



R325 N/F

Leaders in twisting technology since 1869

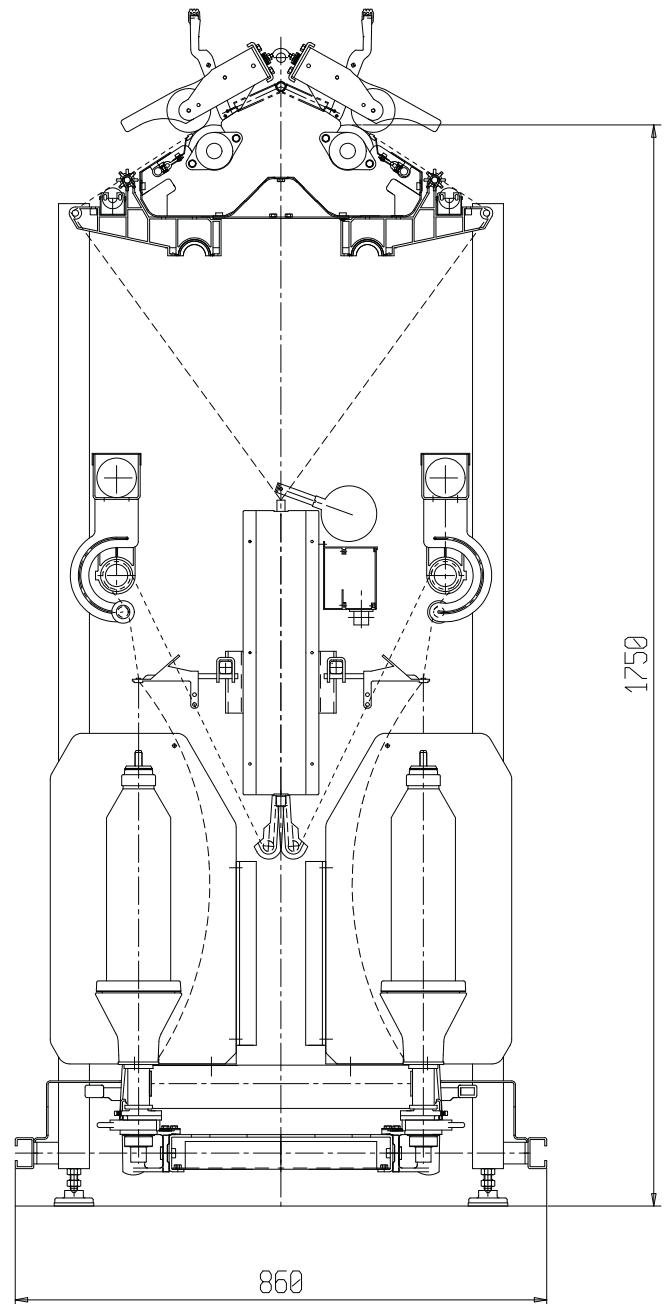
RATTI TWISTING MACHINERY
SYNTHETIC AND ARTIFICIAL

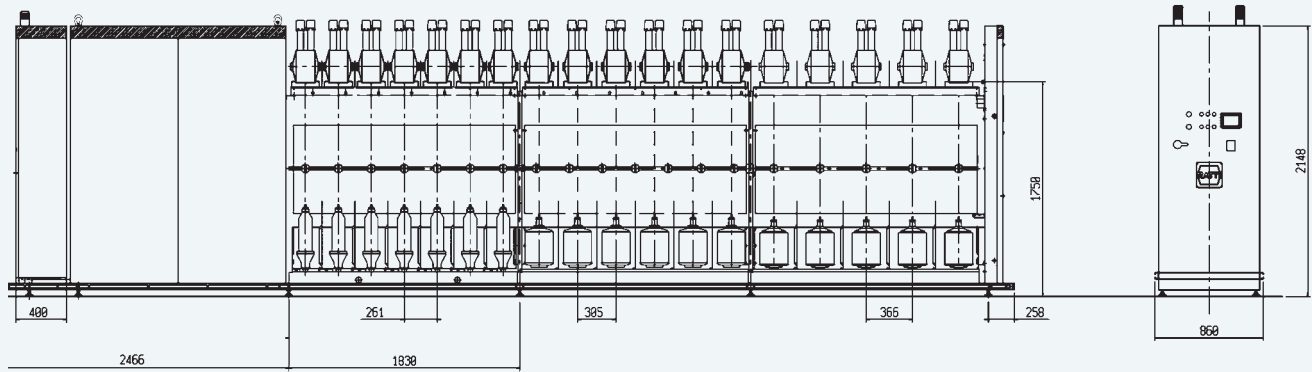


made in **Italy**

TFO TWISTER WITH HEATER FOR CONTINUOUS HEAT SETTING OF SYNTHETIC YARNS

- TFO twister equipped with heater, for continuous heat setting of twist.
- Highly flexible, when needed, the machine may also be used as a normal TFO twister (bypassing the heater).
- Spindles for cops or bobbins processing.
- Spindles fitted onto 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, for a finest setting of the tension both at the heater inlet and at the take-up.
- 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.
- Tilting heaters, to ease the maintenance, assembling and disassembling of heaters tubes.
- Yarn conveyor at the heaters inlet, with a yarn anti-stress ceramic roller guide.
- Pneumatic threading of the yarn through the heaters
- Heaters temperature controlled through a computerised system, with three temperature monitoring points inside each heater.
- Fume exhaust system, connectable to the user’s centralised system.
- Inverterised spindles driving motor
- Traverse gearbox for winding of cylindrical or biconical bobbin, with lip motion device, for soft edges.
- All machine controls (spindles, overfeeders speed, TPM setting) located in a single head-stock.
- Pneumatic lifting of take-up bobbin and signal light.
- Touch screen control panel, for the monitoring of: spindles speed, take-up speed, yarn meter counter, alarm displaying, working hours, maintenance program memo, setting 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 (mm)	4554	6384	8214	10044	11874	13704	15534	17364	19194	21024	22854	24684

TECHNICAL DATA

SPINDLES

Gauge	261	305	366	mm
Spindle type	DT132N/DT140N	NT220	NT260	
Spindles per section	14	12	10	nr
Max. no. of spindles	168	144	120	nr
Max. technological speed	12.000	8.000	7.000	rpm
Twist range	59-2777	60-1870	60-1520	TPM
Count range	22-330	33-330	33-330	Dtex
Type of supply package	cops	bobbin	bobbin	
Supply package max. diameter	130/140	210	250	mm
Supply package max length	420	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 dimenisons (DiaxL)	56x230	56x230	69x290	mm
Max. mechanical speed	170	170	170	m/min

FRAME

Max. number of sections		12		nr
Section length		1830		mm
Max. machine length, with electronic TPM control		24684		mm
Machine width		860		mm
Machine height		2148		mm
Height at take-up		1750		mm
Max. spindles driving motor power		22		kW
Max. weight, approx		5000		kg

HEATERS

Spindle gauge	261	305	366	
Heater length *	700	700	700	mm
Heaters, total installed power	15,1	12,9	10,8	kW
Heaters, average power consumption**	8	6,8	5,8	kW
Temperature adjusting range	50°-250°	50°-250°	50°-250°	°C

*Possibility to install heaters with length of 460 mm.

**At the following conditions: without yarn – ambience temperature 25° C – heater temperature 220° C

OPTIONALS

AUTOMATIC/PNEUMATIC SPINDLE DISENGAGEMENT,
IN CASE OF YARN BREAKAGE
(ONLY WITH BOBBIN TYPE SPINDLES)

YARN OILING DEVICE

INDIVIDUAL TAPERING

TAKE-UP BOBBIN WITH MODIFIED EDGE PROFILE

SOFT WINDING FOR DIRECT DYEING

ELECTRONIC SETTING OF THE TPM LEVEL

INVERTERISED OVERFEEDER DRIVING

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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