



R325 N

Leaders in twisting technology since 1869

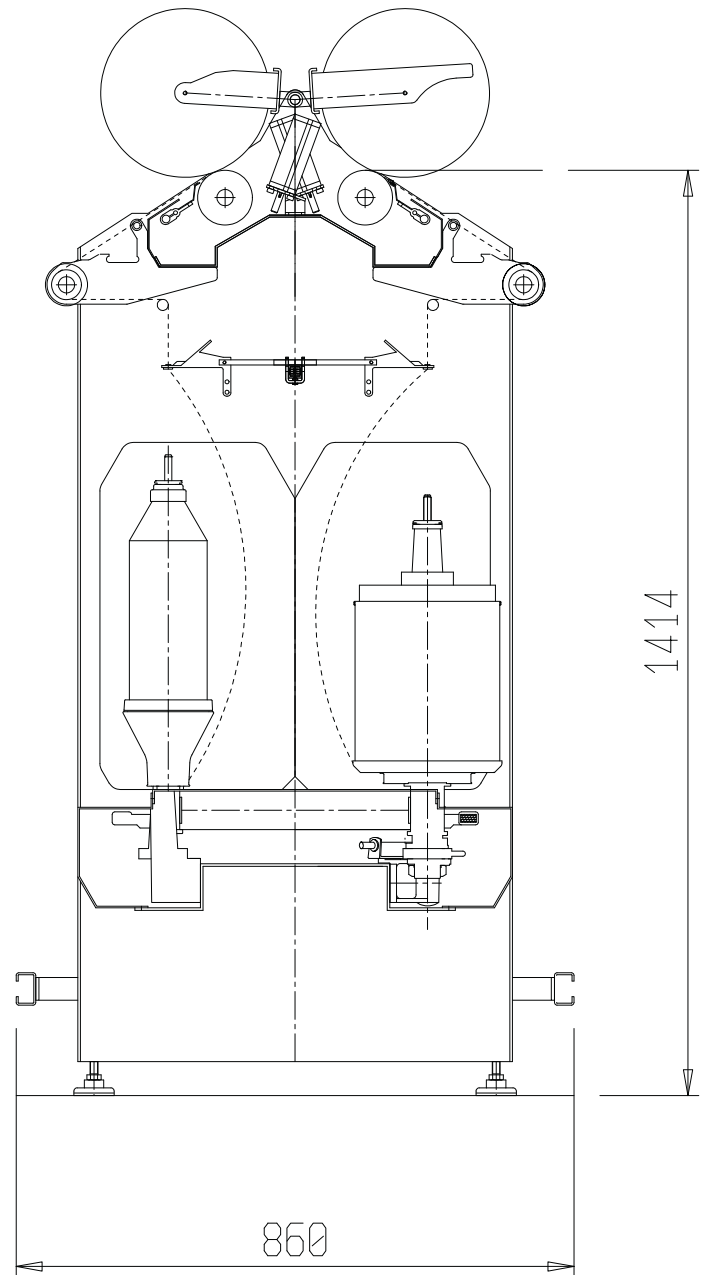
RATTI TWISTING MACHINERY
SYNTHETIC AND ARTIFICIAL

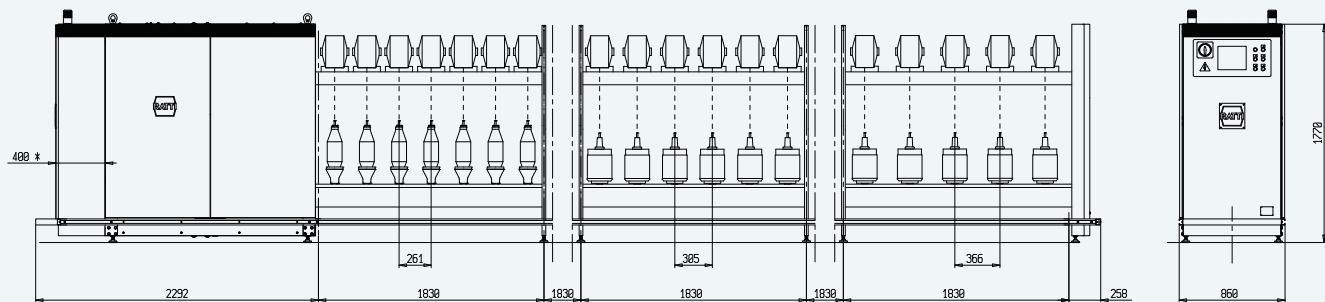


made in **Italy**

TFO TWISTER FOR SYNTHETIC AND ARTIFICIAL YARNS

- TFO twister for the processing of continuous fiber as Polyester, Polyamide, Polypropylene, Acetate, Viscose, textured or flat yarns.
- The section length of 1830 mm allows three different gauges (261, 305, 366 mm), depending on the type of spindle used.
- A wide range of spindles for cops (from DT110N to DT140N) and for bobbins (from NT180 to NT260) are available granting R325 N a high flexibility.
- Spindles fitted on swing arm (spindle disengagement) in oil bath, for easy intervention on each position.
- Spindles for cops fully ceramic coated.
- Yarn guard, with ceramic insert, acting in case of yarn breakage.
- “Cell-like” metal separators between spindles.
- Sintered ceramic overfeeders fitting easily removable protection caps, to avoid yarn entangling at the side of the overfeeders themselves.
- Adjustable, ceramic yarn guide rollers before the overfeeders, with lock-in position knob, for a finest take-up tension setting.
- Inverterised spindles driving motor.
- Individual take-up drums of phenolic resin.
- Take-up cradles equipped with double braking system for anti-dampening at high speed.
- Take-up tubes centring of large diameter and running onto ball bearings.
- Automatic transfer tail device.
- Automatic lifting of take-up packages at yarn breakage, pneumatically controlled.
- Gearbox for winding of cylindrical or biconical bobbins, with lip motion device, for soft edges.
- All machine controls (spindles and overfeeders speed, TPM setting) located in a single head-stock.
- Touch screen control panel, for the monitoring of: spindles speed, take-up speed, yarn meter counter, alarm displaying, working hours, maintenance program memo, settings of S and Z twist direction.
- Machine built according to the last CE standards for quality and safety.





Number of sections	1	2	3	4	5	6	7	8	9	10	11	12
Number of spindles	14/12/10	28/24/20	42/36/30	56/48/40	70/60/50	84/72/60	98/84/70	112/96/80	126/108/90	140/120/100	154/132/110	168/144/120
Machine length	4380	6210	8040	9870	11700	13530	15360	17190	19020	20850	22680	24510

TECHNICAL DATA

SPLINDLES

Gauge	261				305		366			mm
Spindle type	DT110N	DT132N	DT140N	NT180	NT180	NT220	NT220	NT220/240	NT260	
Spindle per section	14				12		10			nr
Max. no of spindles	168				144		120			
Max. technological speed	15.000	12.000	12.000	10.000	10.000	8.000	8.000	8.000	7.000	rpm
Twist range	60-2770	60-2770	60-2770	60-2320	60-2320	60-1870	60-1870	60-1870	60-1520	TPM
Count range	22-330	22-560	22-560	78-560	78-560	167-560	167-560			Dtex
Type of supply package	cops	cops	cops	bobbin	bobbin		bobbin			
Supply package max Ø	110	130	140	175	175	210	210	230	250	mm
Supply package max. length	380	420	420	290	290		290			mm

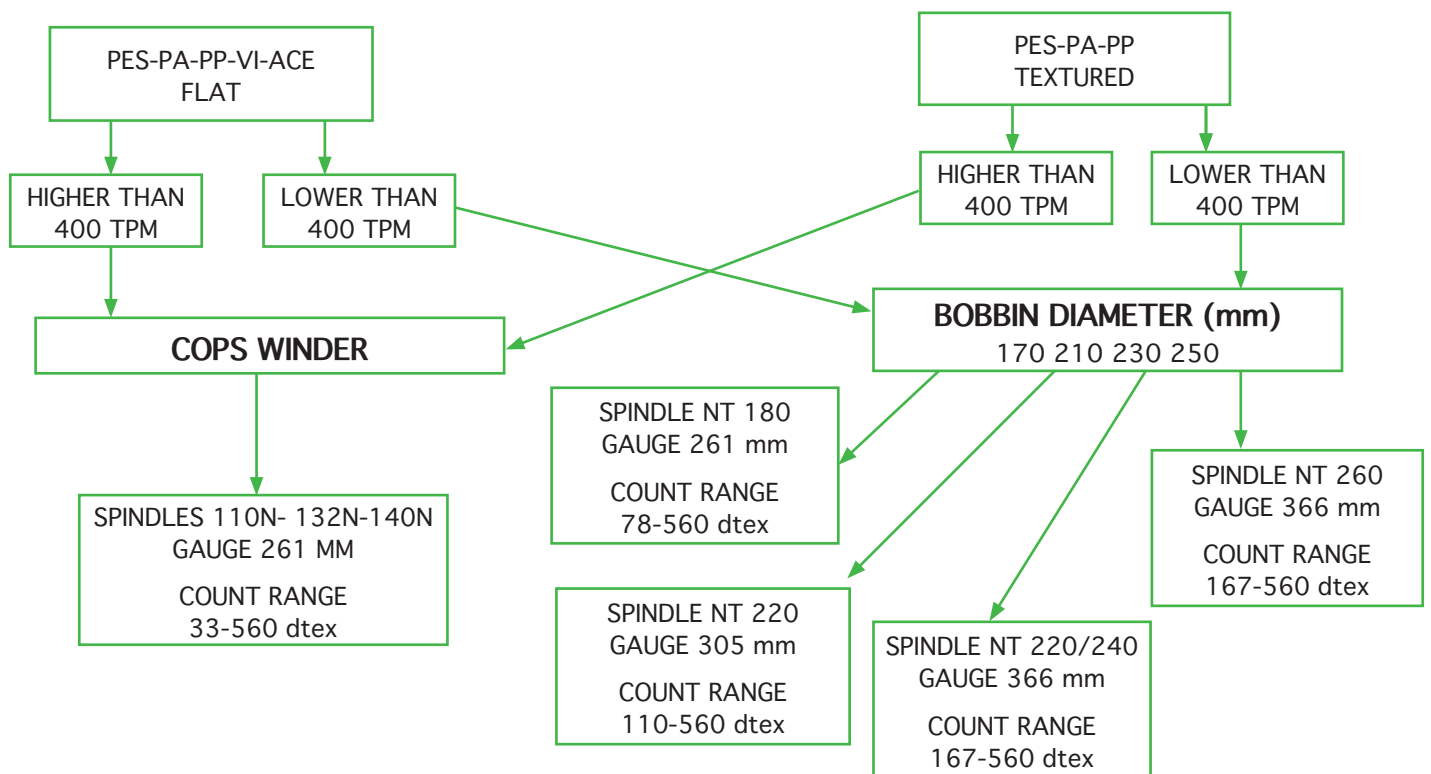
TAKE-UP

Number of decks				1	nr	
Take-up per section	14			12	10	nr
Max. number of take-up	168			144	120	nr
Gearbox	UDR					
Traverse max	200			200	250	mm
Diameter max	250					mm
Tube dimensions (Dia x L)	56x230			56x230	69x290	mm
Max. technological speed	170					m/min

FRAME

Max. number of sections	12			nr
Section length	1830			mm
Max. machine length	24510			mm
Machine width	860			mm
Machine height	1770			mm
Height at take-up	1414			mm
Max. installed motor power	22			kW
Max. weight, approx	5000			kg

WORKING PROCESS FLOW CHART



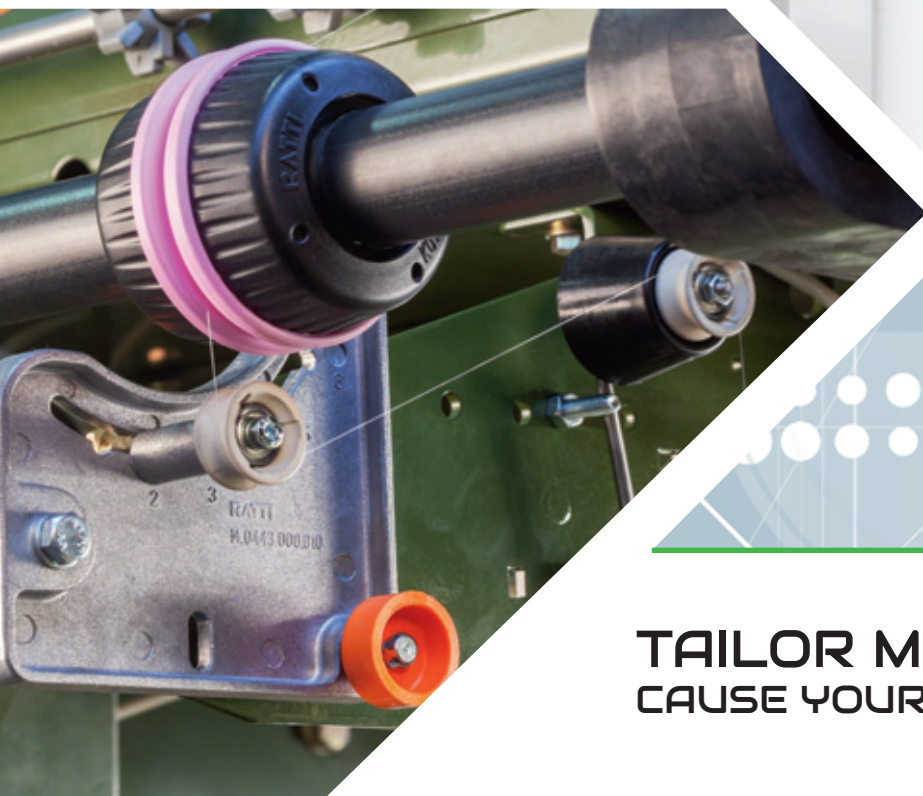
OPTIONALS

- INVERTERISED OVERFEEDER DRIVING
- ELECTRONIC SETTING OF THE TPM LEVEL
- SOFT WINDING FOR DIRECT DYEING
- TAKE-UP BOBBIN WITH MODIFIED EDGE PROFILE
- YARN OILING DEVICE
- INDIVIDUAL TAPERING
- AUTOMATIC/PNEUMATIC SPINDLE
DISENGAGEMENT, IN CASE OF YARN BREAKAGE
(ONLY WITH BOBBIN TYPE SPINDLES)
- REMOTE ASSISTANCE
- MACHINE LINKING TO COMPANY NETWORK
- POSSIBILITY TO PERSONALISE THE MACHINE,
ACCORDING TO THE CUSTOMER REQUIREMENTS





The data and images contained in this catalogue are indicative. The company reserves the right of making any modifications of technical-construction type without previous notice.



**TAILOR MADE MACHINES
CAUSE YOUR NEEDS IS OUR JOB!**



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