



BVE-R

OMM MACHINERY
ELECTRONIC SPOOLING MACHINE



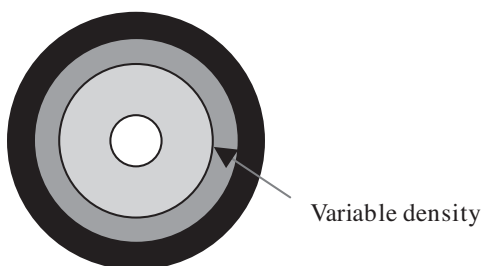
made in **Italy**

ELECTRONIC SPOOLING MACHINE

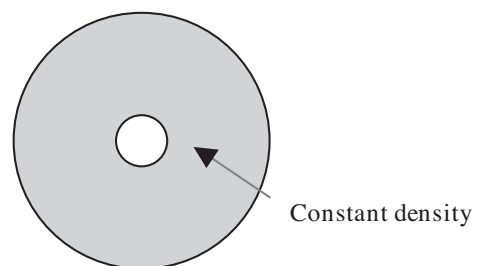
Electronic winding machine for flanged spools.

- The BVE-R machine is equipped with a highly sophisticated and reliable electronic traverse, with integrated lip motion device and anti-mirror device, in order to allow very precise bobbins formation.
- Electronic control of the spindles speed, with two working methods:
 - spools formation with constant density, achieved through a progressive reduction of spindles speed in relation with the spools filling.
 - spools formation with constant spindles speed.
- The BVE-R machine is equipped with special spindles model HD, designed specifically for high vibration-free rotation speed.
The spools are fitted on the spindles through bayonet caps, thus allowing the use of a wide range of spools.
- Individual spindle stopping system, with fixed support and drive belt disengagement.
- Adjustable thread tensioner, located between the anti-balloon guide and the thread guide.
- The BVE-R machine ensures the use of a wide range of different yarns (Polyester, Polyamide, Viscose, Cotton, Polypropylene) and counts, with either one or more ends.

TRADITIONAL TAKE-UP WITH CONSTANT SPINDLE SPEED



ELECTRONIC TAKE-UP SPEED WITH VARIABLE SPINDLE



The traditional take-up with constant spindles speed produces bobbins with uneven density (low at the beginning and high at the end), creating the so called “soft core” effect: to the progressive filling of the spools corresponds an exponential increasing of the yarn tension.

The soft core effect is one of the main causes of the unwinding and yarn breakage problem in the covering process.

The BVE-R machine, thanks to the variable spindles speed electronically controlled, definitively ensures the formation of the perfect spool, with yarn at perfectly constant density.



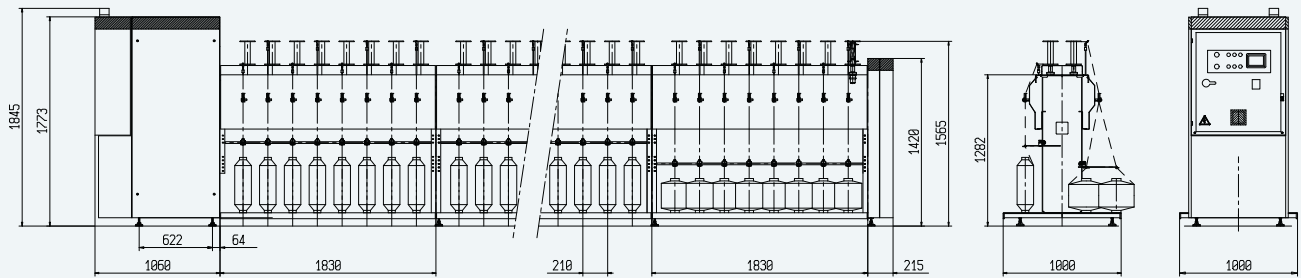
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RATTI Luino S.r.l.

Via Provinciale, 309 - 21030 Cassano Valcuvia (VA) - Italy
Phone: +39 0332 538.411 - Fax +39 0332 530.988
info@rattiluino.com - www.rattiluino.com





| | | | | | |
|---------------------|-------|-------|-------|-------|--------|
| Number of sections | 1 | 2 | 3 | 4 | 5 |
| Number of spindles | 16 | 32 | 48 | 64 | 80 |
| Machine length [mm] | 3.105 | 4.935 | 6.765 | 8.595 | 10.425 |

BVE-R: TECHNICAL DATA

MAIN FEATURES

| | | |
|--|---------------------------------|-------|
| Spindles number | From 16 to 80 | nr |
| Spindles adapter (caps) for spool with inner hole of | 30-48 | mm |
| Spindle type | OMM HD (pulley 32 mm) | |
| Max. dimension of operable spool | 165 (traverse) x 116 (flange Ø) | mm |
| Spindle gauge | 210 | mm |
| Spindles speed | Electronic control (INVERTER) | |
| Spindles drive | Tangential belt | |
| Working speed range | 500-1200 | m/min |
| Traverse system device | Electronic control | |
| Soft edges device | Electronic control | |
| Anti-mirror device | Electronic control | |
| Supply package max. diameter | 300 | mm |
| Drive motor: max. installed power/poles | 1 x 3 kW – 4 poles | kW-n° |

FRAME

| | | |
|----------------------|--|----|
| Number of sections | from 1 to 5 | nr |
| Section length | 1.830 | mm |
| Machine total length | $(1.830 \times n^\circ \text{ of sections}) + 1.060 + 215$ | mm |
| Overall height | 1.845 | mm |
| Overall width | 1.000 | mm |
| Machine weight | From 1.000 to 2.000 | kg |

OPTIONAL

Individual meter counter with cutter

The individual meter counter with cutter allows two advanced working modes:



INDIVIDUAL, with constant spindles speed: it allows to use no-empty spools, thus to recycle the wasted yarn avoiding the spools cleaning operations, saving time, personnel and raw material. When a spool is full, the cutter automatically stops the winding process. On each position, individually programmable, is possible to replace a spool already full with an empty one, without stopping the machine.

CENTRALISED, with constant density: it allows to produce spools with perfect even density and exactly with the same meters of yarn, however always starting from completely empty spools. This working method allows to clear out all the spools at the same time during the covering process, thus meaning a great improvement of the process efficiency.

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