Strander & Extruder MACHINES





Ningbo Capstian Technology Co,.Ltd.

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China Wire Machines Expert 中国电缆设备专家

Ningbo Capstian Technology Co.,Ltd.

www.capstian.com

COMPANY PPOFILE



in the design, manufacture, assembly and sales of wire and cable machinery Ningbo Capstian Technology Co., Ltd. is a high-tech enterprise specializin and related products. The company was founded in 2010, since its ir ption, the company has organized a strong R & D team, adhering to the "peopleoriented" concept. The company has more than 10 years of rich experience, has developed a variety of high-tech products according to market demand. With the help of high-quality equipment such as CNC center, the production is carefully organized to make the performance and quality of machine tools reach the first-class level, and strive to build a good image of "CAPSTIAN" brand.

The company has strong mechanical production and design capacity, the main products are cable extrusion production line, rigid stranders, cable laying-up machines, planetary stranders, tubular stranders, cable extruders etc.... In the data cable, power cable, wire and cable, optical cable, construction wire and other industries, intelligent logistics, warehousing and other product research and development... Our technical level has reached new standards and opened up a broad space for development.

At present, our Engineering Department supports customers' special requests and answers their particular needs and demands. Our Resident Service Engineers handle new equipment commissioning, customers' personnel training, and equipment troubleshooting as well preventive and defective maintenance support. In addition to the demonstration equipment, CAPSTIAN Machines also stocks most commonly used spare parts that are available for immediate delivery. Competent staff supports our customers in identifying and supplying the required spare parts.

Our philosophy is: "people-oriented, quality leadership, customer first, the pursuit of excellence.". CAPSTIAN has won high praise from customers for its exquisite technology and high-quality customer service. CAPSTIAN has made continuous efforts to introduce new technology and open up new fields for wire and cable machinery industry.

ADVANTAGE







FACTORY CAPACITY

Years









CUSTOMER CASE



Corfio Fios e cabos elétricos



PANTERS SIEMENS



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RIGID STRANDER



Application:

Bare copper and aluminum conductor.
Round compacted function.
Prespiralled sector cores for Milliken.
Overhead conductors (AAC, ACSR, AAAC, ACCC, ACSS...). Steel wire armouring.
Copper wire screening.
Flexible Class 5.
Control Cable.

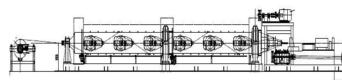
Fechnical Parameter:			
Model	JLK-500	JLK-630	
Single wire Dia	Φ1.5-	5.0mm	
Pitch	41.7-97	76.8mm	
Max rotation speed	160-255rpm		
Max linear speed	65.45m/min		
Max stranding OD	Ф35-55mm		
Pay-off in cage	PND500	PND630	
Central pay-off	PND500	PND630	
Capstan wheel Dia.	2000	Omm	
Fake-up	PND2000	PND2500	
Iotor power	90kw	110kw	

Side Botto 45° Load Bobbin
Horizontal Side Load Bobbin
Ground Shaft Driving
Separate Motor Driving

APPLICATION:

Stranding cum laying 7,12 and 19 wire with 100% back twist.
Encircling roller bearings being permanently lubricated by high pressure oil injection made by a circulating system equipped with an oil pump and oil tank.
Wire tension control is done through mechanical and hysteresis.
HMI+PLC control system for pre-setting stranding pitch. twist direction.
Stranding of AI, Cu, steel wires, steel wire rope.
Manufacture of OPGW and fibre optic submarine cables.
Stranding of plastic or rubber insulated conductors.

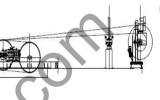




Aodel Single wire Dia Φ Pitch	GJJ-250 90,25-0.6mm	GJJ-350 Φ1.2-3.5mm	GJJ-500 Φ1.4-4.0mm	GJJ-630
Pitch			$\Psi_{1.4}$ -4.011111	Φ2.0-7mm
	8-70mm	41-312mm	44-334mm	44-334mm
Iax rotation speed	1300rpm	700rpm	600rpm	450rpm
Max linear speed	270m/min	205m/min	167m/min	108m/min
Iax stranding OD	Φ7mm	$\Phi 10 \mathrm{mm}$	Φ 12mm	Φ3mm
ay-off in cage	PND250	PND350	PND500	PND630
Central pay-off	PND250	PND350	PND500	PND630
Capstan wheel Dia. Du	ualΦ1100mm	DualΦ1100mm	Dual@1300mm	Dual@1400mm
Take-up	PN630	PN630	PN1600	PN1600
lotor power	15kw	22kw	30kw	37kw
		·		+

TUBULAR STRANDER





Independent Motor Driving

CRADLE LAYING-UP MACHINE



Technical Parameter:						
Model	CLY-800	CLY-1000	CLY-1250	CLY-1600	CLY-2000	
Single wire Dia	Φ5-14mm	Φ5 - 20mm	Φ6 - 25mm	Φ10-35mm	Φ15-45mm	
Pitch	208-3680mm	208-3680mm	208-3680mm	420-7569mm	460-8600mm	
Max rotation speed	10-25rpm	10-25rpm	10-25rpm	5-13rpm	3.9-11.2rpm	
Max linear speed	4.98m/min	4.98m/min	4.98m/min	5.31-40.08m/min	5.31-40.08m/min	
Max stranding OD	Φ45mm	$\Phi 60 \mathrm{mm}$	$\Phi 80 \mathrm{mm}$	Φ100mm	Φ120mm	
No-metal taping head speed		185-416rpm				
Metal taping head speed		185-416rpm				
Pay-off in cage	PND800	PND1000	PND1250	PND1600	PND2000	
Central pay-off	PN800	PN1000	PN1250	PN1600	PN2000	
Capstan wheel Dia.	1800mm	2000mm	2000mm	2500mm	2500mm	
Take-up	PN1600	PN2000	PN2500	PN3150	PN3150	
Motor power	22kw	30kw	37kw	75kw	22kw	

APPLICATION:

•The machine is used for stranding Cu, Al wire, ACSR and insulated wires with back-twist. It also can steel-armoring or Cu-screening cables.



FEATURES:

100% back-twist

•For the stranding of profiled wires, both types of machine can be operated without back-twist (0%).

Number of bobbins per stranding cage from 6 to 36, max. 96 for armouring.
Stranding bobbin dimensions from 315 to 630 mm flange diameter for standard machines.

•Machine bearing system: Underroller type with the stranding cage supported on underroller bearings. Compact. design with the stranding cage supported by bearings housed in the main drive stand and the outer bearing support stand.

Model	JLY-315	JLY-400	JLY-500	JLY-630
Single wire Dia.	Φ1-1.6mm	Φ1-4.0mm	Φ1.2-5.0mm	Φ1.5-5.0mm
Pitch	26-749mm	43-766mm	41.47-732.10mm	50.2-900.5mm
Max rotation speed	108rpm	90rpm	88.5rpm	70ıpm
Max linear speed	25m/min	30m/min	34.7m/min	20m/min
Max input wire OD	Φ5mm	Φ7mm	Φ10mm	Φ12mm
Pay-off in cage	PND315	PND400	PND500	PND630
Capstan wheel Dia.	1000mm	1600mm	2000mm	2500mm
Take-up	PN1250	PN1600	PN2000	PN2500
Motor power	18.5kw	22kw	37kw	55kw

PLANETARY STRANDER

Ground Shaft Driving

Separate Motor Driving

Hysteresis Tension

BOW TYPE CABLING MACHINE



SKIP STRANDER



Application:

 It is mainly applicable to cabling or laying-up cables of soft structure like control cable, mine cable and cabtyre cable and so on.



Application:

• High spedd bow type skip stranding machine working with 100% back twist movement, designed to work with 7 rounds and compact copper or aluminum conductors. also for ACSR, AAC etc.

Technical Parameter:				
Model	JGB-630	JGB-1000	JGB-1250	JGB-1600
Single wire Dia.	Φ1.5-5.0mm	Φ4-14mm	Φ4-20mm	Φ4-25mm
Pitch	29~662mm	94~1400mm	150-2000mm	500-4000mm
Max rotation speed	800rpm	160rpm	160rpm	160rpm
Max linear speed	290m/min	180m/min	160m/min	120m/min
Max stranding OD	Φ15mm	Φ45mm	$\Phi 60 \mathrm{mm}$	Φ75mm
Pay-off in cage	PND630	PND1000	PND1250	PND1600
Capstan Dia./Caterpillar	1200mm	1300mm	2500kg	2500kg
Take-up	PN1600	PN2000	PN2500	PN2500
Motor power	37kw	37kw	55kw	75kw

100% **Back-twist**





Technical Parameter	:	-		
Model	JLY-315	JLY-400	JLY-500	J
Single wire Dia	Φ0.8-4.0mm	Φ0.8-4.0mm	Φ1.0-4.0mm	Φ1
Pitch	63-1067mm	63-1067mm	74.1-1275.9mm	84-
Rotation speed	34-90rpm	21-80rpm	21-51rpm	18.5
Linear speed	5-35.4m/min	3-30m/min	3.77-27.18m/min	3.43-
Max stranding OD	Φ40mm	$\Phi 60 \mathrm{mm}$	Φ130mm	Ф
Pay-off in cage	PND315	PND400	PND500	P
Capstan wheel Dia.	1600mm	2000mm	2500mm	2
Take-up	PN1600	PN200	PN2500	P

DRUM TWISTER



STEEL WIRE ARMOURING MACHINE

JLY-630 .0**-**4.0mm 4-1404mm 3.5-41.1rpm 3-25.93m/min Φ140mm PND630 2500mm PN3150

APPLICATION:

·The machine is used for armouring single or double steel wire around the cable,or manufacturing large section of steel wire ropes.

APPLICATION:

The second second

·This equipment is mainly used for stranding power cables with large section and long length. It can be used for stranding cum Laying-up round or fan-shaped cores, and also for steel belt, steel wire armor or copper wire shielding.

Technical Parameter:	:	
Model	JPD-2500	JPD-3150
Single wire Dia.	Φ12.5-55mm	Φ15 - 65m
Pitch	200-5600mm	200-8000mm
Max rotation speed	40rpm	35rpm
Max linear speed	55m/min	40m/min
Max stranding OD	Φ120mm	Φ130mm
Rotation pay-off	PN1250-PN1600	PN2000-PN2500
Rotation caterpillar	3000kg	4000kg
Take-up	JPD-2500	JPD-3150

ELECTRICAL AND ELECTRONIC WIRES EXTRUSION LINE

APPLICATION:

· Suitable for single layer, dual color, dual layer and three layer extrusion processes for making wires and cables with insulating wire materials such as PVC, LDPE, XLPE, LSHF, NYLON, TPU and TPE



THIN INSULATION AUTOMOTIVE WIRE EXTRUSION LINE

APPLICATION:

·For processing of all kinds of international standard AVS and AVSS Automotive wires, Instumentaion cables, Low-voltage audio video cables, PVC Low-voltage wires, electron beam irradiated PE wires etc.



Technical Param	eter:						
Model	SJ-35	SJ-45	SJ-50	SJ-60	SJ-70	SJ-80	SJ-90
Pay-off type		Active tens	sion pay-off		Double	e shaft	End shaft
Pay-off size	PN30	0-500	PN400-500	PN500-600	PN40	0-630	PN630-800
Screw Dia.	Φ35	Φ45	Φ50	Φ60	Φ70	Φ80	Φ90
Screw L/D		25:1					
Extrusion capacity	25(kg/hr)	50(kg/hr)	70(kg/hr)	100(kg/hr)	130(kg/hr)	200(kg/hr)	250(kg/hr)
Wire Dia.	Φ0.4-2.5	Φ0.6-3.0	Φ0.6-4.0	Φ0.8-8.0	Φ1.5-12	Φ2.0-20	Ф3.0-25
Max Line speed	500(M/Min)	500(M/Min)	450(M/Min)	400(M/Min)	500(M/Min)	450(M/Min)	400(M/Min)
Take-up type		Doubl	e shaft			End shaft	
Take-up size				PND500-63	0		
Control system			Frequen	cy conversion co	ontrol + PLC		

APPLICATION:

·Extrusion of PVC, ZHLS, Nylon, halogen-free environment-friendly polymers.

FEATURES

•PLC+HMI industrial computerized operations with display, memory and retrieval of parameters. Automatic control and adjusting production line.

•Equipped with advanced special universal Cross-head, two-layer Crossed-head, fulfilling the precision extrusion requirements. •Specially designed screws to fulfill different kinds of material extruding.

•Max speed: 500mts/min







BUILDING WIRE/ JACKETING EXTRUSION LINE



AUTOMATIC PLC COILING AND PACKING MACHINE

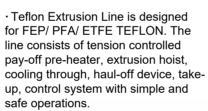
5	SJ-65+35	SJ-70+35	SJ-80+35	SJ-90+35
pay	off		Double shaft	End shaft
00		PN400-630		PN400-800
	Φ65	Φ70	Φ80	Φ90
	25:1 BM typ	e		
r)	120(kg/hr)	130(kg/hr)	200(kg/hr)	250(kg/hr)
0	Φ0.8 - 10.0	Φ1.5-12	Φ2.0-20	Φ3.0 - 25
			200(M/Min)	
		En	d shaft	
	PND500-63	0		
ueno	cy conversion c	ontrol + PLC		

POWER CABLE EXTRUSION LINE

PHYSICAL FOAMING COAXIAL CABLE EXTRUSION LINE



TEFLON HIGH-TEMPERATURE EXTRUSION LINE





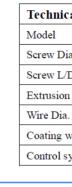
Technical Parame	ter:					
Model	SJ-30	SJ-45	SJ-65	SJ-90		
Screw Dia.	Φ30	Φ45	Φ65	Φ90		
Screw L/D		25:1 special screw				
Extrusion capacity	15(kg/hr)	25(kg/hr)	60(kg/hr)	150(kg/hr)		
Wire Dia.	Φ0.1-3.0	Ф0.2-6.0	Ф3.0-28	Φ5.0-30		
Coating wire Dia.	Φ0.3-4.0	Φ0.4-8.0	Φ4.0-32	Φ8.0 - 50		
Control system	I	Frequency conversion control + PLC				



APPLICATION:

·Processing of high frequency cable, Communication cable, data cable, coaxial cable, Rf cable, RG, JIS etc. core wire double layer chemical foam or solid wire extrusion.





FLAT WIRE/ RIBBON WIRE EXTRUSION LINE



cal Parame	ler:						
	SJ-30	SJ-45	SJ-65	SJ-90			
ia.	Φ30	Φ45	Φ65	Φ90			
/D		25:1 special screw					
n capacity	15(kg/hr)	25(kg/hr)	60(kg/hr)	150(kg/hr)			
a.	Φ0.1-3.0	Φ0.2-6.0	Ф3.0-28	Φ5.0-30			
wire Dia.	Φ0.3-4.0	Φ0.4-8.0	Ф4.0-32	Φ8.0-50			
system	F	Frequency conversion control + PLC					



SJ-70/26	SJ-80/26			
Φ70	Φ80			
26:1				
140(kg/hr)	200(kg/hr)			
150m/min				
10- 80pm 10- 7rpm				
conversion control + PLC				

APPLICATION:

·Processing of high frequency cable, Communication cable, data cable, coaxial cable, Rf cable, RG, JIS etc. core wire double layer chemical foam or solid wire extrusion.

SILICONE RUBBER CABLE EXTRUSION LINE



Technical Parameter:				
Model	SJ-70/12	SJ-90/12	SJ-120/12	
Extrusion capacity	120(kg/hr)	180(kg/hr)	270(kg/hr)	
Line speed	Max 200m/min			
Wire Dia.	Φ0.5-5.0	Ф3.0-10	Φ5.0-15	
Coating wire Dia.	Φ1.5-7.0	Ф5.0-12	Φ8.0-20	
Vulcanization heating pipe	16-20M	20-24M	20-24M	
Control system	Control system Frequency conversion control + PLC			

3 4 6 6 6 6 6 6 6 6 6

Application: • Use for continuous heating cross linking vulcanization extrusion for silicone . it can produce single core, double cores, double colors, double layers, double parallel wire and etc.

XLPE 6-35KV PRODUCTION LINE

Application:

• This line is suitable for the production of 6-35kV cross-linked polyethylene insulated cable with copper or aluminum hinge core.







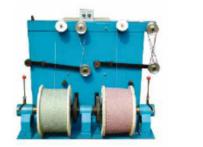
CANTILEVER HIGH SPEED SINGLE TWISTING MACHINE

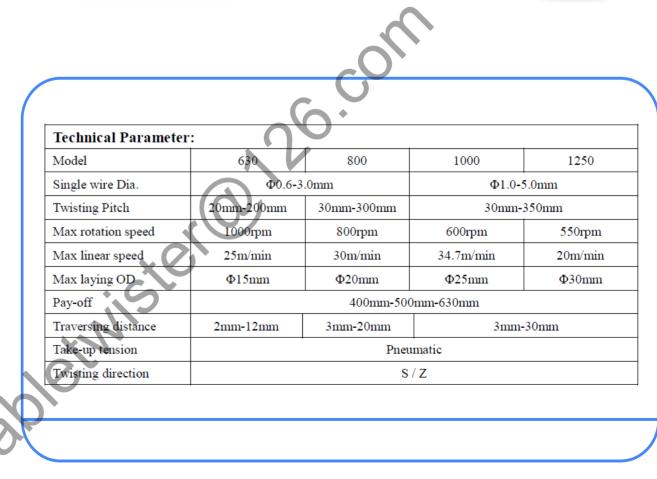
APPLICATION:

•The machine is mainly used for multiple pair laying of data cables, HDMI cables, power cables, bare copper wire (fine wire), Multicore shielded cables, control cables etc.













AUTOMATIC COILING AND WRAPPING MACHINE



AUTOMATIC PLC COILING AND WRAPPING MACHINE

•High efficiency coiling

•The finished product is wrapped neatly automatically.

•The utilization of this equipment drastically saves man power

and processing time.

•Machine can be aligned with extrusion line or can be independently used with spool pay-off.

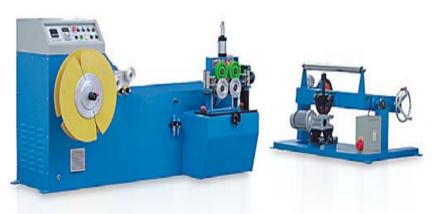
Model Type	CM1246	CM1860
Traverse Height (mm)	40-100	60-180
Coiler Max OD (mm)	Φ400	Φ600
Coiler Min OD (mm)	Φ140-200	Φ200-300
Range of Wire (mm)	Φ1-5	Φ2-16
Speed (mts/min)	200	150
Wrapping Speed (pcs/min)	2	1.5



HIGH SPEED SEMI AUTOMATIC **COILING MACHINE**

APPLICATION:

Medium cross-section automatic wire coiling machines is a high-tech product suitable for 10-70mm2 single wire with less than 20 mm round jacket diameter consists of pay-off gate type frame high precision metering and coiling frame.





MICRO-COMPUTER COILING MACHINE

•Auto-coiling wire from an extrusion line or from the pay-off machine. •Screen touch graphic operation terminal makes it easy to operate. •Servo motor traversing system produces coil with smooth surface. •The machine will automatically detect the fault and give alarm. •Can input and keep 99 types of coil data in the PLC memory. •It is not necessary to adjust any device when change coil size to another.

Technical parameters					
Machine Model	Height(mm)	Outside Diam- eter O.D (mm)	Inside Diameter I.D (mm)	Cable Diameter(mm)	Rotation Speed (RPM)
CM360	40-80	180-360	120-200	0.8-6	1000
CM460	50-120	200-460	140-220	1-12	800
CM500	60-180	220-600	180-250	5-15	700
CM800	80-240	300-800	250-320	10-25	700



CIRCULAR SHAPE AUTOMATIC WRAPPING MACHINE

•High speed coil wrapping with PVC, PE film, PP woen band or paper. •Screen touch graphic operation terminal makes it easy to operate •The 4 arms carrier, driven by DC motor, turns the coil smoothly for wrapping. •Can input and keep 99 types of coil wrapping data in the PLC memory.

Technical paramete	ers					
Machine Model	Height (mm)	Outside Dia I.D (mm)	Coil Weight (Max.)	Wrapping Material	Width of Packing Material(MM)	Thickness of Packing material(mm)
P70	30-70	140	25kg	PVC,PE Film	45	0.04-0.07
P100	50-100	150	35kg	PVC,PE Film	45	0.04-0.07
P120	70-120	160	40kg	PVC,PE Film	55	0.04-0.07
P140	70-140	180	100kg	PVC,PE Film Pp Woven Band Paper	55	0.04-0.07
P180	090-180	200	150kg	PVC,PE Film Pp Woven Band Paper	75	0.04-0.07
P210	100-210	250	200kg	PVC,PE Film Pp Woven Band Paper	75	0.04-0.07



AUTOMATIC COILING MACHINE

Technical parameters	
MODEL	R-800
Pay-Off type	Independent Pay off line
Layer arrangement	Automatic layer winding
Main Machine Rotation Speed	0-600RPM/Min
Suitable Scope	Suitable 0.5-6mm Electric wire
Pay off spool Dimension	≤ф 630mm
Motor Power	2HP (1.5KW)
Outer Diameter of coil	≤ф 310mm
Coil inside diameter	φ120mm
Coil height	30-100mm
Production capacity	700 coils/8hrs

Medium Cross-section Semi Automatic Coiling Machine

APPLICATION:

Large cross-section automatic wire coiling machines is a high-tech product suitable for 50-240mm2 single wire with less than 30 mm round jacket diameter consists of pay-off gate type frame high precision metering and coiling frame.

PAY-OFF&TAKE-UP&HAUL-OFF



Column Type Pay-off and Take-up Stand



Portal Type Pay-off and Take-up Stand

Model	Φ1250	Φ1600
Cable Dia. Max (mm)	25	35
Bobbin Flange Dia. (mm)	PN800-1250	PN 800-1600
Bobbin outer width (mm)	600-950	600-1180
Load capacity (T) Max	4	5
Take up speed (RPM)	18.8-47.6	18.8 - 47.6
Take up motor	JLJ132-40/4	JLJ132-40/4
Lift motor (kw)	1.1	1.1
Moving motor (kw)	0.75	0.75
Traverse pitch (mm)	5-40	5-40

	C			
0	Φ2000	Φ2500		
	50	60		
00-1600	PN 1250-2000	PN 1600-2500		
180	950-1500	1180-2300		
	10	12		
47.6	6-15.5	6 - 15.5		
2-40/4	JL160-60/6	JLJ160-60/6		
	1.5	1.5		
	11	1.1		
	10-80	10-100		
×°				

Pneumatic Caterpillar



Model	TQD 500	TQD 800	TQD 1250	TQD 1600	TQD 2000	TQD 2500	TQD 3200
Wire size	Ф1-Ф60	Φ5-Φ80	Φ5-Φ100	Φ5-Φ120	Φ5-Φ150	Φ5-Φ180	Φ1-Φ60
Max tract. force (Kg)	500	800	1250	1600	2000	2500	3200
Speed(m/min)	0-100	0-100	0-100	0-60	0-60	0-50	0-45
Track Length (mm)	750	1300	1600	1900	2300	2300	2600
Width(MM)	80	100	120	130	150	150	160
Machine	1000	1000	1000	1000	1000	1000	1000
No. of Cylinders	3	4	5	6	7	7	8
Motor Power	5.5	5.5	7.5	11	15	15	18.5



500-630 Longmen pay-off



400-630 double reel tak-up



630-1000 single reel take-up



500-630 active pay-off



Concentric high speed taping machine

Max Speed:800rpm Pad size: 0400×52×20-60mm



Copper tape taping machine

Pad size: \$\$630 \times 160 \times 20-60mm

AUXILIARY MACHINE

Max Speed:606rpm





TAPING MACHINE





Half-cut taping machine

Max Speed:420rpm Pad size:Φ400×52×20-60mm

high speed Half-cut taping machine

Max Speed:650rpm Pad size: 0500×580×20-60mm

Max Speed:650rpm Pad size:Φ500×76×18-80mm



Steel tape armouring machine

Max Speed:419rpm Steel tape spec:Φ200×120×30mm



Meter counter



Color injection machine



Color injection machine