

RING LAB

**** code 3108A ****

Laboratory spinning machine RING LAB is a versatile 6 spindles laboratory machine for ring spin yarn production from a huge variety of natural fibres and staples filament and their blends starting from sliver or roving condition. The instrument is endowed with a drawing system of 5 pairs of drawing rollers that assures a total draw up to 400 times. The feeder system allows the use of fibres from sliver, supplied from Stirolab code 3371 drawing machine, or from roving, supplied from roving frame.

This RING LAB spinning machine allows laboratory investigations on:

- Blended yarns from different fibres compositions.
- Determination of the best conditions for spinning.
- Best choice of accessories such as cots and aprons, rings, travellers etc.
- Small samples for end-user evaluations.

Yarn count to be spun from Ne 8 up to about Ne 80. Yarn counts are purely indicative and dependent on variables and factors as fibres fineness, yarns count, general fibres conditions, etc.



RING LAB is endowed with a built-in display showing the functions:

- Spindle revolution per minute;
- Partial drawing;
- Total drawing;
- Twist;
- Yarn speed production in metre per minute.

RING LAB is supplied with a creel with 12 positions for both roving bobbins and sliver bobbins.

In case of order, the RING LAB machine configuration must be confirmed according to customer needs, and following the instrument technical sheet below.

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SPECIFICATIONS	UM	FIBRES Length (one set included and needed)		
		Short	Medium	Long
Fibres length range	mm	20 - 40	40 - 54	54 - 60
Drawing system	gauge	Short	Medium	Long
N° of pair of drawing rollers	nr	5	5	5
Spindle max speed	rpm	25.000	25.000	25.000
Tube height	mm	200	200	200
Ring rail standard flange 1, diameter	mm	45	45	45

Instrument configuration optional (at least one needed)

- Set short fibre drafting 20 - 40 mm, code 3108A.26.
- Set medium fibre drafting 40 - 54, code 3108A.28.
- Set long fibre drafting 54 - 60, code 3108A.30.

For (wool & luxury) worsted fibres range from 80 up to 180 mm MUST be used the drawing system with n°3 pair of drawing rollers.

For this new machine configuration it is necessary changing the actual drawing system and mounting the kit code **3108A.2** special drawing system for very long fibres.

It is also suggested the use of the optional Ring rail for wool fibres flange 7/16, code **3108A.4**

NOTE 1: in case of instrument set up of worsted fibres (wool fibres), the use of the drawing StiroLab code 3371 is mandatory.

NOTE 2: for a correct set up and final test of the instrument, before delivery, the CUSTOMER should send adequate quantity of fibres, as well as any technical sheets regarding fibres and yarns, to Mesdan spa.

Accessories

- Ring rail for wool fibres flange 7/16, code 3108A.4.
- Kit of drawing system with n° 3 pair of drawing rollers, code 3108 A.2
- Spinning tubes - pack of 100 pcs, code 3108A.6.
- Kit core spun, code 3108A.16.

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CARATTERISTICHE GENERALI	GENERAL FEATURES
Strumento equipaggiato con sei fusi	Instrument endowed with 6 spindles
5 coppie di cilindri di stiro - Set stiro fibre corte, da 20 fino a 40 mm, code 3108A.26 - Set stiro fibre medie, da 40 fino a 54 mm, code 3108A.28 - Set stiro fibre lunghe, da 54 fino a 60 mm, code 3108A.30	5 pairs of drawing rollers - Set short fibre drafting 20 - 40 mm, code 3108A.26 - Set medium fibre drafting 40 - 54 mm, code 3108A.28 - Set long fibre drafting 54 - 60 mm, code 3108A.30
Altezza del tubetto versione standard 200 mm	Tube length: 200 mm standard speed
Diametro anello di bancata standard 45 mm	Flange ring diameter: 45 mm standard
Velocità di rotazione dei fusi standard da 3.500 a 25.000 giri al minuto	Standard Spindle Speed (rpm): 3.500 - 25.000
Stiro totale massimo disponibile: 400	Total max draft available: 400
Torsioni range da 240 a 2160	Twist range (TPM) from 240 up to 2160
Cantra portarocche per 12 bobine di nastro o stoppino	Creel: Up to 12 sliver/roving bobbins
Regolatore di velocità comandato da inverter	Variable speed drive
Guidafili sulla traversa mobile	Traversing thread guides
Anelli di controllo ballon sulla traversa mobile	Traversing balloon control rings
Aspirazione fili rotti	Suction under-clearers
Pannello di controllo con display digitale in tempo reale per i dati di torsione lineare, rapporto di stiro.	Digital real-time display and control panel showing RPM, TPM, Break and Roller Draft
Potenza motore elettrico principale 2,2 kw	Main driver motor power 2,2 kw
Potenza motore elettrico aspiratore 0,56 kw	Fan motor power 0,56 kw
Alimentazione elettrica: 230 V mono fase – 50/60 Hz	Power supply: 230 V single-phases – 50/60 Hz
Alimentazione elettrica: 115 V mono fase – 60 Hz	Power supply: 115 V single-phases – 60 Hz
Dimensioni (L x P x H): 700 x 960 x 1820 mm	Dimensions (L x W x H): 700 x 960 x 1820 mm
Peso netto: 335 kg	Net weight: 335 kg

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OPTIONAL	OPTIONAL
Banchina per fibre laniere flangia 7/16, code 3108A.4	Ring rail for wool fibres flange 7/16, code 3108A.4
Kit stiro a 3 coppie di rulli, code 3108 A.2	Kit of drawing system with n° 3 pair of drawing rollers, code 3108 A.2
Tubetti di filatura, confezione da 100 pezzi, code 3108A.6	Spinning tubes - pack of 100 pcs, code 3108A.6
Kit core spun, code 3108A.16	Kit core spun, code 3108A.16
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