

## Textile Machinery (Spinning)

The Lakshmi Machine Works Ltd. Coimbatore is a leading textile machinery manufacturers in India manufacturing full range of spinning machines from Blowroom to Spinning frames. The highlights of some of the important models are given below.

**TABLE – A**

Sr. No.	Category of Details	Company Name & Address			
		Lakshmi Machine Works Ltd. Coimbatore Website: <a href="http://www.lakshmi mach.com">www.lakshmi mach.com</a>			
1.0	Technical Profile				
1.1	Model	LR6	LR6/S LR6/SXL	LT6/AX	ROCOS
1.2	No. of spindles Per machine	1008+ 48 to 1200	1008+ 48 to 1200	1008+ 48 to 1200	1008+ 48 to 1200
1.3	Drafting	Pneumatic Loading	Pneumatic Loading	Pneumatic Loading	Note: The ROCOS Compact magnetic System can be Retrofitted on Ring Frame Models LR6 and LG5/1.
1.4	Salient Features	PLCV Control or Inverter Control System	PLCV Control And Auto Doffer	PLCV Control And Auto Doffer	
2.0	Product Profile				
2.1	Raw material/ Application	Short Staple Upto 60 mm	Short Staple Upto 60 mm	Short Staple Upto 60 mm	Short Staple Upto 60 mm
2.2	Count range	10s – 120s	10s – 120s	10s – 120s	10s – 120s
2.3	Spindle Speed	25000 rpm	25000 rpm	25000 rpm	25000 rpm
3.0	Power Consumption	55 KW	55 KW	55 KW	
4.0	Average price	Rs. 2463552/- per spinning frame of 1008 spindles exclusive Of Additional attachment like Auto Doffer or PLCV Control etc.			
5.0	Annual Production (July 05-June 06)	1802 Spinning Machines of 1008 spindles each.			
6.0	Delivery Period	22 Months			

LMW also manufacture and market series of spinning preparatory machines i.e. Blowroom, Card, Comber, Draw Frame and Speed Frame having state-of-art-technology. In addition to that they also manufacture and market the additional attachments like Auto Doffers, PLCV Control, Auto-levellers to the drafting and other accessories required for spinning plant and mahineries. For further details please go to the website [www.lakshmi mach.com](http://www.lakshmi mach.com) for the purpose.

**TABLE – B**  
**Ring Spinning**

Sr. No.	Category of details	Kirloskar Toyoda, Textile Machinery Pvt. Ltd., Www.kttml.com
1.0	Technical Profile	
1.1	Model	RXI 240 e
1.2	No. of spindles per machine	Maximum No. of 200 spindles
1.3	Draft range	Spring loaded.
1.4	Salient features	PLC, Investor.
2.0	Product Profile	
2.1	Raw Material / Application	Cotton / Synthetic fibres upto 51 mm.
2.2	Count Range	6 <sup>s</sup> – 80 <sup>s</sup>
2.3	Spindle speed (rpm)	22000
3.0	Power Consumption	55 KW
4.0	Average Price	Rs 3432 / spindles.
5.0	Annual Production	287424 spindles.
6.0	Delivery Period	22 months.

## International Textile Machinery

### TABLE – C

### Ring Spinning

Sr. No.	Category of details	JINGWE Textile Machinery Co. Ltd. YUCI Branch, China. www.jwme.com	RIETER INDIA Pvt. Ltd. Www.rieter.com	ATE MARKETING Pvt. Ltd., Andheri (W), Mumbai– 53. www.ateindia.com	MARZOLI Textile Machinery Co. Ltd., China. www.marzolidt.com
1.0	Technical Profile	Ring Spinning	Ring Spinning	Ring Spinning	Ring Spinning
1.1	Model	F 1520	RF – G 33	Zinser 351 + with cowemat 395 –V linked system – Bobbin tray	DTM – 139
1.2	No. of spindles per machine	600 + ..24 ...+ ..-1008	288 + 48+....1200	240 – 1008	72 + ... 1008
1.3	Draft range	10 –50	10 – 80	8 – 80	10 – 70
1.4	Salient features	i) Auto Doffer ii) Touch Screen panel	Multimotors	Ring spinning with cowemat 395-V linked system, Bobin Tray	i. Inverter to control spindle speed ii. PLC control
2.0	Product Profile				
2.1	Raw Material / Application	Cotton / Synthetic Fibres upto 51 mm	Cotton / Synthetic Fibres upto 60 mm	Cotton / Synthetic Fibres upto 60 mm	Cotton / Synthetic Fibres upto 51 mm
2.2	Count Range	6 <sup>s</sup> – 120 <sup>s</sup>	5.5 <sup>s</sup> – 160 <sup>s</sup>	4 <sup>s</sup> – 160 <sup>s</sup>	6 <sup>s</sup> – 120 <sup>s</sup>
2.3	Spindle Speed (rpm)	12000-25000	25000	25000	12000-22000
3.0	Power Consumption	55 KW	Main motor 55 kw Suction motor 12.6 kw		

**TABLE – D**  
**Compact Spinning**

Sr. No.	Category of details	ZHE JIANG RIFA Textile Machinery Co. Ltd. China. www.rifa.com.cn	RIETER INDIA Pvt. Ltd. Wwww.rieter.com	ATE MARKETING Pvt. Ltd., Andheri (W), Mumbai– 53. www.ateindia.com	MARZOLI Textile Machinery Co. Ltd., China. www.marzolidt.com
1.0	Technical Profile	Compact Spinning	Compact Spinning	Compact Spinning	Compact Spinning
1.1	Model	RFCS 510	Comfor spin machine–K44 Mechanically based on G33 RF.	Zinser 351C3 with cowemat 395 –V linked system – Bobbin tray	DTM – 149
1.2	No. of spindles per machine	432 + ..32	288+ 48+....1200	240 – 1008	624 + 12 +... 1008
1.3	Draft range	10 –70	10 – 80	8 – 80	10 – 70
1.4	Salient features	i. Compact Spinning ii. Digital control, Touch Screen panel	i. Compact Spinning ii. Multi-motor drive system	i. Compact Spinning ii. With cowemat 395 – V linked system – Bobbin tray iii. The electronic drafting system	i. Compact Spinning ii. Inverter to special control spindle speed iii. Electrical & magnetic monitoring system.
2.0	Product Profile				
2.1	Raw Material / Application	Cotton / Synthetic Fibres upto 51 mm	Cotton / Synthetic Fibres upto 51 mm	Cotton / Synthetic Fibres upto 60 mm	Cotton / Synthetic Fibres upto 51 mm
2.2	Count Range	16 <sup>s</sup> – 120 <sup>s</sup>	10 <sup>s</sup> – 160 <sup>s</sup>	10 <sup>s</sup> & finer	6 <sup>s</sup> – 120 <sup>s</sup>
2.3	Spindle Speed (rpm)	25000	25000	25000	12000-22000
3.0	Power Consumption	55 KW	Main motor 55 kw Suction motor 12.6 kw		

**TABLE – E**  
**Open – End Spinning**

Sr. No	Category of details	ZHE JIANG RIFA Textile Machinery Co. Ltd. China. www.rifa.com.cn	RIETER INDIA Pvt. Ltd. www.rieter.com		
1.0	Technical Profile	Open – End Spinning	Open – End Spinning	Open – End Spinning	Open – End Spinning
1.1	Model	RFS 10	RFRS 30	BT 923 Trend setting	R 40
1.2	No. of spinning positions	160 + 16 +...192	192 + ...240	20 + 18....200+...360	20 + .....400
1.3	Draft range	32 – 220	32 – 220	30 – 300	40 - 400
1.4	Salient features	Piecing electronically controlled	Piecing electronically controlled	Integrated electronically controlled.	Robot with integrated automation, microprocessor control for piecing and package-changing cycle
2.0	Product Profile (Delivery speed)	150 metres / min	170 metres / min	200 metres / min	350 m/min for up to 240 spinning positions 300 m/min ...to 400.....
2.1	Raw Material / Application	Upto 40 mm Cotton, Wool, Linen and Chemical fibres	Upto 40 mm	Upto 60 mm Cotton, Synthetic fibres	Upto 60 mm Cotton, Synthetic fibres
2.2	Count Range	5 <sup>s</sup> – 36 <sup>s</sup>	5 <sup>s</sup> – 36 <sup>s</sup>	3 <sup>s</sup> - 40 <sup>s</sup>	3 <sup>s</sup> - 60 <sup>s</sup>
2.3	Package	3.5 KG (300 X 150 mm)	4.5 KG (300 X 150 mm)	4.0 KG (300 X 150 mm)	6.0 KG (300 X 150 mm)
2.4	Opening roller speed (rpm)	5500 – 9000	5500 – 10000	5000 – 10000	6000 - 10000
2.5	Rotor speed (rpm)	30000-90000	30000-100000	60000- 110000	75000 – 160000 depending on count

**TABLE – F**

Sr. No	Category of details	ATE MARKETING Pvt. Ltd., Andheri (W), Mumbai– 53. www.ateindia.com			
		Ring Spinning	Ring Spinning	Compact Spinning	Ring Spinning
1.0	Technical Profile				
1.1	Model	Zinser 351 Ring spinning with cowemat 395 –V linked system – Bobbin Tray	Zinser 351 + with cowemat 395 –V linked system – Bobbin Tray	Zinser 351 C <sup>3</sup> with cowemat 395 –V linked system – Bobbin Tray	Zinser 350 Ring spinning with cowemat 395 –F linked system – Bobbin Tray
1.2	No. of spindles per machine	1200 – 1488	240 – 1008	240 – 1008	180 – 1488
1.3	Draft range	6 – 80	8 – 80	8 – 80	8 – 85
1.4	Salient features	With cowemat 395 –V linked system – Bobbin Tray	With cowemat 395 –V linked system – Bobbin Tray	With cowemat 395 –V linked system – Bobbin Tray	with cowemat 395 –F linked system – Bobbin Tray
2.0	Product Profile				
2.1	Raw Material / Application	Cotton, Viscose and Synthetic fibres upto 60 mm	Cotton, Viscose and Synthetic fibres upto 60 mm	Cotton, Viscose and Synthetic fibres upto 60 mm	Cotton, Viscose and Synthetic fibres upto 60 mm
2.2	Count Range	4 <sup>s</sup> – 160 <sup>s</sup>	4 <sup>s</sup> – 160 <sup>s</sup>	10 <sup>s</sup> and finer	4 <sup>s</sup> – 120 <sup>s</sup>
2.3	Spindle speed (rpm)	25000	25000	25000	25000

**TABLE – G**  
**Air jet Spinning**

Sr. No	Category of details	Murata Machinery Ltd., Bombay Liaison Office, www.muratec.net
1.0	Technical Profile	Air Jet Spinning
1.1	Model	No. 881 Twin Spinner
1.2	No. of spindles per machine	16 + 8 +....72 units per machine
1.3	Draft range	50 – 200
1.4	Salient features	Note : Two slivers supplied to the draft unit are drafted and go through the spinning nozzles separately. The slivers coming out of the spinning nozzles are doubled on to take up package suitable for two for one twisting yarn defects are removed by the yarn clearer. MTS is innovative in and doubling process of ring spinning are eliminated.
2.0	Product Profile	
2.1	Raw Material / Application	Cotton, Blends of Synthetic fibres
2.2	Count Range	20 <sup>s</sup> – 100 <sup>s</sup>
2.3	Package weight	4.0 KG
2.4	Package Diameter	(300 X 150) mm
2.5	Spinning speed (rpm)	130-210 metres per minute
3.0	Power Consumption	25.5 KW

**TABLE – H**  
**Worsted spinning**

<b>Sr. No</b>	<b>Category of details</b>	<b>ATE MARKETING Pvt. Ltd., A-19, CTS No. 689, Veera Desai Road, Andheri (W), Mumbai– 53. Fax: 91-22-26732446.</b>  <b>Spinning@ateindia.com / www.ateindia.com, www.zinser.texma.com, www.zinser.sauser.com, www.ztsindia.com</b>			
1.0	Technical Profile	Worsted Spinning	Worsted Spinning	Worsted Spinning	Worsted Spinning
1.1	Model	Zinser 451 with cowemat 395 –V linked system – Bobbin Tray	Zinser 451 + with cowemat 395 –V linked system – Bobbin Tray	Zinser 451s with cowemat 395 –V linked system – Bobbin Tray	Zinser s 451s C <sup>3</sup> with cowemat 395 –V linked system – Bobbin Tray
1.2	No. of spindles per machine	240 – 1200 180 – 1116	240 – 720 180 – 720	240 – 1200 180 – 1116	240 – 720 180 – 720
1.3	Draft range	8 – 80 fold	8 – 80 fold	8 – 80 fold	8 – 80 fold
1.4	Salient features	With cowemat 395 –V linked system – Bobbin Tray	With cowemat 395 –V linked system – Bobbin Tray	With cowemat 395 –V linked system – Bobbin Tray	With cowemat 395 –V linked system – Bobbin Tray
2.0	Product Profile				
2.1	Raw Material / Application	Staple fibres upto 200 mm. All wools, fine animal hairs, silk, ramie, manmade fibres and their blends	Staple fibres upto 200 mm. All wools, fine animal hairs, silk, ramie, manmade fibres and their blends	Staple fibres upto 200 mm. All wools, fine animal hairs, silk, ramie, manmade fibres and their blends	Staple fibres upto 200 mm. All wools, fine animal hairs, silk, ramie, manmade fibres and their blends
2.2	Count Range	5.3 <sup>s</sup> -106 <sup>s</sup> <sub>(worsted)</sub>	5.3 <sup>s</sup> -106 <sup>s</sup> <sub>(worsted)</sub>	5.3 <sup>s</sup> -106 <sup>s</sup> <sub>(worsted)</sub>	25 <sup>s</sup> and finer <sub>(worsted)</sub>