

Italian textile machinery manufacturers

The textile machinery industry requires great investments in research, deep know-how, long experience in textile, mechanic and electronic fields. Italy is today ranked as the second largest producer of textile machinery in the world and the technological level of its production is considered of the highest standard even by its competitors themselves. In 2008, the production of Italian textile machinery amounted to 2.0 billion Euro, 79% of which (worth 1.6 billion Euro) exported to about 130 countries. Asia (43%) is the main export area, followed by Europe (34%), South America (11%), Africa (7%) and North America (5%). Some of machinery manufacturers are highlighted here for the interest of our readers. **Amina Baqai. Ed.**

Salvade MACH 5: Because its power is expressed in its name

The finishing machinery from Italy deserves a special attention, as manufacturers pay close attention to technology and aesthetics, take for example Salvade (www.salvade.com), according to Marco Salvade, owner and president, our new Mach 5 tumbler on display at ITM 2009 met all expectations of our customers. MACH 5 Tumbler as implied in its name is the power as expressed in superior textile finishing. Some of the most important features are given as under:

- ❖ Forty thousand cubic meters of air at a speed of around 150 Km/h.
- ❖ Eight newly-designed and patented vibrating blowers.
- ❖ Forty-five Kw of ventilation controlled by inverters, maximum speed is automatically reached as a function of the temperature set.
- ❖ Simple and self-cleaning with a rotating belt-type filter and a second filter to recover hair and dust with a densifier and compactor for the same.
- ❖ Centering and widening of the output fabric.

- ❖ High operating speed even with only one chamber.
- ❖ Low fuel consumption as the friction generated by the high vibrations of the fabric generates heat and thus reduces consumption.
- ❖ Control of the effect and of the final coat through the adjustment of the revolutions of the fan.
- ❖ Possibility of working with dry or wet fabric.

How the Tumbler Effect is achieved:

The fabric under process is fed into the first tray, in the quantities determined and set on the touch screen. The special blower group takes up the fabric from the first tray and projects it toward the second at high speed compressing in the connecting curve. This specifically designed (Patented) blower group is very different from its competitors, and is capable of producing great "feel" effects. The switchover from one position to the other is determined by two load cells that detect a given number of meters of fabric accumulated in one of the two trays. On



Salvade Mach 5.

reaching the set weight, the system automatically switches direction.

As final result, according to the type of fabric under process, the number of switchovers, the extremely high speed the fabric travels at and the vibration of the special blower group gives a soft, bulky feel, dimensional stability, ageing effect, boucle raising and volume in sponge and chenille fabrics. The machine is ideal for treating both wet and dry fabrics. It is suitable for treating woven and knitted fabrics alike.

Salvade is represented in Pakistan by Mustex Corporation.

Prosino F1 Rings for demanding spinners worldwide

Established in 1946 in the Italian Textile area of Biella, Prosino S.r.l. is active in the production and sales of spinning and twisting rings, with exports into other European markets and USA. Currently, Prosino's Textile products are exported all over world to leading European OEM's and after markets representing over 60% of the company's production.

Prosino is represented in Pakistan by Madhani Associates, Mr. Pietro Prosino while talking to PTJ editor at ITM Istanbul

said, "Our brand Borgosesia Rings F1 rings are developed to meet the expectations of the demanding spinners worldwide. Our goal is to obtain a ring that last longer than conventional rings to avoid micro welding with steel travelers. The special surface that protects the ring is extremely hard, yet very smooth."

A comparative analysis of F1 Rings and Traditional Rings is given in the next column. Experiences have shown that a Borgosesia ring life is up to three times greater that of conventional rings as shown on the graph provided.

F1 RINGS		TRADITIONAL RINGS	
LONG LASTING RING SURFACE DURING SPINNING PROCESS			THE MICROWELDINGS BETWEEN RING AND TRAVELLERS DAMAGE THE RING SURFACE AND CAUSE FITTING AND SPALLING.
COMPARATIVE STATUS OF THE RING FLANGE AFTER 36 WORKING MONTHS ON 100% COTTON, COUNT N° 30 AT 18500 R.P.M. (RING DIA 40 MM)			
UNIFORM YARN TENSION ON ALL SPINDLES (CONSISTENCY ON THE YARN TENSION DISTRIBUTION)			SPINDLE TO SPINDLE YARN TENSION VARIATION (INCONSISTENCY ON THE YARN TENSION DISTRIBUTION)
CONSTANT SPINNING TRIANGLE ON EVERY SPINDLE (CONSISTENCY ON THE SPINNING TRIANGLE SHAPE)			THE SPINNING TRIANGLE HAS DIFFERENT SHAPES FROM SPINDLE TO SPINDLE (INCONSISTENCY ON THE SPINNING TRIANGLE SHAPE)
EVEN YARN QUALITY (CONSISTENCY IN YARN QUALITY PARAMETERS)			THE C.V. OF THE YARN HAIRNESS INCREASES AS THE RING BECOMES OLDER (INCONSISTENCY IN YARN QUALITY PARAMETERS)

Ring I.d.	Fiber	Yarn count Ne	Tube mm	Traveller ISO Nr.	Traveller speed m/sec	Spindle speed R.P.M.	Hairiness (H)
40	Viscose in Europe (DANUFIL)	30	200	45	33,5	16.000	4,4
42	Pakistani Cotton	20	200	40	35,1	16.000	4,6
41	Viscose in Indonesia	30	200	45	34,3	16.000	4,5
40	Cotton in Italy (AMERICA)	30	200	35	37	17.500	4,3
40	Carded Cotton	30	200	45	35,8	17.100	5,3
38	Indian Cotton	40	160	25	36	18.000	3,9
38	Indian Cotton	32	200	50	36,8	18.500	4,1
36	Egyptian Cotton	60	180	25	41,7	22.100	4,3
36	Egyptian Cotton	110	180	14	31,1	16.500	3,1
36	Polyester Viscose	60	200	22,4	41,5	22.000	4,8
38	Indian Cotton	40	160	40	39,4	19.800	4,6

market. They also manufacture a wide range of ancillary products, steel and aluminum ring holders and sheet metal rings rails, specializing in niche production of sintered steel rings for the applications of technical textiles including carpet yarn, fiber glass and synthetic yarns. ♦