

Item No.	Equipment	Quantity	Specifications	Supply scope
2101	Take-Up Machine			
2101-1	Frame	12 sets	a. 1sets/6pos.,12ends/pos.	S
2101-2	Safety Guard on Platform	12 sets	a. 1sets/6pos.	S
2101-3	Ladder (or Stairs)	1 lot	a. 2sets/1line	<u>Rev.10</u> S
2102	Yarn Guide Set			
2102-1	Yarn Guide Bracket	72 sets	a.For 12 thread lines/pos. without Yarn Guide	S
2102-2	Yarn Guide	72 sets	a.12guides/set b.1set/pos.	S
2103	Spin Finish System			
2103-1	Roll Oiling(RO)	72 sets	a.Oiling Roller ϕ 150×260L b.Bracket&Trough	S
2103-2	RO Driving Device	72 sets	a.Motor &Reducer b.lset/lpos	S
2103-3	Finish Oiling Tank	3 sets	a.For RO b.With pump &motor c.1set for Machine No.E-1~E-3 1set for Machine No.F-1and F-2 1set for Machine No.F-3	S <u>Rev.11</u>
2104	Aspirator and Cutter	72 sets	a.With gathering guides for threads	S
2105	Migration Nozzle			
2105-1	Casing and Bracket	72 sets	a.Location:Up side of GR1 b.With drain port and fume port	S
2105-2	Nozzle	72 sets	a.12 nozzles/set b.Nozzle model:Japanese Maker Line-E,F1-2: ϕ 1.4×1 Hole <u>Rev.10</u> Line-F3: ϕ 1.8×1 Hole	S
2105-3	Guide	72 sets	a.24 pcs/set b.Dog tail guide	S
2105-4	Regulator	12sets	a.For Migration Nozzle b.1 set for 6pos	S
2105-5	Solenoid Valve	72 sets		S
2106	Interlacing Nozzle			

2106-1	Casing and Bracket	72 sets	a.Location: Downstream side of GR2 b.With drain port	S
2106-2	Nozzle	72 sets	a.12 nozzles/set b.Nozzle model:Japanese Maker Line-E,F1-2:φ1.2×2 Hole <u>Rev.10</u> Line-F3: φ1.3×2 Hole	S S
2106-3	Guide	72 sets	a.24 pcs/set b.Dog tail guide	S
2106-4	Solenoid Valve	72 sets		S
2106-5	Regulator	12 sets	a.For Interlacing Nozzle b.For 6 pos	S
2107	GR1 Box(Insulation Box for GR1)	72 sets	a.Type:Swing open front door type b.With drain port c.Without window	S
2108	GR2 Box(Insulation Box for GR2)	72 sets	a.Type:Swing open front door type b.With drain port and fume port c.Without window	S
2109	Windbreak Plate for GR1	72 sets		S
2110	Windbreak Plate for GR2	72 sets		S
2111	Main Switch			
2111-1	Casing	72 sets	a. Installed on the front end of the winder	S
2111-2	Switches	72 sets	Operation switches for ·GR drives · OR drives ·Doffing time indicator ·ASP & cutter ·Spinning room call	S
2112	Sub Switch			
2112-1	Casing	72 sets	a. Installed on the front panel of upper frame, below GR2	S
2112-2	Switches	72 sets	a. Operation switches for • GR drives • OR drives • ASP& cutter ASP • Spinning room call • Position stop • Full Package Lamp	S
2113	Terminal			

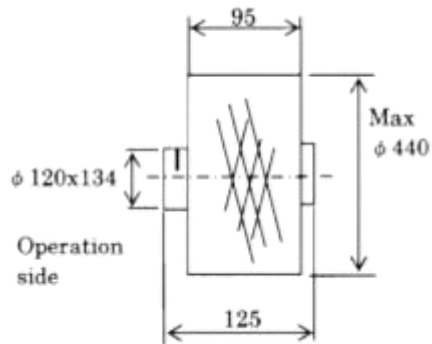
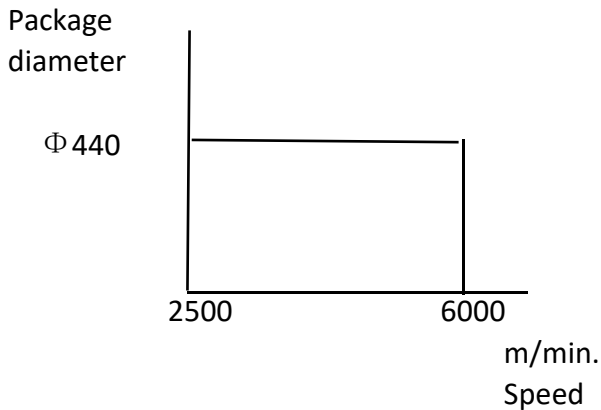
2113-1	Terminal Box <u>Rev.10</u>	72 sets	a. 1 set/1 pos b. For wiring Take Up Frame	S
2201	Godet Roll-1 (GR-1)	144 sets	a. Duo roll arrangement b. Heated roll c. Model:THR42240 d. Drive : Induction motor (2.0 kW) with revolution pick up e. Heater :Induction heater (8.0 kW) f. Temperature : 50~150°C,R≦4°C g. Feeding speed :1000~4000m/min. h. Roll dimension : ϕ 220x400L Effective length:330 mm i. Surface : HCr plating mirror finish j. Bearing lubrication :Oil mist	S
2203	Godet roll-2 (GR-2)	72 sets	a. Single roll arrangement b. Heated roll with heat pipes c.Model:THR62235 d. Drive : Induction motor (3.0 kW) with revolution pick up e. Heater :Induction heater(11.0 kW) f. Temperature :50~200°C,R≦3°C g. Feeding speed :1000~6000m/min. h. Roll dimension :ϕ220x350L Effective length:280mm i. Surface : Ceramic coating j. Bearing lubrication :Oil mist	S
2204	Separator roll-2(SR-2)	72 sets	a. Motor driven type b.Model:TGR61135 c. Drive :Induction motor (1.0 kW) d. Feeding speed :2000-6000m/min. e. Roll dimension : ϕ 110x350L f. Surface : Ceramic coating g. Bearing lubrication : Oil mist	S
2301	Piping for Inside Machine			
2301-1	Compressed Air Piping	2 sets	a.1set/1line For • Migration Nozzle • Interlacing Nozzle • Aspirator • Winder actuation • Hot roll air purge	S
2301-2	Oil Mist Piping	2 sets	a.1set/1 line	S

			For GR and SR lubrication, consists of header pipe and tube for each roll Rev.8	
2301-3	Finish Oil Piping	3 sets	a.1set/36pos.x 1 1set/24pos.x 1 1set/12pos.x 1 for Roll Oiling System	S
2301-5	Fume Exhaust Hose	1 lot	a.Between fume port of GR2 box and main fume duct(including hose <u>Rev.9</u> clamp,excluding main fume duct)	S
2401	Air Control Unit	2 sets	a.1set/1line b.Compressed air distribution function for Winders c.With pressure gauges,air filters and air regulators for distribution line d.Regulators and air filters for IL and MN are mounted on the back side of the take-up machine e.Regulator and air filter for Aspirator are mounted on the back side of each line	S
2402	Mist Generator	2 sets	a.1set/1line b.Included in Item No.2401-1 Air Control Unit c.Consists of Oil Mist Generator for GR,SR	S
2403	Mist Separator Unit and Suction stand	2 sets	a.1set/1line b.Oil Mist Separator c.Blower d.Installation location: Outside of the building should be recommended	S
2501	Winder	72 sets	a. Type :ATi615R/12 b. Speed range:2500-6000m/min c. Winding method :Spindle drive : Speed control :Traverse control :Contact roll drive	S

d. Package size

:O.D.440mm, 95mm stroke

:12 cops,13.1dm/cop



The above figure represents theoretical and ideal shape. The shape and dimensions of the package including winding width may rather vary depending on the winding conditions.

e. Tube size

:I.D.120mm,125mm length

f. Traverse system

:Rotary traverse system

g. Lubrication for bearings

Bobbin holder :Grease

Contact roll : Grease

Traverse :Grease

h. Accessories

:Threading up device

Pushing off device for packages

Wrap detector for contact roll

: Pivot guides for yarn traverse

:Yarn break sensors

(Optical, Non contact type)

3201 Suction Gun Unit

3201-1 Suction Gun 12 sets

a. Consists of S

Model:Heberlein Lufan HS/7-2

Air supply hose: 10m Rev.10

Waste yarn hose: 10m

3201-2 Air Coupler Unit 12 sets

a. Coupler and Valve S

4104A Heater Control Cabinet 1 set

a. Type:Self-standing S

b.Heater power control device

:For Quench stage heater

4108	Switch Box for Spinning	72 sets	a. Type:Wall mount b. Spinning GP on/off switch & lamp Nozzle Oiling on/off switch & lamp Take-Up room call switch & lamp	S
4110	Special Wiring Materials	1 lot	a. Communication cable b. Material supply only, wire cutting and assembling work should be required at site	S
4200	Take-Up & Winder(Elec. & Instrument)			
4203	Winder Control Box (mount)	72 sets	a. Type:Winder mount b. Function:Winder control	S
4203-1	Inverter for Winder	72 sets		
4203-2	Servo Driver for Winder	72 sets		
4204	Take-Up Control Cabinet	36 sets	a. Type:Self-standing b.2pos/set c. Function :Spinning GP & NO speed control :GR speed & temperature control :RO speed control <u>Rev.9</u> Rev.8 : Auto offer interface d. Clean air for Cabinet purge required <u>Rev.10</u>	S
4204-1	Inverter for GP,NO	144 sets		S
4204-2	Inverter for GR	216 sets		S
4204-3	Power Control Device for HR	72 sets	a. 3Heater/set	S
4204-4	Inverter for RO	72 sets		S
4205	Setting & Monitoring Unit for Take-Up	2 sets	a. Type:Self-standing 1set for 36pos. b. Function :Parameter setting and monitoring : Alarm monitoring & printing : Event data logging : Trend recording : Short production data reporting	S
4205-1	Personal Computer with LCD	2 sets	a. For Main SMU	S
4205-4	Cabinet	2 sets		S
4206	Auxiliary Cabinet	2 sets	a. Type:Self standing b. 1set/line(36pos.) c. Function : Roll oiling motor control : Air pressure alarm :Oil mist alarm : Fume Blower switching : Oil mist absorber switching	S

4206-2	Communication HUB	1 lot			S
4213	Special Wiring Materials	1 lot		a.Special wire supply only,wire cutting and assembling work should be required at site	S
4213-1	Communication Cable	1 lot		a.Wiring from 4206 to 4203 and to 4205	S
		1 lot		b.Wiring from 4204 to Frame terminal box	
4213-2	Special Cables for Pulse Signal	1 lot		a.Wiring from 4204 to Frame terminal box	S
				b.Less than 30m/pos.	
4213-3	Wiring for Winder	1 lot		a.Wiring from Frame terminal box to Winder	S
4214	Signalization for Take-up room				
			<u>Rev.9</u>		
4214-1	Siren with light for communication	2 sets		a.2sound and 2color system	S
				b.1set for 1line	
			<u>Rev.9</u>		
4215	Emergency stop switch	4 sets		a.2set for 1line	S
4216	Gate way for Auto doffer	2 sets		1set for 36pos	S
	<u>Rev.9</u> interface				
7200	Tools for Take-Up Frame				
7201	Special Tools for Installation	1 set			S
7202	Special Tools for Maintenance	1 set			S
7204-3	Oil Mist Lubricator	1 set			S
7250	Tools for Take-Up Winder				
7251	Special Tools for Installation	1 set			S
7252	Special Tools for Maintenance	1 set		a. With balance jig	
7254	Transporter for Winder	1 set			S
7256	Bobbin Holder Heater	1 set		a. Band heater and switch box	S
7258	Bearing Press	1 set		a. Oil press device	S
					<u>Rev.8</u>
7259	Bobbin Holder Working Stand	1 set		a. Working Stand	S
				b. Pressure intensifier	S
7260	Apparatus for CR Mounting	1 set			S
7400	Tools for Electrical Equipment				
7401	Maintenance Cabinet for Winder and GR	1 set			S
7401-1	Cabinet	1 set		a. Type:Self-standing	S
				b. Function: Power supply for Winder GR motor drive	
7401-2	Maintenance Cable for Winder	1 set			S
7402	Setting & Monitoring Unit for	1 set		a. Type:Desk-top	S

	Maintenance Cabinet		b. for Take-up	
7402-1	Personal Computer	1 set		S
7402-2	LCD Display	1 set		S
7403	Operation Terminal for Inverter	1 set		S
7405	Special Tool for Wiring	1 set		S
7405-1	For Communication Line	1 set	a. Modular connector	S
7405-2	For Winder Internal Wiring	1 set		S
7405-3	For Winder Cable	1 set		S
8200	Stand by for Take-Up Machine			S
8201	GR1	4 sets	a. Same Item No.2201	S
8203	GR2	2 sets	a. Same Item No.2203	S
8204	SR2	2 sets	a. Same Item No.2204	S
8250	Winder Unit	2 sets	a. Type :ATi615R/12	S