

MOD. VA-2

ELECTRONIC CONE WINDING MACHINE

For **continuous bulking** and **shrinkage**



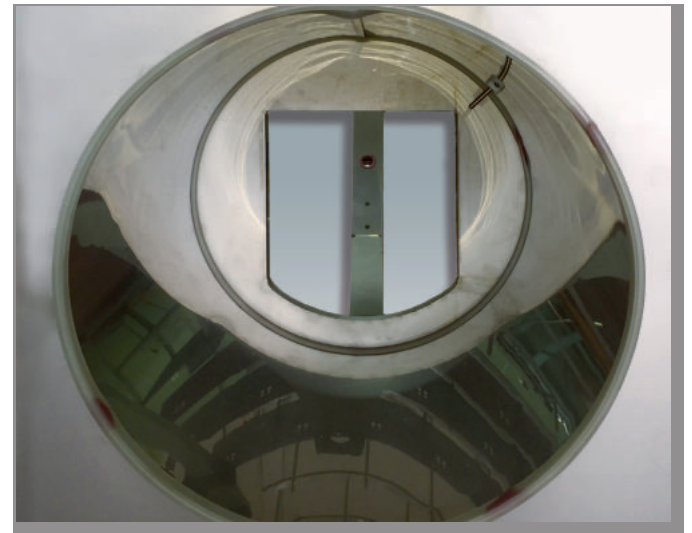
VA-2 DESCRIPTION

Designed for continuous bulking and shrinkage of acrylic yarns, high bulk blends, elastomers and pre-dyed yarns.

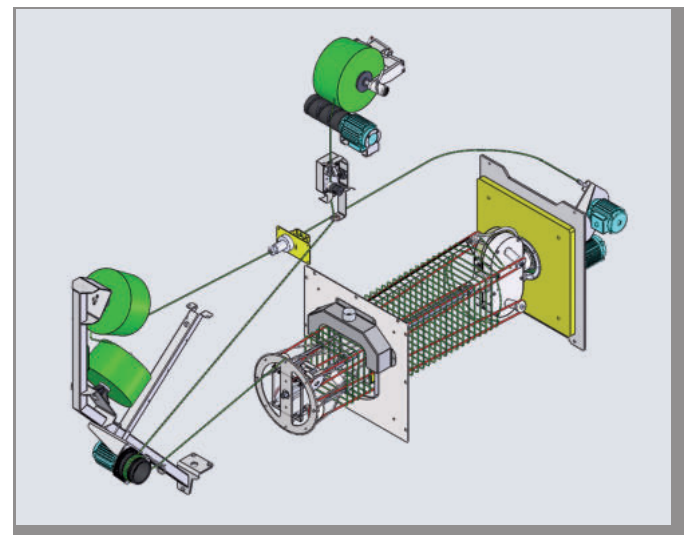
Exit packages can be produced with even density and accurate measured length, for use in dyeing operations or waxed for knitting purposes, or any other subsequent application.



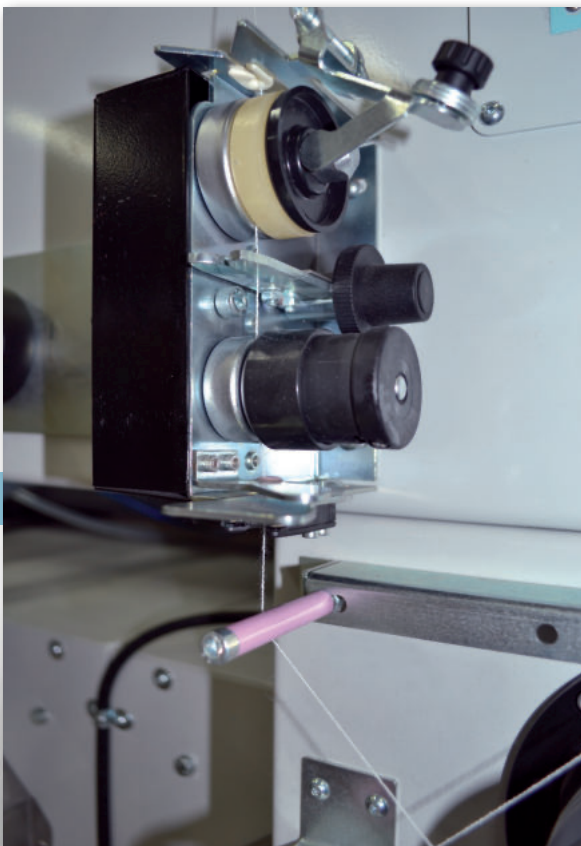
- **Programmable take-up speed** from 250 to 900 mpm
- **Dwell time of the yarn** inside the heating chamber ranges from 20 to 60 seconds, programmable with the winding speed
- Maximum **temperature** of the **heating chamber** 160° C
- **Individual stainless steel spindle chambers**, heated by electric resistance
- **Count range:**
from Nm 5 to Nm 60 - traverse 6 inch (152 mm) take-up
from Nm 2 to Nm 60 - traverse 8 inch (200 mm) take-up
- **Shrinkage ratio** from 0% to 30%
- Easy to optimize the working parameters, such as the dwell time into the heating chamber or the temperature of the oven, giving a minimum residual retraction.



Inner part of the **heating chamber**



Cross section of yarn path



- Self-cleaning motorized yarn tensioner
- Optical yarn detection sensor
- Micrometric slub catcher (optional)
- **Counter rotating driven waxing device** for wax disc with square hole



1



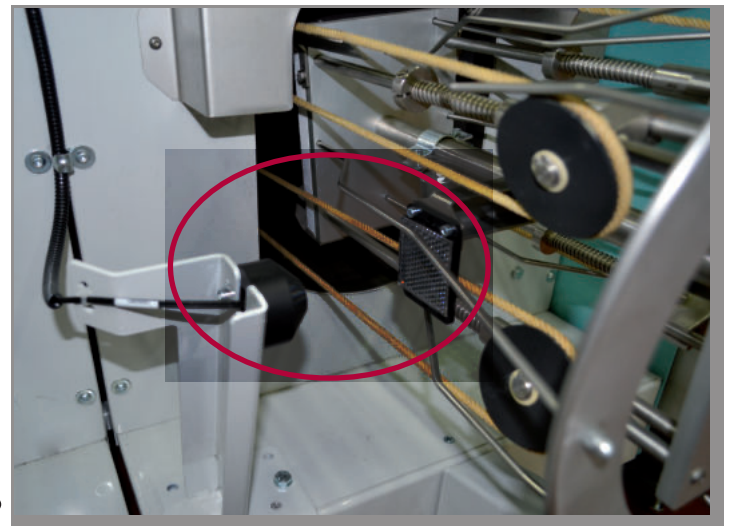
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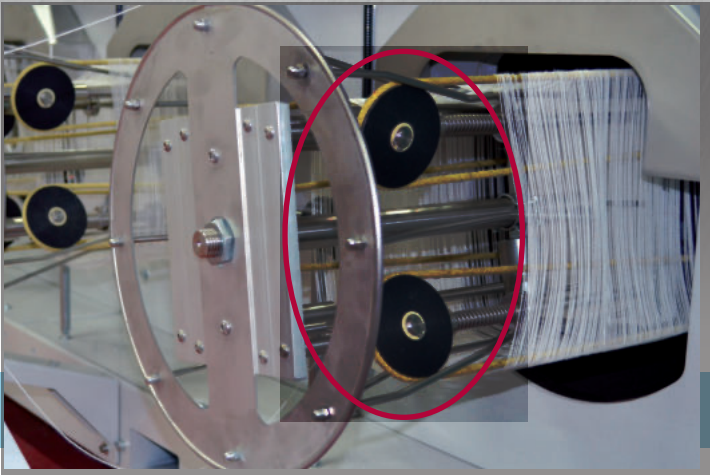
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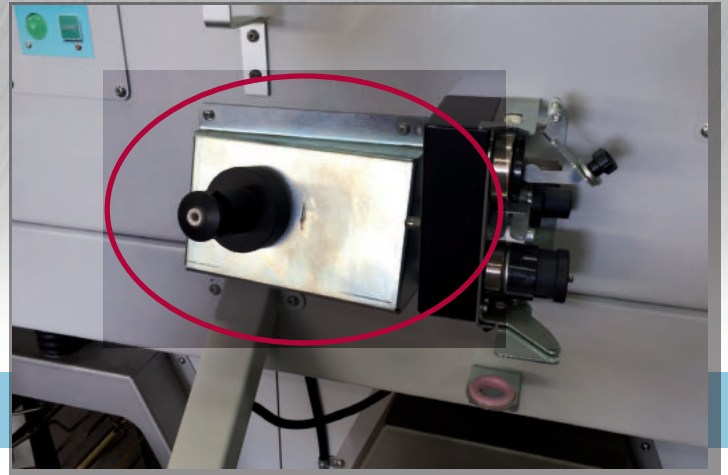
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DESCRIPTION OF THE PACKAGE FORMATION

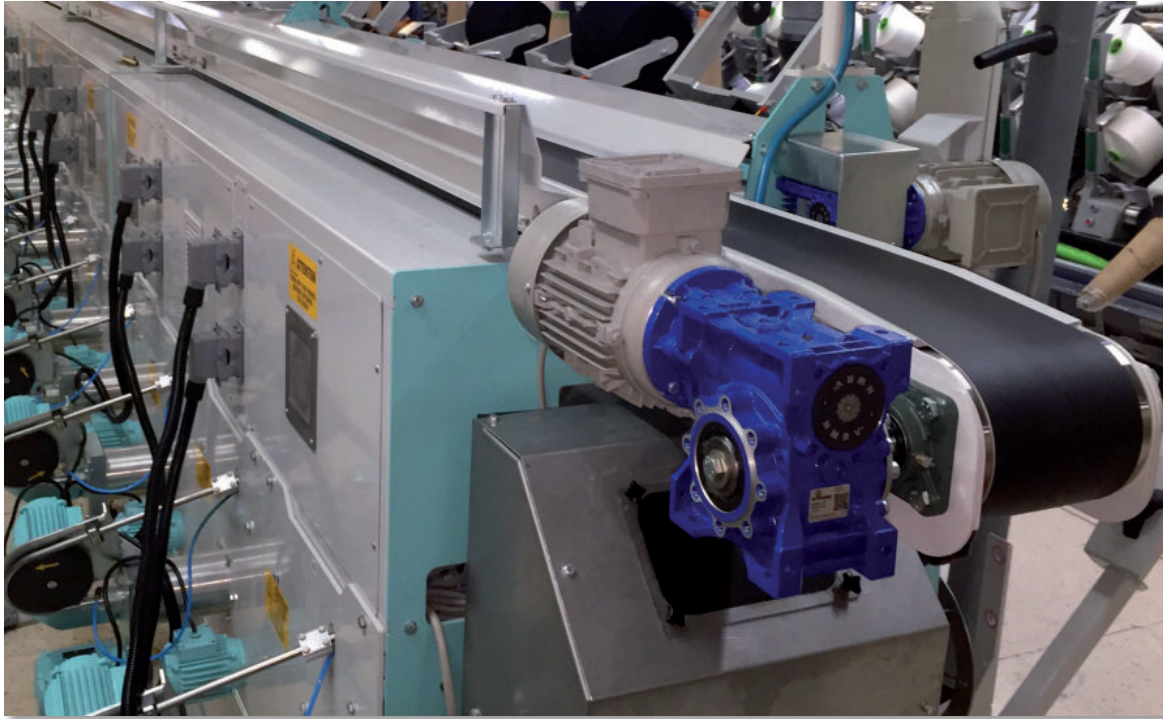
- 1 **Traverse 6 inch** (152 mm) - conicity 4°20' / 5°57'
- 2 **Traverse 6 inch** (152 mm) - biko type for dyeing
- 3 **Electronic yarn feeder** with adjustable overfeeding from 1% to 50% to reduce and keep the yarn's tension even at the oven exit
- 4 **Gas controlled arm pressure** to accurately control the package density, tailstock with spring for axial compensation
- 5 **Optical fibres yarn detection sensor** at the coiler's end



1



2



3

1
Independent
pulleys with self
compensation

2
**Pneumatic
threading of yarn
to the coiler**

3
Cones conveyor
belt



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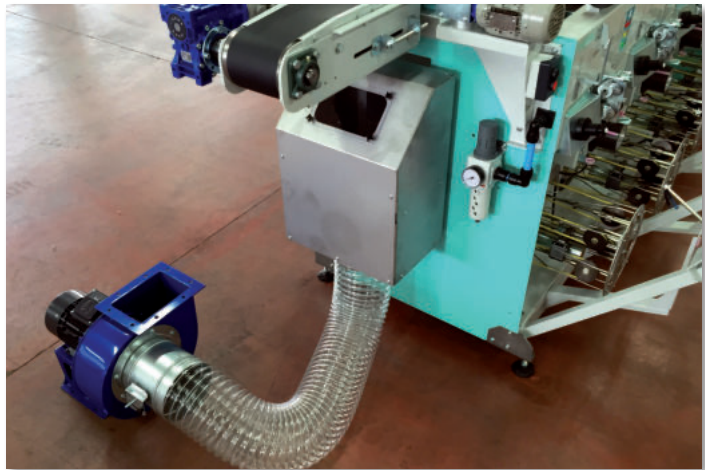
DESCRIPTION OF THE AUXILIARY MOTORS



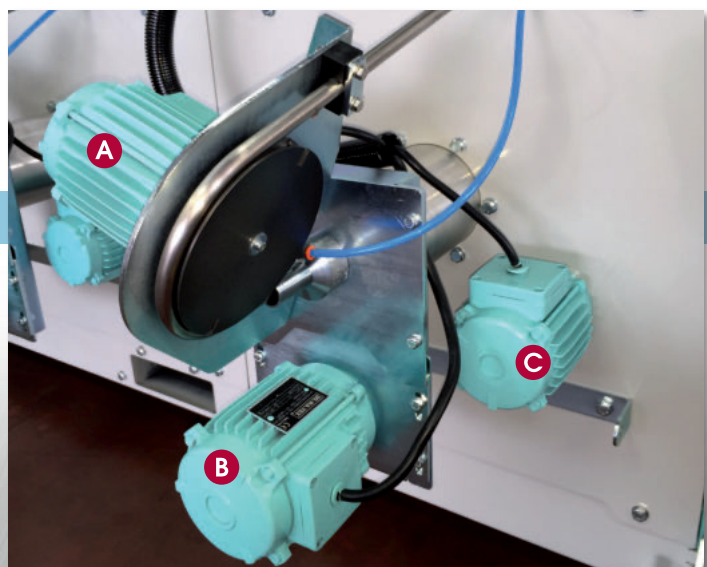
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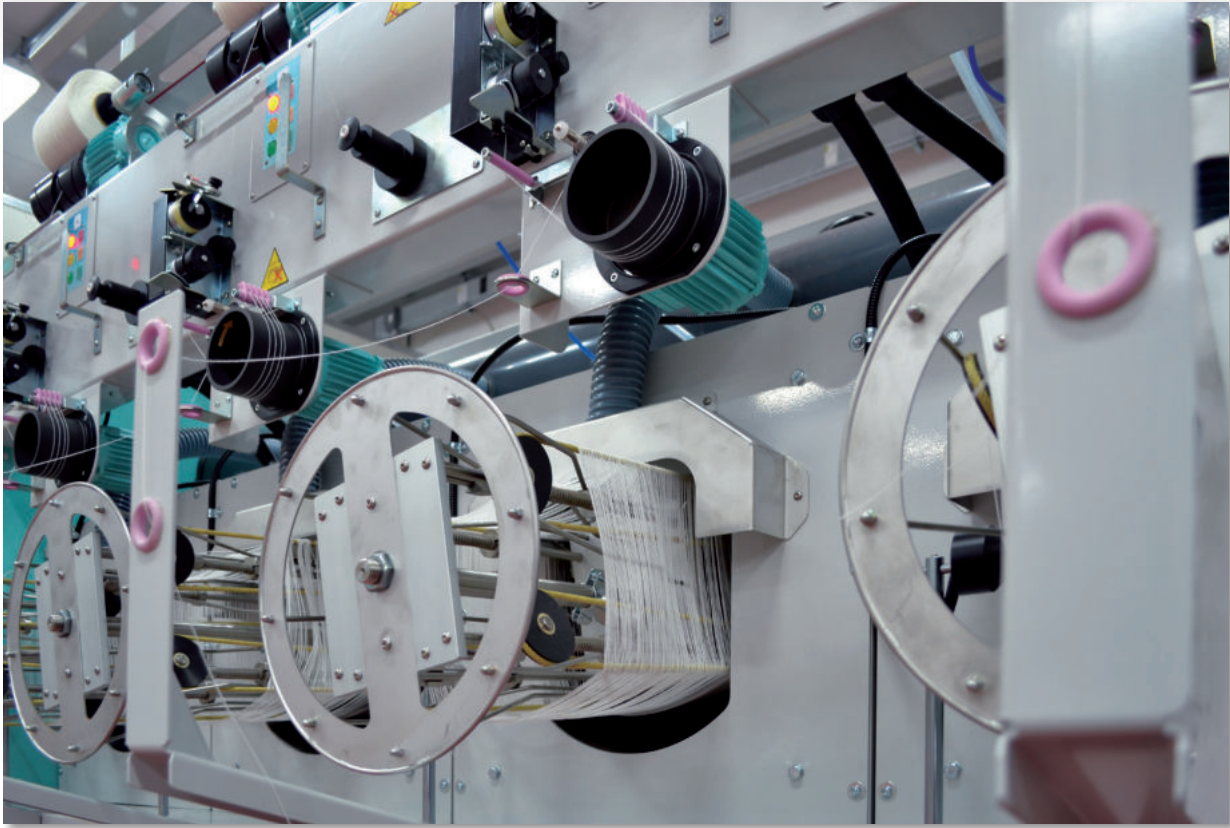
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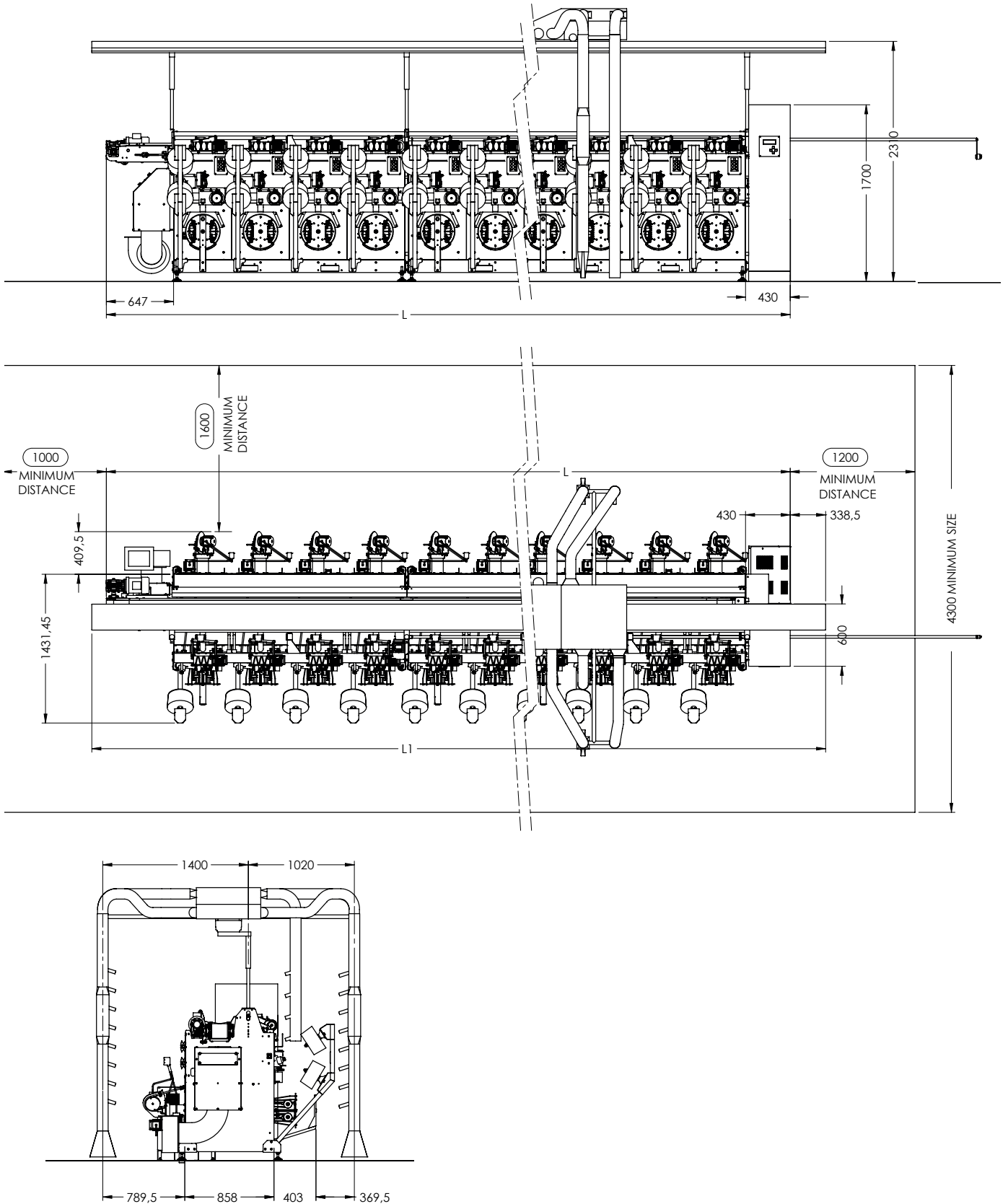
- 1 Feeding creel with **top and tail system**
- 2 **Trolley** for the coiler's removal
- 3 **Fume evacuation** with dust filter

- A** **Motor of the overfeeder** at take-up, with adjustment percentage from +1% to +50%
- B** **Coiler's motor**
- C** **Motor of the fan** for the ventilation of the heating chamber

DETAILS OF THE FRONT AND BACK VIEW OF THE BULKING AND SHRINKAGE WINDER



VA-2 with Electro-Jet trolley blower with discharge on the sleeves



Number of heads	4 heads	8 heads	12 heads	16 heads	20 heads	24 heads	28 heads	32 heads	36 heads	40 heads	44 heads	48 heads
Length L (mm)	3304	5562	7820	10078	12336	14594	16852	19110	21368	23626	25884	28142
Length L1 (mm)	3900	6200	8400	10700	12900	15200	17500	19700	22000	24200	26500	28700
Machine weights (Kg)	1350	2425	3500	4575	5650	6725	7800	8875	9950	11025	12100	13175
Power installed (Kw)	8.46	16.02	25.58	31.94	42.7	51.26	59.82	68.38	76.94	85.5	94.06	102.62