



**R641**

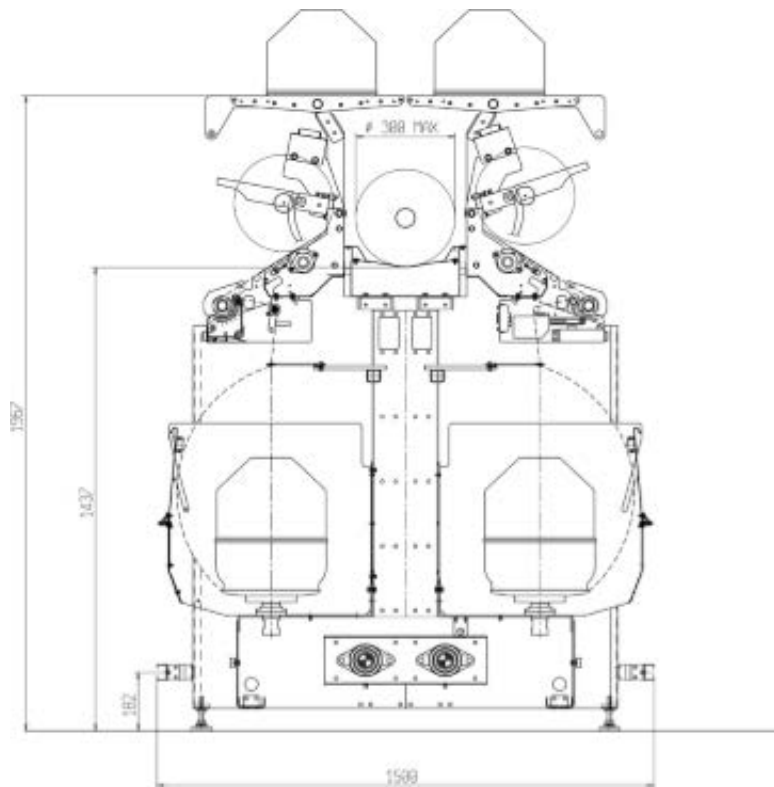
Leaders in twisting technology since 1869

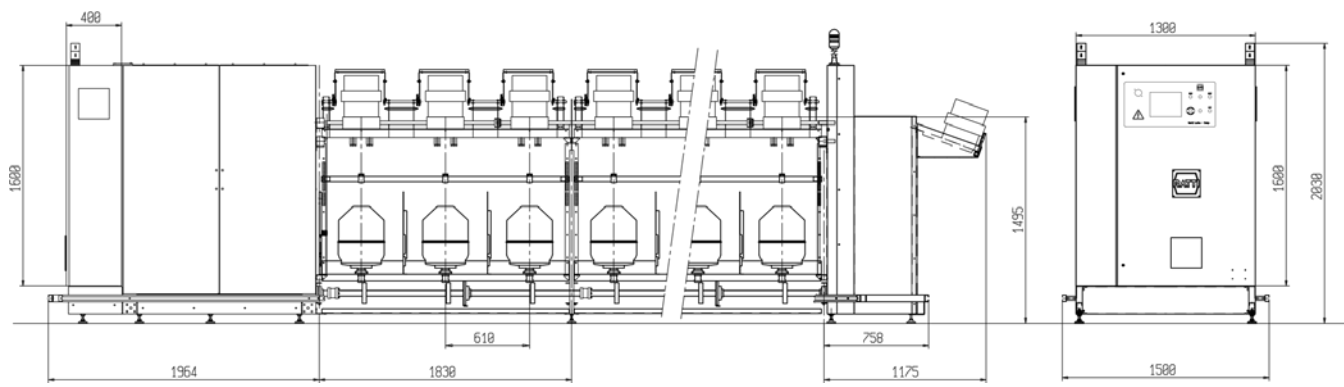
RATTI TWISTING MACHINERY  
INDUSTRIAL YARNS



## TWO-FOR-ONE TWISTING MACHINE FOR INDUSTRIAL YARNS

- Two-for-one twisting machine for the processing of industrial yarns and heavy counts.
- The R641 can be equipped with spindles model NT260, NT280 or NT280 pot 330.
- Machine equipped with new spindles driving system, by individual belt per each spindle.
- Machine equipped with a central belt conveyor to facilitate the unloading of the take-up package.
- Automatic/pneumatic spindle disengagement and take-up lifting in case of yarn breakage.
- Ballon area equipped with sturdy separators and swinging front door to facilitate the operations of loading of the supply package.
- Electronic twist setting.
- Inverterised overfeeder driving motor.
- Inverterised spindles driving motor.
- All moving parts are protected by adequate, easily removable covers for maintenance.
- Touch screen control panel for the monitoring of: spindles speed, take-up speed, yarn meter counter, working hours, "S" and "Z" twist.
- Machine built according to the last CE standards for quality and safety.





|                            |      |      |      |        |        |        |        |        |        |        |
|----------------------------|------|------|------|--------|--------|--------|--------|--------|--------|--------|
| <b>Number of sections</b>  | 1    | 2    | 3    | 4      | 5      | 6      | 7      | 8      | 9      | 10     |
| <b>Number of spindles</b>  | 6    | 12   | 18   | 24     | 30     | 36     | 42     | 48     | 54     | 60     |
| <b>Machine length (mm)</b> | 4970 | 6800 | 8630 | 10.460 | 12.290 | 14.120 | 15.950 | 17.780 | 19.610 | 21.440 |

## SPINDLES

## TECHNICAL DATA

|                                     |                        |        |                |      |
|-------------------------------------|------------------------|--------|----------------|------|
| Spindles type                       | NT 260                 | NT 280 | NT 280 pot 330 |      |
| Gauge                               | 610                    |        |                | mm   |
| Max. Number of spindles per section | 6                      |        |                |      |
| Max. Number of spindles             | 60                     |        |                |      |
| Count range                         | 235-12000              |        |                | Dtex |
| Twist range                         | 20-800                 |        |                | TPM  |
| Spindles control                    | Single belt controlled |        |                |      |

## SUPPLY PACKAGE

|                              |        |
|------------------------------|--------|
| Type of supply package       | bobbin |
| Supply package max. diameter | 300 mm |

## TAKE-UP

|                          |      |       |
|--------------------------|------|-------|
| Number of decks          | 1    |       |
| Traverse Gearbox         | UD-R |       |
| Maximum traverse         | 250  | mm    |
| Max. Mechanical speed    | 200  | m/min |
| Max. technological speed | 170  | m/min |

## FRAME

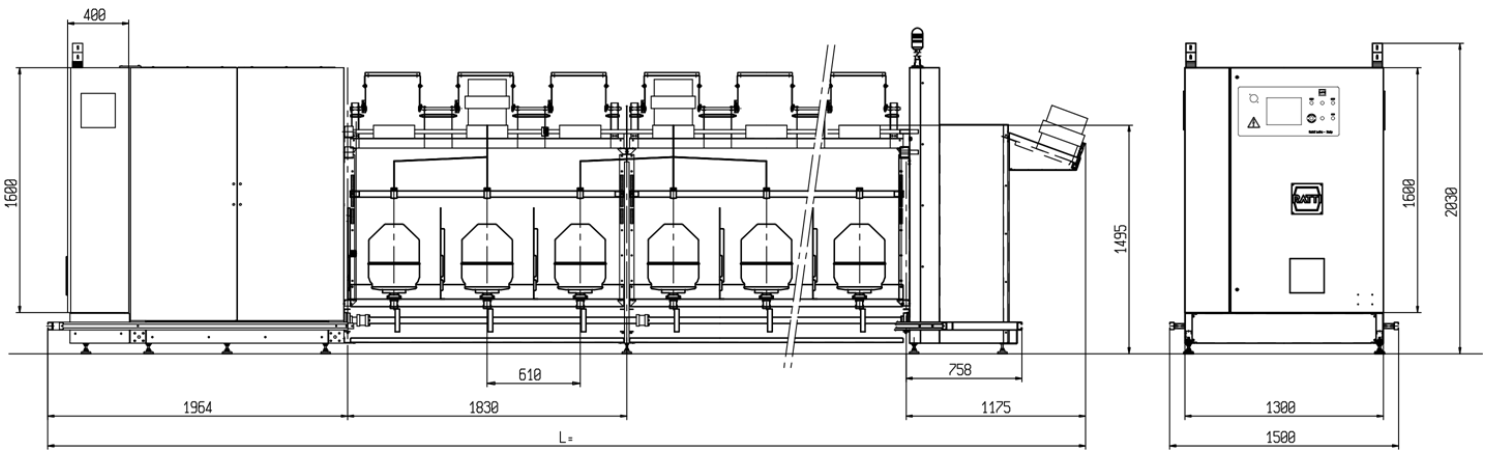
|                            |   |    |
|----------------------------|---|----|
| Max number of sections     | 10  |    |
| Section length             | 1830  | mm |
| Machine width              | 1500  | mm |
| Machine length             | $1964 + (1830 \times \text{No of sections}) + 1176$ | mm |
| Machine height             | 2150  | mm |
| Height of take-up          | 1495  | mm |
| Max. installed motor power | 30 ( 15 per each machine side)                      | kW |

## MACHINE MODEL R641 CU1 CU2: TECHNICAL DATA

- The new machine model R 641 CU1 – CU2 is suitable for sewing thread (more plies) industrial yarn production, with counts from 235 dtex to 12,000 dtex.
- Machine has the two sides independently driven (side CU1 – side CU2).
- for each machine side there are n°1 spindle motor, n°1 motor for Take up, n°1 motor for overfeeders, n°1 Traverse gear box.
- From the Machine panel it's possible to set n°2 different working recipes for one per each side of the machine.
- With CU1-CU2 mode, machine can be supplied with a different number of spindles for each side. the CU1 machine side can be equipped with more spindles compared to CU2 side, according to customers production requirements.
- Onto the CU1 side, as take up can be used a tube or a flanged bobbin (depending by the yarn type/customer requirements).
- A selector switch allows to pre-set the sensors and cutters working scheme, according to the plies under processing (2, 3 or 4), while a centralized meter counter allows the formation of metered packages.
- The traverse gear box is mechanical and centralized for each side, with RATTI cam in oil bath.
- Machine can be equipped with model spindles: NT260, NT280 and NT280 with 330 pot (for supply packages with diameter upto 300 mm)
- Each position is equipped with ON/OFF selector to engage/disengage the spindle. In case of yarn breakage and take up will disengaged automatically.
- R 641 machine can be supplied in "CONVERTIBLE" version with the possibility to use it as standard TFO for a single yarn, and for CU1 –CU2 sewing thread yarn production.



## MACHINE MODEL R641 CU1 CU2: TECHNICAL DATA



### TECHNICAL DATA

#### SPINDLES

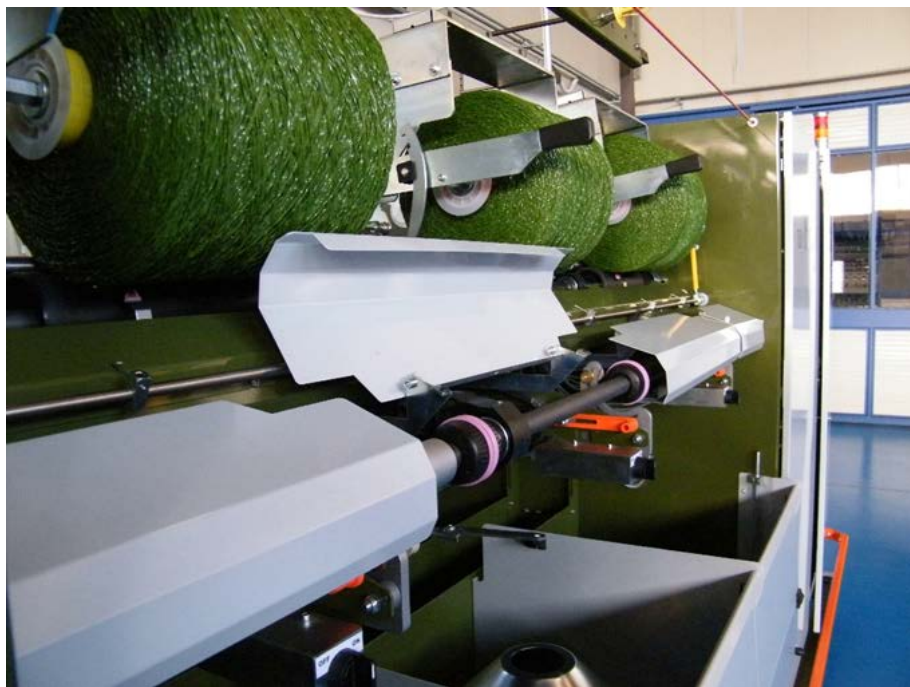
| Spindles type                       | NT 260 | NT 280                 | NT 280 pot 330 |      |
|-------------------------------------|--------|------------------------|----------------|------|
| Gauge                               |        | 610                    |                | mm   |
| Max. Number of spindles per section |        | 6                      |                |      |
| Max. Number of spindles             |        | 60                     |                |      |
| Count range                         |        | 235-12000              |                | Dtex |
| Twist range                         |        | 20-800                 |                | TPM  |
| Spindles control                    |        | Single belt controlled |                |      |

#### TAKE-UP

|                          |                        |       |
|--------------------------|------------------------|-------|
| Number of decks          | 1                      | nr    |
| Gearbox                  | UD                     |       |
| Number of plies          | 2,3,4                  | nr    |
| Take-up type             | TUBE OR FLANGED BOBBIN |       |
| Diameter max.            | 300                    | mm    |
| Traverse                 | 250                    | mm    |
| Max. technological speed | 50                     | m/min |

#### FRAME

|                            |       |    |
|----------------------------|-------|----|
| Max. number of sections    | 10    | nr |
| Section length             | 4970  | mm |
| Max. machine length        | 21440 | mm |
| Machine width              | 1500  | mm |
| Machine height             | 2150  | mm |
| Max. installed motor power | 30    | kW |
| Max. weight. approx        | 7000  | Kg |



#### OPTIONALS

- PNEUMATIC THREADING OF YARN IN THE SPINDLE
- MACHINE EQUIPPED WITH A CENTRAL BELT CONVEYOR TO FACILITATE THE TAKE-UP BOBBIN UNLOADING
- MACHINE CAN BE TAILORED ACCORDING TO CUSTOMER REQUIREMENTS

**TAILOR MADE MACHINES  
'cause your needs is our job!**



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