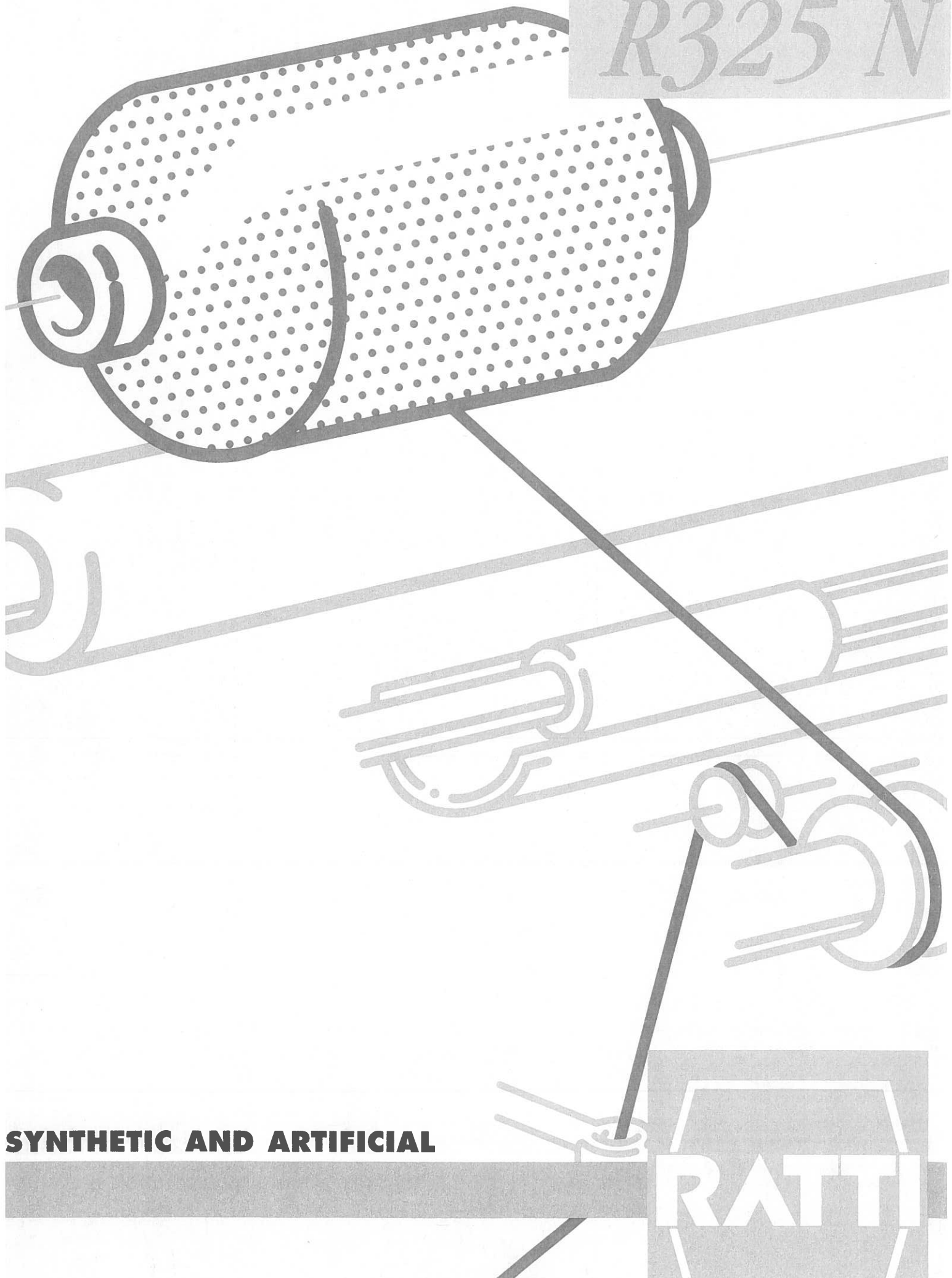


R325 N



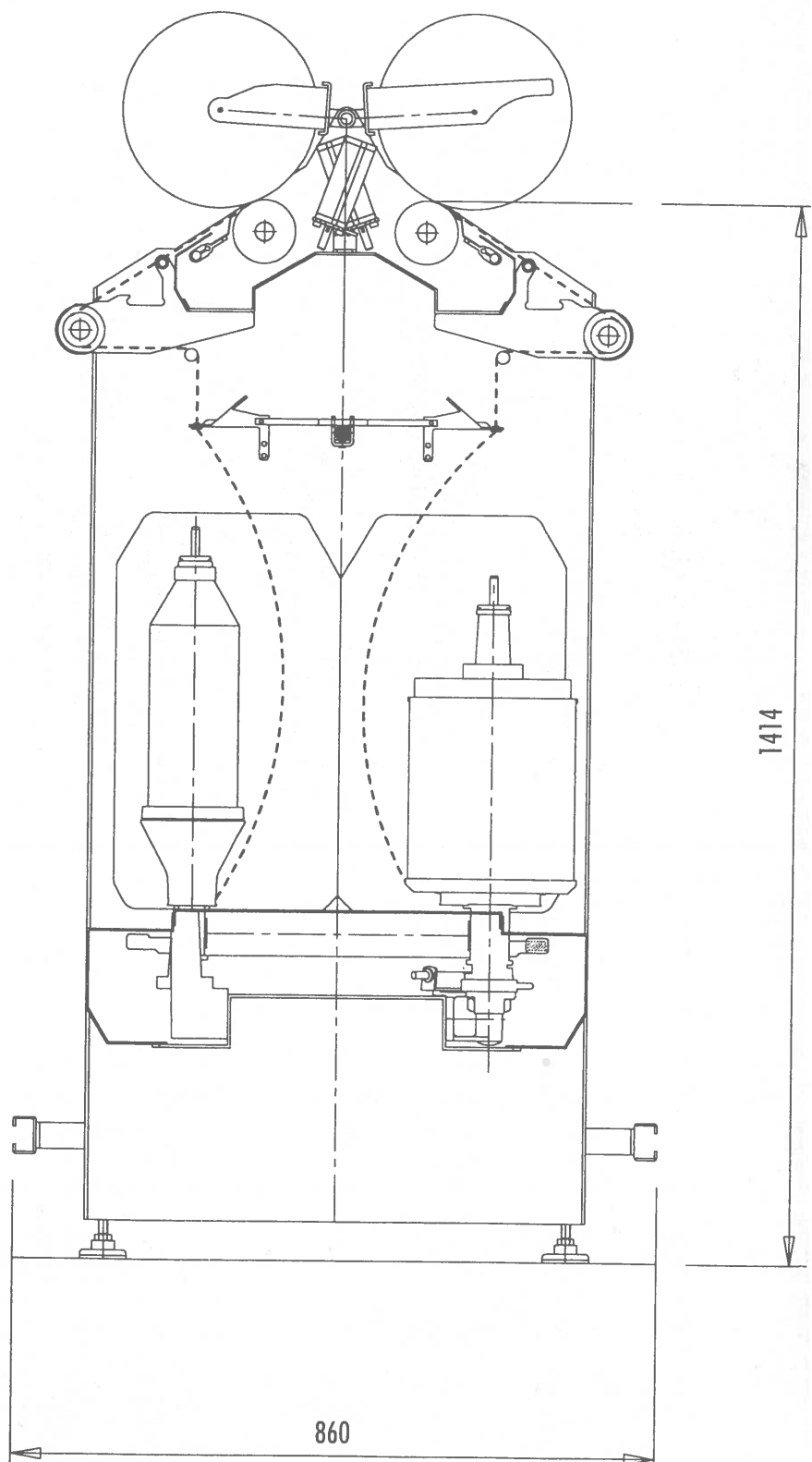
SYNTHETIC AND ARTIFICIAL

RATTI

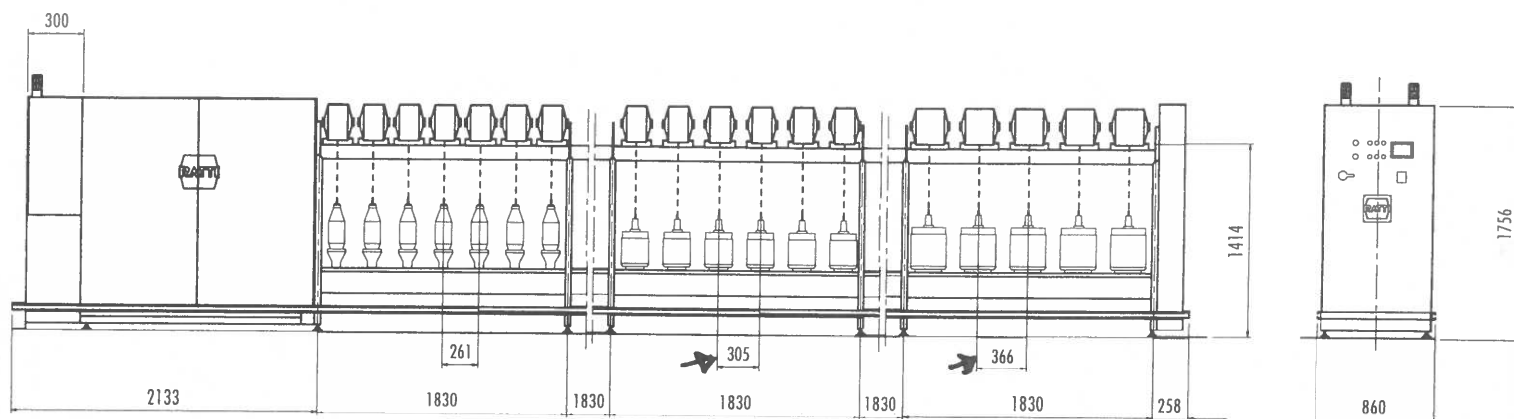
TFO TWISTER FOR SYNTHETIC AND ARTIFICIAL YARNS

R325 N: TFO Twister for Synthetic and Artificial Yarns.

- TFO twister for the processing of continuous fibres as Polyester, Polyamide, Polypropylene, Acetate and 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 DT-110N to DT-140N) and for bobbins (from NT-150 to NT-260) are available granting R326 N a high flexibility.
- Spindles fitted onto swing arm (spindle disengagement) in oil bath, for easy intervention on each position.
- Spindles for cops fully ceramic coated and running in oil bath.
- 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.
- 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 (OPTIONAL).
- Gearbox for winding of cylindrical or biconical bobbins, with lip motion device, for soft edges.
- All machine controls (spindles and overfeeders speed, change of twist) located in a single head-stock.
- Digital monitoring, through a microprocessor, 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.



R325 N



Number of sections	1	2	3	4	5	6	7	8	9	10	11	12	[nr]
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	[nr]
Machine length	4221	6051	7881	9711	11541	13371	15201	17031	18861	20691	22521	24351	[mm]

TECHNICAL DATA

SPINDLES

Gauge	261					305					366		
Spindle type	DT110N	DT132N	DT140N	NT150	NT180	NT150	NT180	NT200	NT220	NT220	NT240	NT260	
Spindles per section	14	14	14	14	14	12	12	12	12	10	10	10	[nr]
Max. no. of spindles	168	168	168	168	168	144	144	144	144	120	120	120	[nr]
Max. Mechanical speed	16000	14000	14000	12000	10000	12000	10000	10000	10000	10000	10000	10000	[rpm]
Max. Technological speed	15000	12000	12000	11000	10000	11000	10000	9000	8000	8000	7000	7000	[rpm]
Twist range	60-2770	60-2770	60-2770	60-2770	50-2320	60-2770	50-2320	40-1870	40-1870	40-1870	32-1520	32-1520	[tpm]
Count range	33-330	33-560	33-560	56-560	78-560	56-560	78-560	78-560	167-560	167-560	167-560	167-560	[drex]
Type of supply package	cops	cops	cops	bobbin	bobbin	bobbin	bobbin	bobbin	bobbin	bobbin	bobbin	bobbin	
Supply package max. diameter	110	130	140	145	175	145	175	195	215	215	235	255	[mm]
Supply package max length	380	460	460	230	290	230	290	290	290	290	290	290	[mm]

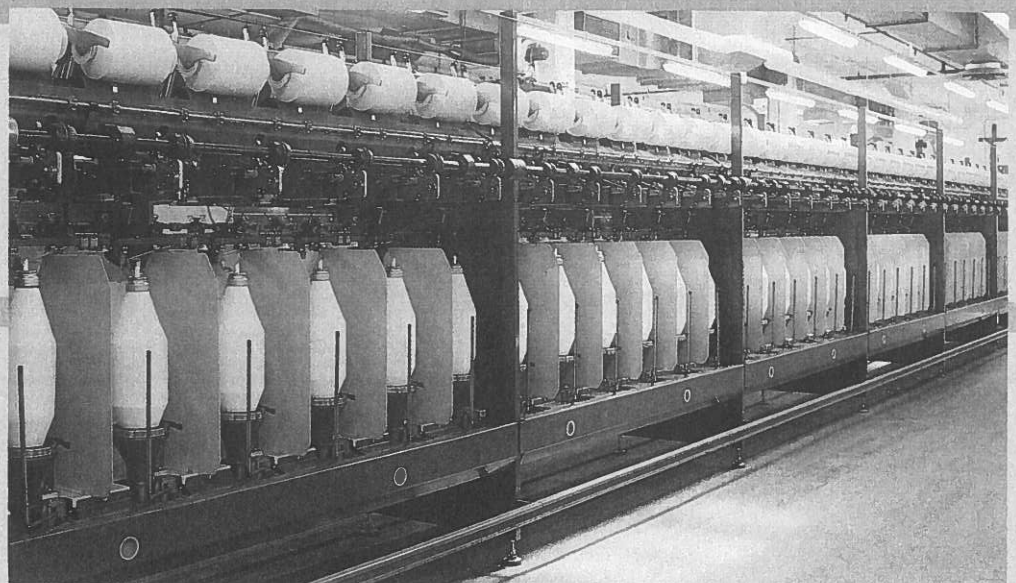
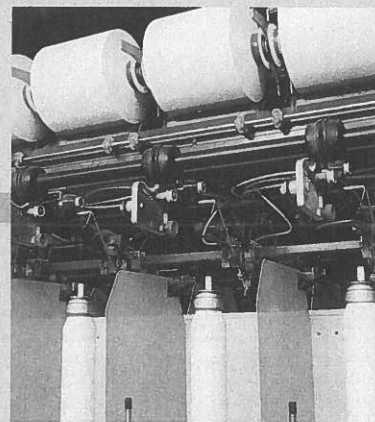
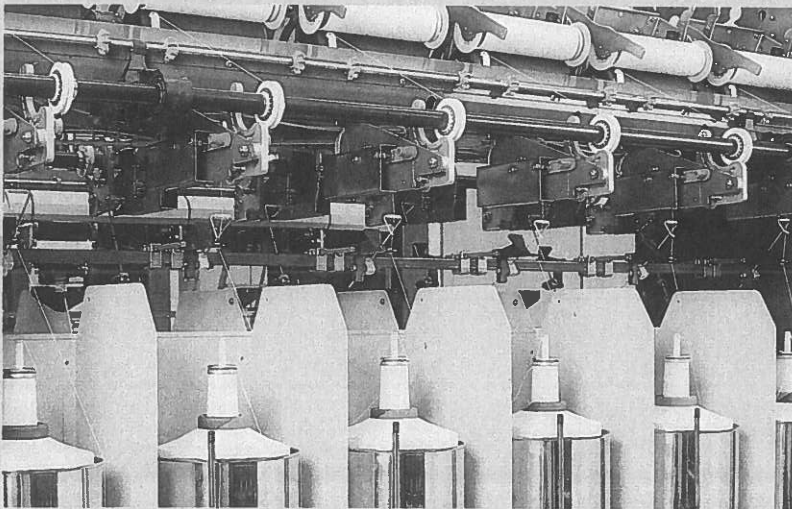
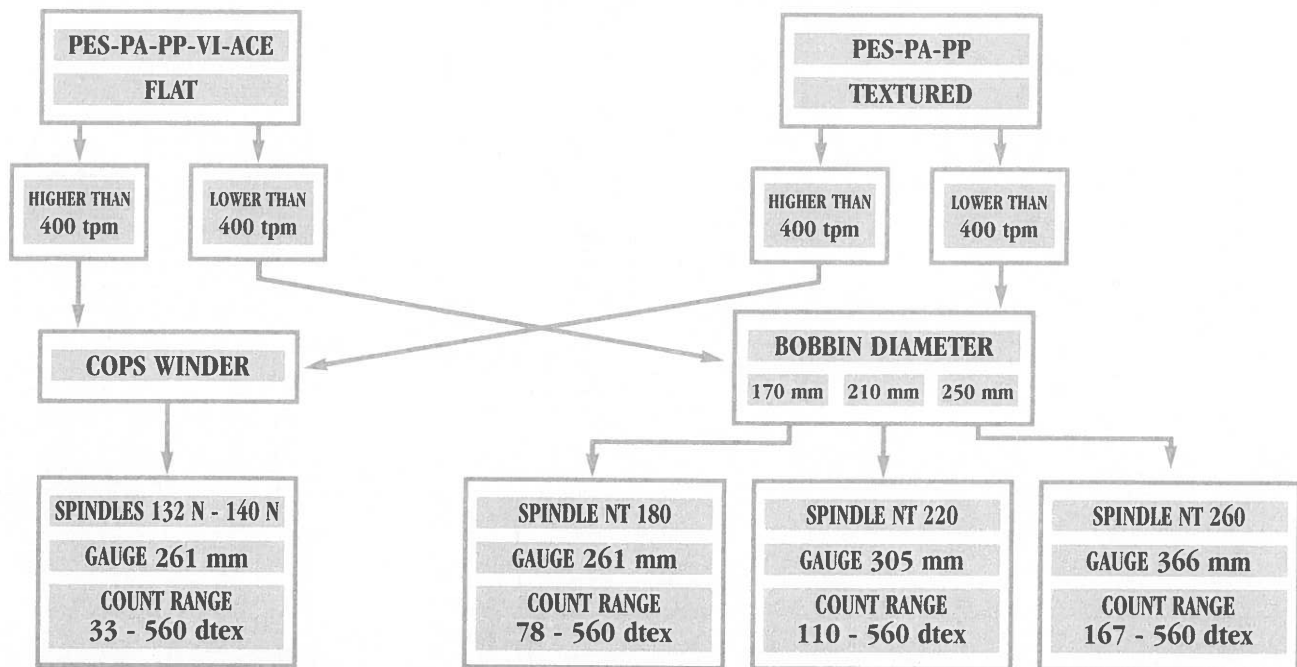
TAKE-UP

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

FRAME

Max. Number of sections	12	12	12	[nr]
Section length	1830	1830	1830	[mm]
Max. machine length	860	860	860	[mm]
Machine width	24351	24351	24351	[mm]
Machine height	1756	1756	1756	[mm]
Height at take-up	1414	1414	1414	[mm]
Max. installed motor power	22	22	22	[kW]
Max. weight, approx	5000	4750	4750	[kg]

WORKING PROCESS FLOW CHART



OPTIONALS

PNEUMATIC LIFTING OF TAKE-UP BOBBIN
AND YARN BREAKAGE SIGNAL LIGHT

YARN OILING DEVICE

INDIVIDUAL TAPERING

TAKE-UP BOBBIN WITH MODIFIED EDGE PROFILE

SOFT WINDING FOR DIRECT DYEING

INVERTERISED SPINDLES DRIVING MOTOR

ELECTRONIC CONTROL OF THE TPM LEVEL
AND DEVICE TO OVERCOME POSSIBLE POWER
FAILURE/POWER BLACK-OUT

R325 N

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