

Brief Introduction

JOC Machinery Company Limited, a subsidiary of Jiangsu Overseas Group Corporation (JOC), is an engineering company specialized in all type of Machinery and Equipment, Line fittings and hardware, Ground Engaging Tool, Rubber Tracks, Bearings, Casting, Forging, Stamping, Fabricating, Machining, Metal Processing parts, Motor Cycle & Bicycle Parts as well as Third-party Inspection. We are dedicated to bridge the overseas customers to the Chinese local manufacturers with our technical, commercial and logistics support. Our decades of experience and strong team have made the communication, technical exchange, quality control and in-time delivery as easy as you work at home office.

Since 1990, we have supplied a lot of cable machinery lines as Turn Key project for our customers in South East Asia, Middle East & Europe countries, which includes Copper Casting & Rolling Line, Aluminum Alloy Casting & Rolling Line, Copper Rod Breakdown Machine, Cable Sheathing Line, Continuous Lead Sheathing Extruder, 3 Layer Co-extrusion CCV & Continuous Vulcanization Rubber Line etc., these machines not only bring us high reputation from our customers but also provide very good payback to their investors with its remarkable performance.

JOC Machinery is your solution in Cable Industry, we expect to receive your inquiry and establish business relationship with your firm.





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Copper Rod Continuous Casting and Rolling Line

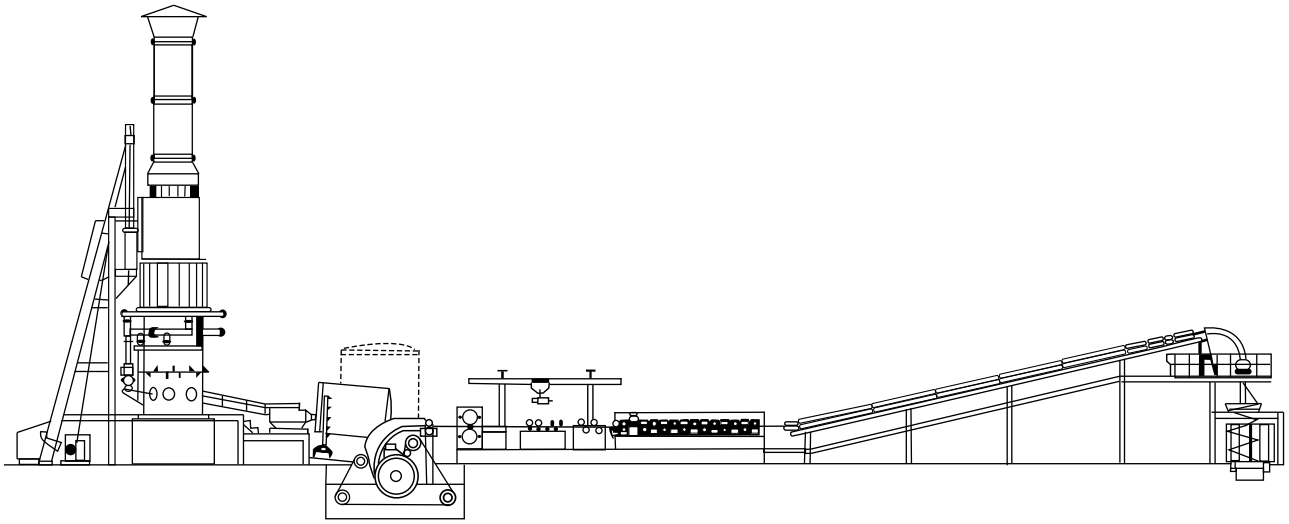
According to the different kinds of production material (copper cathode or copper scrap), we can equip with different kinds of copper treatment furnace to produce ETP rod and FRHC rod of 8mm separately.











Technical Data

Copper Rod Continuous Casting and Rolling Line		
Type	**ZZR1800+255/12**	
Melting furnace	Shaft furnace	8
	Melting rate (ton/hour)	
Holding furnace	Hydraulic tilting type	10
	Capacity (ton)	
Refining furnace	Stationary reverberatory furnace	60
	Capacity (ton)	
Casting machine	Casting ring dia. (mm)	1800
	Cast bar section (mm^2)	Φ2000
	Motor for casting ring (kw)	4
Automatic shearer	Shearing length (mm)	～700
Straightener & burr shaver	No. of straightening roller	5
	No. of shaving tools	2
Cast bar brushing machine	No. of brushing rollers	4
	Motor (kw)	0.75
Rolling mill	Outlet rod dia. (mm)	Φ8
	No. of rolling stand	12
	Rollers dia. (mm)	Φ255
	Production capacity (t/h)	13
	Center height (mm)	900
	Main motor (kw)	400
	Emulsion consumption (m^3/h)	80
On-line Rod coiler	Max. drive speed (m/s)	8.9
	Drive motor (kw)	7.5
	Take-up basket (mm)	Φ1700×1500
	Coil weight (kg)	3000-5000

Aluminium Alloy Rod Continuous Casting and Rolling Line

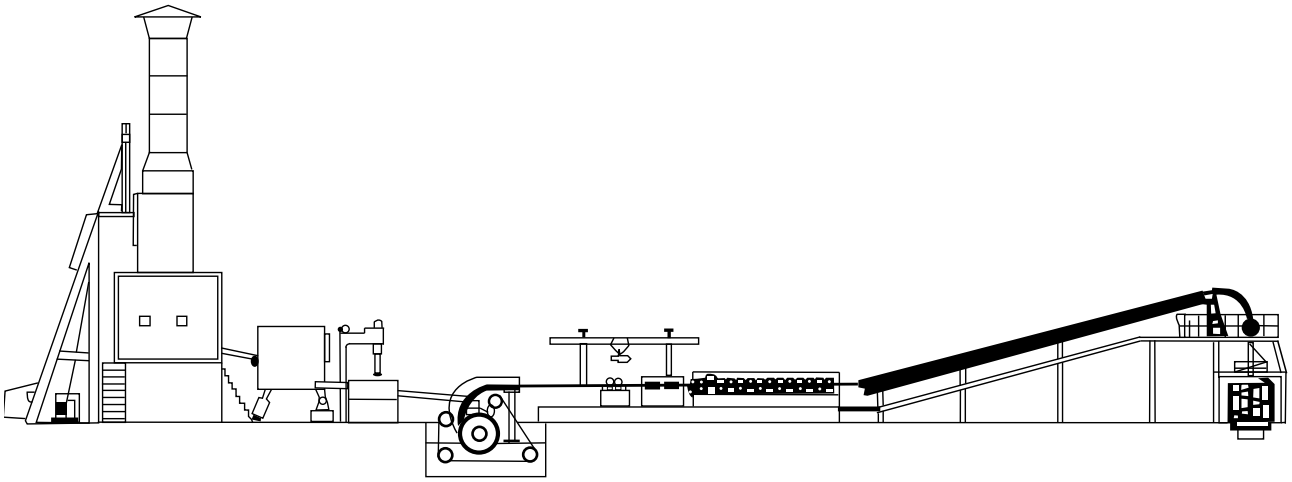
Specially for producing aluminium alloys rod of diameter 9.5mm for electrical wire, such as Al-Mg-Si electrical conductor of high intensity. And also it can produce electrical aluminum rod.











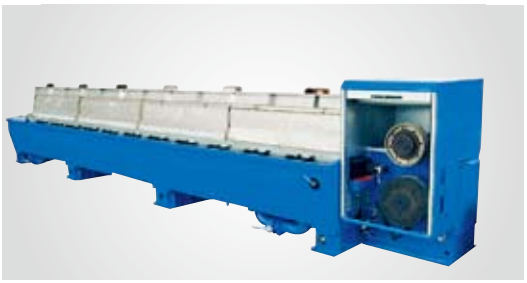
Technical Data

Aluminium Alloy Rod Continuous Casting and Rolling Line		
Type	**UL+Z-1500+255/14**	
Melting furnace	Shaft furnace	5t/h
	Melting rate	
Holding furnace	Hydraulic tilting-type	2×9t
	Capacity (ton)	
Filter & degassing device	Treatment gas	Nitrogen or Argon
	Treatment capacity (kg/min)	30~100
	Container capacity (kg)	440
Casting machine	Casting ring dia. (mm)	1500
	Casting bar section (mm^2)	2300
	Motor for casting ring (kw)	4
Accessory shearer	Max. shearing force (kg)	14000
	Max. shearing stroke (mm)	85
Straightening & edge shaver	No. of straightening roller	5
	Pulling motor (kw)	3
Induction heater	Output power (kw)	300
	Water consumption (m^3/h)	15
Rolling mill	Outlet rod dia. (mm)	9.5
	No. of rolling stand (m/s)	14
	Rollers' dia. (mm)	255
	Production capacity (ton/hour)	2.6~4.0
	Main motor (kw)	355(DC)
Rod quenching device	Rod quenching tunnel	8
	Outlet rod temperature (℃)	＜100
Rod orbital coiler	Coil size (mm)	Φ1500×2300
	Coil weight (kg)	1500~1800

Copper Rod Breakdown Machine

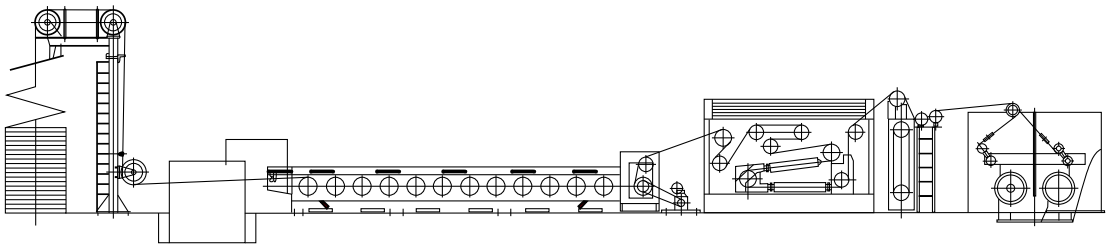
The machine is used for drawing Φ8mm copper rod, complete with continuous annealer, dual spooler or coiler.









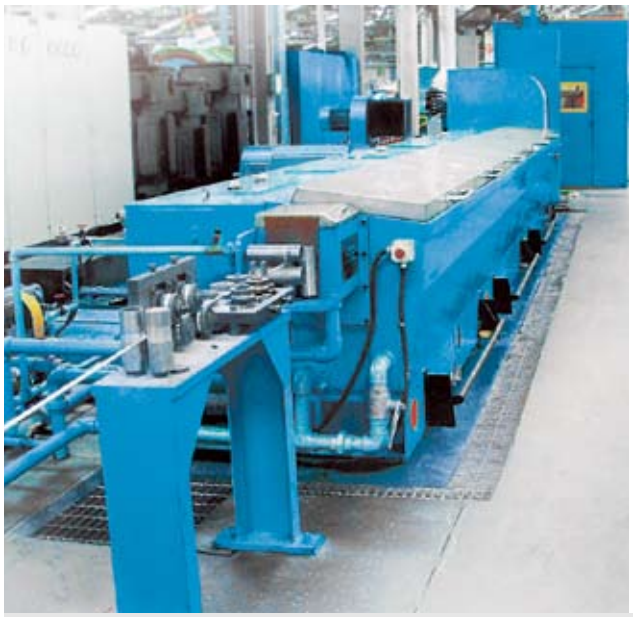


Technical Data

Copper Rod Breakdown Machine		
Type	**LHT-450-13**	
Inlet wire dia.	mm	8.0
Outlet wire dia.	mm	1.35-4.2
Max. linear speed	m/s	20-25
Max. drawing pass		13
Finish capstan dia.	mm	450
Main motor	kw	280(DC)
Max. take-up speed	m/s	25
Max. traversing pitch	mm/r	6
Take-up bobbins		PND500-630
Basket size	mm	Φ800×Φ500×1650
Total weight	kg	35000
Overall dimension	mm	27500×4400×4500

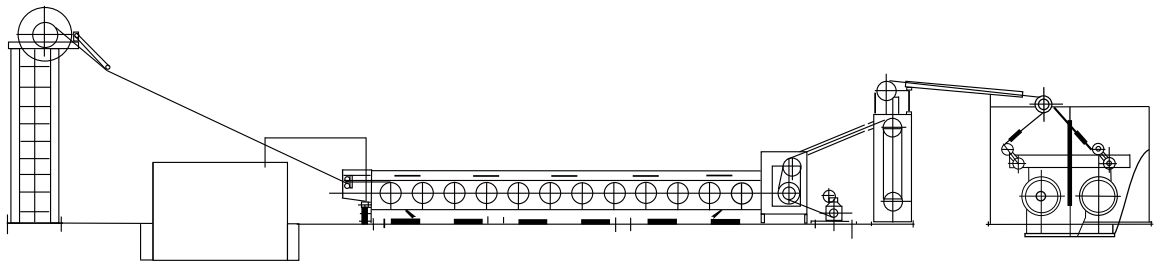
Aluminium Alloy Rod Breakdown Machine

This production line is used for drawing normal aluminium or aluminium alloy wires in wire and cable industry. It is composed of pay-off stand, main drawing machine, final capstan, accumulator, take-up stand and electric control system.









Technical Data

Aluminium Alloy Rod Breakdown Machine			
Type	LHD-450/13		
		Alloy wire	Aluminium wire
Main machine	Inlet wire Dia. (mm)	9.5	12
	Outlet wire Dia. (mm)	2.65-4.5	1.8-4.5
	Finish capstan Dia. (mm)	450	
	Max. dies size (mm)	Φ54×38	
	Main motor (kw)	315(DC)	
Accumulator	Accumulating wire length (m)	5.2	
	Accumulated wire tension (N)	400	
Dual take-up	Max. take-up speed (m/s)	25	
	Max. traversing pitch (mm/r)	6	
	Take-up bobbins (mm)	PND500-630(DIN46397)	
	Total weight (ton)	40	

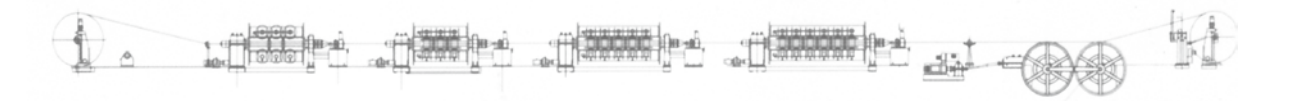
Rigid Frame Stranding Machine

To produce copper or aluminum strands and ACSR of large cross section at long length without back twist; also for pre-twisting and compressing sector conductor and divided one. Adopting a centralized load or unload system with a pneumatic clamp to realize high efficiency.









Technical Data

Rigid Frame Stranding Machine		
Type	**JKL500/12+18+24**	**JKL630/6+12+18+24**
Diameter of single wire (mm)	Cu: 1.2-4.5	Cu:1.5-4.5
	Al: 1.8-5.0	Al:1.8-5.0
Max. stranding diameter (mm)	45	45
Max. stranding cross-sectional area(mm^2)	Cu: 630	Cu: 630
	Al: 800	Al: 1000
Rotation speed of stranding cage (rpm)	63-147	48-183
Haul-off linear speed (m/min)	7-52	6-45.6
Stranding pitch(mm)	47-825	32-951
Haul-off capstan size (mm)	Φ2000	Φ2500
Pay-off bobbin size in cage	PND500	PND630
Central pay-off bobbin size	PN800-PN1600	PN1250-PN2500
Take-up bobbin size	PND1600~PN2500	PN1600-PN2500
Main motor power (kw)	90	132
Center height of machine (mm)	1000	1100
Dimensions (mm)	40000×5000×2200	58300×7500×2050
Loading mode	Batch loading (side)	
Pintle mode for pay-off bobbin in cage	Batch loading by pneumatic mode	

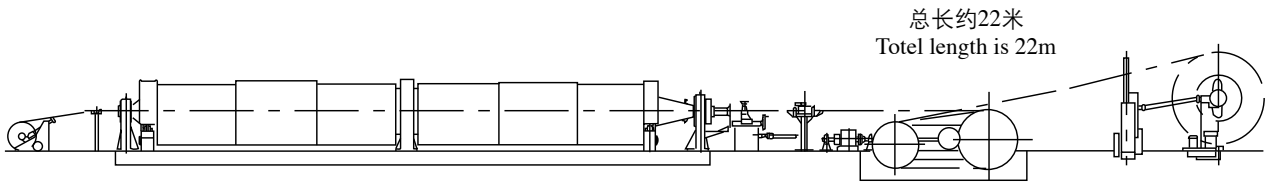
Tubular Stranding Machine

The high speed tubular stranding machines are used for stranding of copper wires, aluminum wires, ACSR. They are also used for the making of steel ropes. These high speed tubular stranding machines are mainly composed of pay-off stand, rotors, forming die, length counter, haul-off capstan, take-up & traversing device, protecting cover, wire breaking stop system, electrical panel, etc.







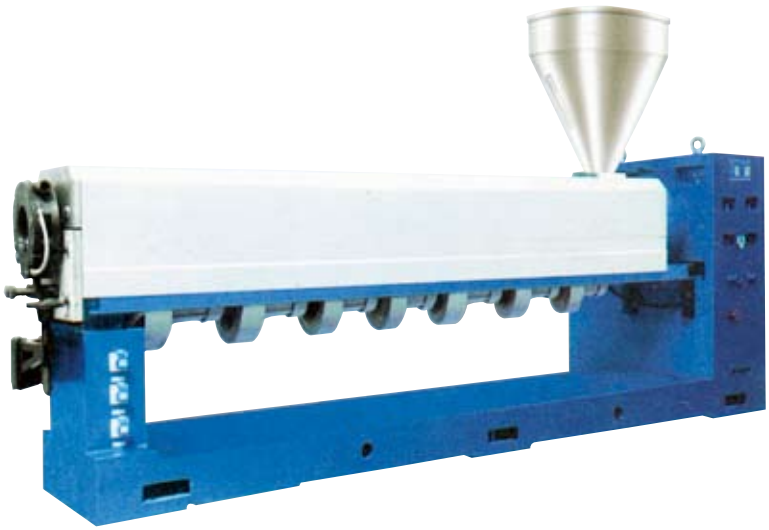


Technical Data

Tubular Stranding machine				
Type	**JG-400/3**	**JG-500/6**	**JG-600/12**	**JG-630/6**
Single wire dia. (mm)	Cu:0.2~0.85 Al:4.0	Cu:1.3~2.5	Steel:1.7~4.6	Cu:2~3.5 Steel:1.8~4
Rotor speed (rpm)	600	500	350	300
Haul-off capstan dia.(mm)	800	1250(Dual haul-off)	1250(Dual haul-off)	1250(Dual haul-off)
Stranding pitch (mm)	20~175	21.8~332	21.8~332	40~444
Stranding dia. (mm)	2.4~6	Max.15	Max.25	Max.25
Sizes of bobbin in rotor D×d×L(hole) (mm)	400×160×280 (25.5)	500×280×375(125)	500×280×275(125)	630×315×400(125)
Take-up bobbin size D×d×L(hole) (mm)	1000×750×850(80)	1600×800×1150(80)	1600×800×1150(80)	1600×800×1000(80)
Main motor Power (Kw)	17	30	30	45
Space required L×W×H (mm)	11850×2100×1700	25000×2400×1600	33000×2400×1600	23850×3800×1700
Total weight (ton)	10.65	21.6	36	35

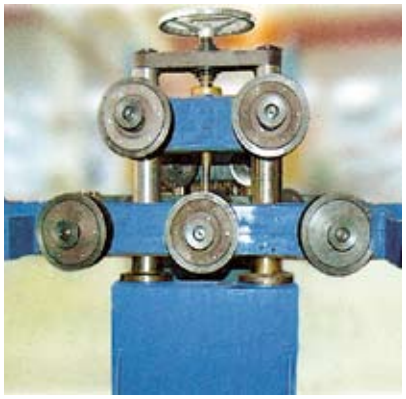
Cable Sheathing Line

Application: This line is used for extruding thermoplastic, such as PVC or PE etc, scilicet is insulating or sheathing onto cable core.

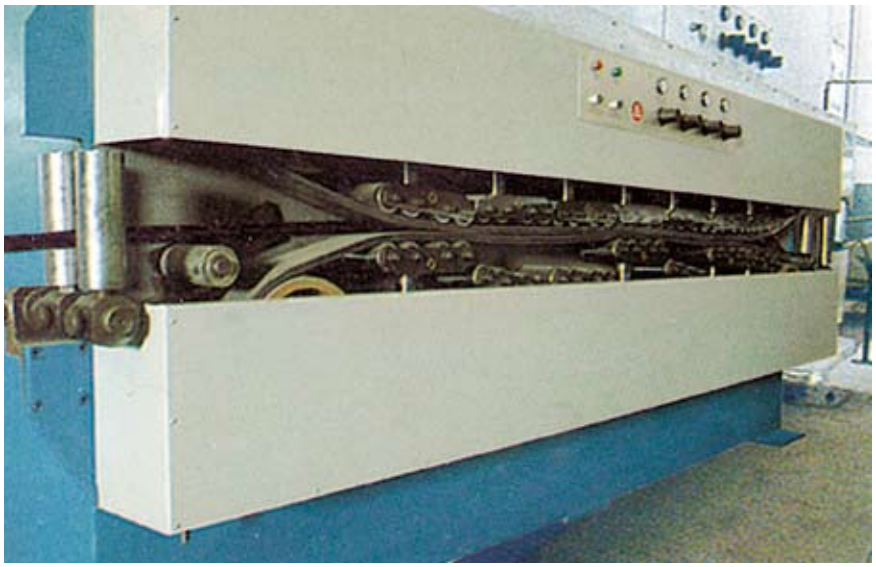






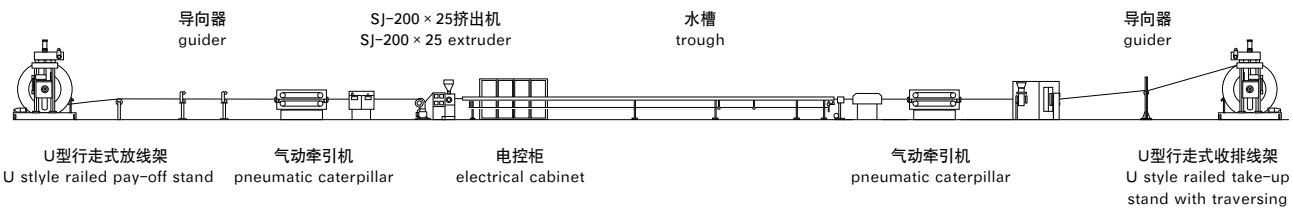












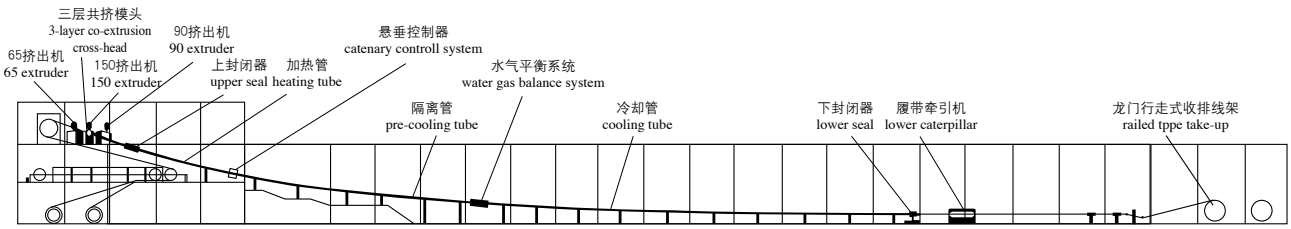
Technical Data

Cable Sheathing Line				
Type	**SJN-Z35/90-I-Q**	**SJN-Z80/120-I-Q**	**SJN-Z140/150-III-Q**	**SJN-Z160/200-III-Q**
Screw Dia. (mm)	90	120	150	200
L/D ratio	25:1	25:1	25:1	25:1
Screw Structure	BM screw	BM screw	BM screw	BM screw
Max. Line Speed(m/min)	80	50	60	35
Max. Tractive Force(kgf)	800	2500	2500	3200
Max. Cable Dia. after sheathing(mm)	35	80	140	160
Cooling Trough Length(m)	16	24	24	28
Pay-off Bobbin	PN1000-PN2000	PN1600-PN2500	PN1600-PN2500	PN2500-PN4200
Take up Bobbin	PN1000-PN2000	PN1600-PN2550	PN2000-PN3150	PN2500-PN4200

3-Layer Co-extrusion CCV Line

This line is designed for production of 6-35kv power cables with crossing-linking polyethylene (XLPE) insulation.





Technical Data

Type	3-Layer Co-extrusion CCV Line
Insulation voltage arrange (kv)	6-35
Cross-section arrange (mm^2)	Copper core 35-630
	Al. core 50-800
Max. weight of cable (kg/m)	10
Max. diameter of cable (mm)	70
Line speed (m/min)	0.3-30
Max. temperature of vulcanization tube (℃)	450
Technology method	nitrogen for coring and water for cooling
Catenary coefficient	200-150
Tube style	semi-catenary
Length of heating tube (m)	about 36
Length of insulation tube (m)	6~13
Length of cooling tube (m)	54
Extruder style	65-150-90

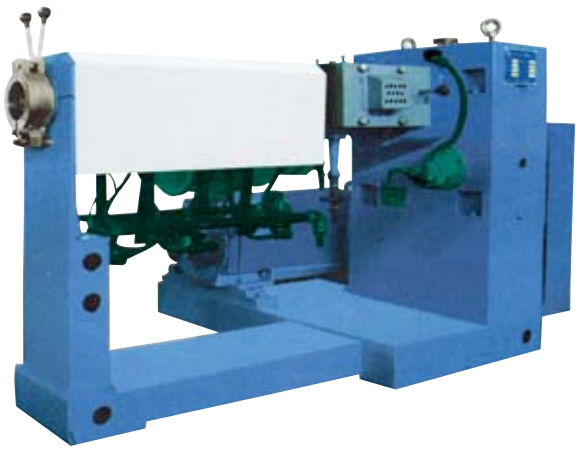
(1+2) 3 Layer Continuous Vulcanization Rubber Line

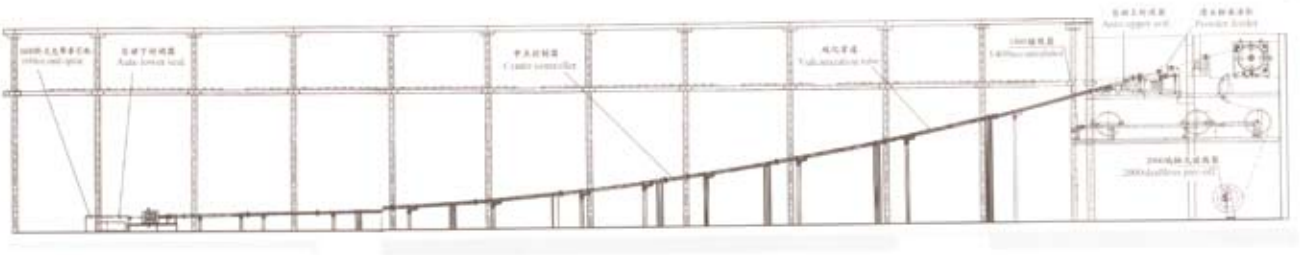
This line adopts Φ150+Φ120+Φ60 co-extrusion rubber cable line. It suits to NR, SBR, PCP, EPR, EPDM, CPE and CSPE. And it can be used for mining and ship rubber cable.









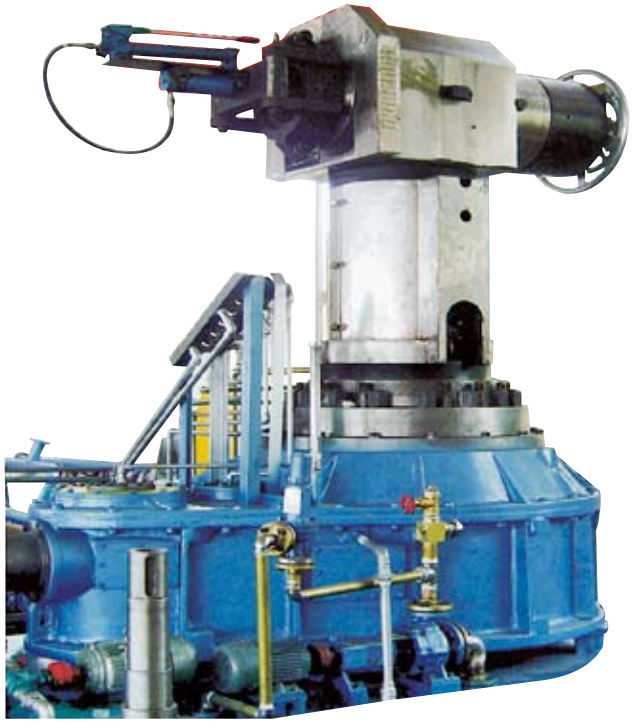



Technical Data

Type	150+120+60 Continuous Vulcanization Rubber Line
Wire core dia. before sheathing	Φ5−60mm
Wire core dia. after sheathing	Φ7−70mm
Max. line speed	40m/min
Output	150 extruder: 550kg/h
	120 extruder: 380kg/h
	60 extruder: 80kg/h
Center height	1000mm
Vulcanization tube	Tube length: 96m
	Tube type: semi-catenary
	Catenary coefficient: 150-200
	Heating zone: 42m
	Cooling zone: 54m
Water cooling trough	20m
Power	380V±10%, 50Hz±10%, 3-phase 5 wire

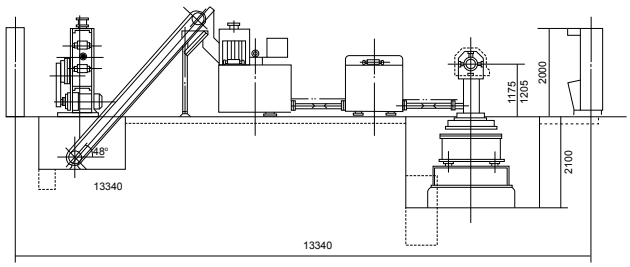
Continuous Lead Sheathing Extruder

This machine is designed to continuously sheath the lead cover on the electric cable and for the use of vulcanizing rubber pipe. It has the good advantages with compact construction, equal thickness of extruded lead pipe, closed lead proceeding system, constant temperature and pressure for lead extruding, lead material saving.









Technical Data

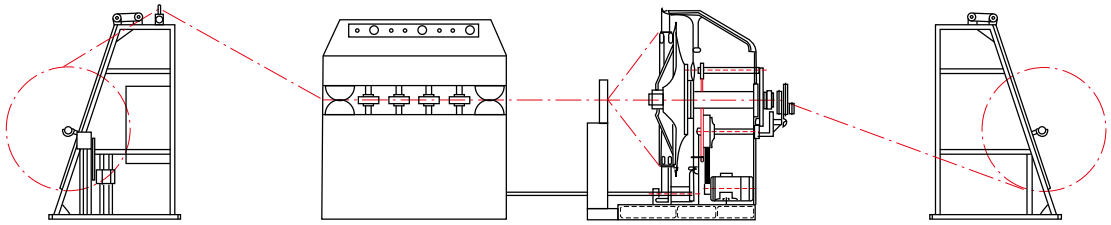
YQL-150/5			
Type		**Unit**	**Data**
Extruder Screw dia.		mm	150
Extruder Screw speed		rpm	5-15
Extruding output	Pure lead 13-15rpm	kg/min	30-30
	Soft alloy lead 11-12rpm	kg/min	20-22
	Hard alloy lead 9-10rqm	kg/min	15-16
Sheathed lead pipe dia.	No.1 die holder	mm	10-80
	No.2 die holder	mm	40-110
Cooling water consumption		ton/hour	6.8
Power supply condition		AC 3phases 50Hz 380v	
Power of lead extruder		Kw	145
Sizes of take up reel		mm	Φ1250-Φ2500
Space required(L×W×H)		mm	22000×13340×5100
Total weight		ton	41.1

GSB Series High Speed Braiding Machines

This series high speed braider adopts the frequency conversion technology, programmable controller with touch screen and has advantages such as stepless speed regulation, controllable tension adjusting, auto-lubricating quantitatively and comprehensive malfunction protection etc. It also has many characteristics as high bobbin speed, high precision, high stability, low power consumption and low noise etc.







收线机(选配)
Take-up(optional)

牵引机
Caterpillar

主机
Main machine

放线机(选配)
Pay-off (optional)

Technical Data

High Speed Braiding Machine			
Type	**GSB-1**	**GSB-2**	**WGSB-3**
Braiding form	2 over 2	2 over 2	2 over 2
Braiding direction	Vertical	Vertical	Horizontal
Bobbin numbers	16	24	36
Bobbin size (mm) (outer dia.× inner dia. ×inner width)	Φ75×Φ22×70	Φ75×Φ22×70	Φ110×Φ45×100
Bobbin speed (rpm)	50-150	30-100	8-30
Braiding pitch (mm)	3.2-32.5/ 6.4-65	13.3-134.5	27-270
Max. braiding outer dia. (mm)	14	24	90
Max. produce speed (m/hour)	585	800	453.6
Motor power (kw)	1.5	3	7.5
Configuration size (mm)	1200×1390×2350	1500×1800×2650	2000×2100×2340
Net weight of machine (kg)	854	1258	3500

Plastic Extruding Granulation Unit

The assembly line distinguishing Feature:

Make up of Single Screw Extruder or Double Conical Screw Extruder and their corresponding auxiliary devices.

To produce different uses plastic granules such as PVC, PE and so on.

The wind sending & gathering and vibration separate type cool system of assistance machine adopted have high automation degree and production efficiency.

The manufacturing plastic pellets are even, dense and beautiful.



Technical Data

Type	Conical twin-screw extruder	Conical twin-screw extruder	Single-screw extruder
Model of Mainframe	SJSZ-65×22	SJSZ-80×22	SJ-90×25
Pelleting method	Surface grinding	Surface grinding	Tension bracing
Pelleting specification(mm)	3.5×4	3.5×4	3×5
Cooling Way	Air	Air	Water
Max. Output (kg/h)	300	600	150
Total Power (KW)	48	70	30

WORLD WIDE SALES MAP

