

# 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 ring 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 count are purely indicative and dependent from 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 places for both roving bobbins or sliver bobbins.

In case of order the RING LAB machine configuration must be confirmed according customer needed and following the instrument technical sheet



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SPECIFICATIONS	UM	FIBRES Length		
		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

For 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.

Customer may choose also in pair the use of the 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
- Set short fibre drafting up 40 mm, code 3108A.26.
- Set medium fibr drafting 40-54, code 3108A.28.
- Set long fibre drafting 54-60, code 3108A.30.
- Spinning tubes - pack of 100 pcs, code 3108A.6.
- Kit core spun, code 3108A.16.

CARATTERISTICHE GENERALI	GENERAL CHARACTERISTICS
Strumento equipaggiato con sei fusi	Instrument endowed with 6 spindles
5 coppie di cilindri di stiro.	5 pairs of drawing rollers.
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.

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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 Hz.	Power supply: 230 V single-phases – 50 Hz.
Dimensioni: 600(L) x 500(P) x 2000(H) mm.	Dimension: 600(L) x 500(W) x 2000(H) mm.
Peso netto: 280 kg	Net weight: 280 kg
<b>OPTIONAL</b>	<b>OPTIONAL</b>
Banchina per fibre laniere flangia 7/16, code <b>3108A.4.</b>	Ring rail for wool fibres flange 7/16, code <b>3108A.4.</b>
Kit stiro a 3 coppie di rulli, code <b>3108 A.2</b>	Kit of drawing system with n° 3 pair of drawing rollers, code <b>3108 A.2</b>
Set stiro fibre corte, fino a 40 mm, code <b>3108A.26.</b>	Set short fibre drafting up 40 mm, code <b>3108A.26.</b>
Set stiro fibre medie, da 40 fino a 54 mm, code <b>3108A.28.</b>	Set medium fibr drafting 40-54, code <b>3108A.28.</b>
Set stiro fibre lunghe, da 54 fino a 60 mm, code <b>3108A.30.</b>	Set long fibre drafting 54-60, code <b>3108A.30.</b>
Tubetti di filatura, confezione da 100 pezzi, code <b>3108A.6.</b>	Spinning tubes - pack of 100 pcs, code <b>3108A.6.</b>
Kit core spun, code <b>3108A.16.</b>	Kit core spun, code <b>3108A.16.</b>
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