spinning Solutions and adapted latest Technology to achieve highest production with lesser power consumption with Automation solutions.

“LMW offers a complete range of state-of-the-art Smart Spinning Solutions”

REGENERATED OE PROCESS

LMW offers the following products in Card Sliver System & Combing System for Open End Process

Gentle Blowroom Line

The Blowroom line is configured to meet the requirements of all segments of Process which ensures the following:

- Gentle Opening
- Gentle Cleaning
- Effective Microdust Extraction
- Optimal Blending of Fibres
- Continuous Feeding System to Card

Card LC363/OE

The Card LC363/OE is designed to suit the requirements of the open-end process and delivers, high productivity and consistent quality with maximum efficiency.

- Higher Production
- Uniform Feed to Card with Lesser Lint Loss
- Lower Power Consumption

Autoleveller Draw Frame LDF3 E

Precise Autolevelling and high production are always the core functions of Autoleveller Draw frame LDF3 E.

- Higher Production with Consistent Quality
- Change Gearless Drive System
- Auto Piecing

FOR PRODUCTION
UPTO 600 kg/hr



MBO with Beater



UNIMIX with Beater



FLEXI CLEAN
with Beater



CARD LC363/OE



LDF3 E

FOR PRODUCTION
UPTO 800 kg/hr



MBO with Beater



UNIMIX with Beater



SUPREMO CLEAN
with Beater



CARD LC363/OE



LDF3 E

COTTON WASTE OE PROCESS

FOR PRODUCTION
UPTO 2000 kg/hr



BALE PLUCKER

FOR PRODUCTION
UPTO 600 kg/hr



SWIFT FLOC

FOR PRODUCTION
UPTO 600 kg/hr



MBO with Beater



UNIMIX with Beater



UNIMIX with Beater



UNIMIX with Beater



SUPREMO CLEAN
with Beater



FLEXI CLEAN
with Beater



FLEXI CLEAN
with Beater



CARD LC363/OE



CARD LC363/OE



CARD LC363/OE



LDF3 E



LDF3 E



LDF3 E

VIRGIN COTTON + WASTE COTTON OE PROCESS

FOR PRODUCTION
UPTO 2000 kg/hr



FOR PRODUCTION
UPTO 600 kg/hr



FOR PRODUCTION
UPTO 600 kg/hr





GENTLE BLOWROOM

BALE PLUCKER LA23/S LINE

- BALE PLUCKER LA23/S
- VARIOCLEAN LB9/2
- UNIMIX LB7/6
- SUPREMOCLEAN LB10/2
- DEDUSTER LA2/3

BALE PLUCKER LA23/S

- Higher production up to 2,000 kg/hr
- Machine with Auto Scanning Arrangement
- Automatic Turning of head at any point of the track
- Inverter and PLC controlled movement of Trolley, Plucking head and Tower
- Twin plucking and Contact roller
- Deeper suction channel with roll up covering belt
- Turning mechanism by simple drive using timing belt
- Easily replaceable plucking strip
- Inbuilt seed trap arrangement

VARIOCLEAN LB9/2

- Higher production up to 1,600 kg/hr
- Integrated opening, cleaning and dedusting
- Programmable grid adjustment and beater speed
- Dynamic setting changes for different assortments

UNIMIX LB7/6

- High output of up to 1,000 kg/hr
- Enhance the value of mixing through,
- Homogeneous blending
- Efficient opening and Cleaning
- Flexible grid bar setting

SUPREMOCLEAN LB10/2

- Higher production up to 1,000 kg/hr
- Increased working width of 1,600 mm
- Trio feed roller for better compacting
- Automatic grid bar to beater setting
- Continuous Feeding System to Card

DEDUSTER LA2/3

- Machine with a production capacity of 1000 kg/hr
- Effective removal of Microdust
- Dedicated drives for Fan & Rollers.
- 8 bladed counter direction stripper rollers for effective stripping.
- Straight vane fan with Inverter Control for speed adjustment through display
- Higher stripping ratio



GENTLE BLOWROOM

SWIFT FLOC LA21 LINE

- SWIFT FLOC LA21
- MONOCYLINDER LB4/2
- UNIMIX LB7/4
- FLEXICLEAN LB5/6
- DEDUSTER LA2/1

SWIFT FLOC LA21

- Machine with production capacity up to 600 kg/hr
- Dual assortments
- Guide angles for trolley movement
- Inverter driven plucking roller, which rotates in dual direction
- Single traversing geared motor
- Inverter for Lifting and Linear movement
- Fixed cover belt on suction canal for material transportation
- Trolley Movement with automotive tyre

MONOCYLINDER LB4/2

- Production upto 600 kg/hr
- Higher cleaning efficiency with gentle treatment of the fibre by controlled material throughput
- Beater with pins arranged in staggered manner
- Two separate grids section which are individually adjustable with respect to working angle and distance between the grid bars

UNIMIX LB7/4

- High output of up to 800 kg/hr
- Enhance the value of mixing through,
- Homogeneous blending
- Efficient opening and Cleaning
- Flexible grid bar setting

FLEXICLEAN LB5/6

- High throughput up to 600 kg/hr
- Variable production achieved by inverter drive
- Controlled fibre feed for optimum opening and maximum cleaning efficiency
- Continuous Feeding System to Card

DEDUSTER LA2/1

- Machine with a production capacity of 600 kg/hr
- Effective removal of Microdust through perforated drum
- Fan with capacity of 1.6 m/sec
- Button type stripper roller for effective stripping.
- Inbuilt safety sensor arrangement to avoid drum chocking



GENTLE BLOWROOM MIXING BALE OPENER (MBO) LINE

SALIENT FEATURES

- Suitable to process OE & Regenerated Mixing, Cotton, Man-made Fibers and Blends
- Feed apron with conveyor type for uniform material feed
- Large mixing chamber for uniform homogeneous mixing
- Upright lattice with staggered steel spikes
- Pair of feed roller with Inverter drive
- Options of Saw Tooth, Disc & Pin type Opening rollers for processing different materials
- Adjustable Grid setting for optimal waste extraction
- Provision of Automatic waste collection system
- Continuous Feeding System to Card

TECHNICAL DATA

Model	: LB3/2	LB3/6
Working Width	: 1000mm	1600mm
Production	: 400 kg/hr (Without Beater) 250 kg/hr (With Beater)	800 kg/hr (Without Beater) 600 kg/hr (With Beater)
Transport Apron	: 3 & 4.5 Mtrs	4.5 & 6 Mtrs
Beater Type	: Disc (18/21T) Pinned Type Saw Tooth (R10/0, R20/0, R10/10, R20/10)	
Feed Roller	: With Inverter	
Installed power	: 1.67 kW (Without Beater) 5.04 kW (Without Beater)	4.1 kW (With Beater) 10.35 kW (With Beater)



CARD LC363/OE

SALIENT FEATURES

- Higher production up to 150 kg/hr
- Highest Active Carding Area
- Pressure regulated chute for uniform feeding
- Unidirectional feeding arrangement
- Triple Licker-in arrangement
- Special profiled arcual combing segment
- Aluminium alloy flats with highest no. of working flats (36 nos.)
- Optimal air extraction arrangement in Pre& Post carding area with modular construction
- Replaceable type polymer end connector
- Inverter controlled drive for cylinder
- High speed take up web doffing arrangement
- Online Quality Monitoring System (QMS)
- Linear 24" & 40" × 48" coiler with high speed can changers

TECHNICAL DATA

Application range	: OE & Regenerated Mixing, Cotton, Man-made Fibers and Blends
Sliver Count Range	: 0.06 - 0.18 Ne
Feed Weight	: 400 - 800 g/m
Working Width	: 1,000 mm
Can Size and Changer	: 40" x 48" / 24" x 48" Linear Can Changer
Waste Removal	: Automatic waste evacuation system
Auto levelling	: Both long term and short term as standard equipment
Total no. of Flats	: 97 (no. of working flats - 36)
Pre-Carding	: SFL 6F + 3K
Post-Carding	: SFD 4F + 2K
Compressed air requirement	: 0.7 Nm ³ /hr
Exhaust Air Requirement	: 1.1 m ³ /sec (all together), 1.2 m ³ /sec (separate)
Total Installed Power	: 18.69 kW (triple Licker-in), 16.89 kW (single Licker-in)



AUTOLEVELLER DRAW FRAME LDF3 E

SALIENT FEATURES

- Delivery speed of up to 1,100 mpm (mechanical)
- 4 Over 3 drafting arrangements with Pressure bar
- Duo - Digital auto levelling system
- Inverter controlled main drive facilitates delivery speed change from display
- Servo motor drive to drafting
- Automatic suggestion of Autoleveller correction point based on Roller setting and Break draft
- Sliver monitor ensures the quality of output sliver
- Spectrogram for self-diagnosis of mechanical faults Electronic sliver cutting
- Auto piecing using Pneumatics
- Self-cleaning top roller strippers - Stripper is automatically lifted periodically
- Integrated suction system for drafting, console, and sliver feed at Scanning
- Filter box with Wiper arrangement for easy maintenance
- Ergonomically designed Four row creel for accommodating feed cans upto 40" dia.
- Replaceable stainless-steel coiler for man-made fibres
- Delivery Cans dia. 12" to 16" / Delivery Can ht. 36", 42"
- Adjoining platforms for space saving - optional layouts

TECHNICAL DATA

Material	: OE & Regenerated Mixing, Cotton, Man-made Fibers and Blends
Fibre Length	: 25 to 80 mm
No. of deliveries	: One
Delivery Speed	: 1,100 mpm (mechanical)
Drafting System	: 4/3 spring loaded
Feed hank	: 0.04 to 0.24 Ne
Delivery hank	: 0.07 to 0.24 Ne
No. of Doublings	: 4 to 8 fold
Draft	: 3.58 to 11.56
Installed Power	: 10.50 kW
Exhaust Air	: 0.35 m ³ /sec
Compressed Air	: 0.2 Nm ³ per hour @ 6 bar

Card LC363/OE Performance in OE Process @ Panipat

Sl.No	Name of the Customer	Material	Production kg/hr	Delivery Speed (MPM)	Hank (Ne)	Count (Ne)
1	Customer 'A'	Regenerated Waste (Black)	165	280	0.06	3's to 6's
2	Customer 'B'	Regenerated Waste	140	300	0.075	10's
3	Customer 'C'	Regenerated Waste (Grey)	113	270	0.085	4's to 6's
4	Customer 'D'	Regenerated Waste	140	280	0.07	6's to 10's
5	Customer 'E'	Cotton Waste	100	240	0.085	6's to 10's
6	Customer 'F'	Regenerated Waste	118	220	0.065	3's to 6's
7	Customer 'G'	Cotton & Regenerated Waste	102	260	0.09	16's to 20's

Auto Leveller Drawframe LDF3 E Performance in OE Process

Sl.No	Name of the Customer	Material	Production Kg/hr	Delivery Speed (MPM)	Hank (Ne)	Count (Ne)
1	Customer 'A'	Cotton Virgin + Cotton Waste	177	550	0.11	16's to 20's
2	Customer 'B'	Cotton Waste	164	650	0.14	16's to 20's
3	Customer 'C'	Cotton Waste	118	400	0.12	6's to 10's
4	Customer 'D'	Regenerated Waste	152	600	0.14	16's to 20's
5	Customer 'E'	Regenerated Waste	164	650	0.14	16's to 20's
6	Customer 'F'	Regenerated Waste	159	450	0.1	6's to 10's
7	Customer 'G'	Regenerated Waste	113	400	0.125	16's to 20's
8	Customer 'H'	Cotton Virgin + Cotton Waste	123	400	0.115	16's to 20's

Unique Advantages of LMW Blowroom, Card & Autoleveller Drawframe for OE Spinning

- Homogeneous Blending
- Gentle Opening & Cleaning
- Excellent Microdust Extraction
- Lesser Lint Loss
- Higher Efficiency
- Less No. of White Neps
- Better Autolevelling - No count variation

Technological Advantages



Optimal Raw Material Realization



Less Infrastructure Investment

Reduced Machinery Requirements



Manpower Savings

Savings in power, Exhaust, Filtration etc.





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