Trusted over
25
Years

SERVO

website:www.servos.in

Quality
through
innovation

Bobbin Holder

Makes a Catalystic Difference

Bobbin Holder

Servo Bobbin Holder has become a symbolic name for quality, efficiency, economy and greater acceptance world wide. This has been tracked by continuous improvement in quality and trouble free performance of our product

Features

- Servo universal Bobbin Holder is suitable for any range of Ring spinning frames.
- Fully closed type to protect fly & fluff entering into inner mechanism.
- Spherical self centering ball bearing mechanism enables unwinding of riving Bobbin in various weight / sizes. Suitable for cotton, man made fibers & worsted.
- Plastic components are moulded with high quality antistatic engineering grade polymers.
- All components arte designed & made with high glossy finish with smooth edges to prevent fly & fluff sticking in Bobbin Holders.

Spherical self centering Bearing

Spherical self centering ball bearing concept is made out of high quality stainless steel ball which runs in self lube polymer race ways, which results in smoother rotation, less wear and trouble free durable operation. The impact of loading & unloading of Bobbins do not affect in the spherical self centering of servo Bobbin Holders.

Brake Force System

The brake force designed on the spherical self center ball bearing system which allows the brake system to neither creel over run non stretch. It delivers Roving Tension precisely from the start to end of the Bobbin.

Servo Bobbin Holders for worsted spinning & Auto Creel

Range of Servo Bobbin Holders

- Cotton Spinning
- Man Made Fibers Spinning
- Worsted Spinning
- Auto Creeling System
- Speed Frame
- Reserve Bobbin – Non-rotating

Bobbin Holder

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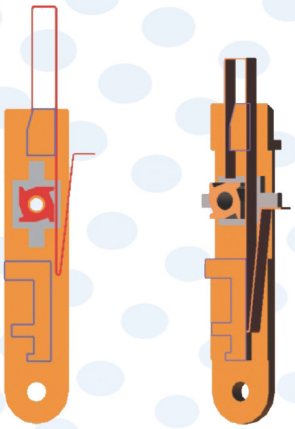


Ratchet Mechanism

Servo Ratchet mechanism has been designed & tested under various conditions which ensures trouble free smooth operations for a longer time period. This simple smooth reliable positive mechanism cushion the impact made on loading and unloading of Roving Bobbin.

Non Rotating type (with Rocking system)

This type of Bobbin Holder is used to store the reserve Roving Bobbins in the outer row of the creel. The rocking system (tilting) enables easy loading and unloading of Bobbins. Different colour dust caps are used for identification.

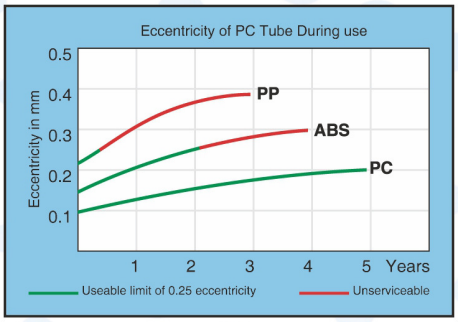
Rocking System

Spherical self centering concept helps the Roving hanger to run / deliver smoothly with constant brake force, which makes easier to load and unload Bobbins in spite of any row on creel at any position.

Internal Brake System

The Internal spherical braking mechanism enables constant brake force to avoid overrunning / stretch in unwinding of roving, which reduce classimat faults in yarn. Special grade non-corrosive stainless steel coil spring is used to sustain the spring tension throughout the life of bobbin holder.

Servo Yarn Carriers



Technical – Terms

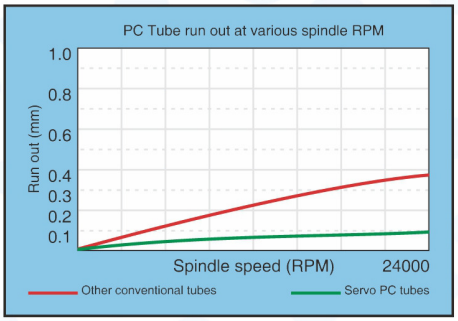
Yarn winder area distance in the tube is known as Lift of the Ring Tube.

Angle of pull. The angle of pull depends upon the ring diameter and tube diameter.

YRG – A small step groove is provided in the bottom hole of the Ring tube, which accommodates the yarn on the spindle and avoids tube jamming.

$$\text{Sin A} = \frac{\text{Ring tube ø}}{\text{Ring ø}}$$

The higher the angle lesser the end breakages.



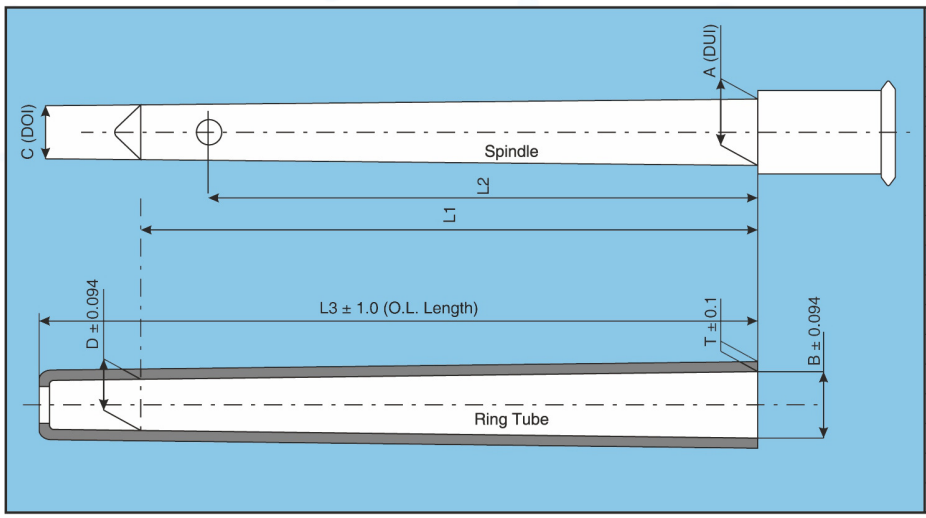
Eccentricity – Variation in circularity on the diameter of the ring tube is known eccentricity. Lower the eccentricity in Ring Tube will result in higher quality and performance of the Ring Tube. PC ring tube has an eccentricity of upto 0.1 mm. During normal usage it tends to increase due to the work stress and strain.

WT – Wall thickness in Ring tube near spindle button has maximum load and friction due to higher speed. Hence higher wall thickness with low eccentricity is optimum for high speed Ring frames.

Taper – The normal tube taper are 1:38, 1:40 and 1:64
1:40 Tapes = 1mm diameter difference in 40mm length.

Tube clearance – The clearance between Ring Tube & Spindle is called as Tube clearance. Lower the clearance lower the eccentricity in high working spindle speed. Tube clearance should be maintained in such a manner that is should with stand the contraction caused by winded yarn on tube, for easy removal.

Model Specification Chart for Ring Tubes



Spindle Details	
Make	
Length - L1	
Length - L2	
Diameter (DUI) - A	
Diameter (DOI) - C	
Taper	
Doffing Type	Auto / Manual
Ring Tube Details	
Length - L3	
Diameter (DUI) - B	
Diameter (DOI) - D	
Wall Thickness - T	2.2 / 2.6
Material	PC / ABC
Colour	
Quantity	
Streaming Temp.	

Ring Frame Tubes

Ring Frame Tube Sizes		
Length	Dia (DUI)	Wall Thickness
180	18	2.6
190	18	2.6
200	18	2.2
200	18	2.6
200	20	2.2
200	20	2.6
210	20	2.2

Fluff Protector

Fluff protector which protects accumulation of fly dust in rowing bobbins and bobbin holder during the spinning process.

Simplex Bobbin

Flyer Bobbins are made as per the textile machinery manufacturer's dimensional specification of International Standards.

Made out of superior grade of polymer's (ABS, PP) to ensure durability and longer life

Eccentricity is minimized within the tolerance to achieve higher Simplex Spindle rpm

The clearance / tolerance is closely maintained between spindle and bobbin to ensure no jerk or jump of bobbins while starting and in running of the machine

Top ID bore is made to fit all standard Bobbin Hangers without any difficulty

Suitable for wide range of machineries

Surface groove designed to ensure hold, until the last layer roving in its position.

SERVO

SERVO POLYTECH COIMBATORE (P) LTD

S.F. No. 189, Mahathma Gandhi Road,
Neelikonampalayam, Coimbatore - 641 033.
Tamilnadu, India.

Phone : +91 - 422 - 2271888, 2271999, 2271900
Fax : +91 - 422 - 2271600
E-Mail : servo@servos.in, servoplastics@hotmail.com
Website : www.servos.in

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