

VORTEX III 870/MURATA VORTEX SPINNER VORTEX III 870

A. Host computer

- 1.machine model: VORTEX III 870
- 2.Number of devices: 12sets
The first batch 6sets #01-#06 set
The second batch 6sets #07-#13set
- 3.Spindle/set:96 Spindles (8Spindle/section,total 12 sections/set)
- 4.spindle pitch: 235mm
- 5.Total machine length:26,379mm Blowing installment,Orbit not protruding
- 6.aeroplane heading:The right car M/C No.1,3,5,7,9,11car
The left car M/C No.2,4,6,8,10,12 car
- 7.Power: 380 Volt,50hz
- 8.Power supply direction(headstock):from bottom to top(machine)
- 9.Wind direction(tailstock):up exhaust
- 10.Direction of compressed air supply(headstock):from bottom to top(machine)
- 11.The machine color: Murata Standard blue and white

B. Yarn, raw material, cotton sliver

1. Kind of yarn, Usage: 100% viscose knit/weaving yarn
Washing info/glue knit/weaving yarn
Cationic polyester/viscose knit/weaving yarn
2. yarn count range: Ne 16-Ne 50 (main breed Ne 20-40)
3. direction of twist: Z entwist

4. Supply sliver weight:24.8g/5m -12.4g/5m(70Gr/yard-35Gr/yard)

5. raw material (Fiber): Polyester:38 mm x 1.0 - 1.5 D

Supplier: Sanfangxiang, Yizheng and other suitable for vortex spinning raw materials

viscose:38inm x 1.0 - 1.5 D

(Supplier: Tangshan Sanyou, Sidley, Longda, etc.) The number of bong yarn blood cut fiber should be at least 90

6. coloured fibre: raw material: have

Color : have

Ratio of colored fiber content:0%-60%

7.Barrel size: 18 inches (450mm) outside diameter, 42 inches (1060mm)

(recommended height 1000-1500mm)

C.Spinning Technology Parameters

By the VOS-ILL main control

computer touch operation disk can input/change

1.Spinning speed 300m/ min -500m/ min (machine limit)

2.Total draft ratio 100-450 (machine limit at 500m/ min)

3.Rear draft ratio 1.5-5.0

4.Intermediate draft ratio 1.1-5.0

5.Main draft ratio 13.5-80 (machine limit at 500m/ min)

6.Feed more than 0.9 to 1.1

7.Winding than 0.9 to 1.1

D.Winding area

1. Traverse range 6 inches

2. Winding power shaft type slot contact drive

3. Transverse movement power shaft type yarn guide nozzle transverse movement

4. transverse power gear box : 2 sets of/set

The transverse power gear box should be fixed directly on the workshop floor by special screws.

- Please refer to "Other Requirements" below. The seventh item and do the relevant preparatory work

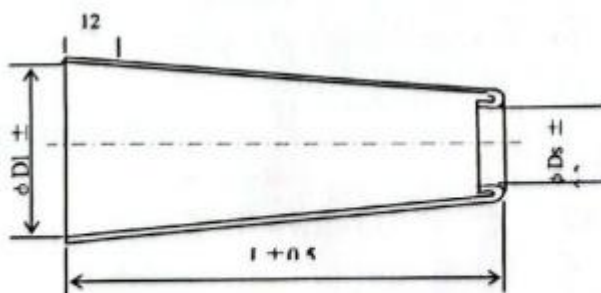
5. Winding Angle: 5-57 Conical tube yarn

6. Maximum diameter of tube yarn: 300mm

7. The maximum weight of tube yarn: about 3200GR.

8. The dimensions of the winding bobbin recommended by Murata are as follows:

Angle	Small head diameter	Big head diameter	length	material
5°57"	28.3mm	68.5mm	174.5mm	paper



E. Main Specifications

1. Model: VORTEX III 870

2. Number of spindle/set: 96 spindles/set

3. Tampon rack: 2 strip type (16, 18 inch barrel)
4. Drafting: 4-wire roller - see "F drafting Zone" for details -
5. Nozzle: Orient nozzle, Z-twist • 12 sets, main assembly specifications
6. Spindles: 12 sets of OriENT-M medium spindles (count range NE20-45), main assembly specifications
7. Fiber conduits: Orient conduits, 12 sets, main assembly
8. Electronic Yarn Cleaner: MSC (Muratec Murata Photoelectric Yarn Cleaner)
With "coarse, fine, long coarse, long fine, cotton section, count" and other channels
9. FFD non-fiber testing function: no unnecessary (for optional)
10. Spinning tension sensor: standard configuration
11. Self-tightening yarn guide roller: standard configuration
12. Ingot wing: rigid (take the production of pure viscose Ne30 as an example, the standard life of 1 year)
13. Waxing device: yes Wax block size: length/outer diameter/inner diameter 45mm/38mm/ L3mm
14. Joint mode: air splicer - see "G Air Splicer" for details
15. Automatic doffing trolley (87D) : 1 / set (automatic doffing, automatic tube change)
Walking speed: 25m/ min, doffing cycle: 15 seconds/time
16. Full cylinder conveyor belt: Yes
With intelligent speed adjustment function (16 m/ min & 24 m/ min).
M/CNo.# 1 car from left to right
M/CNo.# 2 from right to left
17. Full barrel lifter: Yes (optional)
18. Mobile cleaning device (hair dryer only) : 1 / set (Muratec Murata)

F. Drafting area

1. Drafting system: 4-wire roller drafting
2. Lower roller drive mode: front roller/middle roller, shaft drive
Third/fourth roller, separate motor drive
3. Spacing: suitable for 1.5 inch fiber (fiber length below 40mm)
4. Roller spacing: adjustable A, B, 1 and 2
5. Roller joint pressure: 2 section adjustable mechanism (button type)
6. Cotton collector: for chemical fiber yarn (6/5/4/3/2mm)
7. Feed cotton strip into the bell mouth :9mm
8. Upper roller maintenance device (anti-roller winding device) : pad type
9. Roller maintenance device (anti-roller winding device) : belt type (Blet type)
10. Front roller (roller) : Hardness 78 degrees (blue)
11. Upper/Lower leather ring: Model: as recommended by Murata

G. Air splicer

1. Splicing car (87C) Quantity: 4 / set (can be responsible for the number of splicing 400 times/hour/set) walking speed 35m/ min, splicing cycle 10 seconds/time

2. Specifications of splicer: Splice nozzle: G2Z

front plate:FB1

presser bar : H

Untwisting tube : N2(standby applicationN55)

H. Manage the system

1. Master control system: VOS-III (Visual intelligent master control computer system) spinning parameters, yarn quality, operation management and security management
2. Alarm indicator: each spindle is equipped with an alarm indicator.

I. Other specifications

- 1 host foot pad: Base Plate: Standard
2. Return wire collection box (when the box is full, the alarm light of the host will be on, and VOS-III will inform)
3. Automatic cotton drop discharge device
4. Compressed air setting control panel
5. Winding tube storage (up to 160 tubes)
6. Fixed length winding device (automatically stop winding when the yarn is full)
7. Self-tightening yarn guide roller sensor
8. Spare Parts: 1 set

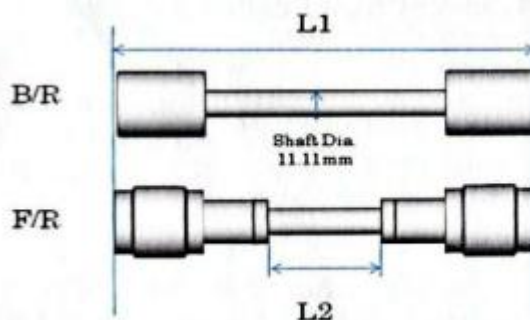
J. options

1. Tube yarn lifter (at the back end of conveying tape) : 12 sets
2. Spare Orient spindles (coarse/medium/fine) : 12 sets
 - In the first batch of 6 sets, 6 sets will be delivered (C thick branch X2,M medium branch X1,F thin branch X3)
 - In the second batch of 6 sets, 6 sets will be delivered (C with thick branch X3 ,F with thin branchX3)

K. Tools, data

1. Special tool, spacing block: 1 set/factory
2. Common toolbox: 1 set/factory
3. Connector cart (87C) handling cart :1 / factory (first complimentary)
4. Operation instruction X2, spare parts sample X1, CD CD X1
6. Special grinding shaft: 150 mm

Shaft size	L1	L2	Quantity
B/R rear rollers (third, fourth),	150mm	-	5
F/R front rollers	150mm	40mm	5



L. Motor (motor) capacity

1. Total capacity of motor with standard specification (4 splicing cars/set)

Total (a)-(j):34.8 kw/set

(a)middle roller : 2.2kw/set subtotal:2.2kw/set

(b)front roller:3.7kw/set subtotal:3.7kw/set

(c)Wind power::3.0kw/set subtotal:3.0kw/set

(d)Winding transverse motor:1.5kw/set subtotal:1.5kw/set
(e)Main blast motor:11.0kw/set subtotal: 11.0kw/set
(f) Auxiliary blast motor:5.5kw/set subtotal: 5.5kw/set
(g)Splicing trolley (4pcs / set):190w/set subtotal:0.76kw/set
(h)Small automatic doffing (1 pcs/ set):190w/set subtotal:0.2kw/set
(i) Full barrel conveyor belt:400w/set subtotal:0.4kw/set
(j) Others (third and fourth rollers, self-tightening yarn guide rollers,
etc.):400w/set subtotal:0.4kw/set
510w/section subtotal:6.1kw/set

2.Total motor capacity of optional parts

Total(k)-(m):0.8kw/set

(k)waxing device:11w/spindle Contained in (j) above

(l) Mobile cleaning device:750w/set subtotal:0.8kw/set

(m) Yarn tube lifter:5w/set Contained in (j) above

3. Total motor capacity:35.6kw/set

M. Compressed air specifications:

1.Air supply Pressure: $\geq 6.1 \text{ kgf/cm}^2 < 0.6 \text{ mpa}$ >(When enter the machine)

2.dew point: $\leq 25 \text{ Degree}$ (when Air pressure $6 \text{ KGF/cm}^2 < 0.6 \text{ mpa}$ >)

3.The bulk oil: $\leq 0.07 \text{ g/m}^3$

4.Gas consumption (maximum flow):80L(ANR)/minute/spindle Orient nozzle

