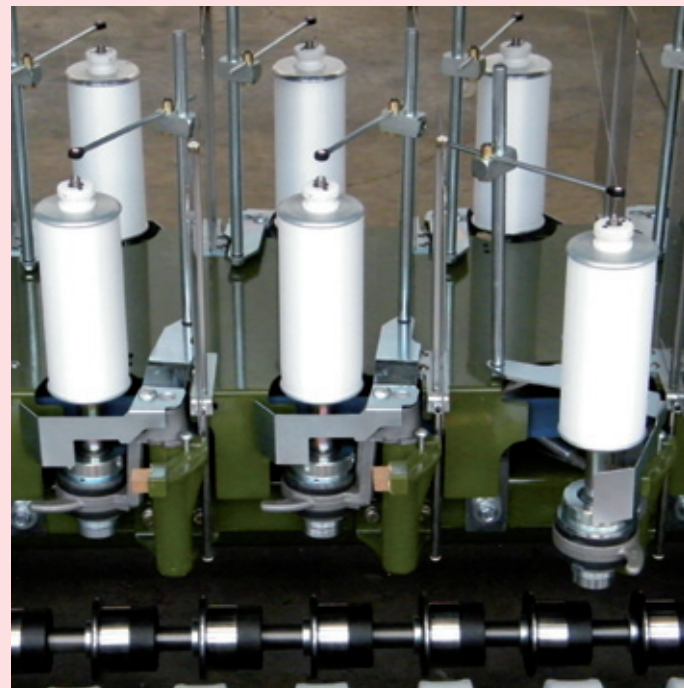




**R351 NE - R352 NE**

Single and double covering machine.



**R353 - R354**

Single and double covering machine. Higher density of spindles per section

## ELASTIC YARN COVERING



**SP-R**

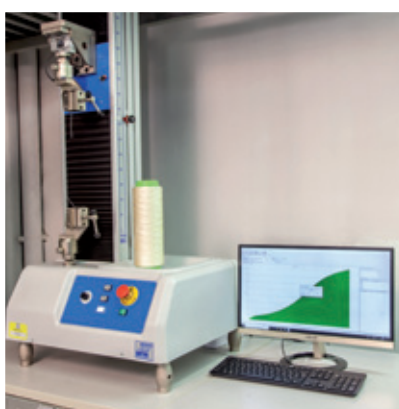
Single and double covering machines equipped with fixed spindles.



**BVE-R**

High speed electronic "flanged bobbins" winder for covering and fancy yarn process.

OMM MACHINERY



### Textile Laboratory

Original processing ideas and solutions to customer's problems are tested here, to assure planned performances.



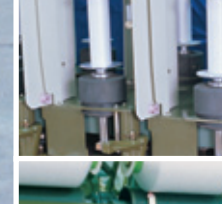
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# RATTI

## Line by Line. Product by Product.



## THE RATTI PRODUCT LINES

### SYNTHETIC AND ARTIFICIAL YARNS

Two-for-one twisters for synthetic, artificial continuous filaments, with RATTI spindles in various configurations: single or double deck; high speed or soft take-up package; final package with modified edge profile; in-line setting heater; spindles for cops or large diameter bobbins of flat or textured yarn.

### CREPE-TEXTURED

RATTI manufactures a "DFT" machine for the production of crepe-textured, silk-like yarns, with textured effects. Double twist and textured are combined in a single phase.

### TECHNICAL YARNS

Two-for-one twisters for the processing of synthetic fibers of high counts, up to 5500 Dtex, mainly for industrial use. The machines in this line can be equipped for the production of monocord, heavy duty sewing thread (1st and 2nd step) and direct cabling of both BCF and other filaments. The machines fit a variety of large spindles, suitable for supply package bobbins of diameter from 250 to 310 mm and permit a take-up of up to 300 mm diameter (average 10-12 Kg).

### FANCY YARNS

Highly versatile for the development of original, innovative yarns, this line of fancy twisters can easily respond to the demand of fancy yarn processors, who may consider their choice over three models, depending on their need. Available are: single deck, with and without setting heater, fitting the RATTI's exclusive, patented "false twist multiplier", or double deck, with possibility to run each deck either independently or jointly but according to different running schemes and modes thus to give different yarn construction.

### ELASTIC YARN COVERING

Top technical and sophisticated, for the production of elastic yarn with rubber or elastane core. The machines of this line can be equipped either for high speed, fitting spindles with small medium spool or for high capacity, with larger gauge and fitting spindles suitable for large spools of 4 to 5 lbs capacity. All versions are equipped with the unique RATTI swing-arm for a simple, practical spindle disengagement allowing easy machine operation and maintenance. All versions can be supplied from full mechanical to full electronical.

### SEWING THREAD

Line of machines for the production in 2 steps of fine/medium counts of sewing threads and embroidery yarns, the first step assembly-twisting 2, 3 or 4 plies. The second step machine is also available with a unique RATTI take-up cradle equipped to control the density of the bobbin, for direct dyeing without prior rewinding. For non-stabilised yarns (with high residual shrinkage) the second step machine is also available with heater and suitable equipment to allow the control of the final shrinkage of the yarn; so that these yarns, too, can be treated for direct dyeing after twisting.

### REAL SILK

To satisfy the requirement of the silk industry, RATTI features a line of machines that can optimise every phase of yarn processing. For its particular design, the assembly winder can be used instead of assembly ring-twister. The exclusive RATTI two-for-one spindle for real silk guarantees top performance.

### STRETCH YARNS

Two-for-one twister specifically designed to run polyamide, polyester stretch yarns, at low twist, with take-up of very large diameter and low density ("muff" package) for direct dyeing. Long heaters and belt-type overfeeders ("casablanca"), for high speed and perfect control of the shrinkage of the yarn. Particularly suitable for the production of yarns used for men socks, sportswear as well as other stretch fabrics or stretch sewing threads.





**R325 N**

Single deck, two-for-one twister with spindles for cops.



**R325 N**

Single deck, two-for-one twister with spindles for bobbins.



**R326 N**

Double deck, two-for-one twister with spindles for cops.



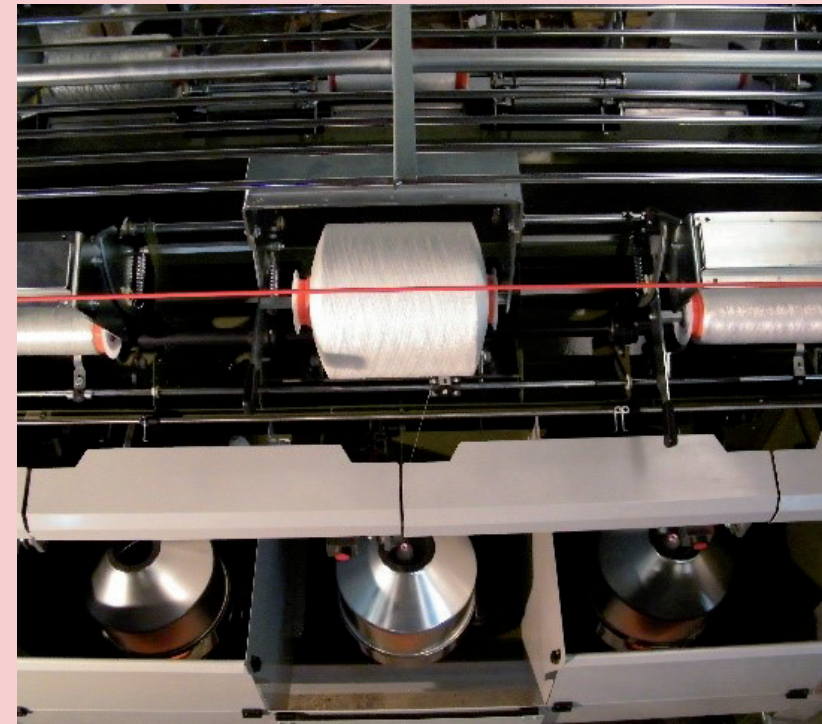
**R325 N/F**

Two-for-one twister with heater. Continuous yarn heat-setting and soft take-up packages.



**R325 N/DFT**

Two-for-one twister with 3 combined processes: twisting, setting and false twisting.



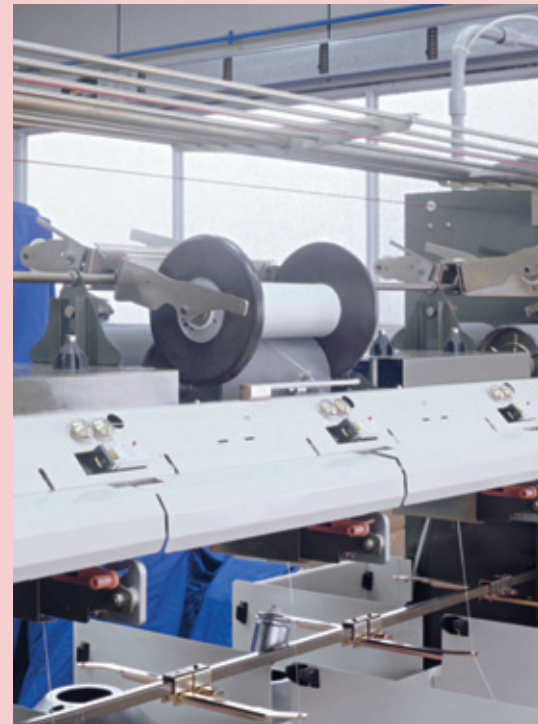
**R641**

Two-for-one twister for industrial yarn.



**R341**

Two-for-one twister with big spindles and suitable for big take-up packages.



**R341 CU1**

Two-for-one twister for heavy sewing threads - 1st twist.



**R341 CU2**

Two-for-one twister for heavy sewing threads - 2nd twist.



**XR600**

Individual head twisting machine.

## SYNTHETIC AND ARTIFICIAL YARNS

## CREPE-TEXTURED

## TECHNICAL YARNS



**R365**

Fancy yarn twister. Double deck, with hollow spindles and computer controlled motors.



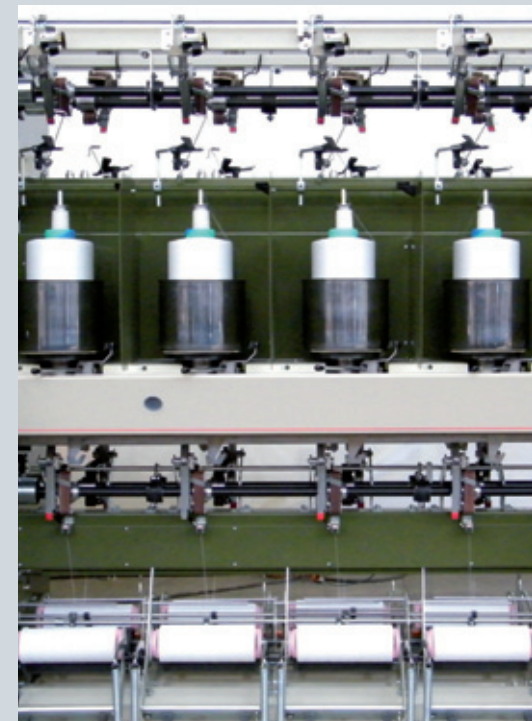
**R375 N**

Fancy yarn twisters. Hollow spindles and computer controlled motors.



**R376 N**

## FANCY YARNS

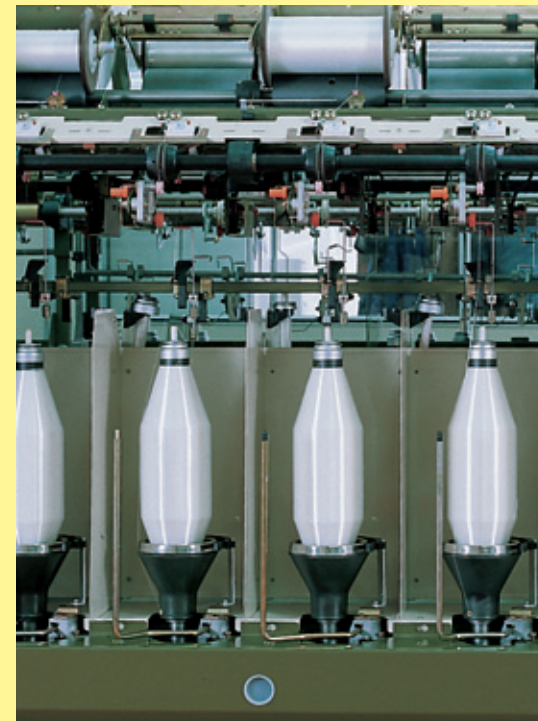


**R441 STR**

Two-for-one twister for continuous twisting/stabilizing of polyamide and polyester stretch yarn.



## STRETCH YARNS



**R325 N CU1**

Two-for-one twister for sewing threads - 1st twist.



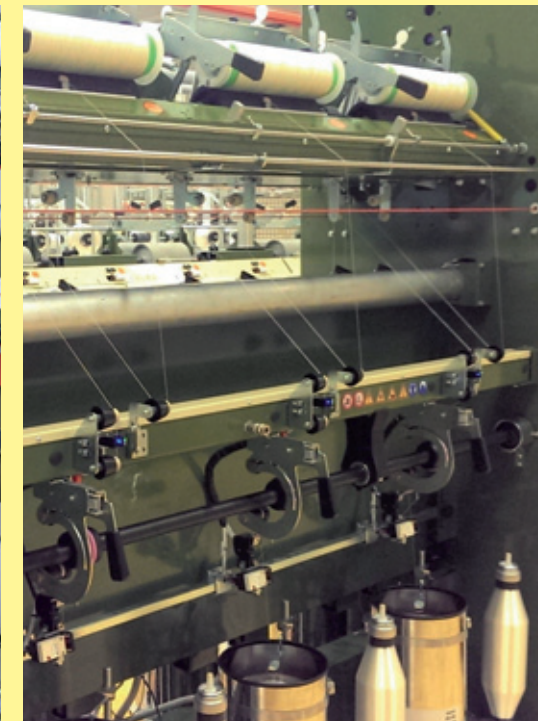
**R325 N CU2**

Two-for-one twister for sewing threads - 2nd twist.



**R325 N/F CU2**

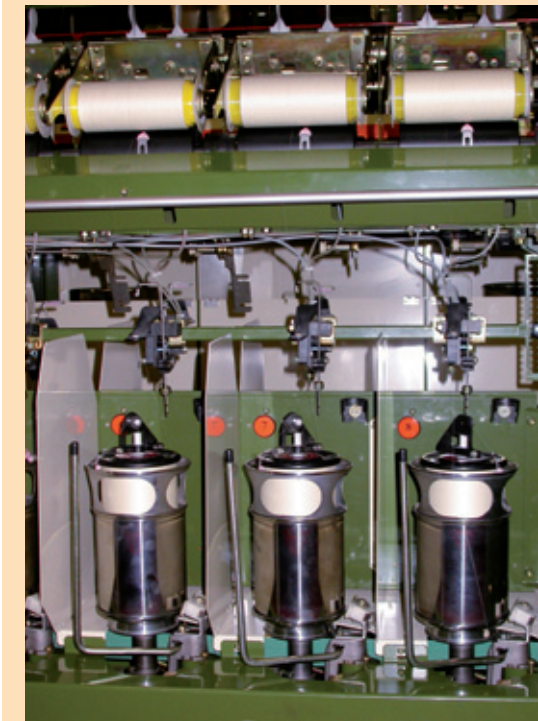
Two-for-one twister for sewing threads 2nd twist with stabilizing heater.



**R325NF-B**

Twisting machine for the inbonding of sewing thread.

## SEWING THREADS



**R364 S**

Two-for-one twister for real silk.

## REAL SILK



**R700**

Ratti cops-winder.

## COPS-WINDER