

Leading the global wire and cable industry with intelligent manufacturing and new materials.

1、ADVANTAGE



ADVANTAGE

- 1. Competitive price
- 2. No installation, no foundation, take model design including electrical wire . water pipe and air pipe . only connected can start to work because already test running before shipment.
- 3. Local after sales service because shineworld set up aboard after sales office and has 4-5 local engineer.
- 4. En-joyful buying because professional team

2. How to choose model

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Cross Section	Material	Extruder	Extruder	Coiler Speed	Printer Speed	Line Speed
		Model	Speed			
1.5-6 mm ²	PVC	70/80+1246	600-1000	350	500	200
10mm²	LSZH	80+1246				
1.5-10mm ²		80+1246				
10-35 mm ²	Copper	80/90+1860				
10-95 mm ²	Aluminum					
1.5-6 mm ²	PVC	70/80	600-1000		500	500
10mm²-	LSZH	80				
35mm²						
1.5-10mm ²		80/100				
10-35 mm ²	Copper	80/90				
10-95 mm ²	Aluminum					
10-240 mm ²		90				
50-630 mm ²		120	1			
5X240 mm ²		120	1			
5X630 mm ²		150	300-500	1		



3、QUOTATION

SN	DESCRIPTION	QUANTITY	FOB SHANGHAI UNIT PRICE/USD	FOB SHANGHAI AMOUNT/USD
1	100+60 high speed Jacketing line Model: SW100+60	1.00SET	161,150.00	161,150.00
			TOTAL:	161,150.00

REMARK:

- 1, The detailed specification will be integral part of this quotation.
- 2, Price basis: Price are for delivery FOB shanghai, China according to INCOTERMS 2010. And the exchange rate for USD: RMB is 1:6.60. If the exchange rate is changed over 0.5%, the quotation will be adjusted accordingly even in the validity time.
- 3, Validity of quotation: the quotation is validly within 30 days after issue date.
- 4, Delivery period: the delivery time is 30 days after receipt of your down payment and clarification of all technical and commercial details. The agreed delivery period is subject to the punctual receipt by us of all equipment, documents approvals release and services to be furnished by buyer for the performance of the order.
- 5, The quotation is based china standard material and package.
- 6, The buyer should provide:
- λ The water pipe, compressed air pipe used in site. And response to connect with the machine corresponding connectors.
- λ All the Wire and cable between transformers to the electrical cabinets.
- λ Installation.
- 7, The following are not included in the scope of our supply:
- λ The preparation of the site with all the necessary foundation work and ceiling openings etc.
- λ The connection cables from the mains to the switch unit and from this to the various motors and auxiliary units of our equipment.
- λ The electrical installation including the required safety devices outside the machine and switch unit.
- λ The connection pipes, gravity feed hoppers etc., between the various units supplied by us.
- λ Any required frames, platforms, suspension devices, etc., the operation media such as oil, grease etc., as well as raw material for the stating up and operation.
- 8, The parties agree that any claim to compensation for loss of profit as well as for indirect damage and consequential damage, on the basis of whatever legal ground, are excluded. This shall not apply if legal.
- 9, All equipment and technical service technical training are expressly stated in our quotation.
- 10, All supervision of installation & commissioning charge (include visa cost, insurance, round tickets, subsidy worked in the buyer's factory; around 2-3 engineers include 1 project manager, worked around 1 months). But the buyer bears expenses of accommodation, local transportation, food, sim card & Wi-Fi for the seller's engineers for installation commissioning & technical training. Because of COVID-19, these cost will be charged separately.



- 11, all the bank charge is paid by buyer.
- 12, all the options device is not included in the above offer.

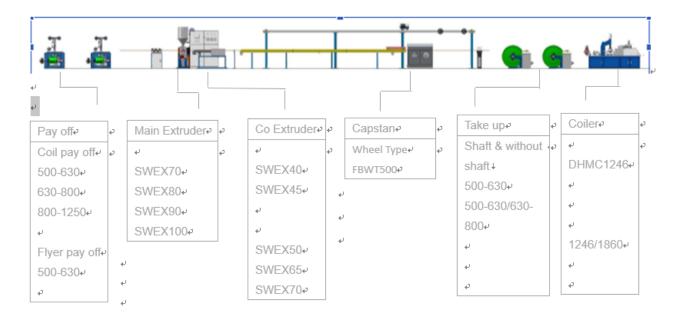
4、SPECIFICATION

SW 100 +60 high speed wire Jacketing line

4.1. General description

This machine is used for PVC/PE/XLPE/HFFR cable high speed insulation extrusion, mainly use for flexible cable/hard wire/building wire/housing wire/power cable. It can product one color fill, two colors stripe/skin insulation cable.

4.2. Product lay out drawing Line direction



4.3 Main Technical Parameter

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4.3.1	Process materials	6		XLPE		P	PVC
4.3.2	Line speed		100m/min				
4.3.3	Screw rotate spee	ed	10-80RPM/min				
4.3.4	Maximum extrudir	ng capacity		extrusion volume: sion volume: 80K0	,		
	Size	Conduct or OD	Thickness mm	Finished OD	XLPE SPEED	LSZH SPEED	PVC SPEED



						m/min			m/min
	3*6mm2	17.0	1.5	20.0		60			80
	3*50mm2	32.5	1.7	36		50			70
	3*185mm2	46	2.5	51.8		30			40
4.3.5	Max outp	out	1 screw	for 100*25		400kg	350k	g	450kg
			1 screw for 60*25			140kg	70kg	3	180kg
4.3.6	Motor Po	wer							110kw/ 22kw
4.3.7	Conductor siz	e range	compacted & flexible copper conductor The O.D range:10n 70mm				e:10mm-		
4.3.8	Cross section a	rea(mm ²⁾	Up to 3*18	35mm2	Cre	oss head si	ize	10-70	mm
4.3.9	Finished cable	diameter	Output Dia.(mm) Max Φ65mm						
4.3.10	Applicable cal	ole type	Jacketing						
4.3.11	Axis cable h	neight	1000mm						
4.3.12	Voltage)	3 phase -5 wires. AC380/415V (±10%),-50/60HZ, according to customer's standard.				ding to		

4.4 Production line specification

SN	Item	Technical data		
4.4.1	Line direction(based on customer's requirements)	A. Left pay off , Right take up or B. Right pay off , Left take up		
4.4.2	Coating Color	machine body	RAL5015	
		Rotation parts	RAL2004, orange	
		Electrical cabinet	RAL7035	
4.4.3	Consumption	Power consumption	150KWA	
		Water consumption	300L/min	
		Air consumption	Min, 6Bar	
4.4.4	Bobbin	Pay off	Take up	
	Flange	PN800-1250mm	PN800-1000mm	
	Barrel	398-630mm	398-490mm	
	Bobbin width	600-900mm	600-750mm	
	Traverse width	500-800mm	500-630mm	
	Bobbin Bore	127-80mm	127-140mm	
	Bobbin Material	Steel	Steel	



–		200111			
4.4.5	Lubricant	220# for all gear box	220# for all gear box		
4.4.6	Electrical control cabinet	PLC+HMI	PLC+HMI		
4.4.7	Operator	Two workers for one line	Two workers for one line		
4.4.8	Heating	Heating/cooling zone	6		
		Heating power	54kw		
4.4.9	Cooling system	Material	SUS 304		
		Туре	Single layer, Single Spraying		
4.4.10	Caterpillar	11KW, frequency motor			
4.4.11	The water trough length	4+16m single layer			
4.4.12	Take up	7.5kw, frequency motor			
4.4.13	Operator	2 Operator			
	Maintenance duration	should add Ca n°3 lubricatio	,chained wheels and chained piece in, one time per monthBearings of a n°2 lubrication grease every three		
4.4.15	Complete set of production-line insta	allation length of the 32-38 mete	ers		
4.5、Elect	trical Technical Parameter				
4.5.1	Making Norm	EN 60204			
4.5.2	Safety level	EN954-1			
4.5.3	Working voltage	AC380/415V (±10%),-50/60I	HZ,		
4.5.4	Power frequency	50/60HZ ±1%			
4.5.5	Voltage fluctuation	-10% +5%			
4.5.6	Zero wire	3 phase with neutral ,withou	t earth		
4.5.7	Control voltage	24V DC			
4.5.8	Solenoid Valve Voltage	24V DC			
4.5.9	Lamp Voltage	24V DC			
4.5.10	Cabinet inlet	According to customer's star	ndard		
4.5.11	Power supply	According to customer's star	ndard		
4.5.12	Control	Main switch SIEMENS 3VT type			
4.5.13	Driven	SIEMENS, all closed loop control			
4.5.14	Environment Temp	10-40℃			
4.5.15	Air humidity	DIN 40040 F level			
4.5.16	Assemble height	Till 1000mm			



4.5.17	Heating Resistance zone insulation instruction	NO			
4.5.18	Electrical control cabinet	Electrical control cabinet			
4.6 Confi	4.6 Configuration				

4.6.1. Main configuration

4.6.1 \ Ma	in configuration	on			
No	QTY	Unit	Name	Size	Function
4.6.1.1	2	set	Cantilever PN800 \sim PN1250mm pay off	with magnetic	Payoff
4.6.1.2	1	set	Column type pay off (With foundation)	800-1600	Payoff
4.6.1.3	1	set	Butt welder	0.5-2mm	
4.6.1.4	1	set	Butt welder	2-6mm	
4.6.1.5	1	set	1250 Caterpillar	1250Kg	Straighten cable Before coated
4.6.1.6	1	set	High speed extruder	Ф100×25Dmm	Extrude wire
4.6.1.7	1	set	Barrel pressure sensor		
4.6.1.8	1	set	Horizontal aux.	Ф60x25Dmm	Extrude wire
4.6.1.9	1	set	Fix centering crosshead with fine adjust	Ф10-70mm	
4.6.1.10	1	set	Single-axis laser diameter gauge	0-100mm	
4.6.1.11	1	set	Thermal cycle primary-secondary moving water trough	4m	Cooling wire
4.6.1.12	1	set	Drying system	5.5Kw Blower	Drying system



1	set	Single layer spray type water trough	16M	
1	set	1600 Caterpillar	1600Kg	Tract Cable
1	set	Printer		Print words on the cable
1	set	Spark tester	25KV	
1	set	Column type pay off (With foundation)	1250-2000	Take-up
1	set	Automated electric cabinet	PLC Type	
1	set	Stairs	Four steps	Check hopper
1	set	Withdrawal tool for screw	100+60	Withdrawal tool easily
1	set	Big tool box	1000*500*1200	Tools
1	set	PVC/PE screw	Ф100	Extrude cable moulding
1	set	PVC/PE screw	Ф60	Extrude cable moulding
1	set	XLPE screw	Ф100	Extrude cable moulding
1	set	XLPE screw	Ф60	Extrude cable moulding
1	set	HFFR screw	Ф100	Extrude cable moulding
1	set	HFFR screw	Ф60	Extrude cable moulding
	1 1 1 1 1 1 1 1 1 1 1 1	1 set 1 set	type water trough 1 set 1600 Caterpillar 1 set Printer 1 set Spark tester 1 set Column type pay off (With foundation) 1 set Automated electric cabinet 1 set Stairs 1 set Withdrawal tool for screw 1 set Big tool box 1 set PVC/PE screw 1 set XLPE screw 1 set XLPE screw 1 set HFFR screw 1 set HFFR screw	1 set 1600 Caterpillar 1600Kg 1 set 1600 Caterpillar 1600Kg 1 set Printer 1600Kg 1 set Spark tester 25KV 1 set Column type pay off (With foundation) 1250-2000 1 set Automated electric cabinet PLC Type 1 set Stairs Four steps 1 set Withdrawal tool for screw 100+60 1 set Big tool box 1000*500*1200 1 set PVC/PE screw Φ100 1 set XLPE screw Φ60 1 set XLPE screw Φ60 1 set HFFR screw Φ100

4.6.2 Parts list

4.6.2.1. Motors and Inverter



		Motor Type/Pow	er	Inverter	Manufacture
				Type/Power	
Main extrud	ler 100mm	110kw AC		Siemens or Yaskawa	Siemens Beide
extruder 60	mm	22KW AC		Siemens or Yaskawa	Siemens Beide
Cooling wat	er trough	27.37KW AC		Siemens or Yaskawa	Siemens Beide
Drying syste	em	4KW AC			Chinese famous brand
1600 Cater	oillar	11KWAC		Siemens or Yaskawa	Siemens Beide
Column type foundation)	e pay off (With	7.5KWAC		Siemens or Yaskawa	Siemens Beide
4.6.2.2.Oth	er				
		Manufacture			
Gear box		Chinese famous	brand		
Main Low-v	_	Schneider and Chinese famous brand			
PLC (all)		SIEMENS S7-20	0 smart		
Touch scree	en	Siemens or MCGS			
Temperatur	e unit	RKC			
Solid relay		Fotek or Chinese famous brand			
4.7. Specifi	ication for the r	main components	(Scope of supply	Specification)	
4.7.1.PN80	0-1600mm Colւ	ımn type pay off ((With foundation)		
	Name of product	Type/None			
4.7.11	Speed	Max:100m/min			
4.7.1.2	Bobbin size:	PN800- 1600mm			
4.7.1.3		BLY120-35-			
	Loading/unlo	0.75KW with			
	ading	Cycloidal			
		reducer			
4.7.1.4	Cable OD.	7-70mm			
	Cable OD.	1-1 OIIIII			
4.7.1.5	Max. loading	2.5T			



4.7.1.6	Tension	10Kg tension and adjustable	
	Pay-off tension is controlled by mechanical friction and adjusted by hand operation.		
	The whole equipment is installed on the iron plate without additional foundation		



4.7.3 Cantilever PN800 \sim PN1250mm pay off

Bobbin size:	PN800- 1250mm		
Bobbin lifting cycloid reducer:	BLY120-35-0.75KW		
Column moving cycloid reducer:	BWD120-35-0.75		
Speed	Max:200m/min		
Clamping	Pneumatic		
Tension: 10 kg magnetic tension	Tension: 10 kg magnetic tension and adjustable		





4.7.5	1250 Caterpillar	
	Cable dia: Max: φ70mm	
	Max traction:	1250KG



Traction speed:	100m/min
Tract length of the contact:	1500mm
Caterpillar specification:	20*120*4930mm
Tension control:	20KG magnetic power clutch
Cylinders quantity:	5pairs
Equipment center height:	1000mm

Structure: The traction machine for the pneumatic compression and automatic tensioning traction belt, driven by Z4-11kw DC motor + K87 series of spiral bevel gearbox to achieve, traction speed and the former traction, extruder speed synchronous control, stable and reliable. Traction belt for the two seamless reinforcement within the belt, configure the instantaneous line speed and cumulative length of the display instrument. Traction machine power section with guardrail.



4.7.6 SW 100 high speed Extruder

Screw data	
Diameter	100mm
Length-diameter Ratio:	25: 1



	Screw structure	ВМ
	Max speed	10-80RPM
	Screw rigidity	reach HV900
	Material	38CrMoAIA, nitrogen treatment; (Nitride depth:0.6)
	Output with PVC	450kg/h ±5%
	Output with XLPE	≤400KG/H
	suitable extrusion material	PVC, PE, XLPE, HFFR
	Screw roughness:	0.8
	Temperature sensing point:	6 position
	Cooling	By water , 6 high-pressure centrifugal windmills, 6 Barrel each segment, blanking segment water cooling,
	Screw connection	Adopt spline connection
4.7.7	Barrel data	
	N. of heated/cooled zones	6
	Heating power for each zone	4.5KW
	Total heating power	27KW
	Material	38CrMoAlA, nitrogen treatment; (Nitride depth:0.6)
	Temperature adjustment up to	0-399°,±2°; Japan PKC thermometer + relay control;
	Heating system	electric resistances
	Cooling system	6 high-pressure centrifugal windmills, 1 Barrel each segment, blanking segment water cooling,
	Hardness:	HRC60-63 degrees;
	Screw roughness:	0.8
	Barrel pressure sensor:	PT124B-50MPa-M14-370/150, 0-10VDC, with 5 cores, 6 m plug wire, mounting bracket
4.7.8	Electric parameters	
	Driven motor	110KW , Siemens AC motor
	Barrel cooling electric fan	750W/AC380V
	Temperature controller	RKC



4.7.9	Others	
	Gearbox	nodular cast iron
	Gear	Gearbox built up with helical toothed gears in Ni Cr steel, casehardened and ground.
	Gear lubrication	Oil feed forcibly by gear
	Clamps	The machine is composed by a heated clamp having manual closing to be coupled to the crosshead.
	Chuck	 a. Type: Three-pcs round clamping, automatically centering, built-in heating rod heating b. Locking direction for anti-clockwise; c. Chuck's operation is very convenient, and the wear-resistant, and greatly enhance conventional screw-connected, difficult to wear rubber drain. d. With high-speed positive and negative wrench, easy to operate. e. Chuck's locking developed on the basis of home's and abroad's similar structure to develop, according
	Cross head:	It adopts the latest three-claw head, built-in heating, and has a fast color stripping function. Crosshead is made of imported S136 heat-resistant anti-corrosion alloy steel. After oxidation treatment, the surface is plated with hard chrome.





4.7.10 Hopper & Loading system

Model No.:	SCM-12/16-D+MS
Dryer capability:	600kg/h
Loading capability	800kg/h
Material	stainless steel container
Voltage specification:	230VAC/50HZ

4.7.11 60x26D Horizontal aux. Extruder:

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4.7.11.1	Screw data	
	Diameter	60mm
	Length-diameter Ratio:	25: 1
	Screw structure	BM
	Max speed	100RPM
	Screw rigidity	reach HV940
	Material	38CrMoAIA, nitrogen treatment; (Nitride depth:0.5-0.8)
	Output with PVC	≥70KG;
	Output with PE, XLPE, HFFR	≥60KG;
	Screw shape:	BM type



		material: SACM-1, nitrogen treatment, depth of nitridation: 0.5-
	Screw cylinder:	0.8mm;
	Electric heat of screw	adaptable voltage: 380V/50HZ, electric heat of 3 cast aluminum,
	cylinder:	power: 4×2.8KW.
	Cooling method of screw	
	cylinder:	4 centrifugal fans, power: 380W
4.7.11.2	Barrel data	
	N. of heated/cooled zones	4
	Heating power for each zone	4*2.8KW
	Heating power	AC380V 50Hz
	Total heating power	11.2KW
	Material	SACM-1, nitrogen treatment; (Nitride depth:0.5-0.8)
	Temperature adjustment up to	350 (±1°C) °C
	Heating system	electric resistances
	Cooling method of screw cylinder:	4 centrifugal fans, power: 380W
	Barrel pressure sensor:	PT124B-50MPa-M14-370/150, 0-10VDC, with 5 cores, 6 m plug wire, mounting bracket
4.7.11.3	Electric parameters	
	Driven motor	22 Kw dedicated AC variable frequency motor.
	Temperature controller	RKC
	Others heated zones	2 zones for neck
4.7.11.4	Hopper & Loading (manual)	
	Hopper loader made up of stainless steel plate, placed on the material inlet zone, material is feeding by manual.	
	Reduction gear box: Adopt abrasive hard-tooth-surface bevel wheel, and oil seal adopts the	
	imported product.	
4.7.11.5	Others	



	Lubrication for gearbox: Enforce oil into gear.
	Rising and falling: Motor drive, screw mandrel rises and falls automatically, with travel switch limit, travel height: 100mm.
	Shift motion: 200mm, move mode: linear bearing + line slide rail, rotation angle: 180°.
	Collet shape: Threaded-type double-sided clamping, heating mode: Heating inside electrical bar made of imported material; Voltage: 220V, temperature measuring point: Position 1.
11户 至	Hot gun: Connected to crosshead by 90°, electric heating bar inside heating voltage: 220V, power: 800W, temperature measuring point: 1, heating gun power: 2000W, temperature measuring point: 1



4.7.12 Crosshead

Model	
The main characteristics	Single layer
Fix and Centering	Manual centering
Inlet wire range	7.0-65.00mm
Finished wire range	10.0-70.00mm
Crosshead: It adopts the latest three-claw head, built-in heating, and has a fast color stripping function.	
Crosshead is made of imported S136 heat-resistant anti-corrosion alloy steel. After oxidation	
treatment, the surface is plated with hard chrom	





4.7.13. Single-axis laser diameter gauge-Proton Brand

Model	DDM-100
Measurement range	Max. OD 90mm
Recommend measurement range	5-80mm
Measurement precision	+/-0.001
Centering height	1000mm
Advanced features	A. RS232- directly from the caliperB. GLASS LOGIC- Measuring transparent objects
Power requirements:	24VDC
Optional communication protocol:	Modbus RTU

4.7.14 Ribbon hot printer

•	
Print type:	Ribbon print
Dia. range	Ф6-100mm;
Max line speed	100m/min
Power	380V, 50Hz
Heating power	0.4Kw
Heating temperature	80-120℃



Center height	1000mm, up-down adjustment
Hot-press printing ribbon printing, clear the ink printing method;	r script, good adhesion, not apt to erase and superior to
	ks adopt electric heating and temperature control venient adjustment, high precision of temperature



4.7.15 Cooling trough

4m primary moving water trough and	4m primary moving water trough and tank	
Suitable for wire diameter	Max 70mm	
Centering height	1000mm	
Material	SUS304 stainless steel	
Total length	4m	
Moving range	800mm	
Cooling way	spray and water immersion, built-in V-type bracket;	
Circulating water tank:	ot water booster pump hot water circulation, water tank (double insulation) effective capacity 0.18m3;	
Heating power	15kw;	
Water temperature control:	the system controls the temperature, ensures the	



	constant temperature control from room temperature to 80 degrees, and the water level relay performs water level control;
Groove size:	U type (high) 140* (wide) 150
Sink power:	2*6+0.37=12.37kW
Anti-surge:	low noise, less than 70 decibels, high-speed anti-surge;



4.7.16	Drying system	
	Adaptation wire diameter:	Maxφ70mm
	Air pump:	5.5kw;maximum air volume 450m3/h
	Drying method:	using three-stage dehydration, firstly, the energy supplied by compressed air is strongly dehydrated by two square water blowers, and then the positive and negative pressure generated by the vortex air pump blows and sucks the outer surface of the wire to achieve final dehydration.
	Cabinet:	Made of high quality 304 stainless steel with built-in silencer to eliminate noise
	Air filter barrel:	Made of high quality 304 stainless steel, it adopts a unique design to filter the water in the circulating air; the water level is controlled by the liquid level meter and is automatically drained by the water pump.



4.7.17 Single layer fixed water trough		
	Suitable for wire diameter	Max 70mm
	Centering height	1000mm
	Dimension (mm)	U type: (high) 280* (width) 320
	Material	SUS304 stainless steel
	Total length	16m
	Cooling way	spray type, configuration V-type bracket
	Blow type	Multi-head claw-type blow-drying of the blow-drying
		head, which is placed in the stainless steel box and
		connected to the water tank.
	Drying type	Dry with vortex fan
4.7.18.	1600 Caterpillar	
	Cable dia:	Max: φ70mm
	Max traction:	1600KG
	Traction speed:	80m/min
	Tract length of the contact:	1500mm
	Caterpillar specification:	20*120*4930mm
	Motor	11kw AC motor
	Cylinders quantity:	6pairs
	Equipment center height:	1000mm
	Structure: The traction machine for the pneumatic compression and automatic tensioning traction belt, driven by Z4-11kw DC motor + K87 series of spiral bevel gearbox to achieve, traction speed and the former traction, extruder speed synchronous control, stable and reliable. Traction belt for the two seamless reinforcement within the belt, configure the	



instantaneous line speed and cumulative length of the display instrument. Traction machine power section with guardrail.



4.7.21. Spark tester

Model	ST-25A
Dia. range	Max Φ55 mm;
Voltage:	2.0-25.0KV
Voltage indication error	<5%
Detection sensitivity	<600uA
Detection resolution	0.05s
Max detection speed	150/540m/min(UL/GB)
Tested electrode length:	450MM
Breakdown sensitivity:	0.6mA
Center height:	1000MM (Non-ajustable)
Ignition coil:	oil immersed
Machine base:	foot cup





4.7.23. PN1000-2000mm Column type take up (With foundation)

4.7.13.1	Name of product	Type/None
4.7.13.2	Speed	Max:100m/min
4.7.13.3	Bobbin size:	PN1000-2000mm
4.7.13.4	Loading/unloading	BLY120-35-0.75KW with Cycloidal reducer
4.7.13.5	Cable OD.	7-70mm
4.7.13.6	Max. loading	2.5T
4.7.13.7	Motor	7.5KW Siemens AC motor
4.7.13.8	Control	7.5KW inverter
4.7.13.9	The whole equipment is installed on the iron plate without additional foundation	
4.7.13.10	Main electrical panel and suspended control panel are on the machine	
	Take up moves for traversing, driven by AC motor, frequency inverter control, traversing speed follows take-up speed, traverse pitch is step-less.	





4.7.24. Electrical control system

4.7.14.1	Control system overview	
	Control cabinet	Rittal design,painted colors RAL 7035
	Cabinet size	L(3200)*H(2000)*W(500)mm
	Cable inlet	Main power supply cables and all extruder cable entering from the bottom; All other part's control and power cable enter from the top.
	Power supply three phases	AC 380V 50Hz
	Low control power supply	AC 220V 50Hz
	Lamps, buttons, sensors	24 Vdc
4.7.14.2	Auxiliaries circuits brands	
	Motors	SIEMENS Beide brand
	Drivers	SIEMENS or Yaskawa
	PLC + HMI	SIEMENS or MCGS
	From the most recognized international brands: Schneider or Chinese famous brand	Main circuit breaker, Contactors, Auxiliary relays, Safety gates control block, Push buttons (Ø 22 mm), Proximity switches, Limit switches, Terminals, Encoders, Lamps
4.7.14.3	Control Function Description	
	Operation	Manual, Synchronous or automatic mode
	Main PLC	Connect with drivers and HMI by profinet; It takes all the controls and inspections of the whole line, provides strong and complete control capabilities



	Main HMI	HMI for all single part; HMI for all production data; HMI for Alarm message; HMI for control when button broken; HMI for maintaince; HMI for production monitor	
	Alarm information	Motor driver fault; Cooling fan overload; Motor fan overload; E-stop alarm; Wire OD. Overflow alarm;	
4.7.14.4	PLC Siemens S7-200 smart connected in Profinet with external and internal components as drives, video-keyboard, and remote PLC, or any other.		
4.7.14.5	Safety relays for emergency kept	electro-mechanical outside the PLC.	
4.7.14.6	Operator panel, to be fit in a suitable position close to the drawing machine, with all push buttons and lamps needed for the easy and correct use of the line supplied with a HMI Display.		
4.7.14.7	The software used is custom made to suit all needs for an easy use by the operator or by the technician.		
4.7.14.8	Cooling fan is controlled by the temperature control meter to make the temperature curve straight.		
4.7.14.9	The counter receives the pulse signal sent by the meter counter. The ratio of code length to pulse number can be adjusted freely, which can count the length conveniently and accurately. At the same time, it also has the meter prediction function to make the operator more comfortable.		
4.7.14.10	Automatic process control: operated by touch screen and assisted by buttons.		







5、SPARE PARTS

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SN	Description	Qty.
5.1	Barrel heater for EX100 Barrel heater for EX60 Crosshead heating circle and rod	1Set
5.2	Thermocouple	1pc each model
5.3	Solid relay	1pc each model



5.4	Auxiliary relay	2pcs
5.5	Crosshead wrench	1pc
5.6	Inner hexagon wrench	1set
5.7	Monkey wrench	1pc
5.8	Slot type screwdriver Cross screwdriver	1pc each model
5.9	Tool box	1pc
5.10	Foundation screw and fixed screw	1set
5.11	Honeycomb sample	1pc
5.12	Screwdriver hex socket wrench and other common tools	1set
6、ENGINEERI	NG DOCMENTS	
6.1	Lay-out drawing in printed and CAD Version	1 set for each
6.2	foundation drawing in printed and CAD Version	1 set for each
6.3	Operation Manual in printed & digital copy	1 set for each
6.4	Sourcing Equipment Operation Manual	1 set for each
6.4	Sourcing Equipment Operation Manual Electric Drawing in Digital and Printed Copy	1 set for each 1 set for each
6.5	Electric Drawing in Digital and Printed Copy	1 set for each
6.5 6.6	Electric Drawing in Digital and Printed Copy Wire Diagram list in Digital	1 set for each 1pc

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