

# PRODUCTION line



... MADE IN ITALY, THAT IS THE DIFFERENCE!

**BE.MA.TEX**

Biella ITALY

[www.bematex-new.com](http://www.bematex-new.com)



Since 1978 **BE.MA.TEX** has played a predominant role in the trade of second-hand machinery worldwide. Thanks to our experience, since 2010 we have our own manufacturing of new textile machines, proudly **Made in Italy**.



**BE.MA.TEX's** ambition comes from the mix of trust in their own skills and the strong belief in the potential of the authentic **Made in Italy**.



# EXPERIENCE AND INNOVATION

Growing up since 1978



All customers can immediately become aware of the performance granted by our machines in terms of **speed, reliability, ease of use** and **reduced maintenance costs**.



# MOD. BU

## ELECTRONIC CONE WINDING MACHINE WITH GROOVED DRUM

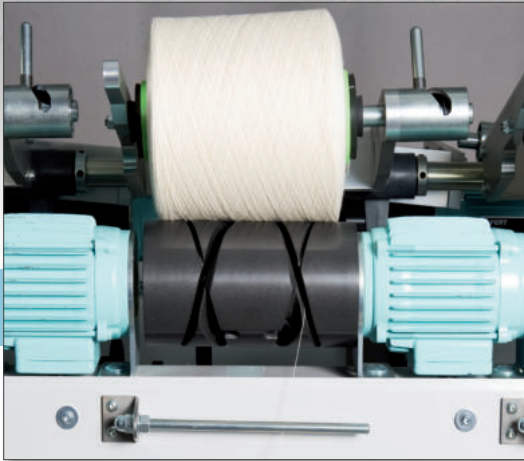
Designed to **prepare dyeing packages**, with **yarn overfeeding**, **axial movement** and **electronic meter counter**



### TECHNICAL DATA

- **Electronic yarn feeder with adjustable yarn overfeeding**
- **Axial movement**
- **Vertical threading**
- Machine configuration up to **96 spindles**, with programmable control unit with digital display, showing production and machine operational data
- The BU winder can simultaneously run at **two different speeds** and with **two different lots of yarn** (optional)
- High precision electronic meter counter with setting up to 6 different groups simultaneously





1



2

1/2

**Gas controlled arm pressure (6 and 8 inch)** to accurately control the package density and tailstock with spring for axial compensation



3



4

3

**Electronic yarn feeder** with yarn overfeeding (+1% - +50%) adjustable from the programmable control unit. Possibility to run the BU winder with two different overfeed levels

- Self-cleaning motorized **yarn tensioner**
- **Optical yarn** detection sensor
- Micrometric **slub catcher** (optional)
- Counter rotating motorized **waxing device** (optional)

4

**Programmable control unit** with digital display showing production and machine operational data

- **Electronic anti patterning system** programmable by the control panel
- Individual AC coaxial motor per spindle run by inverter
- Start/stop button
- Under machine creel with universal bobbin holder
- Overhead package holder
- Upon request, the BU winder can be supplied with **Electro-Jet overhead trolley blower**, **Mesdan ATS splicer**



# MOD. BU 6 inch (152 mm)

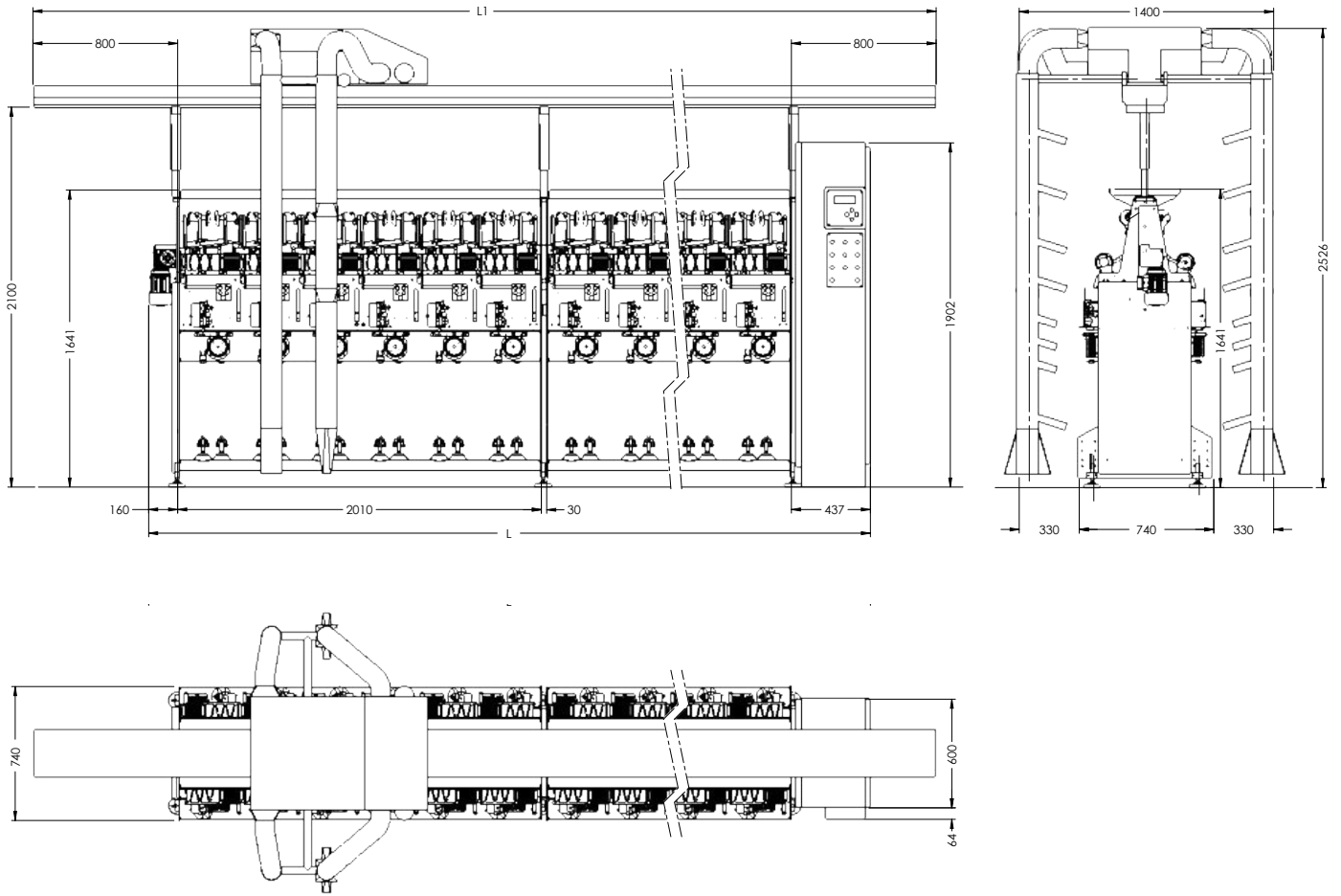
## TECHNICAL DATA

<b>Machine configuration BU - 6 inch (152 mm)</b>	from 6 up to 60 spindles, single sided (6 spindles per unit) from 12 up to 96 spindles, double sided (12 spindles per unit)
<b>Yarn traverse</b>	6 inch (152 mm)
<b>Conicity</b>	0°00' - 4°20' - 5°57' - interlocking bobbins and Biko-press dyeing tubes
<b>Package's diameter</b>	up to 290 mm
<b>Feeding package's diameter</b>	up to 300 mm
<b>Motorization</b>	individual AC coaxial motor per spindle
<b>Voltage supply</b>	400V 3phase - 50/60Hz
<b>Power installed</b>	0,09 Kw per spindle. Total absorption per spindle when equipped with yarn overfeeding system 0,18 Kw
<b>Take-up speed</b>	from 250 to 1200 m/min
<b>Grooved drums available</b>	<p>Ø 82 mm, 2 turns constant pitch, crossover angle 21°</p> <p>Ø 82 mm, 2,5 turns constant pitch, crossover angle 17°</p> <p>Ø 95 mm, 2 turns constant pitch, crossover angle 20°</p> <p>Ø 95 mm, 1,5 turns constant pitch, crossover angle 24°</p> <p>Ø 126 mm, 1,5 turns constant pitch, crossover angle 19°</p>

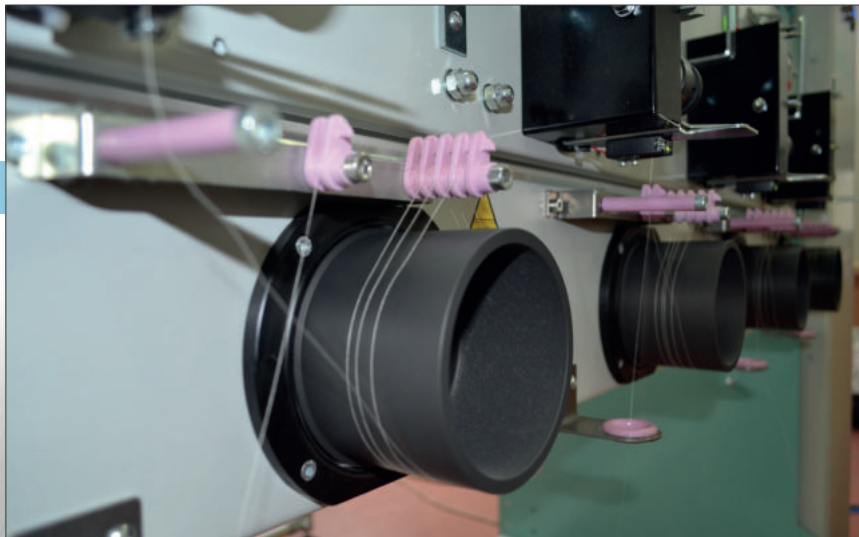




**BU 6 inch (152 mm) double sided configuration with overhead trolley blower**

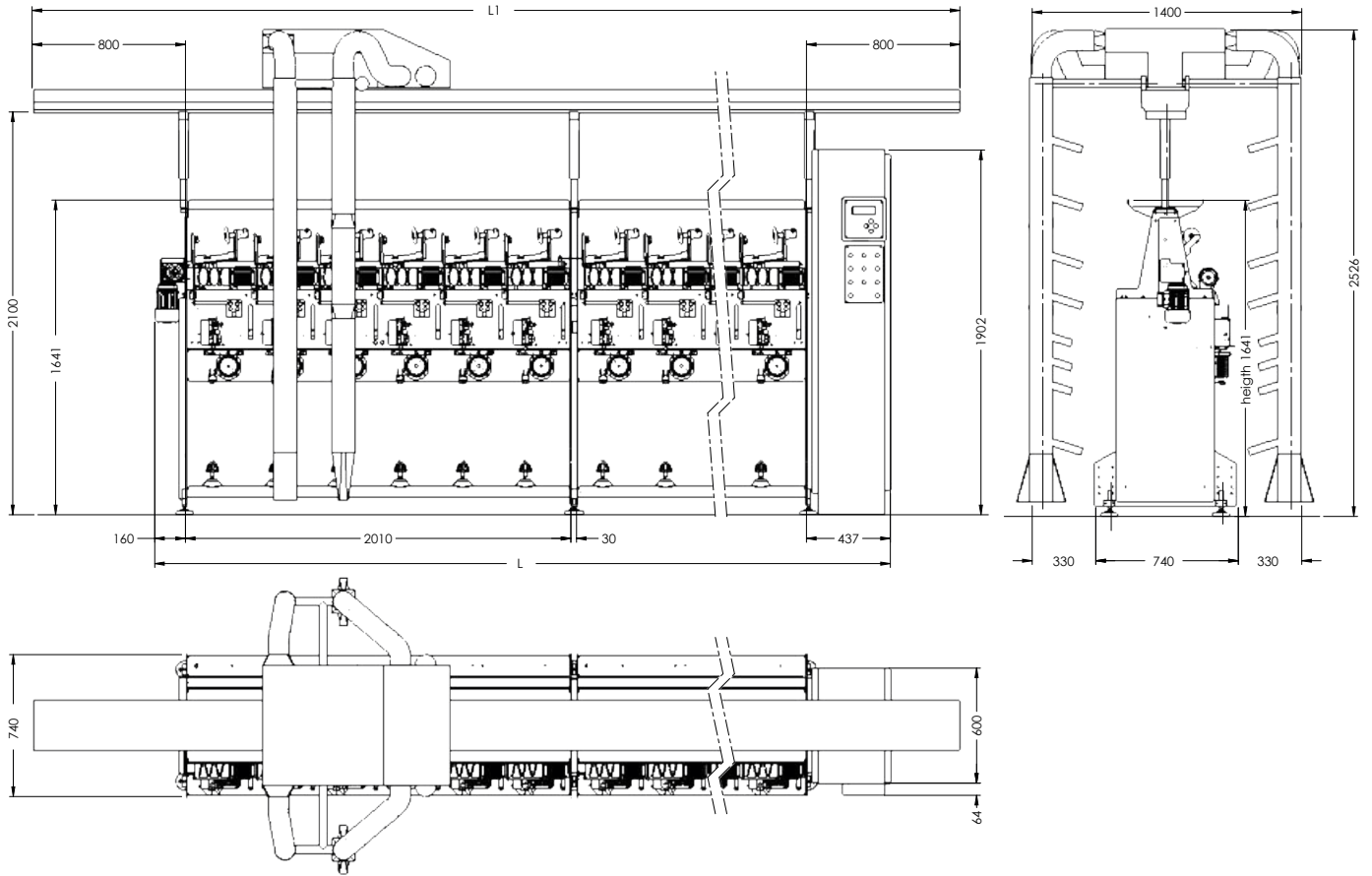


Number of heads	12 heads	24 heads	36 heads	48 heads	60 heads	72 heads	84 heads	96 heads
Length L (mm)	2605	4645	6685	8725	10765	12805	14845	16885
Length L1 (mm)	3610	5650	7690	9730	11770	13810	15850	17890
Machine weights (Kg)	725	1190	1655	2120	2585	3050	3515	3980
Power installed (Kw)	5.04	7.2	9.36	11.52	13.68	15.84	18	20.16





## BU 6 inch (152 mm) single sided configuration with overhead trolley blower



Number of heads	6 heads	12 heads	18 heads	24 heads	30 heads	36 heads	42 heads	48 heads	54 heads	60 heads
Length L (mm)	2605	4645	6685	8725	10765	12805	14845	16885	18925	20965
Length L1 (mm)	3610	5650	7690	9730	11770	13810	15850	17890	19930	21970
Machine weights (Kg)	585	910	1235	1560	1885	2210	2535	2860	3185	3510
Power installed (Kw)	3.96	5.04	6.12	7.2	8.28	9.36	10.44	11.52	12.6	13.68

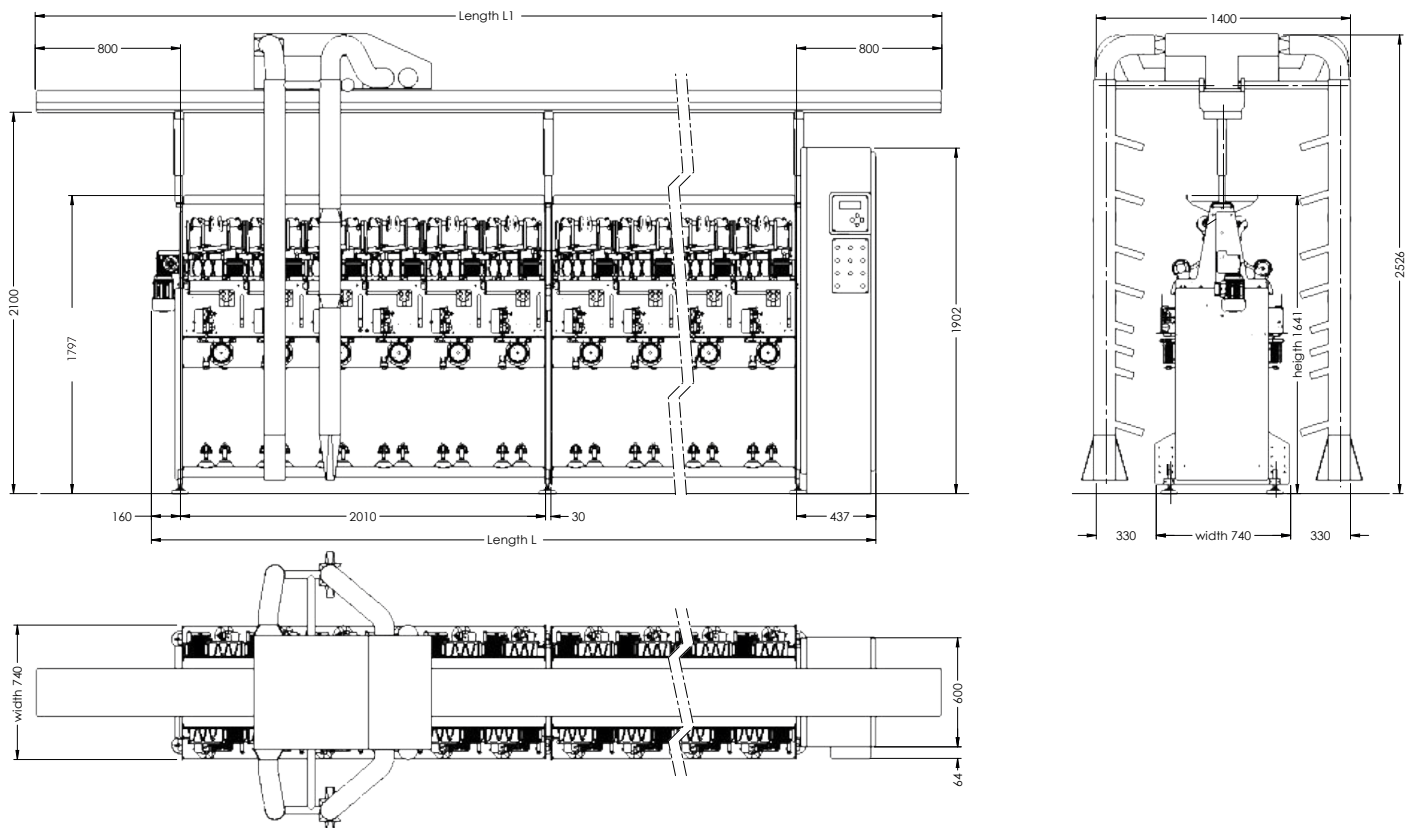




# MOD. BU-200 8 inch (200 mm)

<b>Machine configuration BU - 8 inch (200 mm)</b>	from 6 up to 60 spindles, single sided (6 spindles per unit) from 12 up to 96 spindles, double sided (12 spindles per unit)
<b>Yarn traverse</b>	8 inch (200 mm)
<b>Conicity</b>	0°00' - 4°20' - 5°57' - interlocking bobbins and Biko-press dyeing tubes
<b>Package's diameter</b>	up to 290 mm
<b>Feeding package's diameter</b>	up to 300 mm
<b>Motorization</b>	individual AC coaxial motor per spindle
<b>Voltage supply</b>	400V 3phase - 50/60Hz
<b>Power installed</b>	0,12 Kw per spindle. Total absorption per spindle when equipped with yarn overfeeding system 0,21 Kw
<b>Take-up speed</b>	from 250 to 900 m/min
<b>Grooved drums available</b>	Ø 90 mm, 2,5 turns constant pitch Ø 90 mm, 3 turns constant pitch

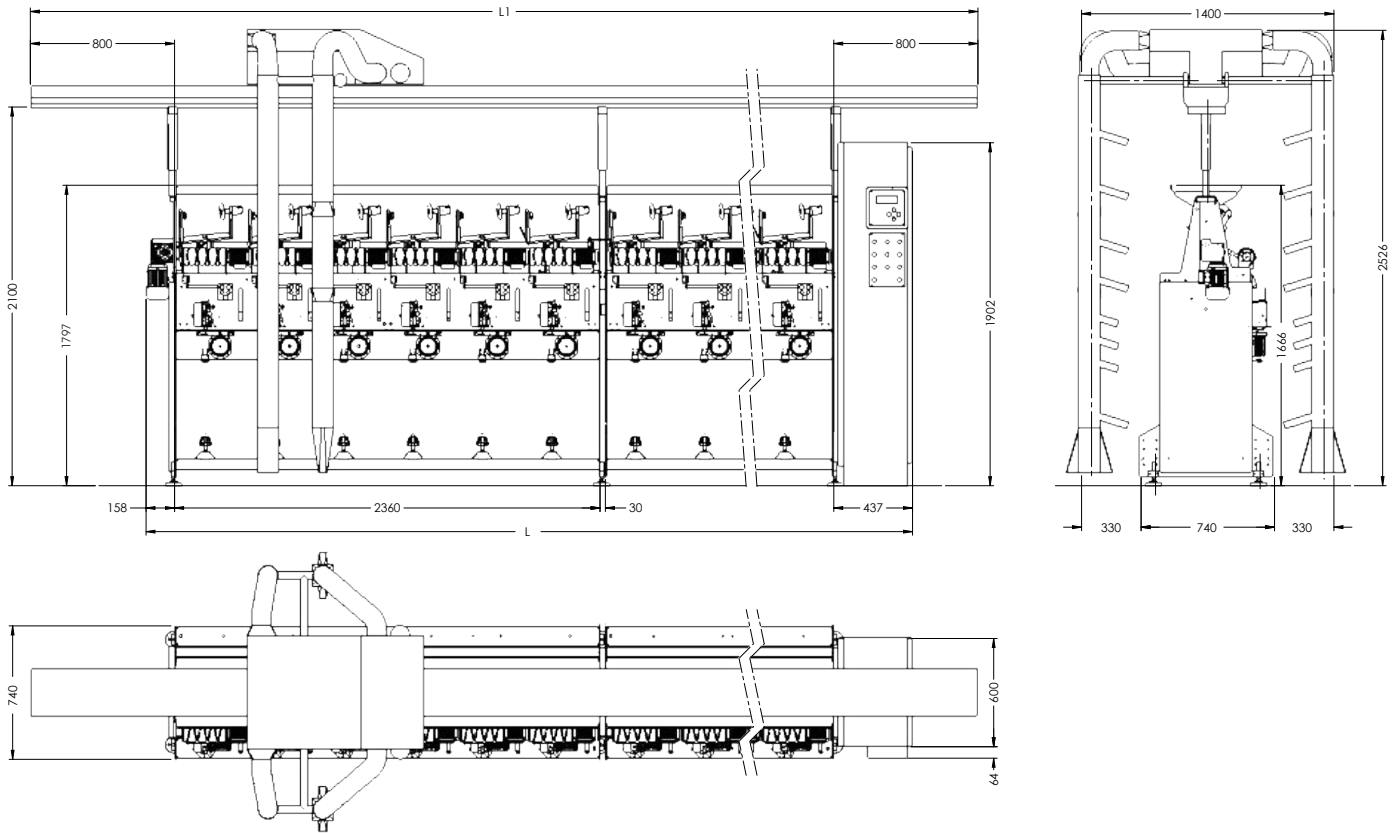
## BU-200 8" (200 mm) double sided configuration with overhead trolley blower



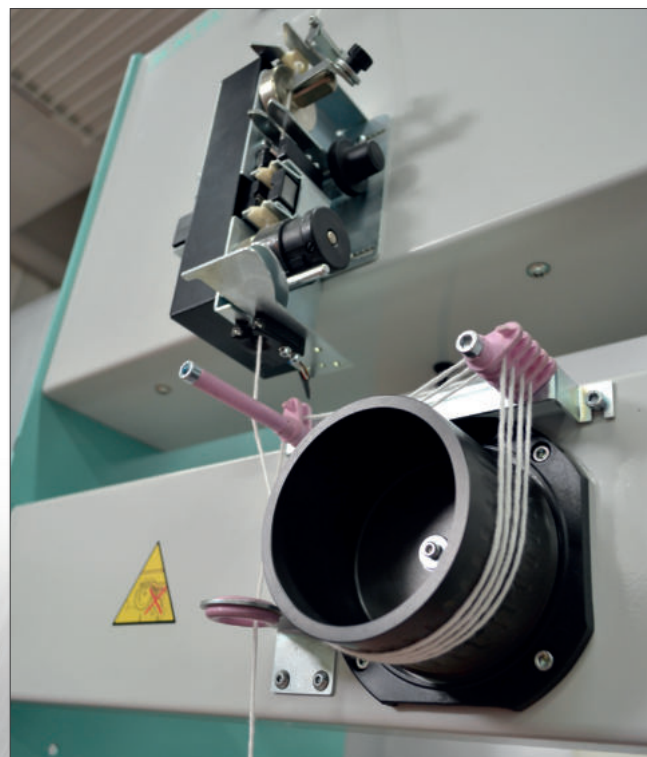
Number of heads	12 heads	24 heads	36 heads	48 heads	60 heads
Length L (mm)	2955	5345	7735	10125	12515
Length L1 (mm)	3960	6350	8740	11130	13520
Machine weights (Kg)	774	1288	1802	2316	2830
Power installed (Kw)	5.04	7.2	9.36	11.52	13.68



## BU-200 8 inch (200 mm) single sided configuration with overhead trolley blower



Number of heads	6 heads	12 heads	18 heads	24 heads	30 heads	36 heads	42 heads	48 heads	54 heads	60 heads
Length L (mm)	2955	5345	7735	10125	12515	14905	17295	19685	22075	24465
Length L1 (mm)	3960	6350	8740	11130	13520	15910	18300	20690	23080	25470
Machine weights (Kg)	619	978	1337	1696	2055	2414	2773	3132	3491	3850
Power installed (Kw)	3.96	5.04	6.12	7.2	8.28	9.36	10.44	11.52	12.6	13.68







PRODUCTION LINE





# MOD. CA

## ELECTRONIC CONE WINDING MACHINE WITH GROOVED DRUM

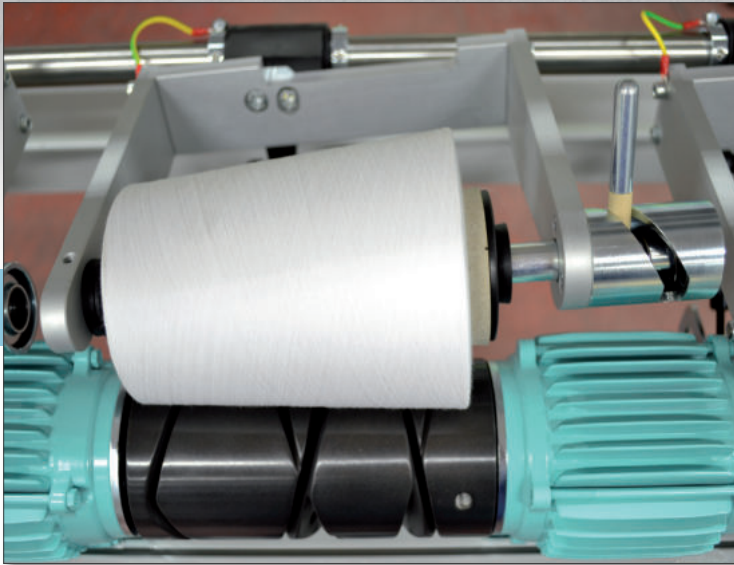
Designed to **rewind packages after dyeing** and **produce a measured length** and **waxed package** suitable for knitting and weaving



### TECHNICAL DATA

- **Vertical threading**
- Machine configuration up to **96 spindles**, with programmable control unit with digital display showing production and machine operational data
- The CA winder can simultaneously run at **two different speeds** and with **two different lots of yarn** (optional)
- **High precision electronic meter** counter with setting up to 6 different groups simultaneously
- **Electronic anti patterning system** programmable by the control panel
- Individual AC coaxial motor per spindle run by inverter
- Start/stop button
- Under machine creel with universal bobbin holder
- Overhead package holder





- 1
- **Gas controlled arm pressure (6 and 8 inch)** to accurately control the package density and tailstock with spring for axial compensation



- 2
- Counter rotating motorized **waxing device**
  - Self-cleaning motorized **yarn tensioner**
  - **Optical yarn** detection sensor
  - Micrometric **slub catcher**

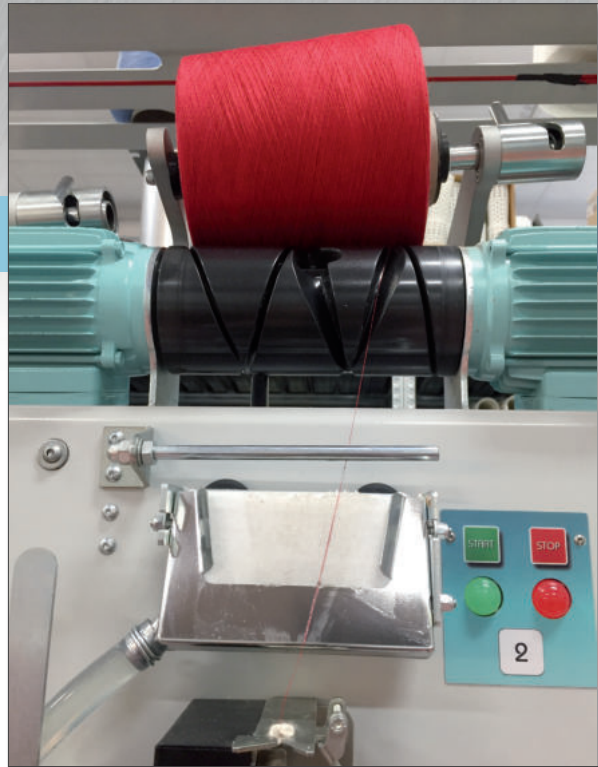


- 3
- **Programmable control unit with digital display** showing production and machine operational data

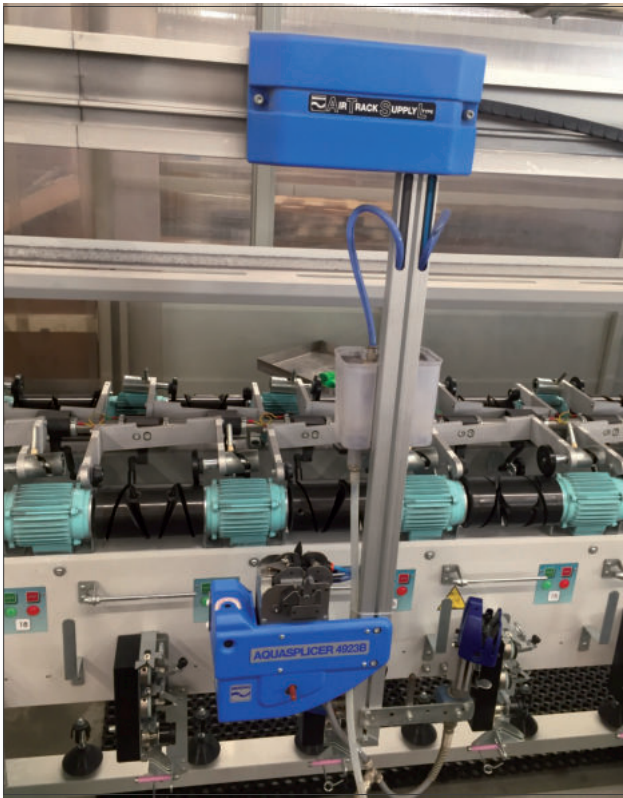




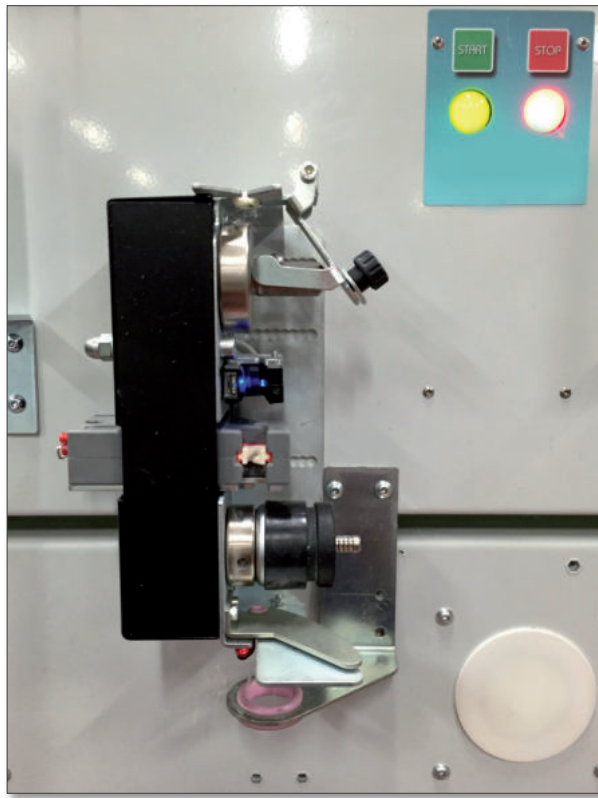
4



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6



7



8

UPON REQUEST, THE CA WINDER CAN BE SUPPLIED WITH:

- *Electro-Jet* overhead trolley blower (photo 4)
- *Lubrifiil* oiling device (photo 5)
- *Splicer Mesdan ATS* (photo 6)
- *BTSR* optical sensor clearer (photo 7)
- Double counter rotating motorized waxing device (photo 8)

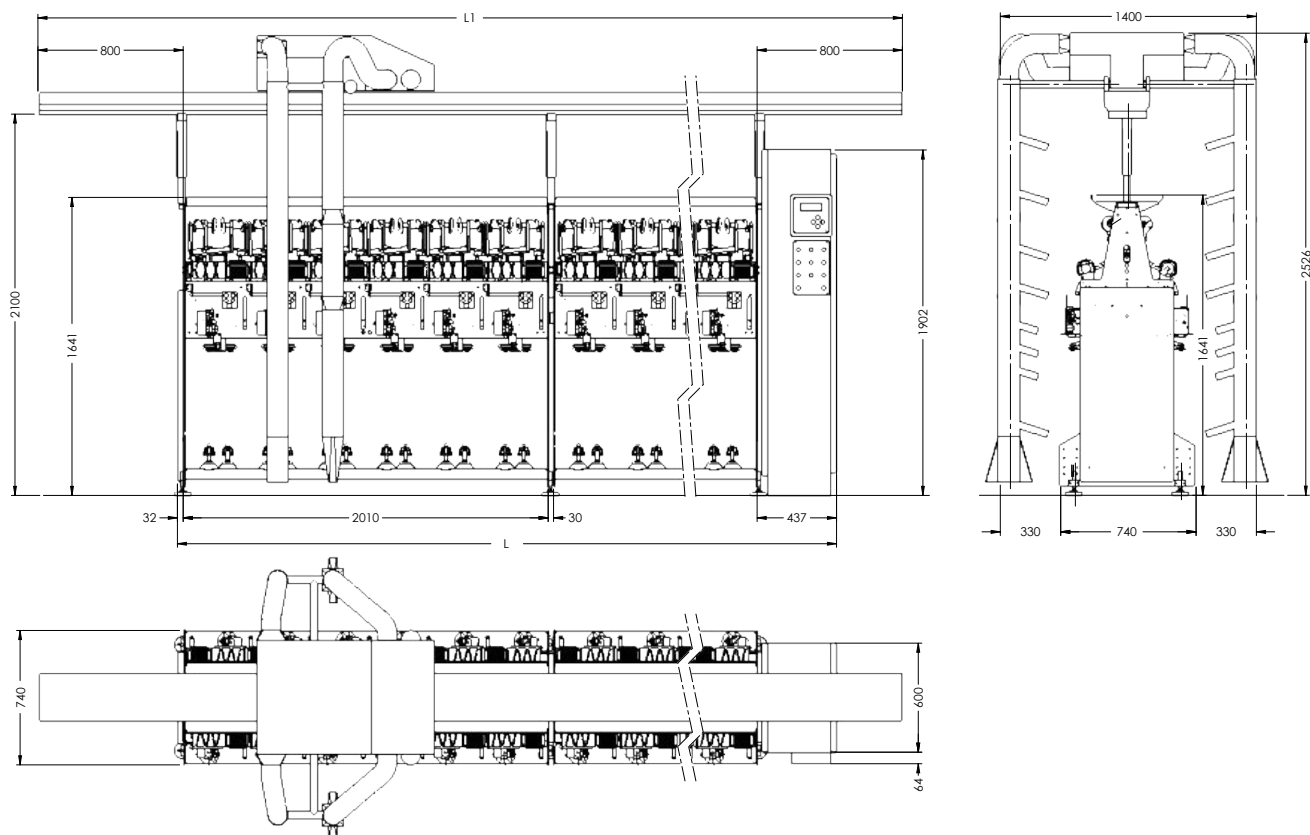


# MOD. CA 6 inch (152 mm)

## TECHNICAL DATA

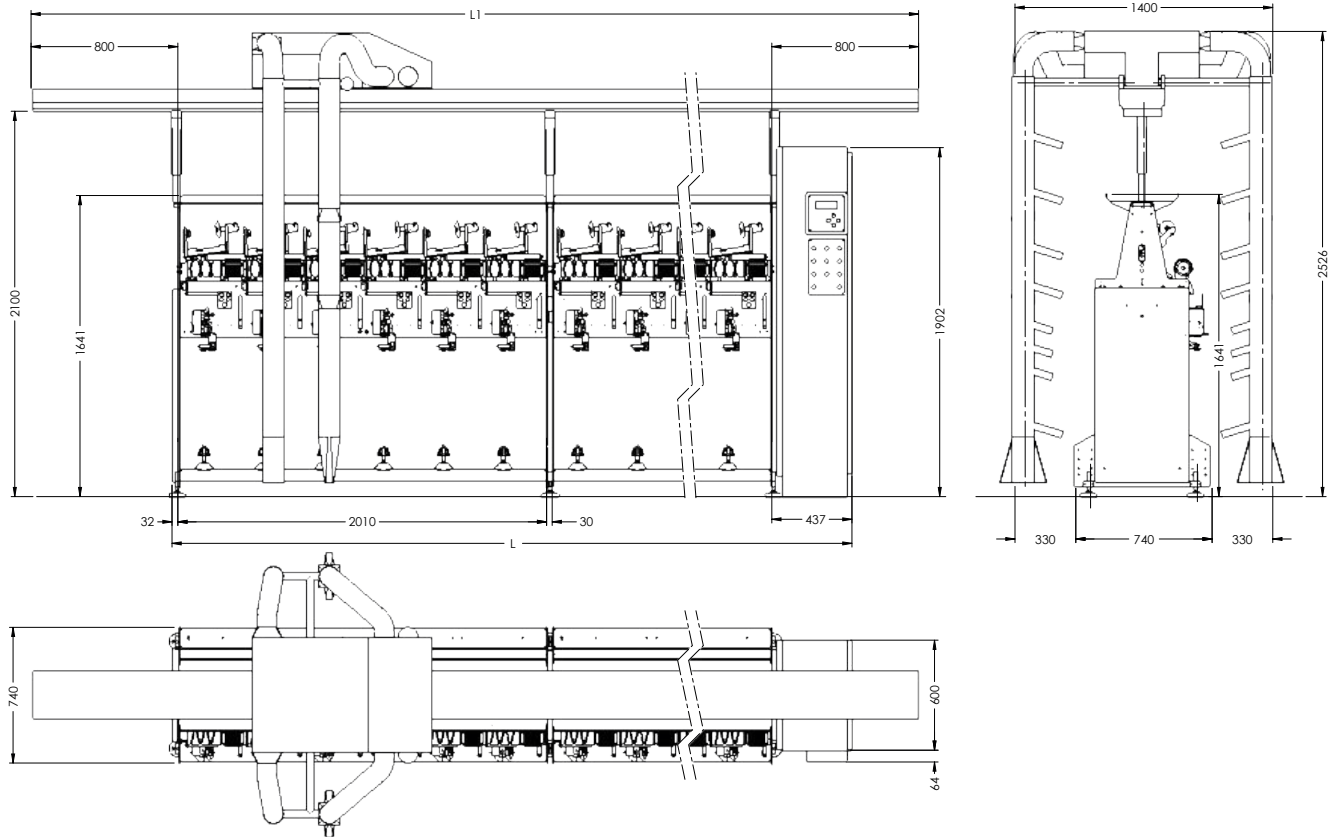
<b>Machine configuration CA - 6 inch (152 mm)</b>	from 6 up to 60 spindles, single sided (6 spindles per unit) from 12 up to 96 spindles, double sided (12 spindles per unit)
<b>Yarn traverse</b>	6 inch (152 mm)
<b>Conicity</b>	0°00' - 3°30' - 4°20' - 5°57' - interlocking bobbins and Biko-press dyeing tubes
<b>Package's diameter</b>	up to 290 mm
<b>Feeding package's diameter</b>	up to 300 mm
<b>Motorization</b>	individual AC coaxial motor per spindle
<b>Voltage supply</b>	400V 3phase - 50/60Hz
<b>Power installed</b>	0,09 Kw per spindle
<b>Take-up speed</b>	from 250 to 1200 m/min
<b>Grooved drums available</b>	Ø 82 mm, 2,5 turns variable pitch, crossover angle 17° Ø 95 mm, 2 turns variable pitch, crossover angle 20°

### CA 6 inch (152 mm) double sided configuration with overhead trolley blower



Number of heads	12 heads	24 heads	36 heads	48 heads	60 heads	72 heads	84 heads	96 heads
Length L (mm)	2479	4519	6559	8599	10639	12679	14719	16759
Length L1 (mm)	3610	5650	7690	9730	11770	13810	15850	17890
Machine weights (Kg)	660	1060	1460	1860	2260	2660	3060	3460
Power installed (Kw)	3.96	5.04	6.12	7.2	8.28	9.36	10.44	11.52

## CA 6 inch (152 mm) single sided configuration with overhead trolley blower



Number of heads	6 heads	12 heads	18 heads	24 heads	30 heads	36 heads	42 heads	48 heads	54 heads	60 heads
Length L (mm)	2479	4519	6559	8599	10639	12679	14719	16759	18799	20839
Length L1 (mm)	3610	5650	7690	9730	11770	13810	15850	17890	19930	21970
Machine weights (Kg)	555	850	1145	1440	1735	2030	2325	2620	2915	3210
Power installed (Kw)	3.42	3.96	4.5	5.04	5.58	6.12	6.66	7.2	7.74	8.28



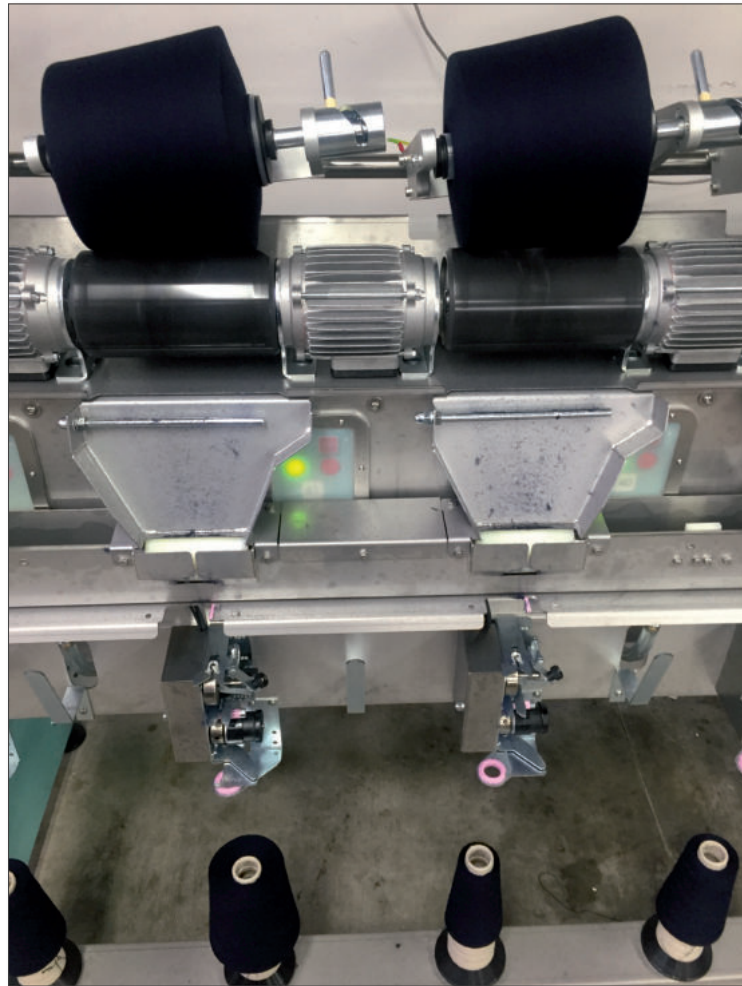


# MOD. CA - CRÍO

## ELECTRONIC CONE WINDING MACHINE WITH GROOVED DRUM

Designed to rewind and proceed to the **yarn's lubrication** with a **waxing roller device**

### SPECIAL TECHNICAL DATA



- Front of the winder in stainless steel with oil's recovery slide underneath the drum, to salvage the excess of oil and transfer it back into the tank
- Nylon oiling rollers with adjustable speed from 1 up to 10 rotations per minute via potentiometer/inverter
- One oiling kit per unit of 6 spindles, including a 10 liters tank and the Toby oil feeder
- Stainless steel chassis
- Shielded start/stop buttons
- Shielded frontal opening to protect the electronic parts
- Anodized motors

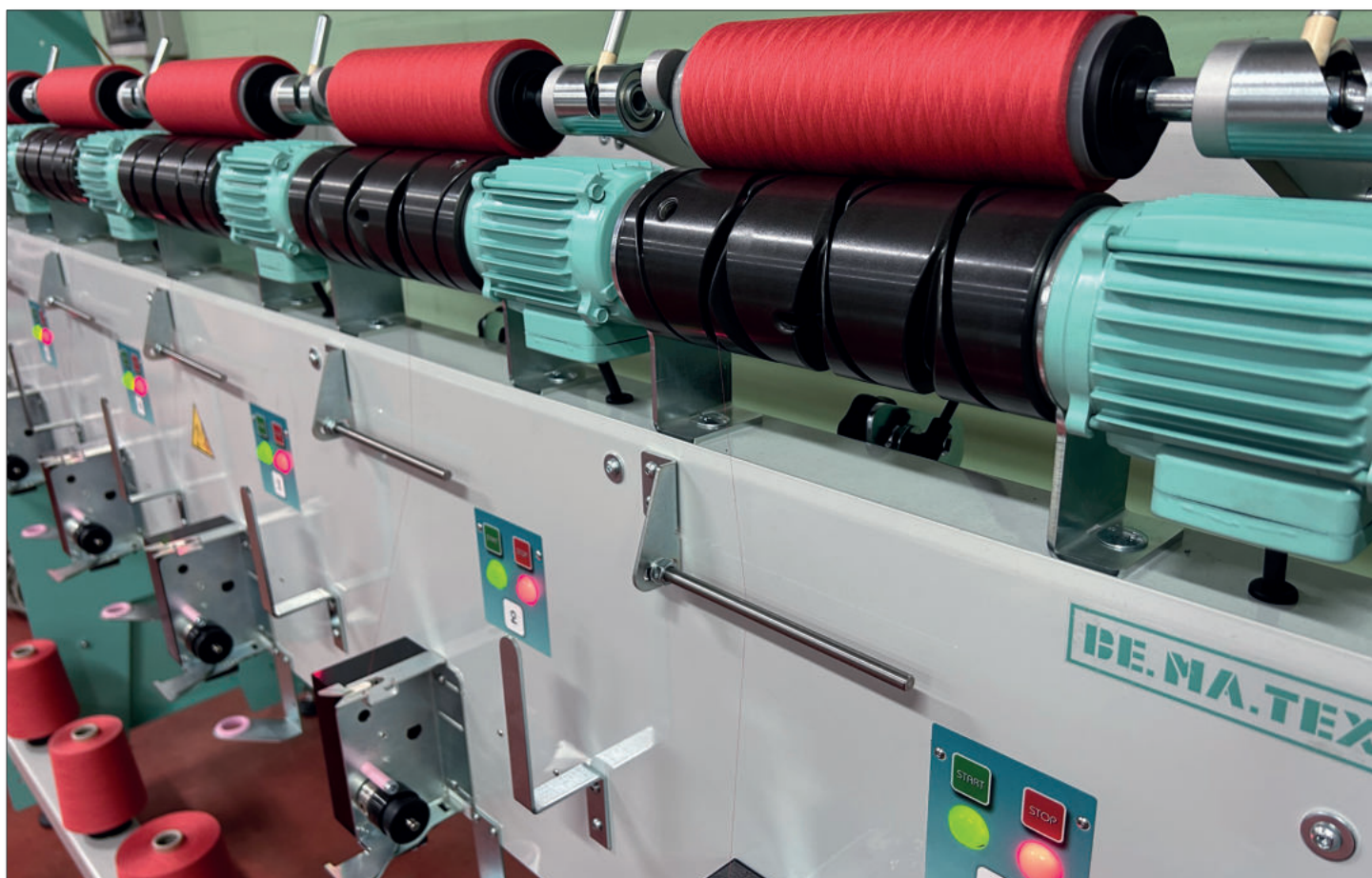




# MOD. CA-200 8 inch (200 mm)

## ELECTRONIC CONE WINDING MACHINE WITH GROOVED DRUM

Designed to **rewind packages after dyeing** and **produce a measured length** and **waxed package** suitable for knitting and weaving

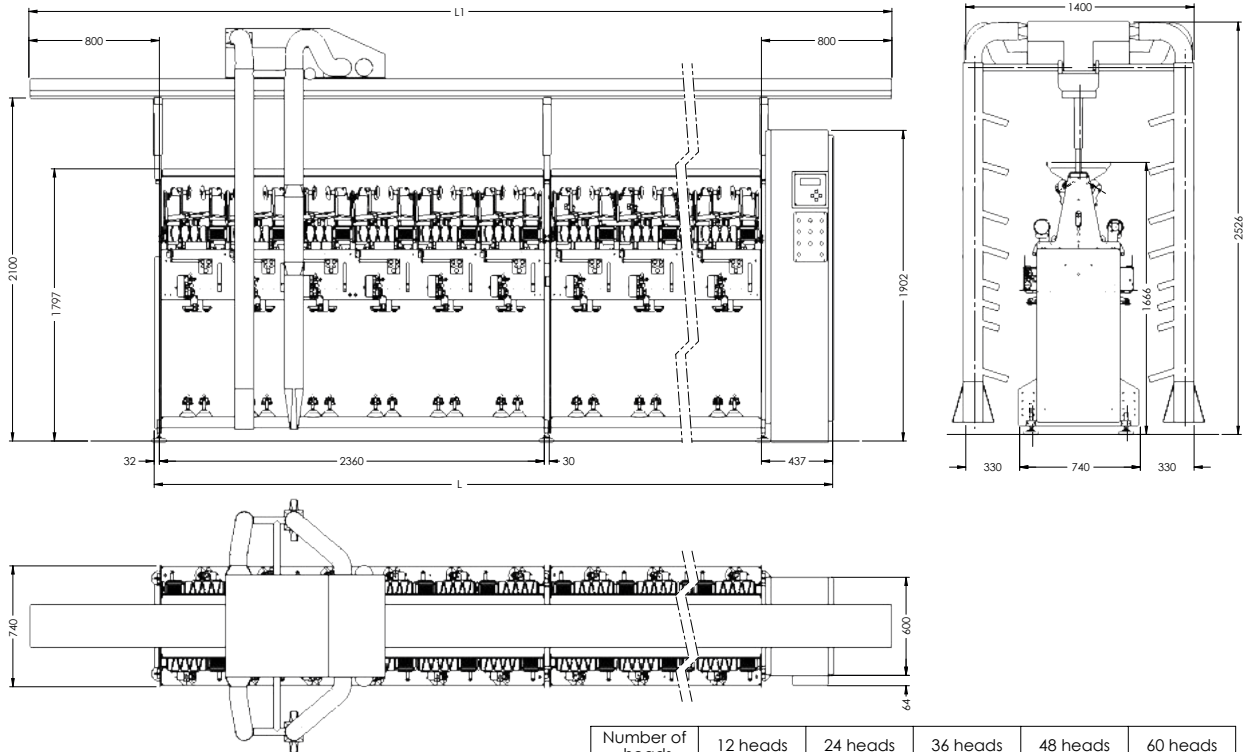


### TECHNICAL DATA

<b>Machine configuration CA - 8 inch (200 mm)</b>	from 6 up to 60 spindles, single sided (6 spindles per unit) from 12 up to 60 spindles, double sided (12 spindles per unit)
<b>Yarn traverse</b>	8 inch (200 mm)
<b>Conicity</b>	0°00' - 3°30' - 4°20' - 5°57' - interlocking bobbins and Biko-press dyeing tubes
<b>Package's diameter</b>	up to 290 mm
<b>Feeding package's diameter</b>	up to 300 mm
<b>Motorization</b>	individual ac coaxial motor per spindle
<b>Voltage supply</b>	400V 3phase - 50/60Hz
<b>Power installed</b>	0,12 Kw per spindle
<b>Take-up speed</b>	from 250 to 900 m/min
<b>Grooved drums available</b>	Ø 90 mm, 2,5 turns variable pitch Ø 90 mm, 2,5 turns constant pitch

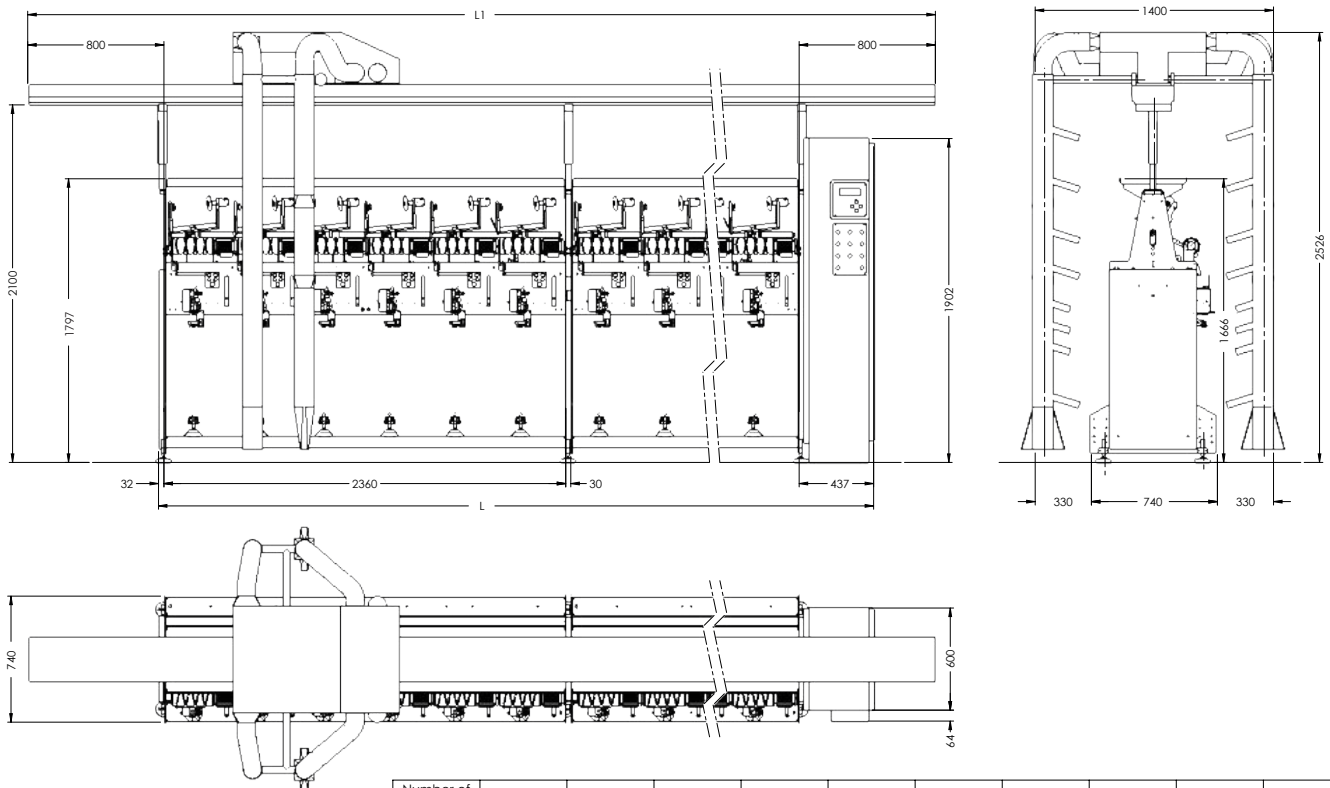


## CA-200 8 inch (200 mm) double sided configuration with overhead trolley blower



Number of heads	12 heads	24 heads	36 heads	48 heads	60 heads
Length L (mm)	2829	5219	7609	9999	12389
Length L1 (mm)	3960	6350	8740	11130	13520
Machine weights (Kg)	704	1148	1592	2036	2480
Power installed (Kw)	3.96	5.04	6.12	6.2	8.28

## CA-200 8 inch (200 mm) single sided configuration with overhead trolley blower



Number of heads	6 heads	12 heads	18 heads	24 heads	30 heads	36 heads	42 heads	48 heads	54 heads	60 heads
Length L (mm)	2829	5219	7609	9999	12389	14779	17169	19559	21949	24339
Length L1 (mm)	3960	6350	8740	11130	13520	15910	18300	20690	23080	25470
Machine weights (Kg)	584	908	1232	1556	1880	2204	2528	2852	3176	3500
Power installed (Kw)	3.42	3.96	4.5	5.04	5.58	6.12	6.66	7.2	7.74	8.28

# MOD. PE 10 inch (250 mm)

## ELECTRONIC CONE WINDING MACHINE WITH GROOVED DRUM

Designed for **rewinding operations** and to **prepare dyeing packages**



### TECHNICAL DATA

- **Electronic yarn feeder** with yarn overfeeding (+1% - +50%) adjustable from the programmable control unit  
The machine can be programmed to run with two different overfeed levels (optional)
- **BTSR optical sensor clearer**, suitable also for fancy yarns
- The machine can be fed with ring tubes and cops up to the **maximum length of 500 mm**



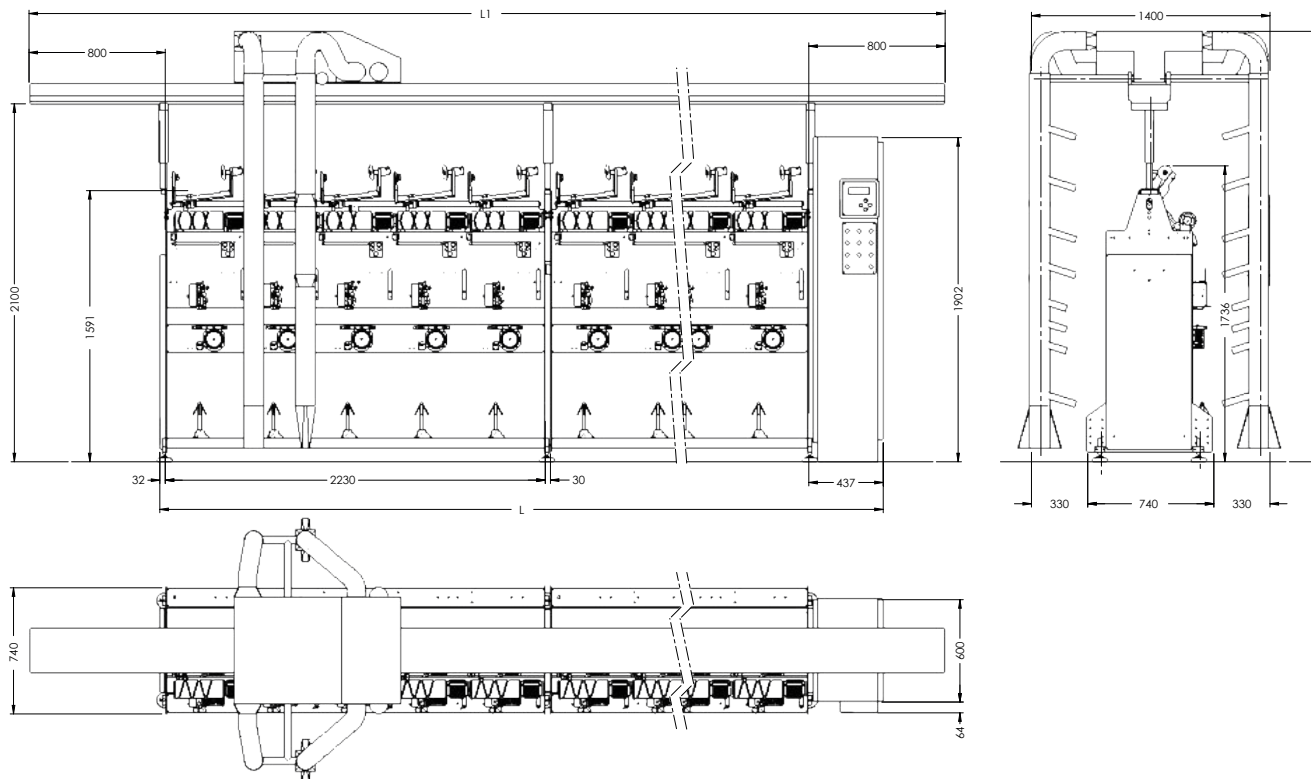


# MOD. PE 10 inch (250 mm)

## TECHNICAL DATA

<b>Machine configuration PE - 10 inch (250 mm)</b>	from 5 up to 30 spindles single sided (5 spindles per unit)
<b>Yarn traverse</b>	10 inch (250 mm)
<b>Conicity</b>	0°00' - 3°30' - 4°20' - 5°57'
<b>Package's diameter</b>	up to 290 mm
<b>Feeding package's diameter</b>	up to 300 mm
<b>Height of the feeding spool</b>	up to 500 mm
<b>Motorization</b>	individual AC coaxial motor per spindle
<b>Voltage supply</b>	400V 3phase - 50/60Hz
<b>Power Installed</b>	0,12 Kw per spindle. Total absorption per spindle equipped with yarn overfeeding system: 0,21 Kw
<b>Take-up speed</b>	from 250 to 900 m/min
<b>Grooved drums available</b>	Ø 100 mm, 2,5 turns constant or variable pitch Ø 126 mm, 2,5 turns variable pitch

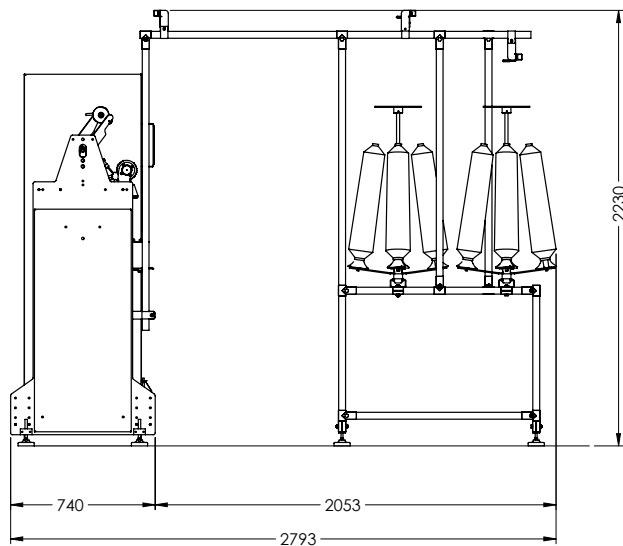
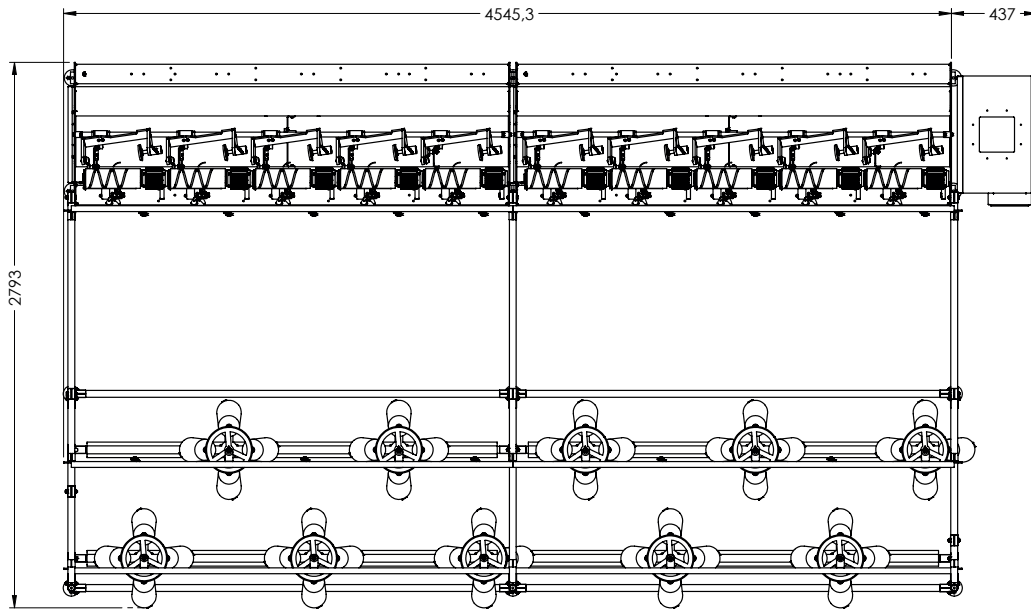
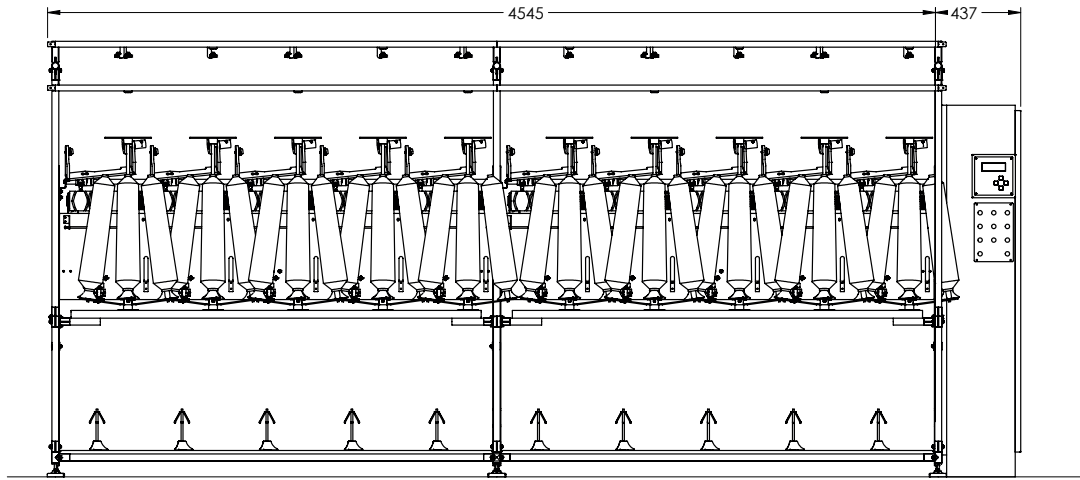
### PE 10 inch (250 mm) single sided configuration with overhead trolley blower



Number of heads	5 heads	10 heads	15 heads	20 heads	25 heads	30 heads
Length L (mm)	2699	4959	7219	9479	11739	13999
Length L1 (mm)	3830	6090	8350	10610	12870	15130
Machine weights (Kg)	583	906	1229	1552	1875	2198
Power installed (Kw)	3.6	4.5	5.4	6.3	7.2	8.1



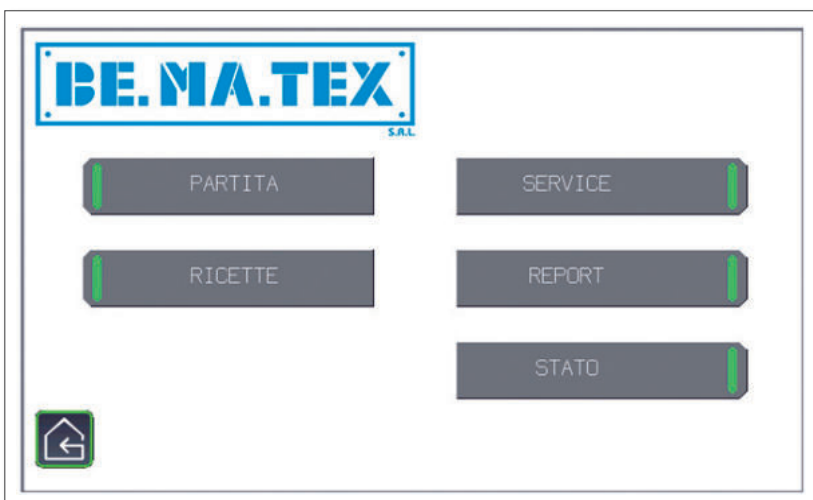
PE 10 inch (250 mm) fed from external creel



# PLC TOUCH SCREEN

## FOR REMOTE INTERCONNECTION

and **integration** with the **mill's operating system**



The main menu gives access to the functions of the machine:

**ORDER:** layout of the working operations

**LOT:** import/use of the parameters of previous orders

**REPORT:** final report of the operation

**SERVICE:** technical set up of the parameters

**STATUS:** situation of the order in process



Screen for the selection of the parameters of the order



Set up selection



**DATI PARTITA** dalla testa **1** alla **5**

Ora inizio  :  del  /  /

Chilogrammi prodotti  Kg

Ora fine  :  del  /  /

## ATTENZIONE!! ATTESA PRESSIONE START PARTI

Display of date - start and ending time of the order - total production in kg

**STATO MACCHINA**

<b>1</b>	<b>2</b>	<b>3</b>	<b>4</b>	<b>5</b>	6	7	8	9	10	11	12	13	14	15	16
17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32
33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48
49	50	51	52	53	54	55	56	57	58	59	60	61	62	63	64
65	66	67	68	69	70	71	72	73	74	75	76	77	78	79	80
81	82	83	84	85	86	87	88	89	90	91	92	93	94	95	96

Display of the working spindles, running or stopped

**REPORT N.**  **1**

**PARTITA** dalla testa **4** alla **6**

PARTITA N.  COMPOSIZIONE FILATO

TITOLO FILO  /  Nm VELOCITA AVVOLGIMENTO  mt/min

PARAFFINA  N.PESI  SFASATURA

FRENA FILO  MOLLA GAS  % Sovralimentazione

Stribbia meccanica  % Frenatura rullo raccolta

Nodo splicer  % Frenatura sovralimentazione

Tipo splicer  Movimento assiale

Pag.1/2

A written report is released any time an ORDER is concluded. The screen shows all the parameters used for the ORDER

**GESTIONE RICETTE** NOME

Partita n.

Composizione filato

Titolo filo  /  Nm

Velocita avvolgimento  mt/min

Sfasatura  1  2  3  OFF

% Sovralimentazione

In the LOT section one can import, insert, use and delete the previously programmed set-up.

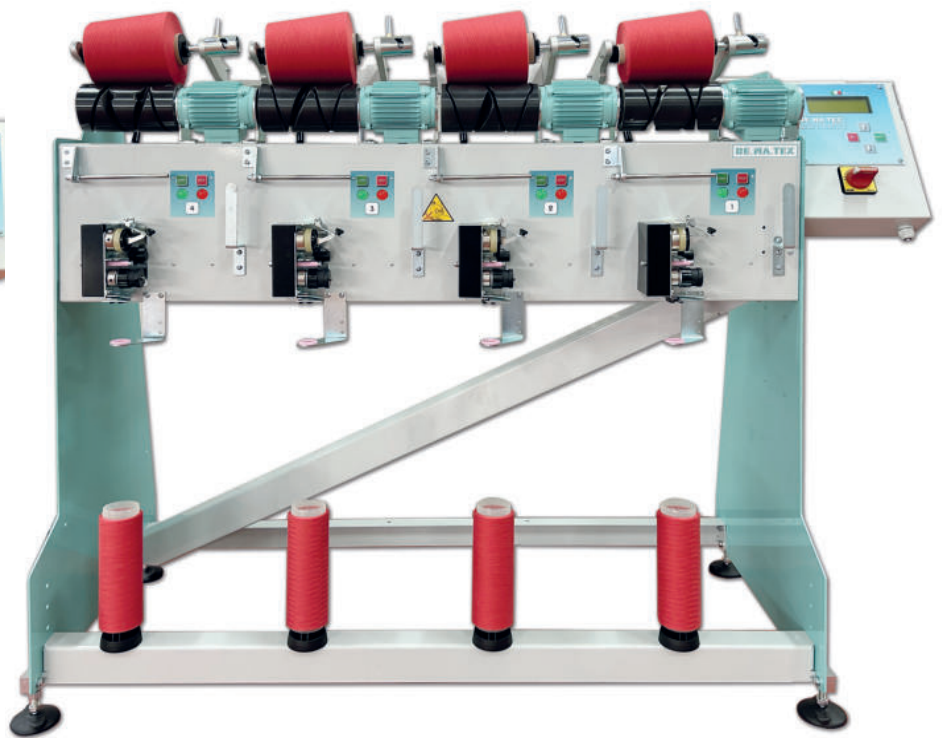
# MOD. CA-2 CA-4

## ELECTRONIC CONE WINDING MACHINE WITH GROOVED DRUM

Designed to **rewind packages** and produce a **measured length** and **waxed package**



Mod. CA-2 (2 spindles)



Mod. CA-4 (4 spindles)

### TECHNICAL DATA

- **Vertical threading**
- **Programmable control unit** with digital display showing production and machine operational data
- **High precision electronic meter counter with individual setting**
- Counter rotating motorized **waxing device**
- Self-cleaning motorized **yarn tensioner**
- Micrometric **slub catcher**
- **Optical yarn** detection sensor
- **Electronic anti patterning system** programmable by the control panel
- Start/stop button
- Under machine creel with universal bobbin holder

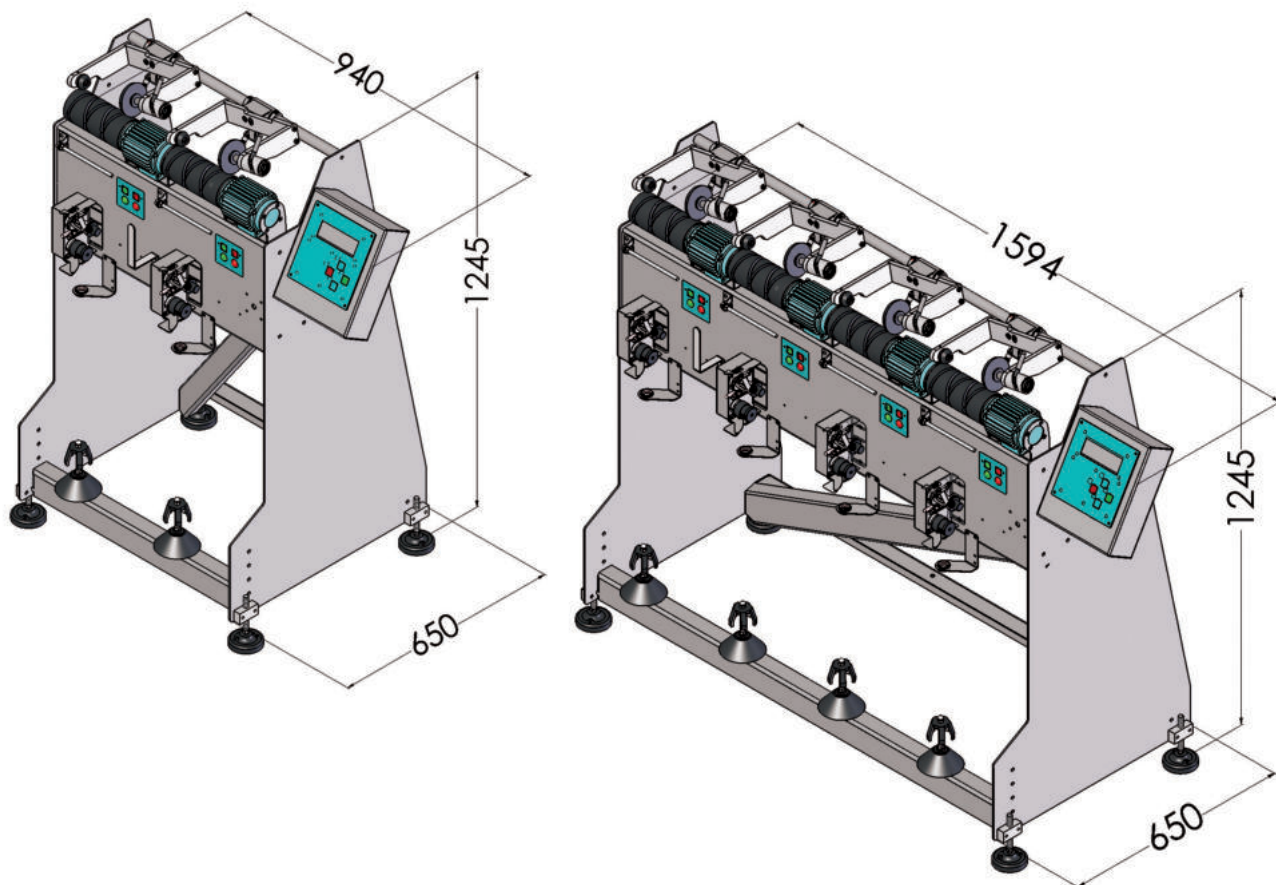


# MOD. CA-2 CA-4

## TECHNICAL DATA

<b>Machines configuration CA-2 and CA-4</b>	CA-2 (2 spindles); CA-4 (4 spindles)
<b>Yarn traverse</b>	6 inch (152 mm)
<b>Conicity</b>	0°00' - 3°30' - 4°20' - 5°57'
<b>Package's diameter</b>	up to 290 mm
<b>Feeding package's diameter</b>	up to 300 mm
<b>Motorization</b>	individual AC coaxial motor per spindle
<b>Voltage supply</b>	220 V single phase 50/60 Hz
<b>Power installed</b>	0,09 Kw per spindle
<b>Take-up speed</b>	from 250 to 1200 m/min
<b>Grooved drums available</b>	Ø 82 mm, 2,5 turns variable pitch, crossover angle 17° Ø 95 mm, 2 turns variable or constant pitch, crossover angle 20°
<b>Weight CA-2</b>	Kg 85
<b>Weight CA-4</b>	Kg 125

### CA-2 (2 spindles) CA-4 (4 spindles)



# MOD. SA

## ELECTRONIC ASSEMBLY WINDING MACHINE WITH GROOVED DRUM

Designed for **doubling** at **high speed**



### TECHNICAL DATA

- **Machine** configuration up to **90 spindles**, with programmable control unit with digital display showing production and machine operational data
- The SA assembly winder can simultaneously run at **two different speeds** and with **two different lots of yarn** (optional)
- **High precision electronic meter counter** with setting up to 6 different groups simultaneously
- **Electronic anti patterning system** programmable by the control panel



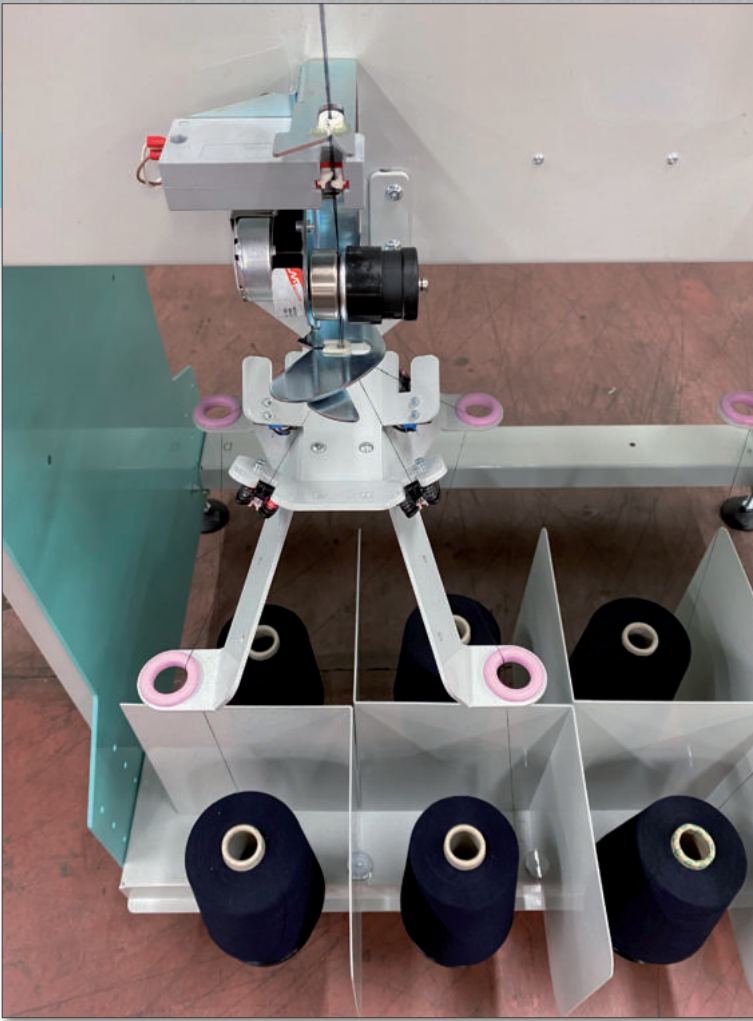


- N.3 **optical yarn detection sensors**
- Self-cleaning motorized **yarn tensioner**
- High speed **yarn cutter**

- **Under machine creel** with 3 universal bobbin holders  
Feeding package's diameter up to 270 mm

- Individual AC coaxial motor per spindle run by inverter
- Start/stop button
- Overhead package holder
- **Under machine creel** with 3 or 4 universal bobbin holders

- The machine can be equipped with:
  - **External creel** (when more than 3 plies are requested)
  - **Electro-Jet overhead trolley blower**
  - **Mesdan ATS splicer**
  - **Lubrifiil oiling device**



**N.4 optical yarn detection sensors per heads**  
**Under machine creel** with 4 universal bobbin holders, Feeding package's diameter up to 190 mm



**yarn tensioner** for each single ply installed on the anti-ballon



# MOD. SA

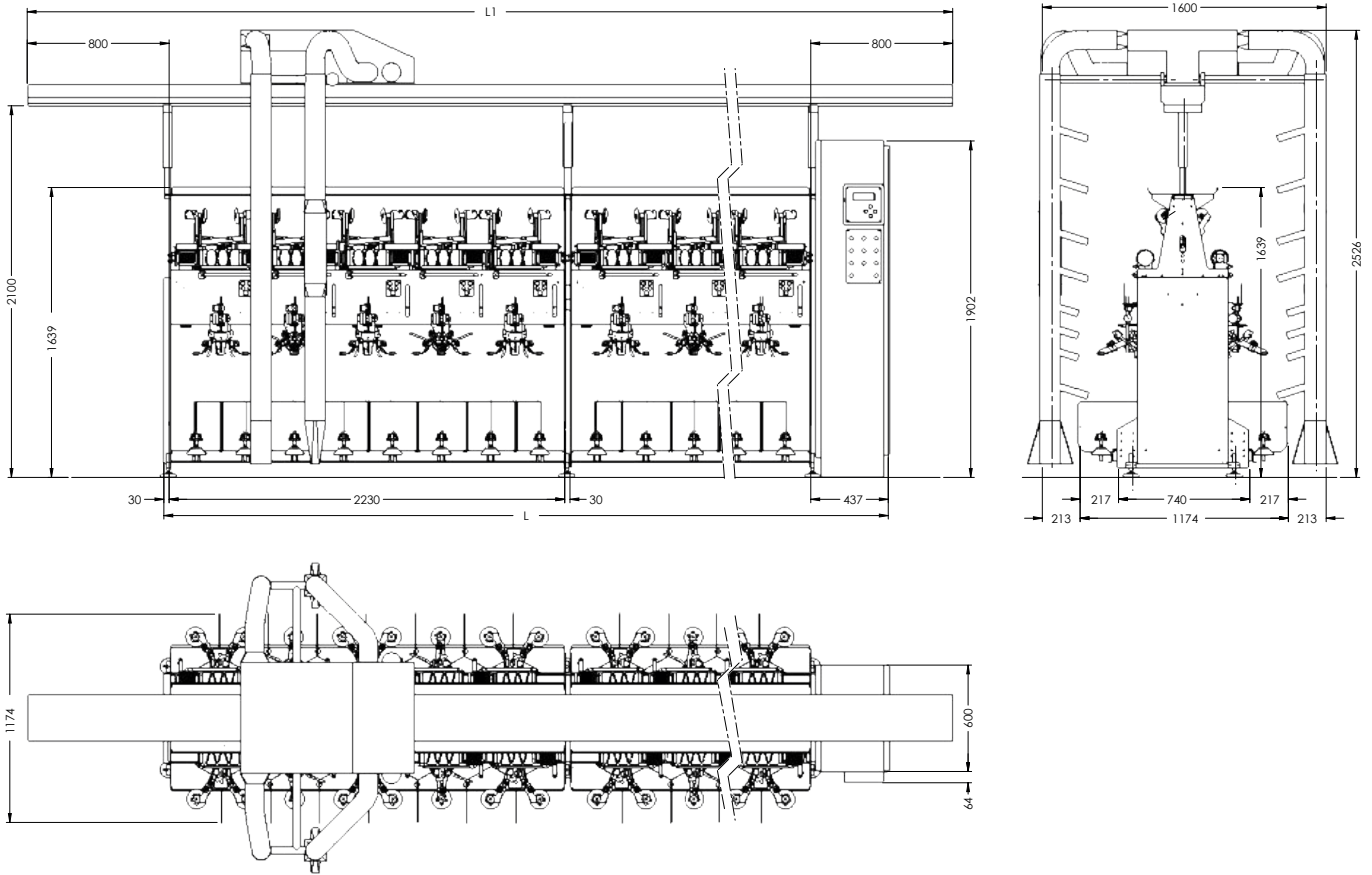
## TECHNICAL DATA

<b>Machine configuration SA - 6 inch (152 mm)</b>	from 5 up 60 spindles, single sided (5 spindles per unit)
<b>Machine configuration SA - 7 inch (178 mm)</b>	from 10 up 90 spindles, double sided (10 spindles per unit)
<b>Machine configuration SA - 8 inch (200 mm)</b>	from 5 up 60 spindles, single sided (5 spindles per unit)
<b>Machine configuration SA - 10 inch (250 mm)</b>	from 10 up 60 spindles, double sided (10 spindles per unit)
<b>Yarn traverse</b>	6 inch (152 mm) - 7 inch (178 mm) - 8 inch (200 mm) - 10 inch (250 mm)
<b>Conicity</b>	Cylindrical tubes 170 - 200 - 225 - 230 - 280 mm long Internal diameter 43 mm - 56 mm - conical tubes upon request
<b>Package's diameter</b>	up to 290 mm
<b>Feeding package's diameter</b>	up to 270 mm
<b>Motorization</b>	individual AC coaxial motor per spindle
<b>Voltage supply</b>	400V 3phase - 50/60Hz
<b>Power installed</b>	SA 6 inch: 0,09 Kw per spindle SA 7/8/10 inch: 0,12 Kw per spindle
<b>Take-up speed</b>	from 250 to 1200 m/min
<b>Grooved drums available</b>	SA 6 inch - Ø 95 mm, 2 turns constant pitch SA 7 inch Ø 97 mm, 2,5 turns constant pitch SA 8 inch Ø 90 mm, 2,5 turns constant pitch SA 10 inch Ø 100 mm, 2,5 turns constant pitch

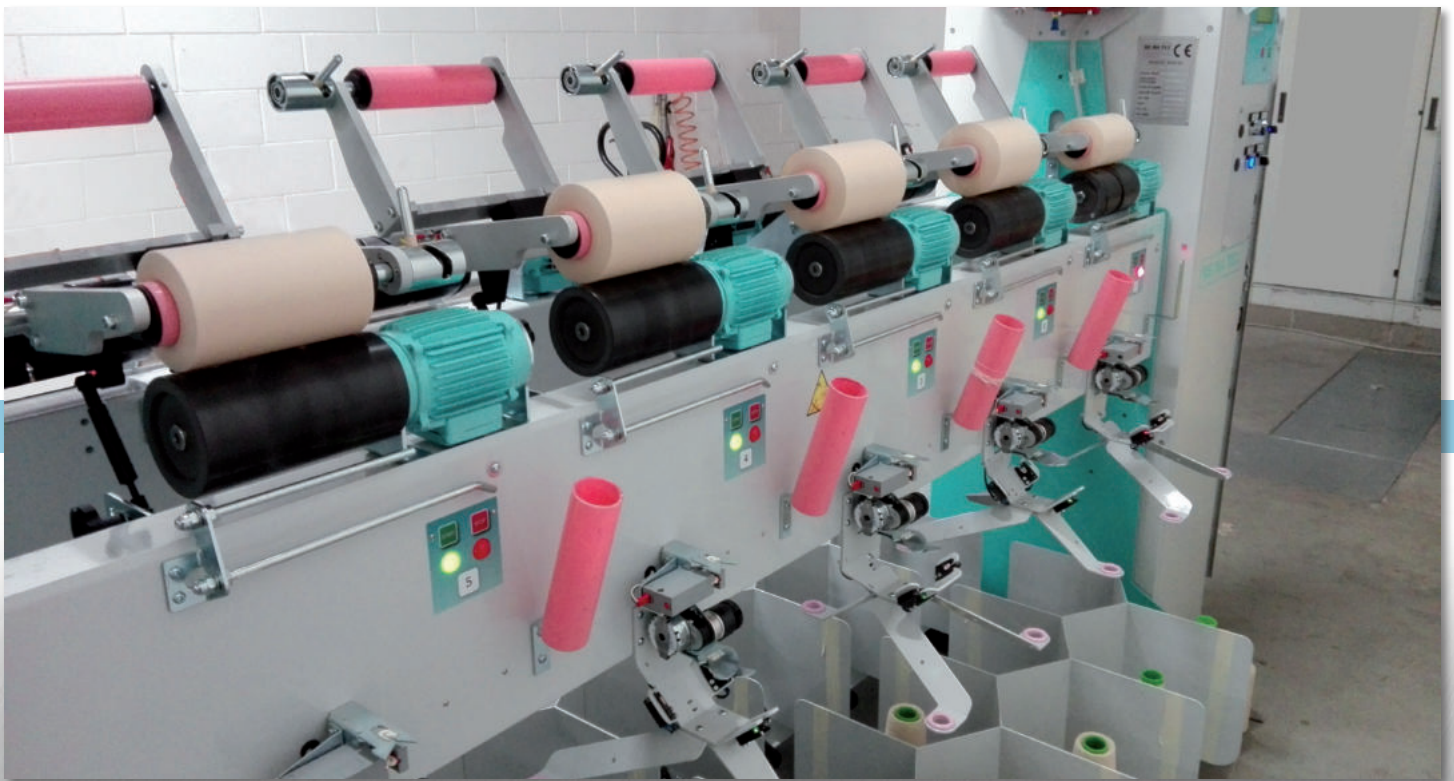


- **Gas controlled arm pressure** to accurately control the package density and tailstock with spring for axial compensation

# SA 6/7/8 inch double sided configuration with overhead trolley blower

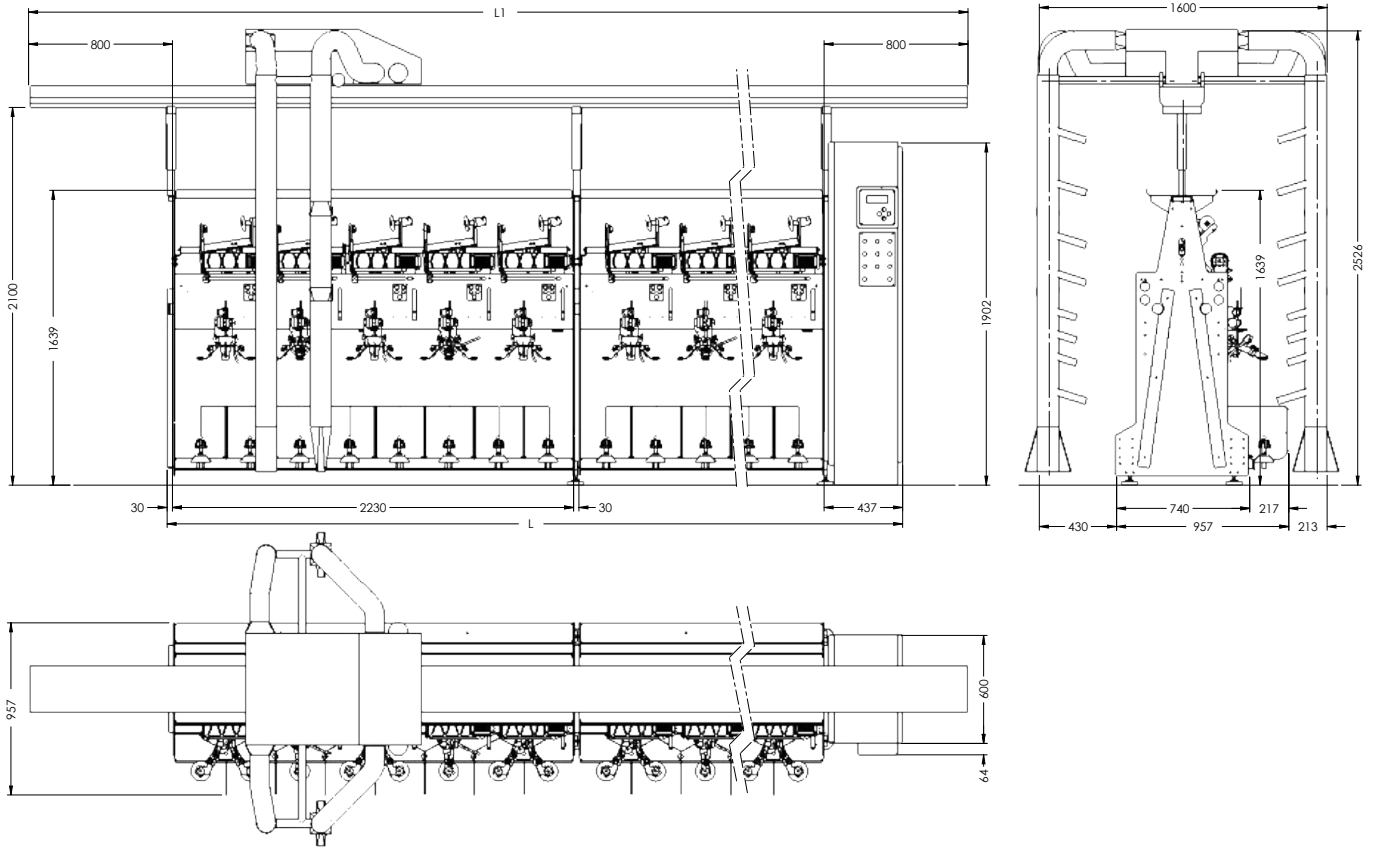


Number of heads	10 heads	20 heads	30 heads	40 heads	50 heads	60 heads	70 heads	80 heads	90 heads
Length L (mm)	2699	4959	7219	9479	11739	13999	16259	18519	20779
Length L1 (mm)	3830	6090	8350	10610	12870	15130	17390	19650	21910
Machine weights (Kg)	743	1226	1709	2192	2675	3158	3641	4124	4607
Power installed (Kw)	3.6	4.5	5.4	6.3	7.2	8.1	9	9.9	10.8





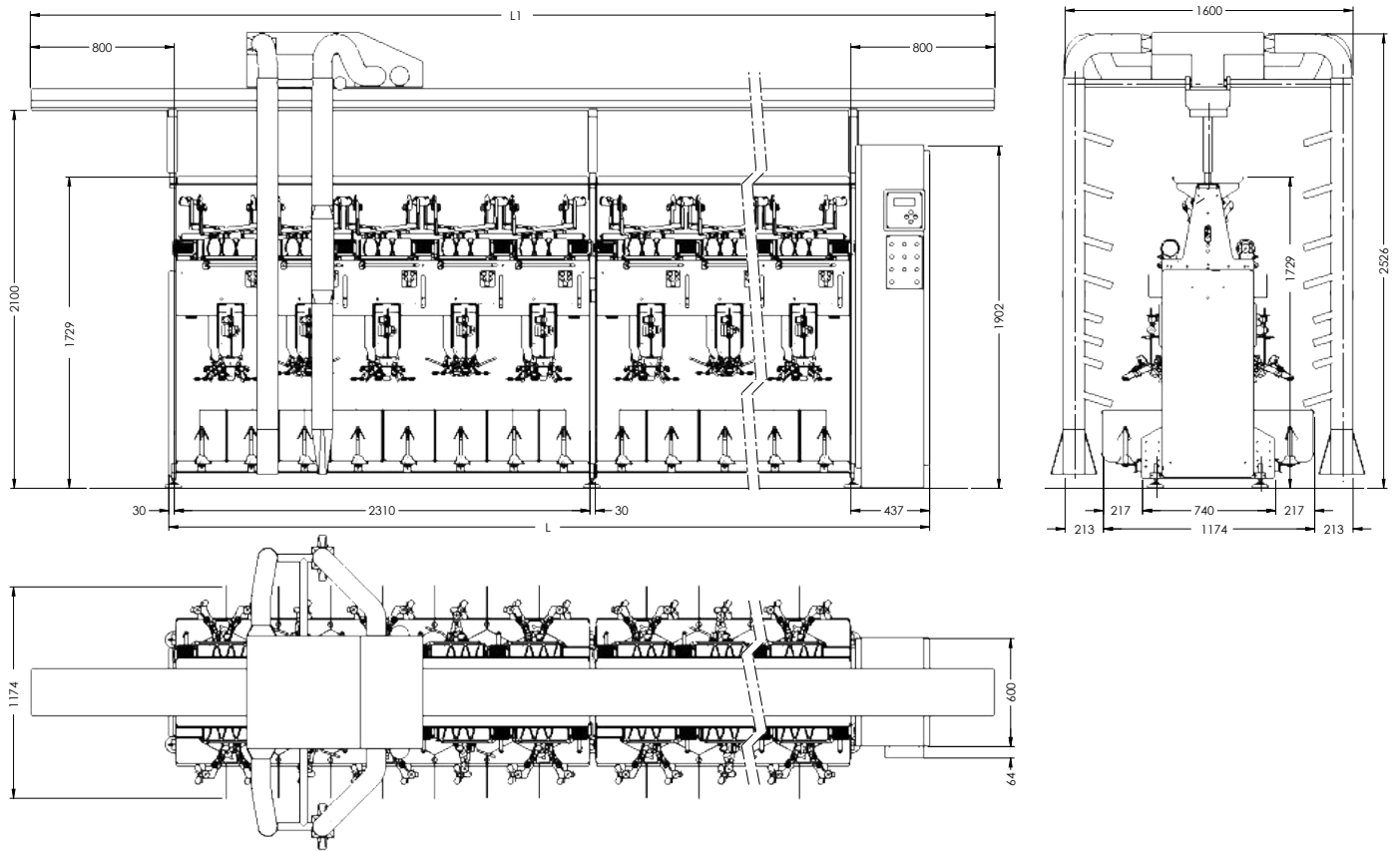
# SA 6/7/8 inch single sided configuration with overhead trolley blower



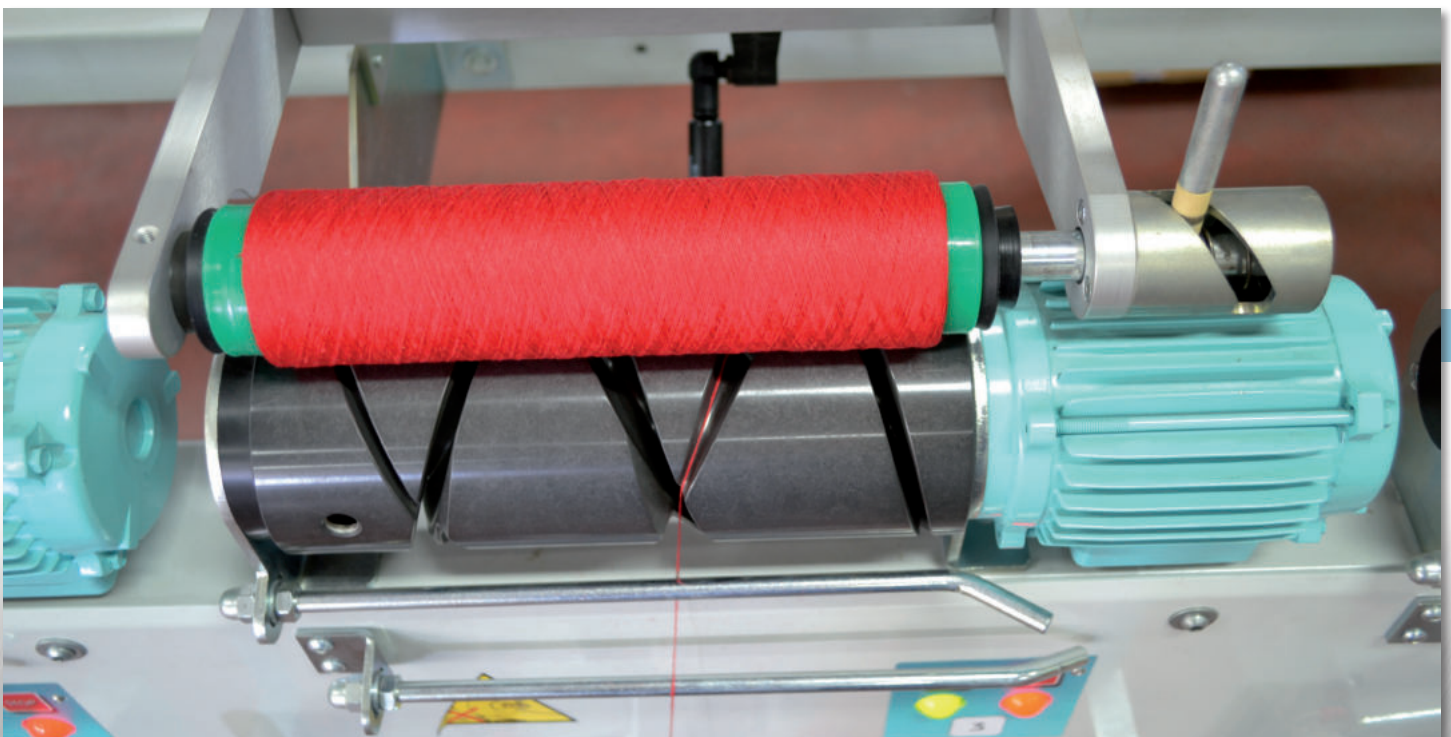
Number of heads	5 heads	10 heads	15 heads	20 heads	25 heads	30 heads	35 heads	40 heads	45 heads	50 heads	55 heads	60 heads
Length L (mm)	2699	4959	7219	9479	11739	13999	16259	18519	20779	23039	25299	27559
Length L1 (mm)	3830	6090	8350	10610	12870	15130	17390	19650	21910	24170	26430	28690
Machine weights (Kg)	603	946	1289	1632	1975	2318	2661	3004	3347	3690	4033	4376
Power installed (Kw)	3.15	3.6	4.05	4.5	4.95	5.4	5.85	6.3	6.75	7.2	7.65	8.1



## SA 10 inch double sided configuration with overhead trolley blower

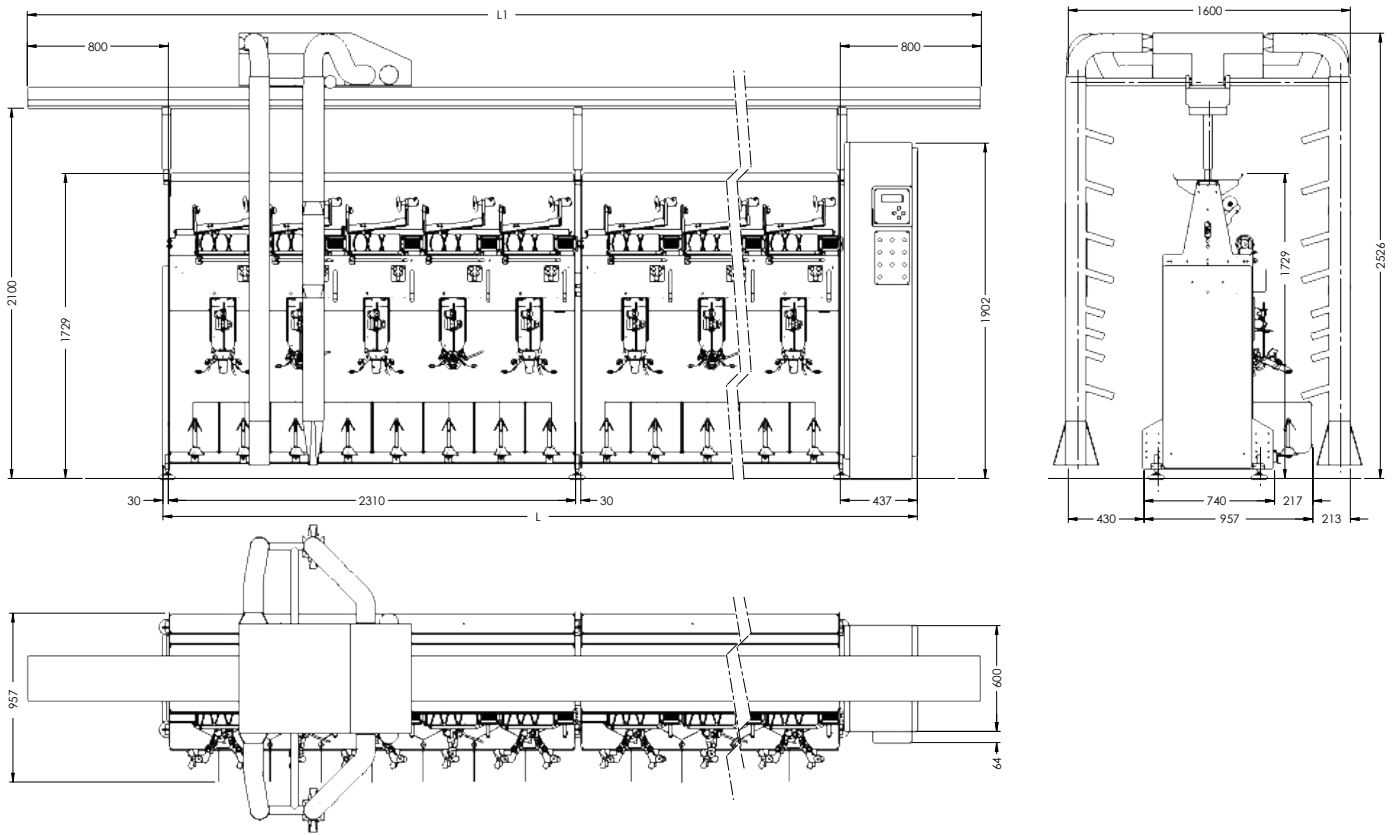


Number of heads	10 heads	20 heads	30 heads	40 heads	50 heads	60 heads
Length L (mm)	2779	5119	7459	9799	12139	14479
Length L1 (mm)	3910	6250	8590	10930	13270	15610
Machine weights (Kg)	764	1268	1772	2276	2780	3284
Power installed (Kw)	3.6	4.5	5.4	6.3	7.2	8.1

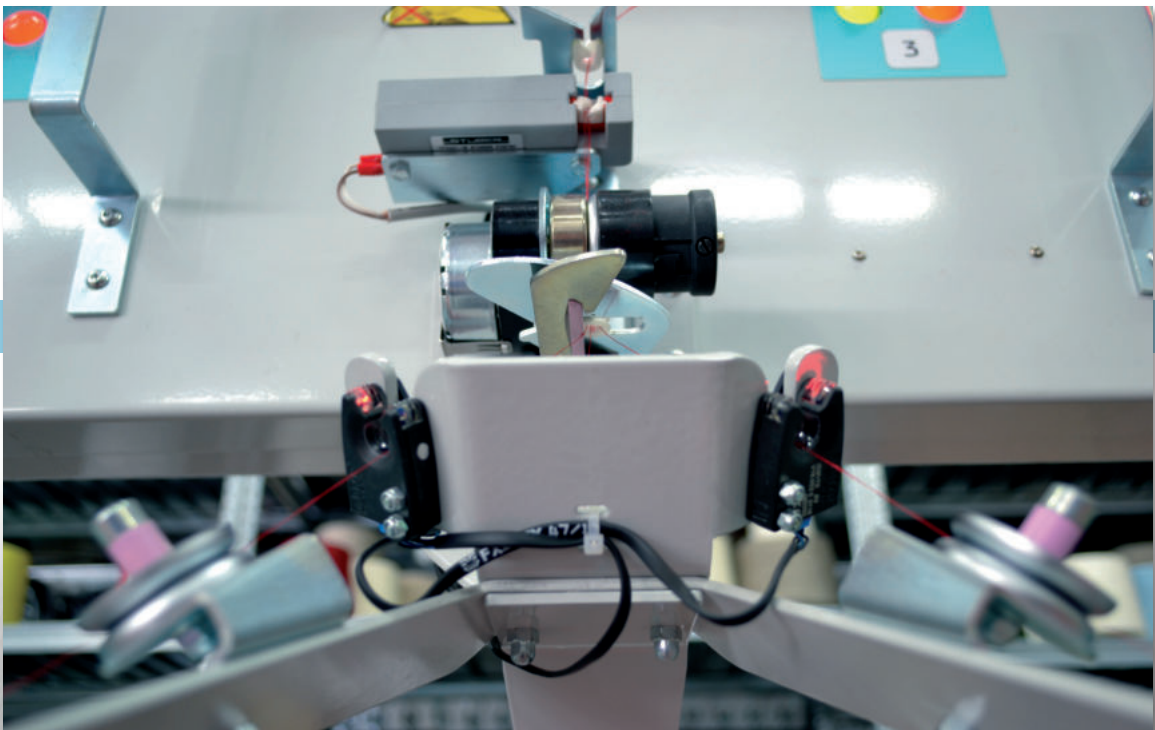




## SA 10 inch single sided configuration with overhead trolley blower



Number of heads	5 heads	10 heads	15 heads	20 heads	25 heads	30 heads	35 heads	40 heads	45 heads	50 heads	55 heads	60 heads
Length L (mm)	2779	5119	7459	9799	12139	14479	16819	19159	21499	23839	26179	28519
Length L1 (mm)	3910	6150	8590	10930	13270	15610	17950	20240	22630	24970	27310	28690
Machine weights (Kg)	614	968	1322	1676	2030	2384	2738	3092	3446	3800	4154	4508
Power installed (Kw)	3.15	3.6	4.05	4.5	4.95	5.4	5.85	6.3	6.75	7.2	7.65	8.1



# MOD. SA-2

## ELECTRONIC ASSEMBLY WINDING MACHINE WITH GROOVED DRUM

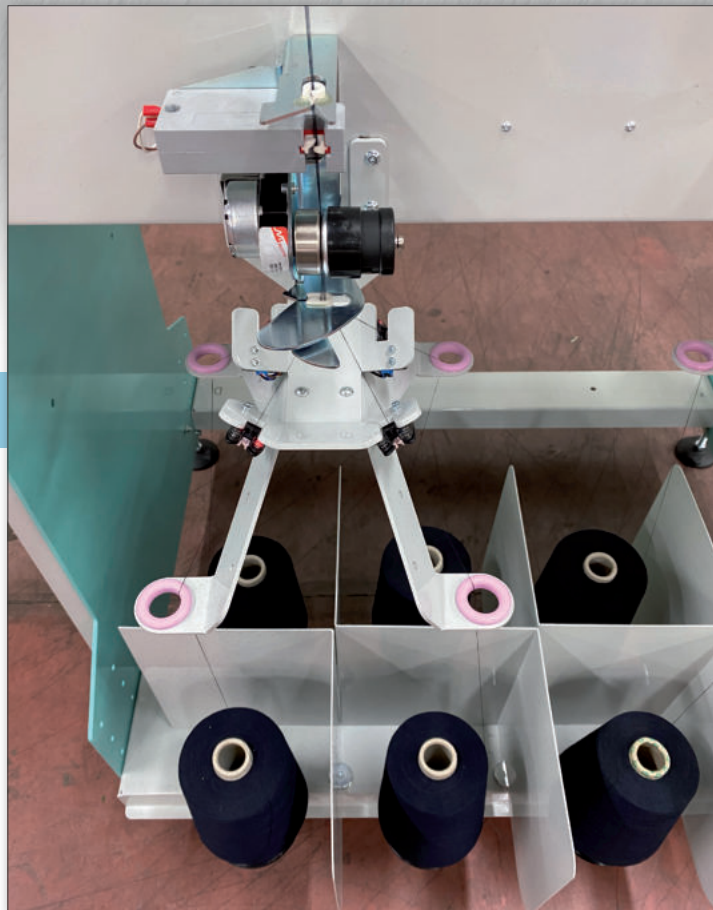
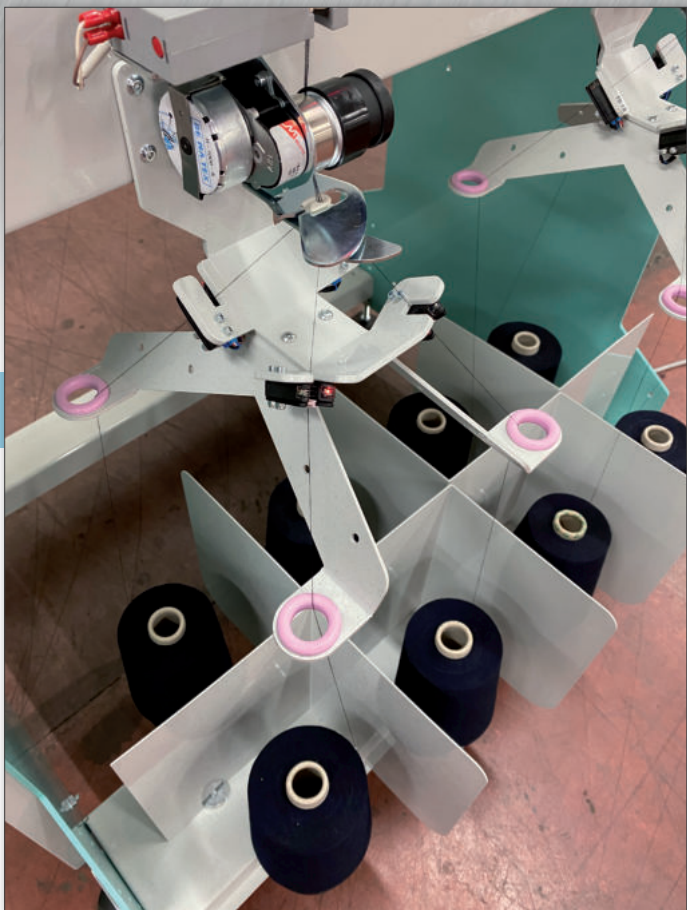
Designed for **doubling at high speed**



### TECHNICAL DATA

- **Control unit** with digital display showing production and machine operational data
- **High precision electronic meter counter** with individual setting
- **Electronic anti patterning system** programmable by the control panel
- Individual AC coaxial motor per spindle run by inverter
- Start/stop button
- Overhead package holder
- Under machine creel with **4 universal bobbin holders**
- Weight 155 kg.

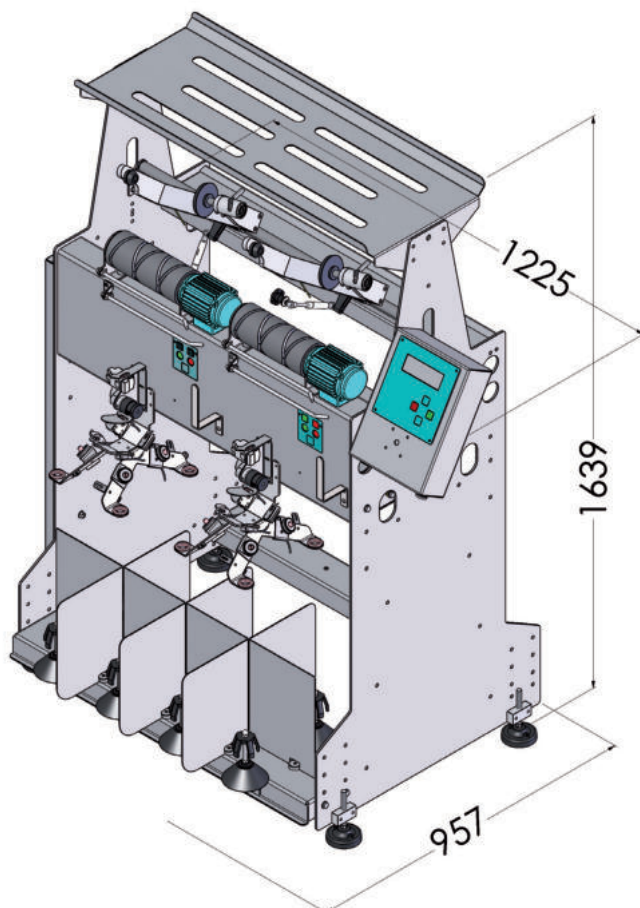




- N. 4 optical yarn detection sensors
- Self-cleaning motorized **yarn tensioner**
- High speed yarn **cutter**

- **Under machine creel** with 4 universal bobbin holders, feeding package's diameter up to 190 mm

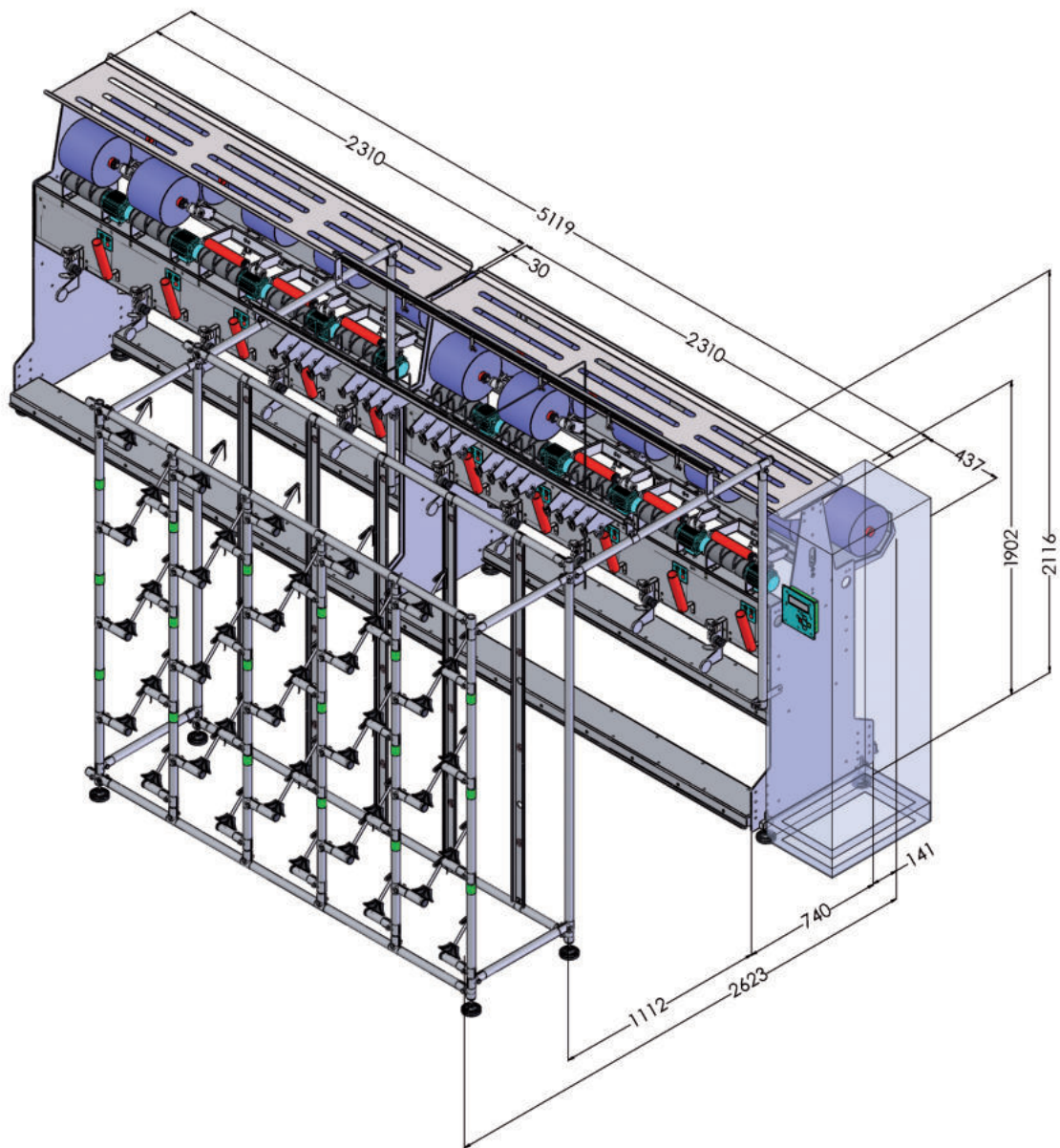
### SA-2 with n. 2 heads



# OPTIONAL

## EXTERNAL CREEL

With **top and tail system**, for the **SA** assembly winder

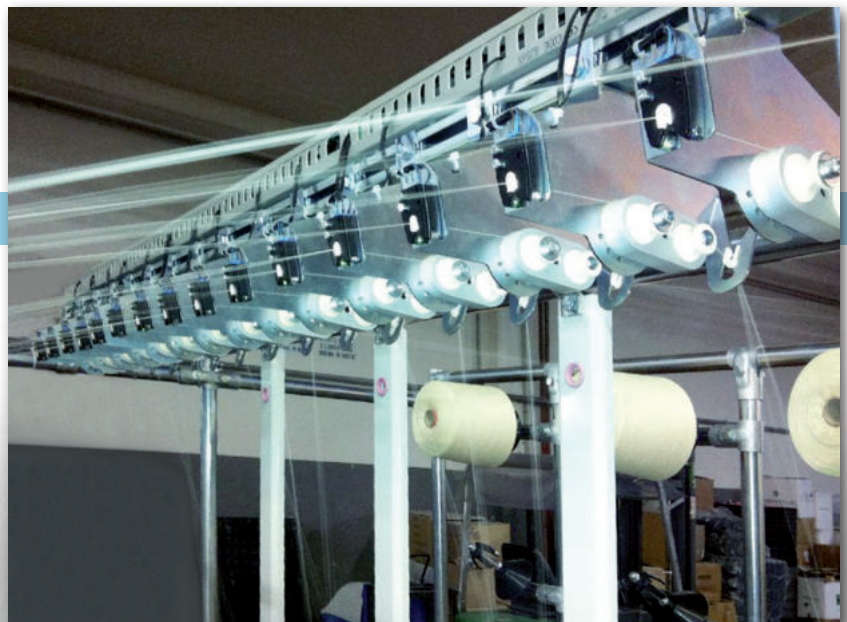
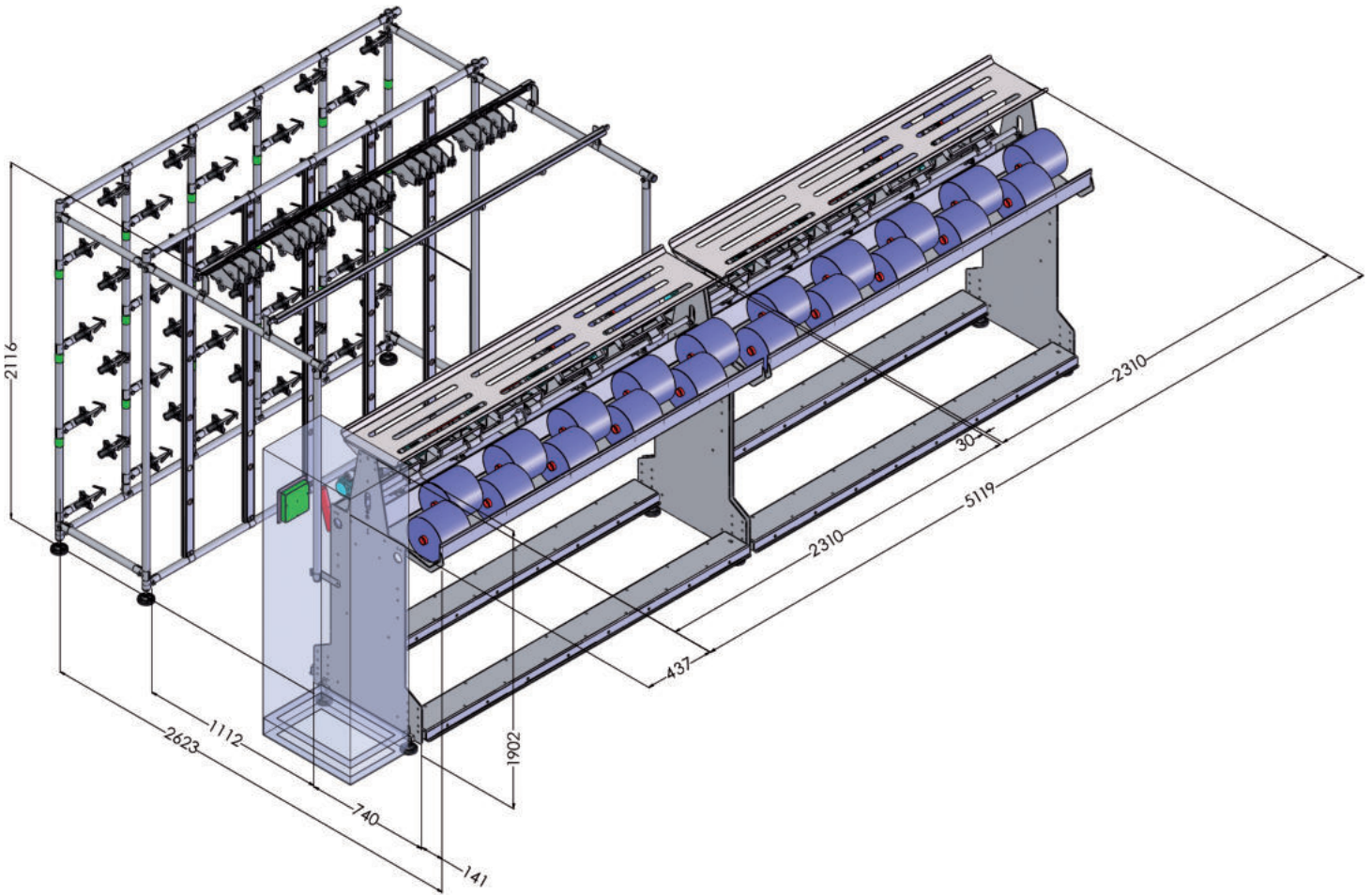


### TECHNICAL DATA

- **External creel** for feeding 2, 3 or 4 plies with reserve and top and tail system
- **External creel** for feeding 5, 6, 7 and 8 plies without reserve
- Aluminium tubular galvanized structure
- Universal bobbin holders
- BSR optical yarn **detection sensors**
- **Ceramic tensioners**
- In machine **ceramic pulley**
- **Anti-ballon ceramic rings**



OPTIONAL





# OPTIONAL

## TUNNEL EXTERNAL CREEL FOR THE SA ASSEMBLY WINDER

Set to feed **from 3 to 14 plies + reserve**



### TECHNICAL DATA

- **Overfeeding system** to even the tension of the yarn coming from the external creel.  
The percentage of overfeeding ranges from 1% up to 50% can be selected on the control panel



# “LUBRIFIL” OPTIONAL



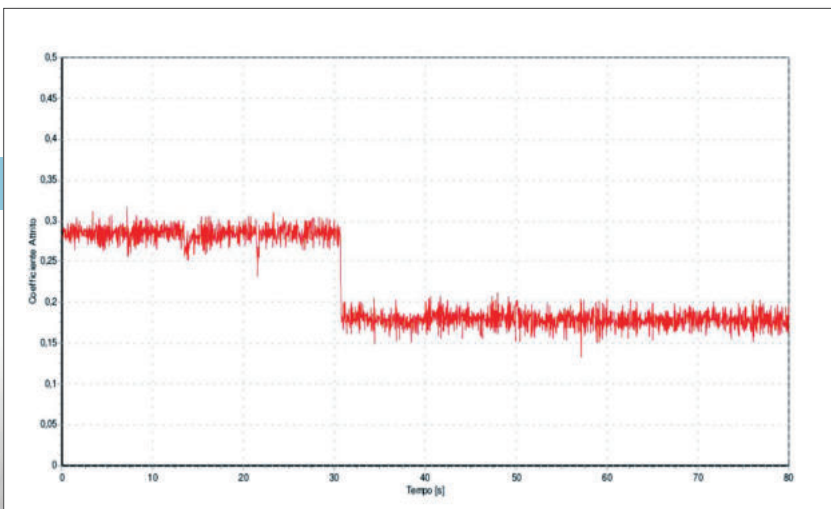
## LUBRIFIL SYSTEM

The **LUBRIFIL oiling system** grants excellent results on all types of yarn, be they synthetic, spun or multifilament, of animal origin like wool and silk, or vegetable like flax and cotton, either pure or blended with different fibres.

## PRODUCTION BENEFITS

The adoption of the **LUBRIFIL oiling system** leads to multiple advantages:

- Dramatic reduction of eyelets while assembly winding and twisting
- Increased production in twisting and the following operations
- Superior and constant fluidity of the yarn
- Reduction of breakages
- Better efficiency of the weaving and knitting machines

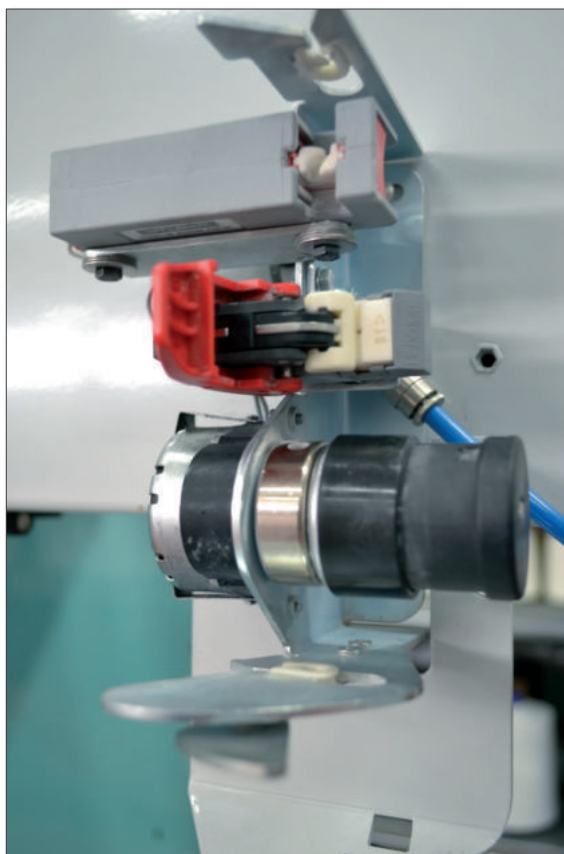


- Elimination or reduction of the electrostatic charge of the yarn, ideal though for silk, wool and synthetic fibres
- Substantial reduction of the hairiness of the spun yarns and consequent reduction of dust and fluff

# MOD. SA-INT.H

## OPTIONAL

Assembly winder with interlacing device and electronic overfeeder for Lycra and elastomers



- SA-INT.H assembly winder equipped with **BTSR Multi Feeder electronic overfeeding system** and **Heberlein Swiss Jet+** interlacing device, specific to interlace texturized yarns combined with the electronic tension control of the Lycra

- **Heberlein interlacing** device with interchangeable chambers, according to the count to be processed

- **BTSR Multi Feeder electronic overfeeding system**, with loading cell and digital display to program the requested tension for the take-up yarn or Lycra





# MOD. VA-2

## ELECTRONIC CONE WINDING MACHINE

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

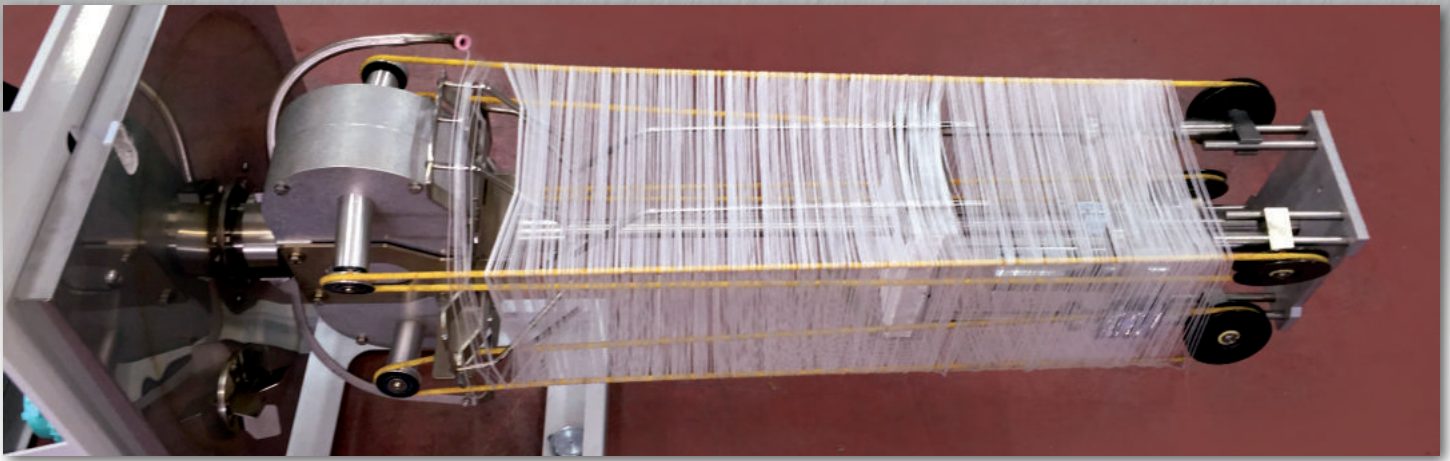


### VA-2 DESCRIPTION

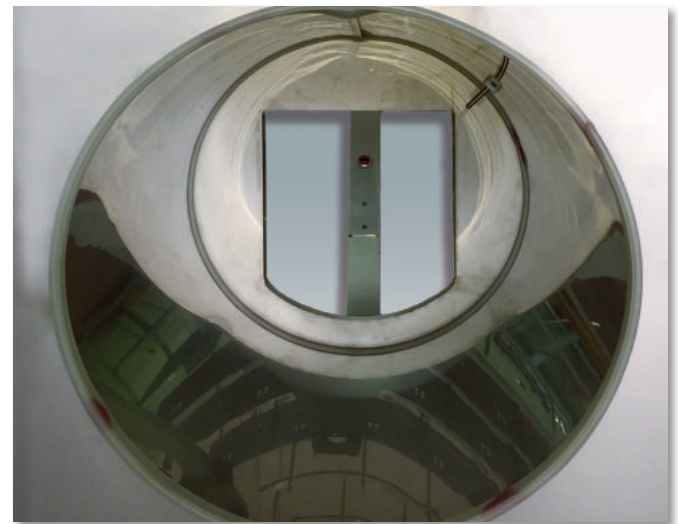
**Designed for continuous bulking and shrinkage of acrylic yarns, high bulk blends, elastomers and pre-dyed yarns.**

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.

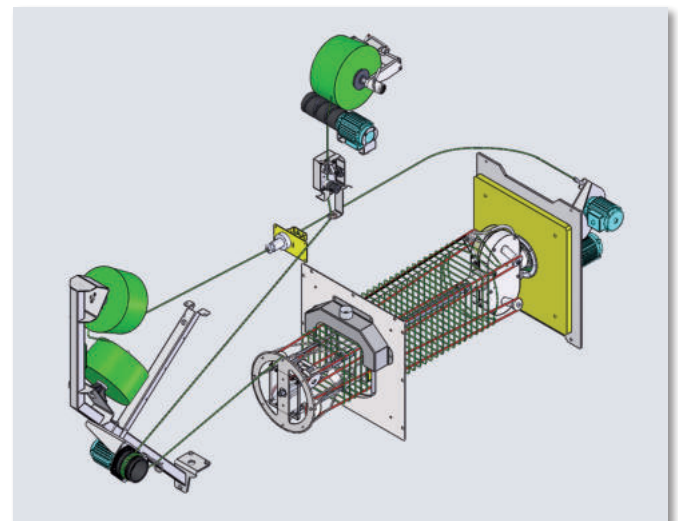




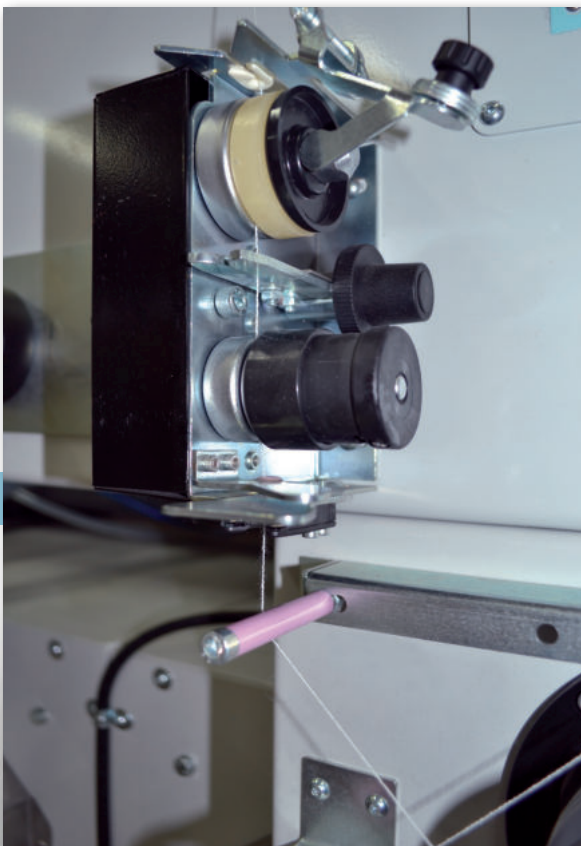
- **Programmable take-up speed** from 250 to 900 mpm
- **Dwell time of the yarn** inside the heating chamber ranges from 20 to 60 seconds, programmable with the winding speed
- Maximum **temperature** of the **heating chamber** 160° C
- **Individual stainless steel spindle chambers**, heated by electric 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



2



3



4

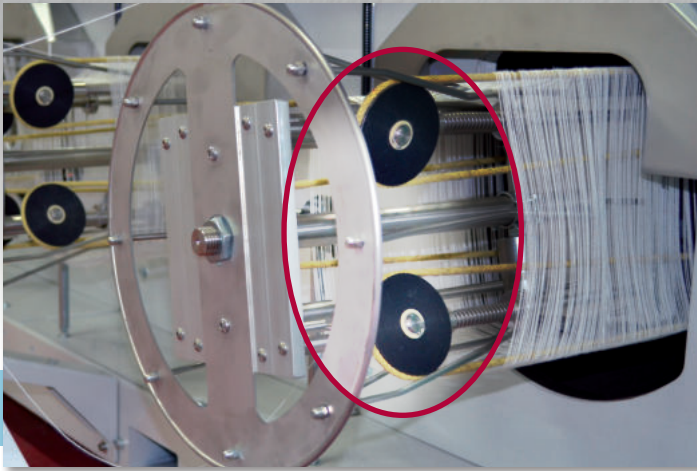


5

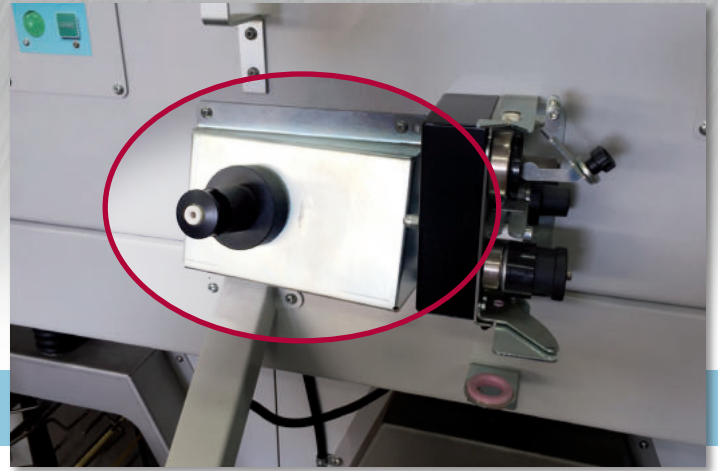
## DESCRIPTION OF THE PACKAGE FORMATION

- 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

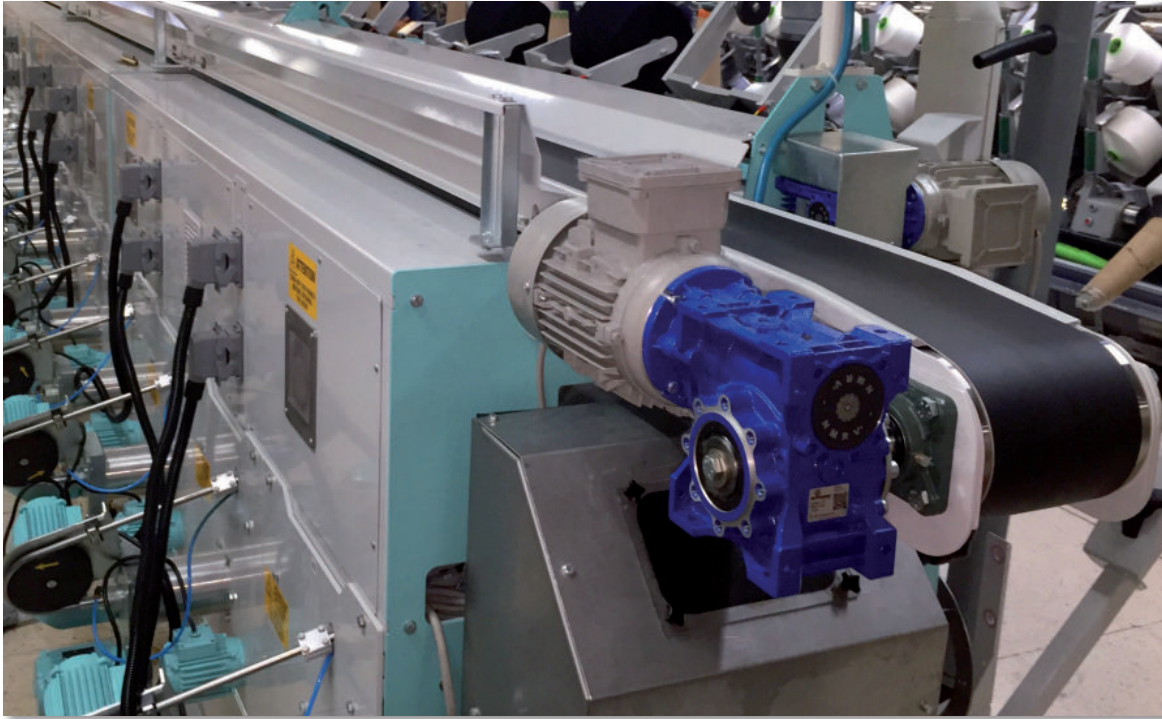




1



2



3

1  
Independent  
pulleys with self  
compensation

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

3  
Cones conveyor  
belt





# MOD. VA-2

## ELECTRONIC CONE WINDING MACHINE

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

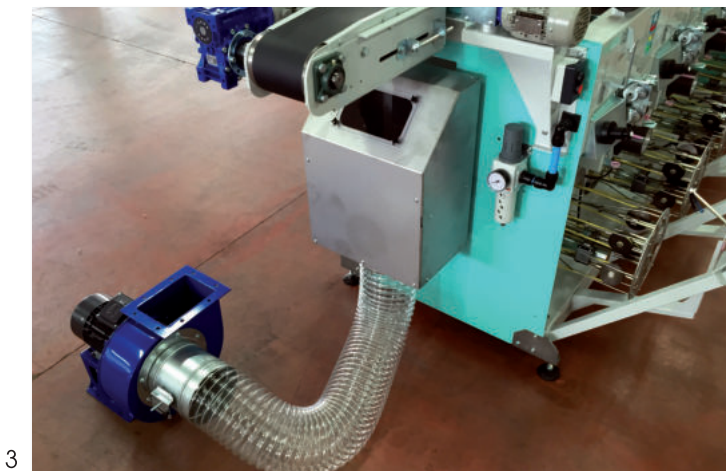
### DESCRIPTION OF THE AUXILIARY MOTORS



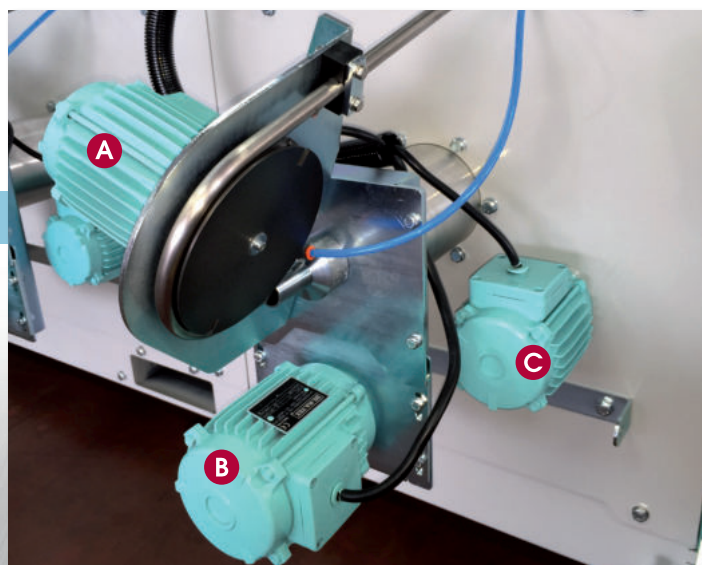
1



2



3

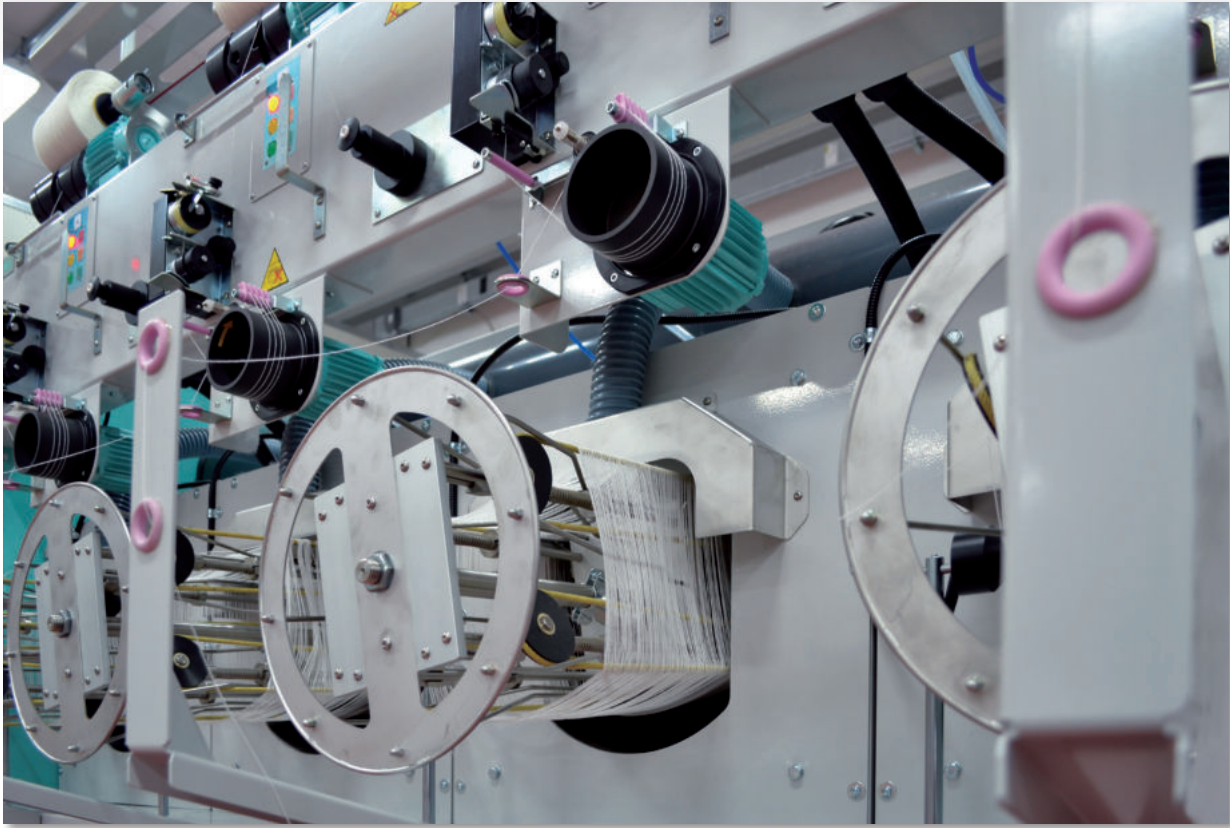


- 1 Feeding creel with **top and tail system**
- 2 **Trolley** for the coiler's removal
- 3 **Fume evacuation** with dust filter

- 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

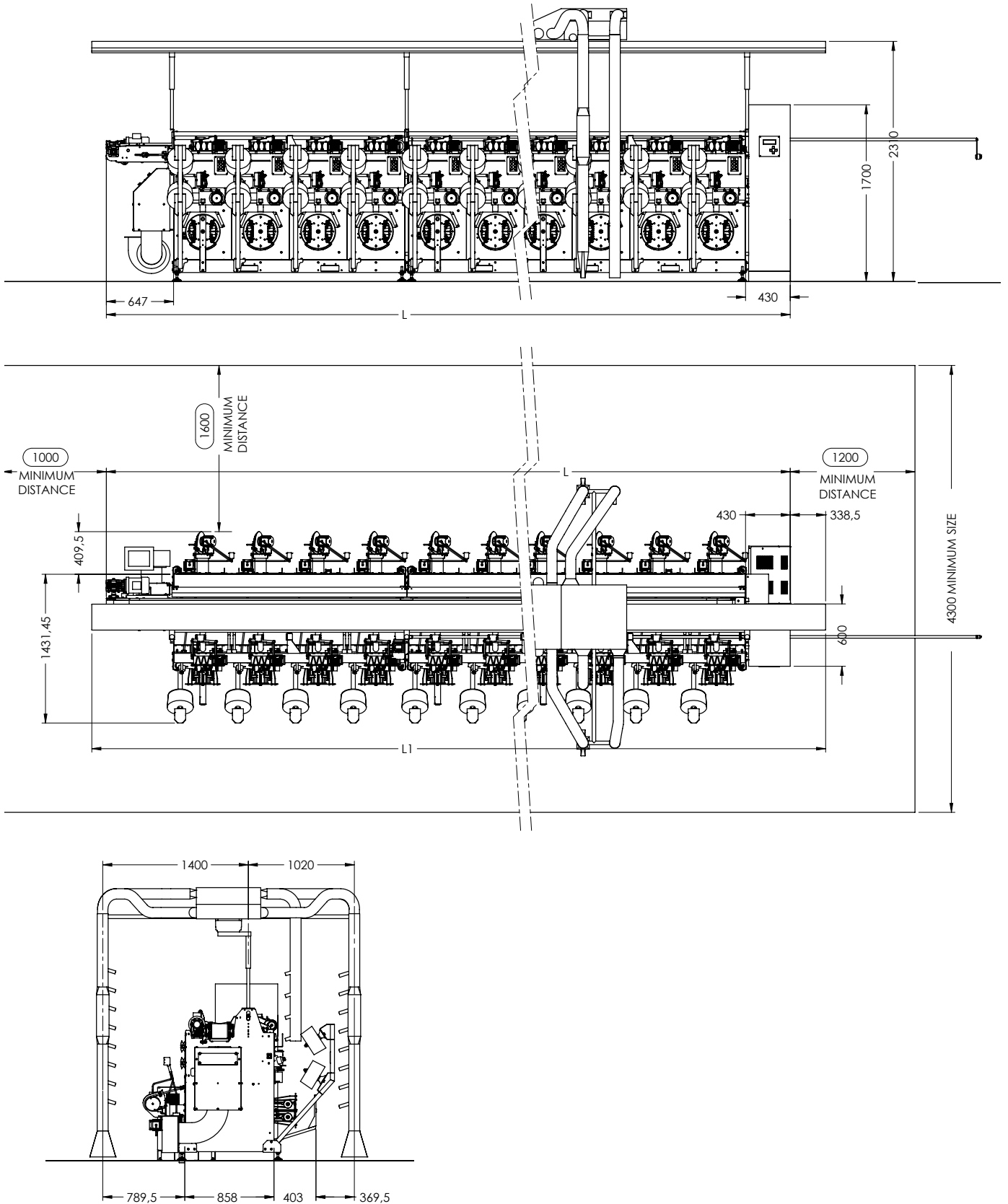


DETAILS OF THE FRONT AND BACK VIEW OF THE BULKING AND SHRINKAGE WINDER





# 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

# MOD. ATMOS 4.16

## CONTINUOUS STEAMING

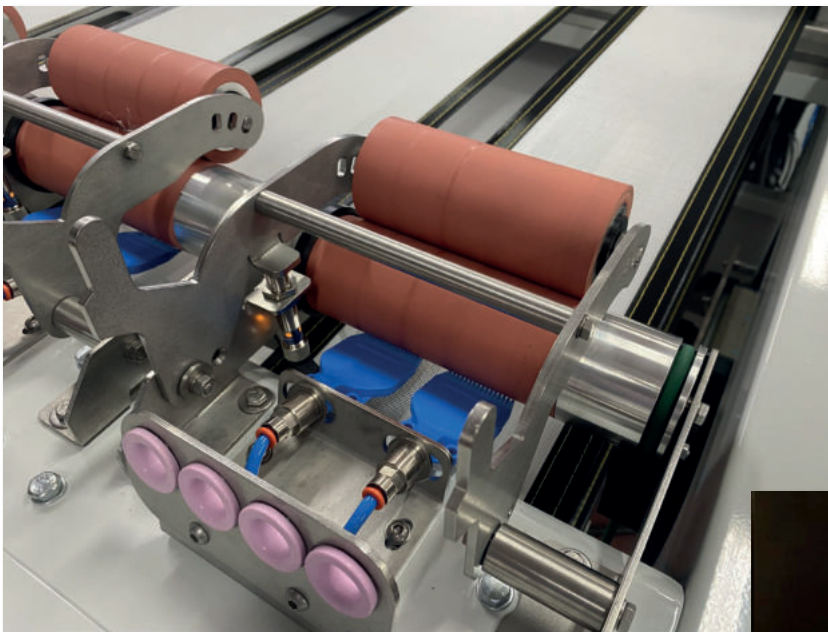
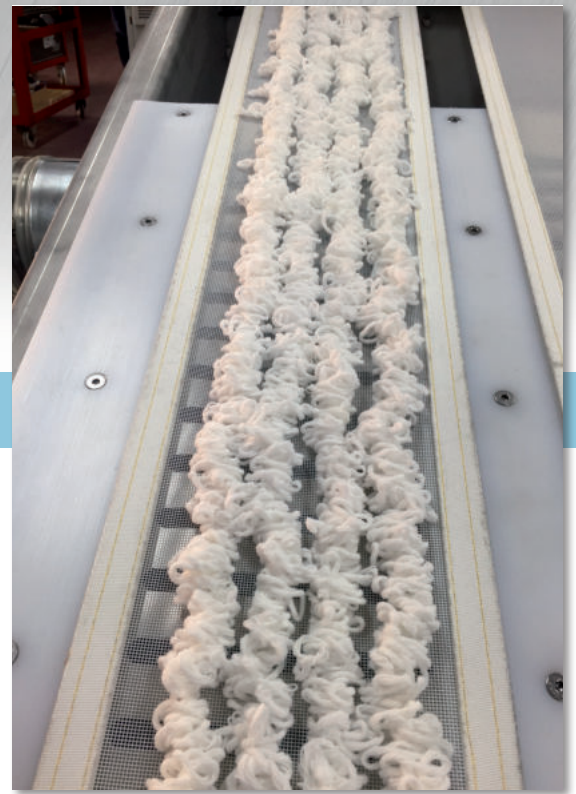
Designed to **bulk and to shrink crocheting and knitting yarns** ranging from Nm 0,2 up to Nm 20



### TECHNICAL DATA

- **4 independent tracks**
- Possibility to process up to **4 plies per track** (16 plies in total)
- **Maximum feeding speed** of the yarn 350 m/min
- Feeding speed of the yarn on the conveyor and independent speed of each conveyor adjustable from the touch screen
- Dwell time of the yarn inside the heating chamber ranges from 10 to 60 seconds
- 3 m long **stainless steel heating chamber**
- **Steaming injection** through a pneumatic controlled valve





**Touch screen control panel:**

- feeding speed of the yarn
- speed of the conveyors
- temperature regulation, 98°C maximum at sea level
- intervention time adjustment of the photocells on delivery
- light indication of the working status



- pressure reducer
- microperforated pipes distribute the steam inside the heating chamber
- probe to detect the temperature inside the heating chamber
- suction yarn's cooling system on delivery
- 2 optical sensors per track to detect the yarn's presence on delivery
- feeding creel with 2,3,4 packages holders per track + 1 reserve
- upon request the feeding creel can be prepared for 4 positions per track (4 working + 1 reserve)



# CAKE WINDING MACHINE

## MOD. ARTOS 1.4 FOUR POSITIONS

With independent regulation

### TECHNICAL DATA

- structure **with 4 cakes with independent regulation**
- Independent regulation of the speed of the coiler's disc and overfeeding system via potentiometer/inverter, providing cakes of various densities
- **Adjustable speed** from 1 up to 550 m/min
- Yarn detection sensor
- Cake's thickness sensor
- Coiler with pneumatic piston and adjustment valve to select the softness of the cakes





## CONTINUOUS STEAMING MACHINE MOD. ATMOS 4.16

### Power installed:

- four 0,12 Kw motors run by inverter for feeding the yarn
- four 0,12 Kw motors run by inverter per conveyor belt
- one 2,2 Kw motor for air suction
- 400V 3 phase 50/60 Hz
- 3,5 Kw in total

## ARTOS 1.4 CAKE MACHINE, 4 POSITIONS

### Power installed:

- four 0,09 Kw motors run by inverter for the cake's lower rotating disc
- four 0,18 Kw motors run by inverter for the upper coiler distributing the yarn
- four 0,18 Kw motors run by inverter for the overfeeding system at the entrance of the yarn
- 400V 3phase 50/60 Hz
- Kw 1,8 in total

Upon request the machine can be equipped with:

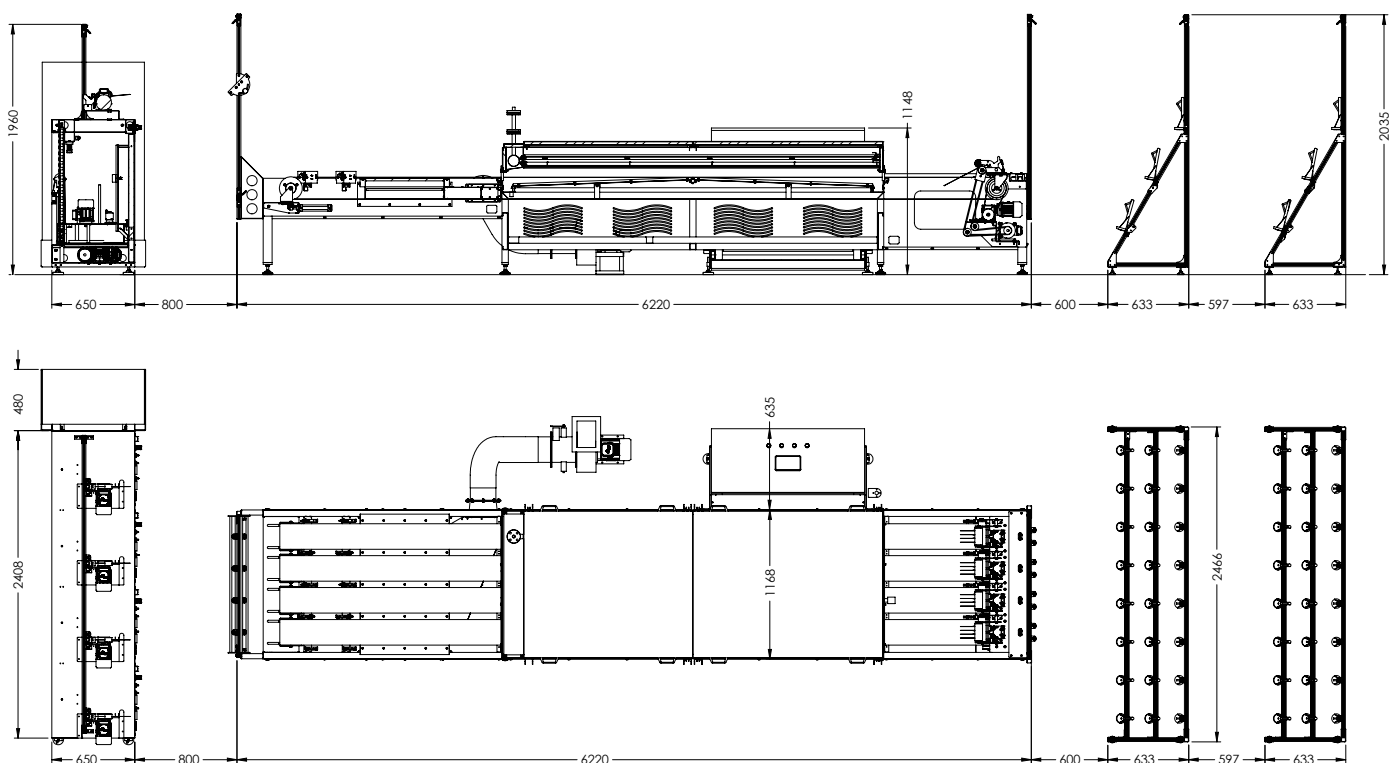
**Electrical steaming generator** mod. MAXI 60, 55 l capacity, with 2 separate sets of electrical resistance 20 Kw each (1 working and 1 in reserve), working pressure 5 bar

Power installed 20 Kw

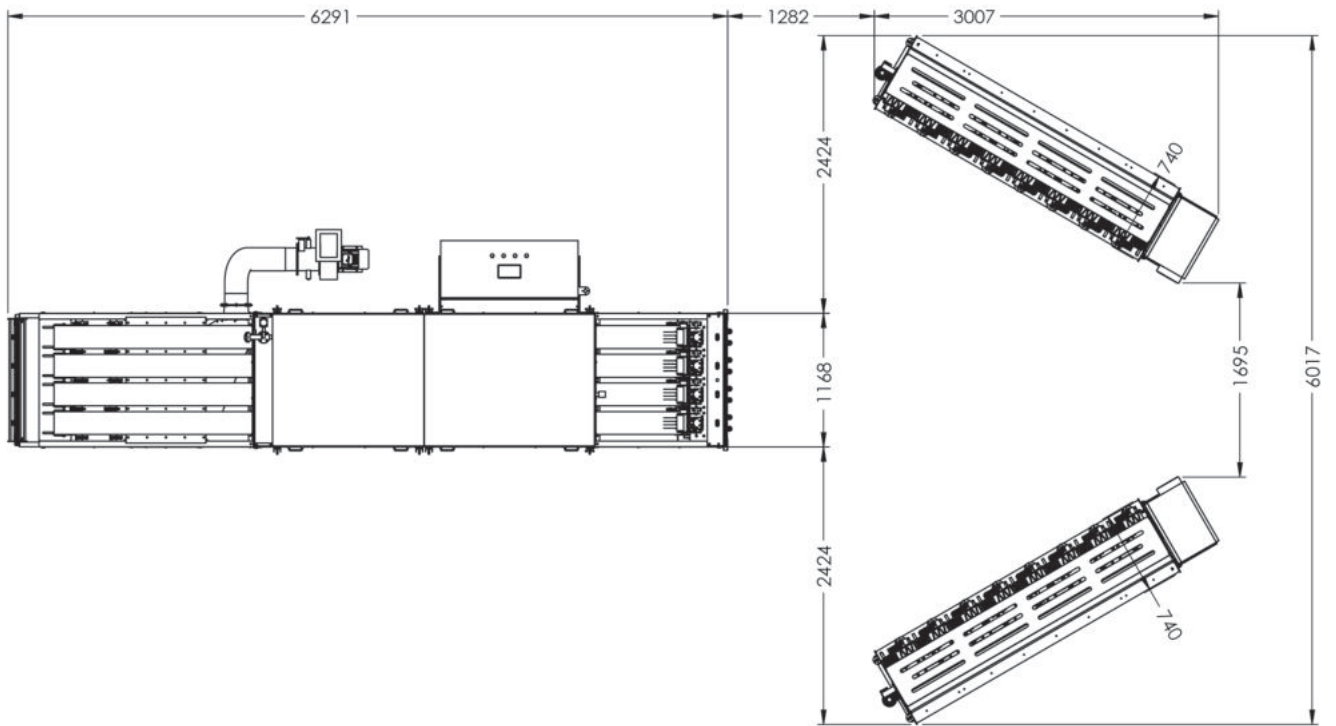
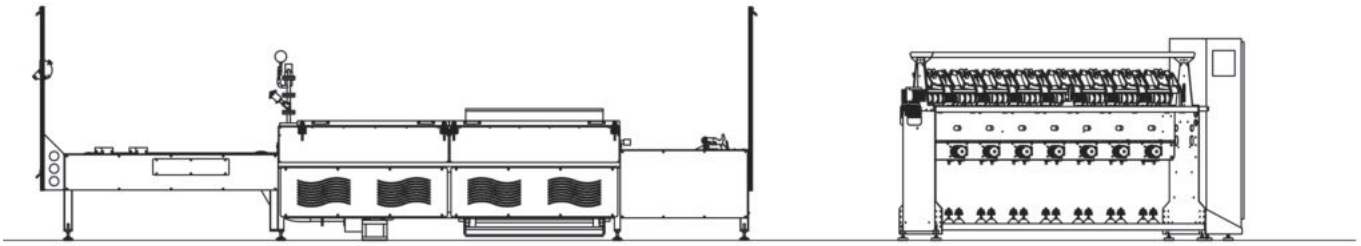
Absorption at 95° C ±15 Kw/h

Weight 670 kg

## ATMOS 4.16 CONTINUOUS STEAMING MACHINE LINKED WITH THE ARTOS 1.4 CAKE MACHINE



ATMOS 4.16 MACHINE LINKED WITH THE WINDING MACHINES MOD. CA WITH N. 8 HEADS EACH





# MOD. VAP - 1000

## AUTOMATIC AND ELECTRIC STEAMING MACHINE

AT ATMOSPHERIC PRESSURE



### TECHNICAL DATA

- Inner and outside stainless steel structure
- Inner sizes 702 x 615 x h 495 mm
- Total capacity 18 packages (9+9 in two rows)
- Overall outside dimensions 977 x 1055 x h 930 mm
- Internal ventilation fan
- Condensation drainage pipe and water connection
- Hermetic door
- 220V single phase



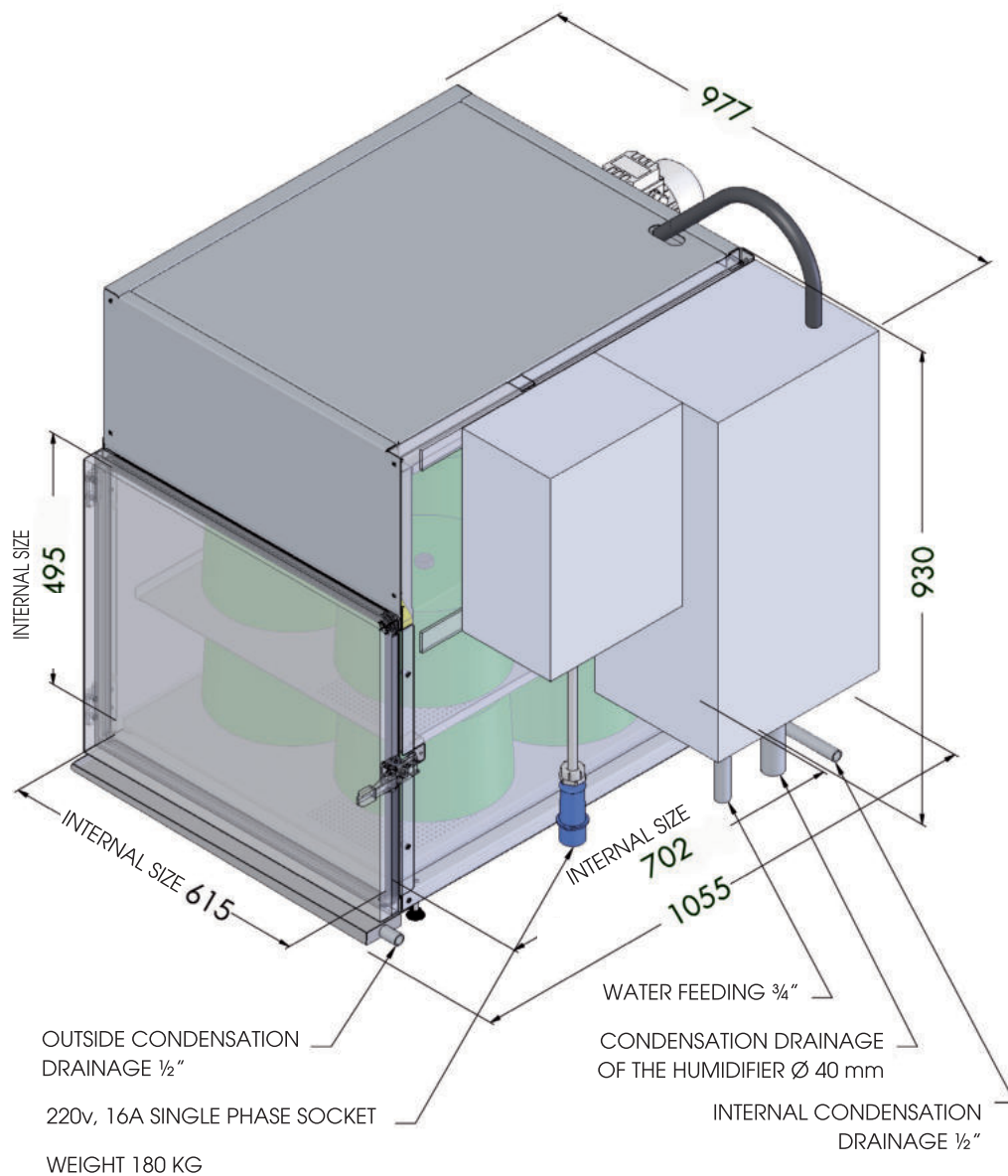
### Electric steam generator with submerged electrodes

- Power installed 2,2 Kw. Steam production from 0,6 up to 3 kg per hour
- Temperature selection on digital display
- Maximum temperature 94° C at sea level

### Electric panel-board (photo 1)

- Digital display to set cycle time
- Blinking light of the cycle end

## AUTOMATIC AND ELECTRIC STEAMING MACHINE MOD. VAP-1000





# MOD. VAP - 3000

## AUTOMATIC AND ELECTRIC STEAMING MACHINE

At Atmospheric Pressure



### TECHNICAL DATA

- **Stainless steel** tubular structure
- **Stainless steel** internal and external coating
- **Stainless steel** loading/unloading platform
- Forced steam **circulation**





## ELECTRIC STEAM GENERATOR

WITH SUBMERGED ELECTRODES AND ADJUSTABLE POWER FROM 25 UP TO 35 Kg OF STEAM PER HOUR

### Machine setting microprocessor:

- Maximum production of steam per hour
- Set point °C
- Maximum temperature 94° C at sea level
- High/low temperature limit
- Delayed shutdown time
- Display of the water conduction

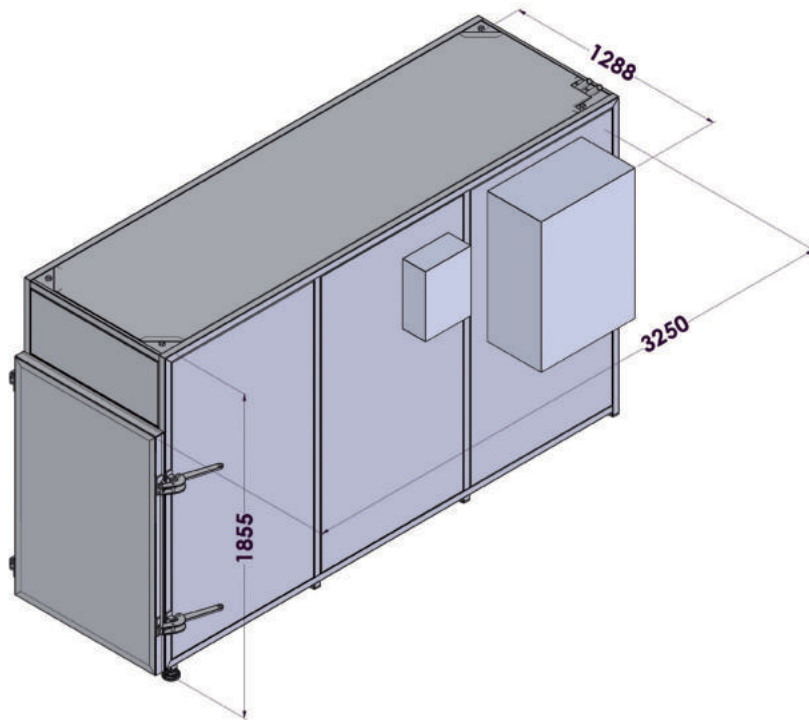
### ADVANTAGES:

- Stainless steel structure with thermic insulation to minimize the condensation of the steam and avoid passive heating
- Reduced energy consumption
- Easy and quick maintenance
- Maximum security of operation. The unit works at atmospheric pressure, hence no periodic monitoring or special permits are required
- Ease of use and of installation. The sole requirements are:
  - Appropriate electric connection
  - Water connection
  - Drainage of the condensation
  - Drainage of the steamer's washing water





## AUTOMATIC AND ELECTRIC STEAMING MACHINE MOD. VAP - 3000



### SIZE AND WEIGHT 2 TROLLEYS

Length	3250 mm
Width	1288 mm
Height	1855 mm
Weight	830 Kg

**VAP - 3000 (2 TROLLEYS) 35 KG/H STEAM PRODUCER - max installed power 26,25 kw**

### APPLICATIONS

- To fix the torsion of the yarns
- Bulking of the yarns
- Thermo-fixation of yarns and fabrics
- Rapid steaming of natural fibres
- Disinfection
- Elimination of the electrostatic charge
- The trolleys can be used for hanks, packages and ring tubes



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