

PLANETARY STRANDING MACHINE

FOR COPPER, ALUMINIUM AND OPTICAL FIBER CABLE STRANDING

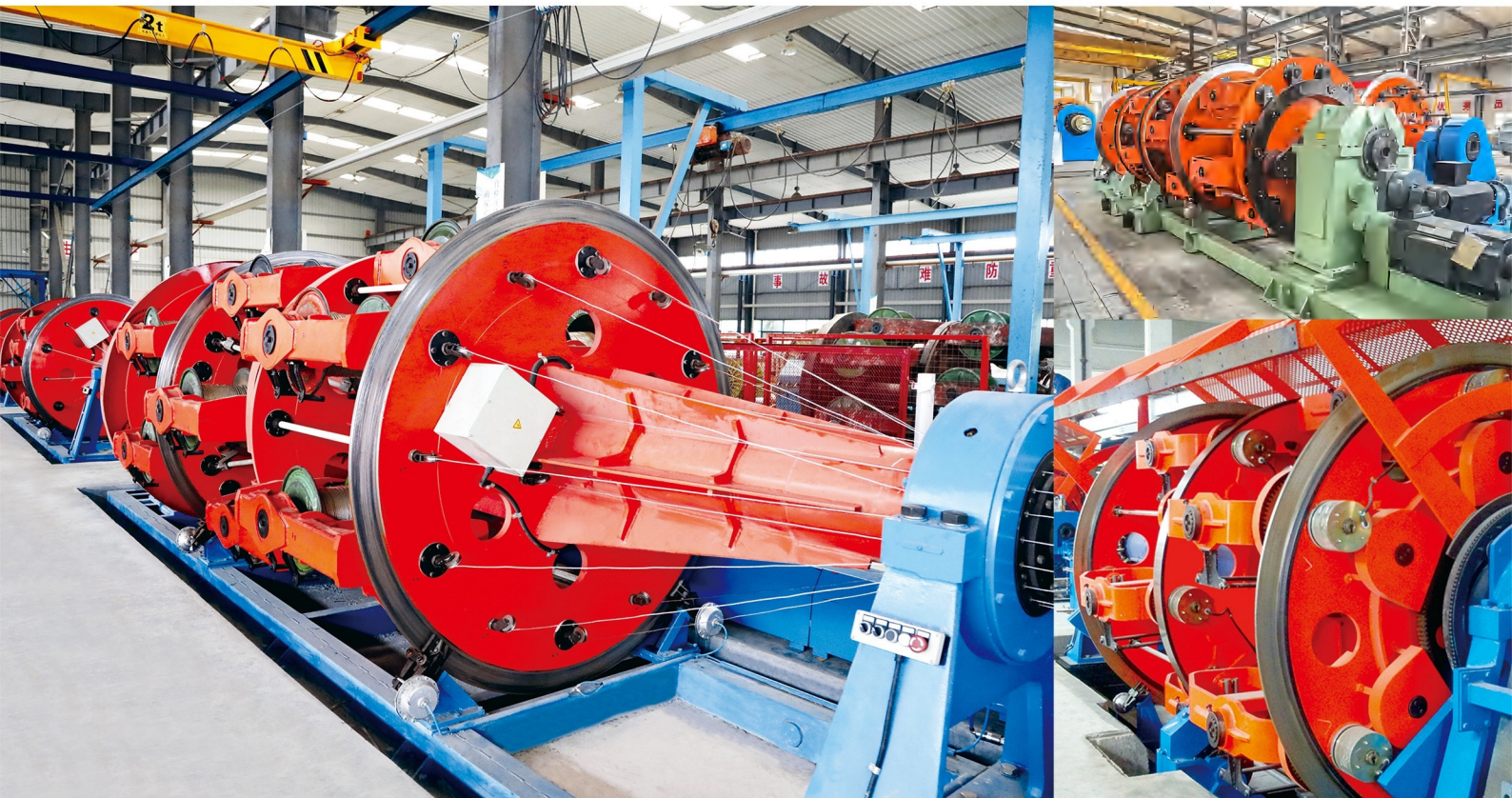
Application

Copper/aluminium wire stranding.
OPGW cable stranding.

Key Features

Planetary cage structure for copper and aluminium wire stranding.
Suitable for power cable conductors and OPGW cable applications.
Stable stranding performance for different reel configurations.

Reel Size (mm)	Max.Rotation Speed (rpm)										Single Wire Diameter (mm)			
	with Roller					without Roller					Aluminium	Copper	Al-clad Steel	Optic Fiber
	6B	8B	12B	16B	18B	24B	6B	12B	18B	24B				
Φ400	125		110		95	85	155	140	125	110	Φ1.5~Φ4.0	Φ1.2~Φ4.0	Φ1.2~Φ3.5	Φ2.5~Φ4.0
Φ500	110		95		85	75	135	125	110	95	Φ1.5~Φ5.0	Φ1.5~Φ5.0	Φ1.3~Φ3.5	Φ3.0~Φ5.0
Φ600	85	80	75	70	65	60	110	95	85	75	Φ1.8~Φ6.0	Φ1.5~Φ6.0	Φ1.5~Φ4.5	Φ3.0~Φ6.0



COMBINED DRUM TWISTER

FOR POWER CABLE CORE LAYING-UP

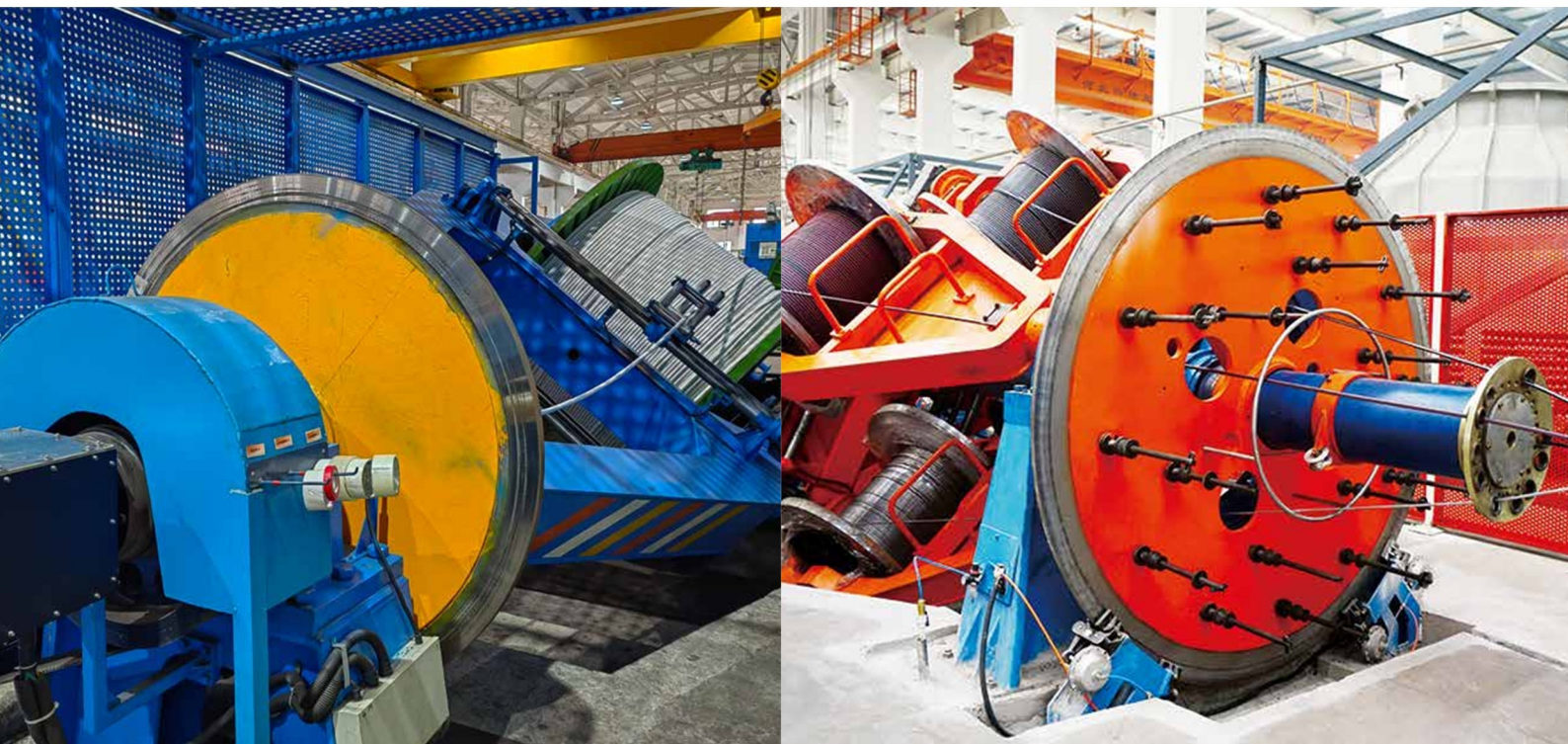
Application

Power cable core laying-up.
Communication cable assembly.
Control cable assembly.
Mining cable assembly.

Key Features

Combined drum twister for power cable core laying-up.
Flexible configuration for different cable structures.
Suitable for integrated laying-up and auxiliary processes according to project requirements.

Reel Size(mm)		Max. Rotating Take-up Speed						Single Wire Diameter(mm)	Reel Loading Weight (kg)		Machine Size (L×W) (m)
Take up Reel	Payoff Reel	3B(1+3B)	1+1+3B	4B(1+4B)	1+1+4B	Cradle Type	Under Roller Type		Take up Reel	Payoff Reel	
Φ1250	Φ800	70	70	60	60	150	120	Φ5~Φ15	2	0.8	33×4
Φ1600	Φ1000	60	60	50	50	120	100	Φ10~Φ20	3	1.5	34×5
Φ2000	Φ1250	40	40	35	35	100	80	Φ10~Φ25	5	2	38×6
Φ2500	Φ1600	30	30	25	25	70	60	Φ10~Φ35	8	3	43×7
Φ3150	Φ2000	21	21	16	16	50	40	Φ15~Φ40	12	5	52×9
Φ3500	Φ2000	21	21	16	16	40	30	Φ15~Φ40	15	5	53×9
Φ4000	Φ2500	12	12	10	10	30	25	Φ15~Φ50	20	8	60×11



LEAD SHEATHING EXTRUDER

TYPE YQL-150/5 | FOR CONTINUOUS LEAD SHEATHING

Application

This extruder is used for continuous lead sheathing of cables and rubber pipes. It can also support continuous lead extrusion and vulcanizing processes. Available models include YQL-200/5, YQL-150/5, YQL-120/5 and YQL-100/5.

Key Features

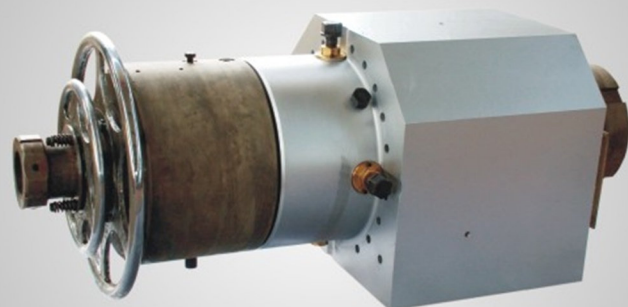
Continuous lead sheathing process for power cables and rubber pipes.

Integrated lead melting and holding system for stable extrusion.

Die configuration can be selected according to cable size.

Main Technical Data of Type YQL-150/5

Screw Diameter	150mm
Screw Speed	9-15rpm
Lead Holding Furnace	10t
Extrusion Output	15-35kg/min
Lead Melting Furnace	18t
Die Size Range	φ 20~φ 80, φ 40~φ 110



HIGH-SPEED PLANETARY LAYING-UP MACHINE

FOR LV, MV AND HV POWER CABLE CORE ASSEMBLY

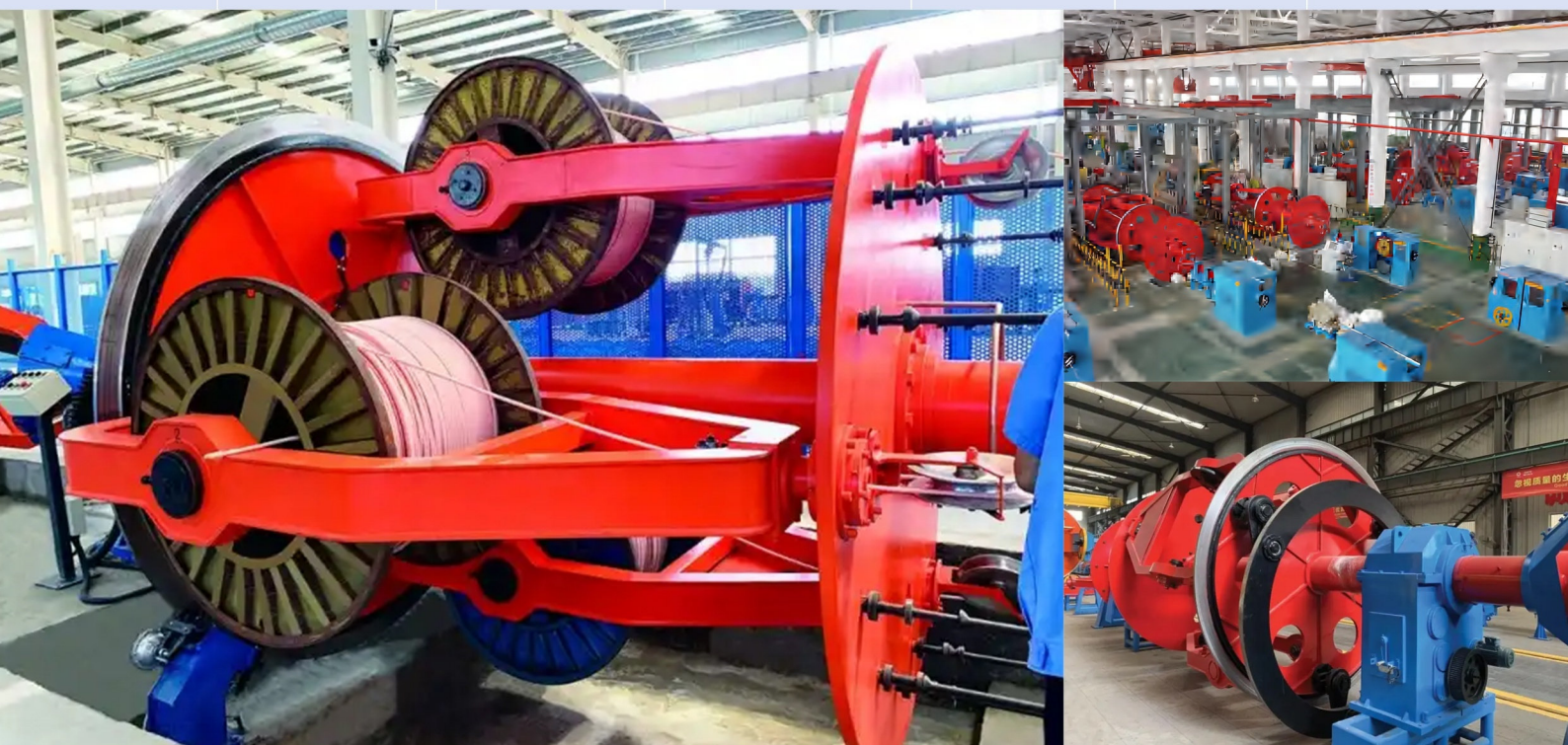
Application

LV/MV power cable core assembly.
Communication cable assembly.
Control cable assembly.
Mining cable assembly.

Key Features

High-speed planetary laying-up for multi-core cable assembly.
Suitable for LV, MV and HV power cable production.
Flexible configuration for taping, filling and auxiliary units.

Reel Size(mm)	Max.Rotation Speed (rpm)			Single Wire Diameter(mm)	Reel Loading Weight (kg)	Machine Size (L×W) (m)
	3B	4B	5B			
Φ1000	70	60	60	Φ10~Φ20	1500	34×5
Φ1250	60	50	50	Φ10~Φ25	2000	39×6
Φ1600	45	35	35	Φ10~Φ35	3000	45×7
Φ2000	21	16	16	Φ15~Φ40	4000	53×9



SKIP-TYPE STRANDING MACHINE

FOR CONTROL CABLE AND LV CABLE CORE ASSEMBLY

Application

Control cable assembly.
LV cable assembly.
Aerial bundled cable assembly.

Key Features

Skip-type structure for multi-core cable assembly.
Suitable for control cables, LV cables and aerial bundled cables.
Stable lay length control for different cable structures.

Reel Size(mm)	Max.Rotation Speed (rpm)				Single Wire Diameter(mm)		Machine Size (L×W) (m)
	3B	4B	5B	6B	Flexible	Hard	
Φ630	900	850	800	750	Φ5~Φ10	Φ1.5~Φ4.0	35×5
Φ800	700	650	600	550	Φ5~Φ10	Φ2.0~Φ5.0	43×3
Φ1000	450	400	350	300	Φ8~Φ15	Φ3.0~Φ6.0	50×6
Φ1250	350	300	250	200	Φ8~Φ15	Φ3.0~Φ6.0	55×6
Φ1600	250	220	200	150	Φ10~Φ20	Φ3.5~Φ8.0	60×7



RIGID STRANDING MACHINE

SERIES OF STRANDING LINE

Application

Carbon fiber reinforced core stranding.
Expanded-diameter conductor stranding.
Soft/semi-hard aluminium trapezoidal wire stranding (T/Z).

Key Features

Rigid cage structure for conductor stranding.
Suitable for copper, aluminium and trapezoidal wire applications.
Configurable for round and sector conductor production.

Reel Size (mm)		Max. Rotation Speed (rpm)						Single Wire Diameter (mm)	
		6B	12B	18B	24B	30B	36B	Aluminium	Copper
Φ500	Al	240	220	200	180	160	140	Φ1.8~Φ5.0	Φ1.5~Φ5.0
	Cu	220	200	180	160	140	120		
Φ630	Normal	Al	230	210	190	170	150	Φ1.8~Φ5.0	Φ1.5~Φ5.0
		Cu	210	190	170	150	130		
	High speed	Al	325	290	250	215	185	Φ1.8~Φ6.6	Φ1.5~Φ5.0
		Cu	230	210	190	170	150		
Φ710	Al	170	150	132	117	103	91	Φ3.0~Φ6.2	Trapezoidal Wire
Φ800		132	117	103	91	80	70		



CRADLE-TYPE STEEL WIRE ARMOURING MACHINE

FOR STEEL WIRE ARMOURING OF POWER CABLES

Application

Steel wire armouring for power cables.

Key Features

Cradle-type cage structure for stable steel wire armouring.
Suitable for power cable armouring with different wire diameters.
Robust mechanical design for continuous production.

Reel Size (mm)	Max.Rotation Speed (rpm)								Single Wire Diameter (mm)	
	24B	36B	48B	54B	70B	80B	128B	132B	Round Steel Wire	Flat Steel Wire
Φ500	75	45	35	30					Φ60~Φ170	
Φ630	60	40	30	25	15	15	15	15	Φ60~Φ210	(4~7)x(1.5~3)
Φ800	45	30	20	15	10	10	10	10	Φ60~Φ210	(5~8.5)x(2~3.5)



DOUBLE-TWIST BUNCHING MACHINE

FOR COPPER WIRE BUNCHING AND FINE WIRE STRANDING

Application

Copper wire bunching.
Aluminium wire bunching.
Copper/aluminium wire compacting.

Key Features

Double-twist structure for efficient wire bunching.
Suitable for copper and aluminium fine wire applications.
Compact machine layout with stable running performance.

Reel Size(mm)	Single Wire Diameter(mm)	Max. Rotation Speed (rpm)	Max.Cross Section of Conductor(mm)		Machine Size (L×W) (m)
			Compacted Conductor	Non Compacted Conductor	
Φ1250	Φ1.0~Φ3.0	800	70	95	24×4
Φ1600	Φ1.5~Φ5.0	500	95	240	27×7
Φ2200	Φ1.5~Φ5.0	400	95	300	28×8



CONCENTRIC STRANDING MACHINE

SERIES OF STRANDING LINE

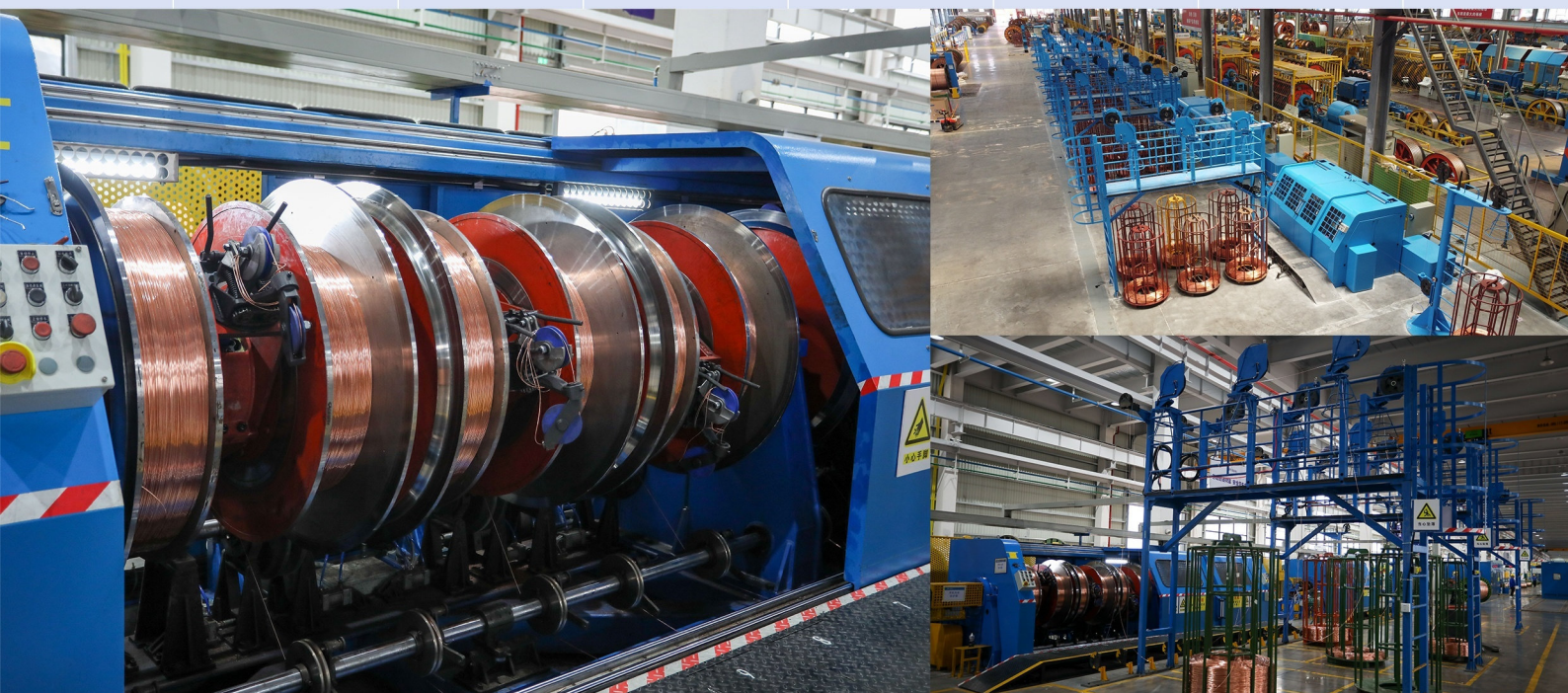
Application

Copper and aluminium round or sector conductor stranding.
Overhead conductor stranding.

Key Features

Large pay-off bobbins support long continuous production runs.
Concentric cage design for high stranding speed and production efficiency.
Compact layout reduces floor space requirement.

Reel Size (mm)	Wire Capacity - Copper	Cage Speed (rpm)	Sing Wire Diameter		Overall Size (LengthxwidthxHeight)(m)		
			Aluminum	Copper	19cores	37cores	61cores
Φ1000	670	500	Φ1.8~Φ5.0	Φ1.5~Φ5.0	34×9×4.5	52×9×4.5	66×9×4.5
Φ1200	1350	500	Φ1.8~Φ5.0	Φ1.5~Φ5.0	28×9×4.5	41×9×4.5	55×9×4.5



TIG WELDING ALUMINIUM SHEATHING LINE

MODEL HJG360/180 | METAL SHEATHING EQUIPMENT

Application

The equipment is designed for manufacturing welded and corrugated metallic sheath for 110 kV-500 kV high-voltage and extra-high-voltage power cables.

Key Features

Integrated forming, TIG welding and corrugation process for metallic sheath.
Synchronous control of welding and traction for continuous seam quality.
Suitable for aluminium, copper and stainless-steel sheath applications.

Main Technical Specifications

Cable Core Diameter Range		Φ50~Φ160mm
Welded Metallic Sheath O.D. Range		Φ60~Φ180mm
Welding Strip Thickness	Aluminum	1.2~3.5mm
	Copper	0.8~1.8mm
	Stainless steel	0.8~1.5mm
Welding Line Speed		0-6 m/min, stepless adjustment
Welding Current Range		DC, high-frequency arc ignition, 30-300 A
Synchronous control of welding and traction; welding can restart after optional shutdown while maintaining weld seam continuity.		
Corrugation Parameters	Corrugation Pitch Range	10~50mm
	Corrugation Depth Range	1~8mm
Equipment Center Height		1000mm high
Production Line Length		48m long



IMPULSE VOLTAGE TEST SYSTEM

Application

The system is used for lightning and switching impulse voltage tests of power cables, transformers, HV switchgear and other high-voltage products.

Key Features

Suitable for lightning and switching impulse voltage tests.

Applicable to power cables, transformers, HV switches and other HV products.

NI or PLC-based automatic control with multiple protection measures.

High-speed and high-resolution measurement configuration.

Main Technical Parameters

Rated Voltage	$\pm 100\text{ kV}$ -6000 kV and above		
Rated Energy	2.5 kJ-1200 kJ		
Stage Voltage	$\pm 100\text{ kV}$, $\pm 200\text{ kV}$		
Standard Lightning Impulse	1.2/50 μs		
Impulse Waveform	Efficiency 85~90%	(1.2 $\pm$ 30%/50 $\pm$ 20% μs)	
Switching Impulse	250/2500 μs	Efficiency 65~70%	(250 $\pm$ 20%/2500 $\pm$ 60% μs)



HORIZONTAL LAYING-UP MACHINE

FOR SUBMARINE CABLES AND UMBILICAL CABLES

Application

Laying-up of submarine power cables and umbilical cables.

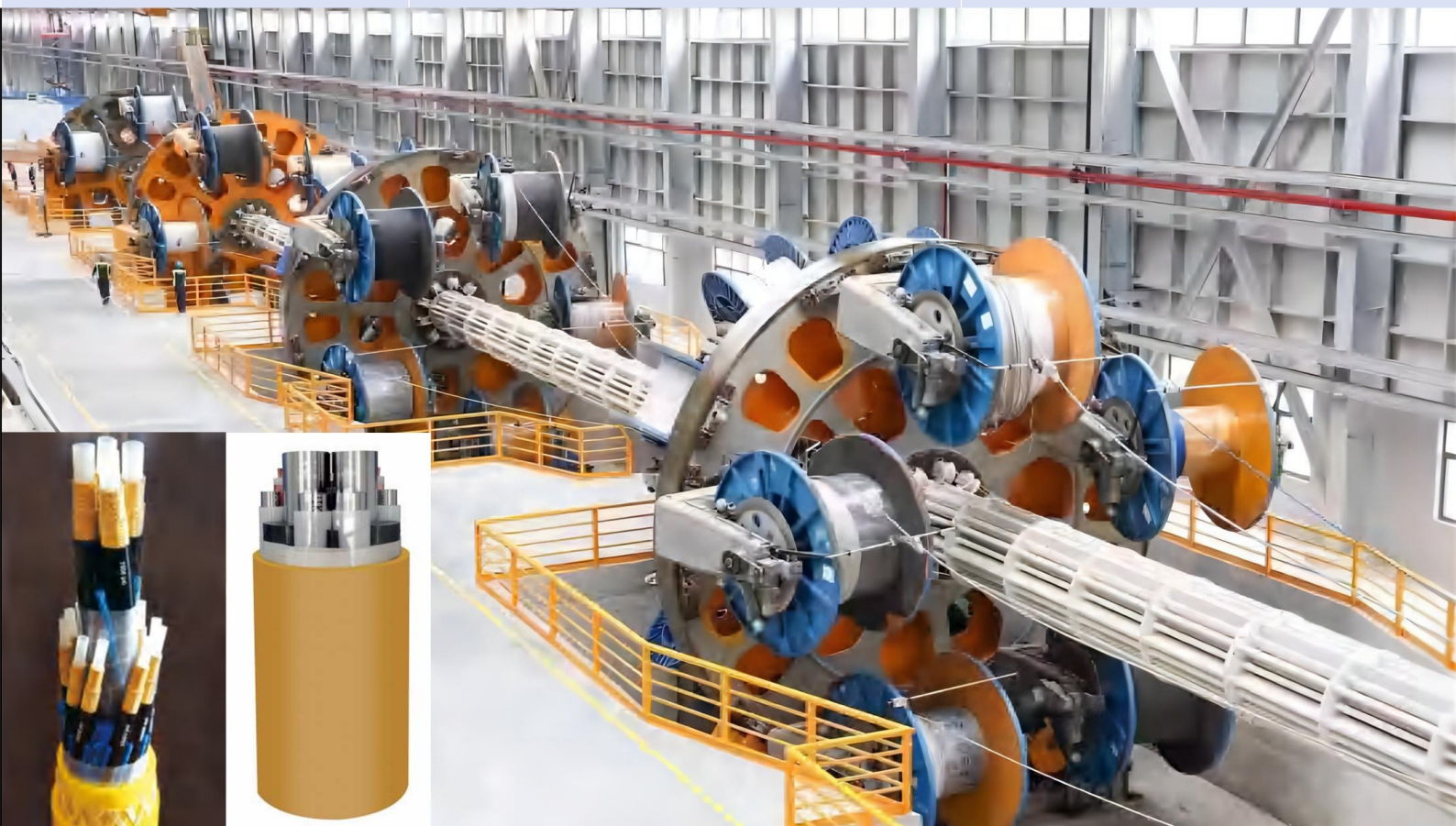
Key Features

Horizontal laying-up system for submarine and umbilical cables.

Large rotating wheel design for heavy cable structures.

Customizable layout for complex cable assembly processes.

Wheel O.D. (m)	Drum Capacity Each (t)	Max. Rotation Speed (rpm)
9.5	20~50	4



AC RESONANT PD TEST SYSTEM

FOR AC VOLTAGE WITHSTAND TEST, PD TEST AND LONG-DURATION CABLE TEST

Application

The AC resonant test system is used for AC withstand voltage testing and partial discharge testing of XLPE power cables and other high-voltage products. The system uses adjustable reactors to match the capacitance of the test object and achieve resonance, reducing input power and improving test efficiency.

Key Features

- Designed for AC withstand voltage and partial discharge testing.
- Low partial discharge level for accurate HV cable testing.
- Modular system configuration according to voltage and capacity requirements.

Main Technical Parameters

Rated voltage	100kV~1500kV(and above)
Rated Capacity	300kVA ~ 30000kVA(and above)
Noise	≤ 75dB(2 meters away from equipment)
Q Factor	$Q \geq 20 \sim 100$
Partial Discharge	≤ 2 pC at 80% rated test voltage
Load	under rated capacity, 1 hour on, 1 hour off, 3 ~ 6 times per day; under 50% capacity, continuous. Operation (Or we design as per customer requirement)



COPPER WIRE SHIELDING MACHINE

FOR COPPER WIRE SHIELDING OF POWER CABLES

Application

Copper wire shielding for power cables.
Copper wire shielding for communication cables.
Copper wire shielding for control cables.

Key Features

Copper wire shielding with steplessly adjustable shielding pitch.
Optional copper tape shielding and non-metal wrapping during the same process.
Adjustable pay-off tension for stable wire distribution.

Reel Size(mm)	Single Wire Diameter(m)	Number of Bobbins	Max.Rotation Speed (rpm)	Machine Size(LxW)(m)
Φ315	Φ0.6~Φ2.0	72	60	44×7
		80	50	44×7
		120	40	45×7
Φ400	Φ0.8~Φ2.5	40	60	44×7
		80	45	47×7
		96	40	47×7



DRUM TWISTER WITH CATERPILLAR

SERIES OF STRANDING LINE

Application

LV/MV/HV power cable assembly..
Communication cable assembly..
Steel wire armoured cables..
Copper wire shielded cables..

Key Features

Drum twister configuration for large-section cable laying-up..
Caterpillar haul-off with synchronized traction speed..
Pneumatic clamping and automatic belt tightening for stable traction..

Reel Size(mm)		Max.Rotation Speed (rpm)		Cable O.D. after Laying-Up (mm)	Reel Loading Weight(T)		Machine Size (L×W) (m)
Take up Reel	Payoff Reel	Under Roller Type	Cradle Type		Take up Reel	Payoff Reel	
Φ2000	Φ1250	80	10	Φ100	10	3	60×9
Φ2500	Φ1600	60	70	Φ100	12	5	63×9
Φ3150	Φ2000	40	50	Φ120	20	10	68×10
Φ3500	Φ2500	30	40	Φ120	25	12	70×11
Φ4000	Φ2500	25	30	Φ130	30	12	73×11
Φ4200	Φ2500	25	30	Φ130	30	12	75×11



CONTINUOUS ALUMINIUM SHEATH EXTRUSION LINE

CONFORM EXTRUSION LINE

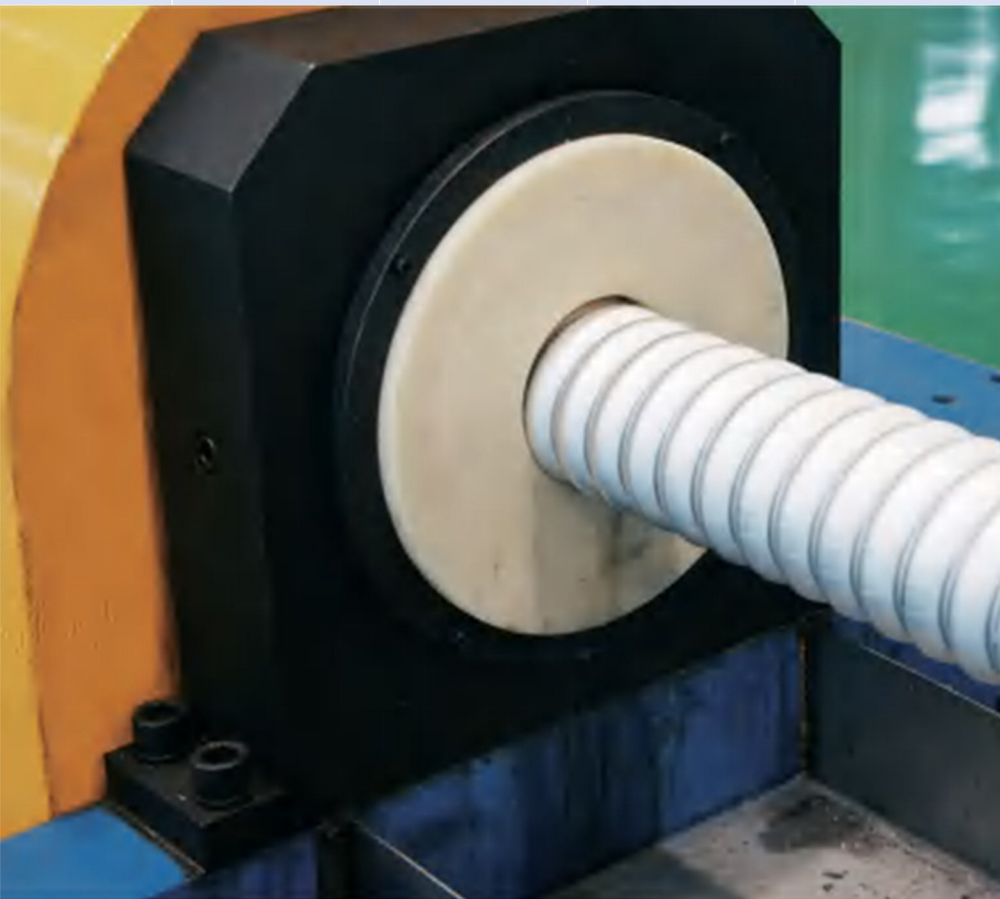
Application

MV cables with seamless aluminium sheath.
 HV cables with seamless aluminium sheath.
 EHV cables with seamless aluminium sheath.

Key Features

Continuous extrusion process for seamless aluminium sheath.
 Suitable for HV and EHV cable aluminium sheath production.
 Stable aluminium tube forming with customized line configuration.

Model	Rod Diameter (mm)	Extrusion (kg/h)	Aluminium Tube O.D. (mm)	Aluminium Tube Thickness (mm)	Corrugating Pitch (mm)	Corrugation Depth (mm)	Machine Size (L×W) (m)
LBF420*2	Φ9.5	400	Φ60~Φ170	1.5~4.0	10~50	2~8	62×11
LBF500*2		480	Φ60~Φ210	2.0~5.0		2~10	



CABLE SHEATHING EXTRUDER

EXTRUDER SERIES: SJ30×25 - SJ200×25

Features

High-strength 38CrMoAlA alloy steel screw and barrel, precision-machined and nitrided for excellent wear resistance and long service life.

Pt100 temperature sensing, hardened gear reducer, and automatic air cooling for stable and efficient operation.

The main drive can be configured with either a DC motor with European controller or a variable frequency motor with Siemens or Danfoss system.

Siemens PLC and touchscreen provide real-time monitoring of temperature, line speed, screw speed, extruder current and meter count.

Key Features

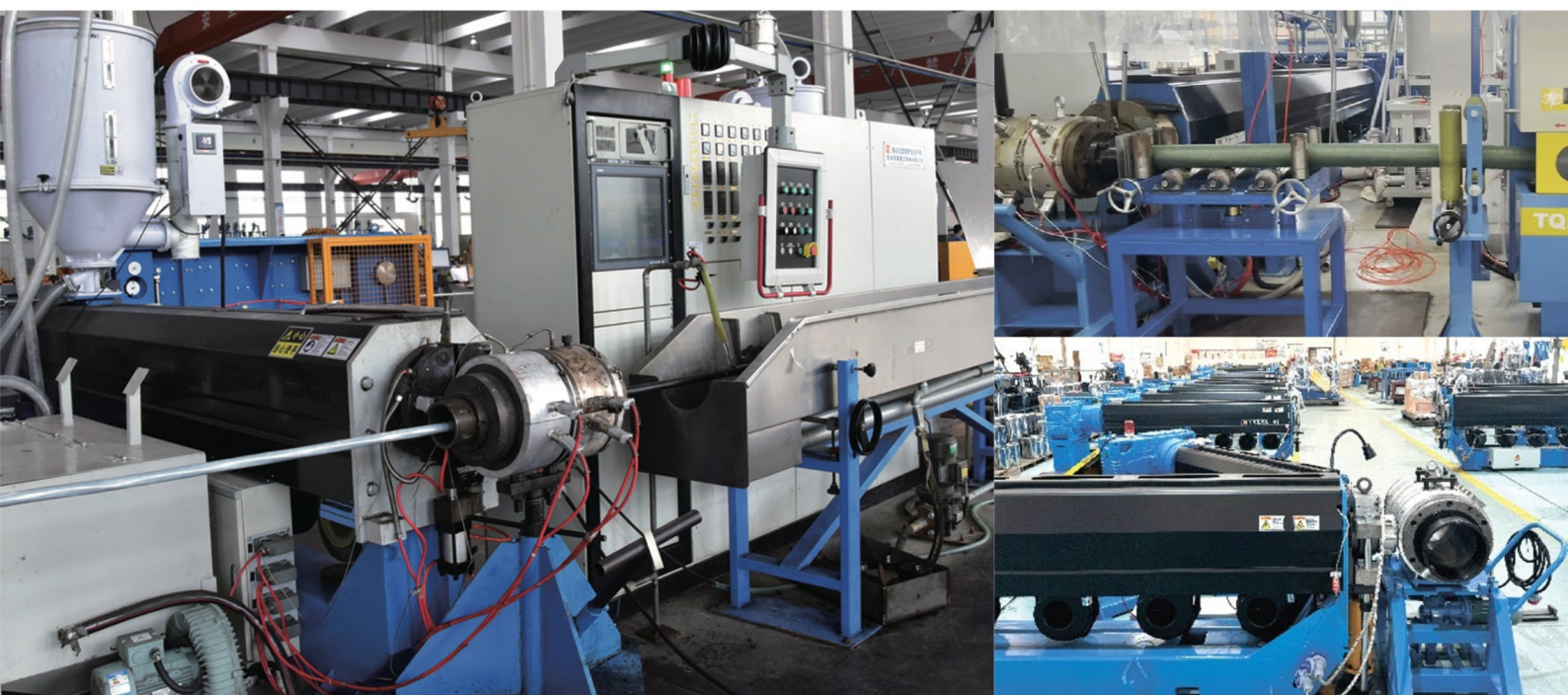
Suitable for PVC, PE, XLPE and LSHF insulation or sheathing materials.

Siemens PLC and touchscreen for real-time process monitoring.

Nitrided 38CrMoAlA screw and barrel for stable plasticizing performance.

Main Technical Parameters

MODEL	Screw Diameter (mm)	L/D Ratio	Max. Screw Speed (rpm)	Drive Power (kW)	Barrel Heating Power (kW)	Temperature Control Zones: Barrel / Head	Max. Extrusion Output (kg/h)
SJ30X25	30	25:1	5-150	11	3.6	3/2	20
SJ45X25	45	25:1	10-100	15	9	3/2	50
SJ65X25	65	25:1	10-100	30	16	4/3	130
SJ70X25	70	25:1	10-100	37	20	4/3	160
SJ80X25	80	25:1	10-100	75	24	4/4	220
SJ90X25	90	25:1	10-100	90	30	5/4	320
SJ100X25	100	25:1	9-90	110	35	5/4	400
SJ120X25	120	25:1	8-80	132	54	6/4	600
SJ150X25	150	25:1	6-60	185	88	6/4	950
SJ180X25	180	25:1	4-44	250	119	7/4	1100
SJ200X25	200	25:1	4-40	280	140	7/4	1300



TUBULAR STRANDING MACHINE

FOR COPPER, ALUMINIUM, STEEL WIRE AND OPGW STRANDING

Application

Copper/aluminium/steel wire stranding.
Steel rope stranding.
OPGW cable stranding.
Single-bobbin or batch-loading hoist unit is optional.

Key Features

Tubular cage structure for high-speed wire stranding.
Suitable for copper, aluminium and steel wire applications.
Optional high-tension or back-twist configuration according to project requirements.

Reel Size (mm)	Max.Rotation Speed (rpm)					Max Rotatioin Speed of Cage (rpm)		Reel Size (mm)		
	6B	12B	18B	24B	36B	Bow cradle	Cage Speed	Aluminium	Copper	Steel
Φ315	1400	1300	1200	1000	800	Φ800	500	Φ1.2~Φ2.0	Φ1.0~Φ2.0	Φ0.4~Φ1.0
Φ400	130	1200	1100	900	800	Φ1000	400	Φ1.5~Φ3.0	Φ1.2~Φ3.0	Φ0.6~Φ2.0
Φ500	1100	1000	850	750	700	Φ1250	350	Φ1.5~Φ4.0	Φ1.5~Φ4.0	Φ0.75~Φ3.0
Φ560	900	800	700	650	600	Φ1250	350	Φ1.5~Φ5.0	Φ1.5~Φ5.0	Φ0.85~Φ3.5
Φ630	900	800	700	650	600	Φ1600	300	Φ1.5~Φ5.0	Φ1.5~Φ5.0	Φ0.85~Φ3.5
Φ710	600	500	450	400	350	Φ1600	300	Φ1.5~Φ6.6	Φ1.5~Φ6.6	Φ0.85~Φ4.5
Φ760	500	450	400	350	300	Φ1600	300	Φ2.0~Φ7.0	Φ2.0~Φ7.0	Φ1.2~Φ4.5
Φ800	450	400	300	300	200			Φ2.0~Φ7.0	Φ2.0~Φ7.0	Φ1.2~Φ4.5



TANGENTIAL STEEL TAPE ARMOURING MACHINE

FOR STEEL TAPE ARMOURING OF POWER CABLES

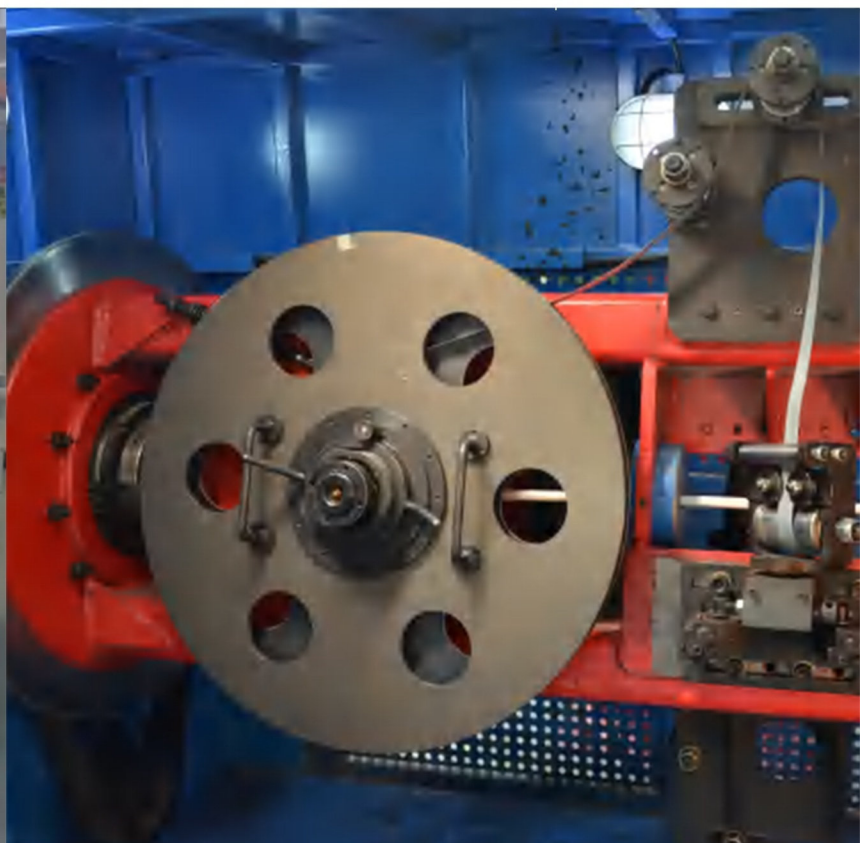
Application

Power Cables Steel Tape Armouring.
 Communication Cables Steel Tape Armouring.
 Control Cables Steel Tape Armouring.
 Mechanical tension control; servo motor tension control; hysteresis tension control.

Key Features

Hysteresis tension brake with automatic tape tension control.
 Independent AC motor control for stable tape pitch.
 Automatic detection and stop for tape break or empty tape.

Pad Size(mm)	Steel Tape Width (mm)	Max.Rotation Speed (pm)	Max.Rotation Speed (mm)	Machine Size (L x W) m
Φ630	15~40	500	Φ90	28x6
Φ710	15~40	450	Φ120	30x7
Φ800	15~60	400	Φ150	30x7



CONCENTRIC INTERLOCKED ARMOURING MACHINE

MODEL KRH | INTERLOCKED ARMOURING EQUIPMENT

Application

Round cable interlocked armouring.
Flat cable interlocked armouring.

Key Features

Concentric interlocked armouring for round and flat cables.
Stable strip forming and interlocking process.
Suitable for flexible armoured cable structures.

Model	Max. Rotation Speed (rpm)	Tape Width(mm)	Tape Thickness (mm)	Armoured Cable O.D. (mm)	Machine Size(LxW)(m)
KRH-30	1200	9.5~12.7	0.5~0.8	30	23x5
KRH-50	1000	9.5~12.7	0.5~0.8	50	25x6
KRH-100	800	9.5~19.0	0.5~0.8	100	28x6
KRH-130	700	9.5~25.4	0.5~0.8	130	28x6

