

VORTEX 861 SPECIFICATION									
A)MAIN MACHINE									
1.Type of machine	Murata No.861 Vortex spinner								
2.Number of spindles	80 spindles								
3.Main machine	215 mm spindle pitch								
4.Machine Color	Light White and Blue								
5.Yarn Clearer	MSC-F(F=Foreign materials detection)								
6.Spining speed	240 to 450m/min changing by inverter								
B)METARIAL AND YARN COUNT									
1.Material	a)kind								
	1.Target 100% Cotton as knitting(carded and combed								
	2.100%Cotton for weaving								
	3.Viscose 100% and Viscose Blended (Cotton/polyester)								
	b)Yarn count								
	1.Target Ne 40/1-Ne 60/1								
	2.Ne 20/1-Ne 60/1(Depending on the sliver and fiber)								
	c)Twist direction:								
	Z twist								
	d)Fiber lenght								
	1.Carded cotton	Ne	40/1	1,2 or longer	4,3 or finer				
	combed cotton	Ne	40/1						
		Ne	60/1	1,4 or longer	3,6 or finer				
	2.Viscose	38mm/40 mm 1,3 dtexor finer							
	polyester	38mm/40mm 1,3 dtex or finer							
	e) Sliver cans	inner Dia 18inchesx1100 mm							
C)TAKE UP PACKAGE									
1.Take up	a)Traverse	6" traverse(146mm)							
	b)Angle	4 deg 20 min							
	c)Material	Paper end plastic tube							
	d)Max diameter	Max take up diameter 300 mm							
	e)Detail dimensions	1.Tube lenght							
		2.Top outer dia							
		3.Top inner dia							
		4.Bottom outer dia							
		5.Bottom inner dia							
2.Take up creadle	Both end hold type								
3.Tension Ruler	Magnetic type								
D)Blower Exhaust									
1.Flow rate	100m3/min								
2.Exhaust direction	Bottom Vent								
E)COMPRESSOR AIR									
1.Direction of air source	From floor (Bottom)to machine								
2.Air pressure for nozzle	more than0,65 Mpa(inlet of the machine)								
3.Due point	25 degree at the pressure 0,6MPa								
4.Oil Weight	Less than 0,07g/m3								
5.Required Volume of air	Max Avea 83NI/min/spindle(For crown nozzle+spindle air)								
F)ELECTRIC POWER SUPPLY									
1.Direction of power source	From Floor(Bottom) To machine								

2.Electric sources	380 v 50 hz					
3.Voltage	indcated voltage +- 10					
4.Frequency	indicated frequency +- 1%					
G)ROOM CONDITION						
1.Operating temperature	22 to 30					
2.crelative Humidity	40 to 60%					
H)DRAFT SYSTEM						
1.Draft	4 line draft system Side plate installed=49-35-38(Spare or Adjustable 49-37-38,49-39-43,49-41-43,49-41-45,49-43-45) Bottom roller gauge:installed 44,5-35-38 Spare 44,5-39-43,44,5-41-45,44,5-43-45)					
2.Condenser	1,5mm,2mm,3mm,4mm,5mm,6mm,7mm,8mm					
3.Spring	Front 13kg apron 3kg Middle 22kg back22 kg					
4.Apron Belt	Yamauchi brown					
5.Delivery Roller	Grooved roller					
6.Middle Top roller	metal roller					
7.Back Bottom roller flute	72 teeth					
8.Bottom Cleaner	with					
9.Top Cleaner	with					
10.MFS	with					
11.Apron spacer	with(2,4 mm and 2,7mm)					
I.SPINDLE	FOR CROWN NOZZLE					
1.Spindle	1,2 mm	dia	18	sets	1440	
	1,3 mm	dia	18	sets	1440	
	1,1 mm	dia	3	sets	240	
	FOR ECO NOZZLE					
	1.2	dia	18	sets	1440	
	1.1	dia	18	sets	1440	
	1.3	dia	1	sets	80	
	1.0	dia	1	sets	80	
	1.4	dia	...		10	
	1.5	dia	...		10	
	1.6	dia	...		10	
2.Needle holder	1PZ9.017		FOR CROWN NOZZLE			
	2PZ8.8L8		FOR ECO-Z NOZZLE			
3.Back roller pulley	NO:4	30	TEETH			
B)SPLICER CARRIAGE						
1.splicer carriage	4	sets/machine				
cycle time	10	sec				
Traveling speed	35	m/min				
Splicer nozzle	G2Z					
2.Auto doffer	1	set/machine				
doffing cycle	12	sec				
Traveling speed	30	m/min				