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JLK 框式绞线机系列

JLK Rigid Type Stranding Machine

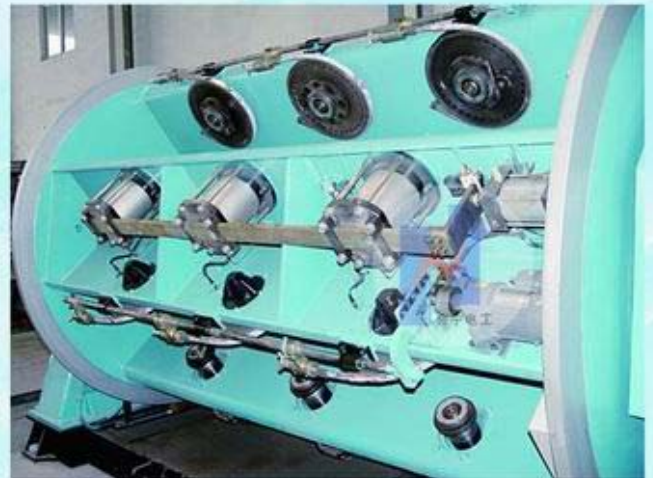
主要特点

- 1、每段绞体的线盘张力采用气动比例阀控制器，自动计算并跟踪盘径调整线盘张力，以保证线盘张力从满盘至空盘的张力恒定。
- 2、分电机传动的框绞机整机采用 PLC 控制，正常做线时的节距偏差小于 1.5%，同步精度高。
- 3、采用数字量检测断线，并在主操作台上的触摸屏内显示哪一盘断线。



Main Features

1. Bobbin tension of each stranding cage be controlled by pneumatic proportional valve controller. It can calculate and follow bobbin diameter to adjust the bobbin tension automatically, which enables the bobbin tension invariableness from full bobbin till empty bobbin.
2. Independent motor driving rigid type stranding machine adopts PLC to control. Lay length tolerance is less than 1.5%, synchronization precision is high.
3. Adopting digital value wire-broken detection system and showing on the touch screen.



JLK 框式绞线机系列

JLK Rigid Type Stranding Machine



主要技术参数

1. 框架内放线盘规格: PND630、PND710。
2. 绞合单线直径: 铜 $\phi 1.5 \sim \phi 5.0$
铝 $\phi 1.8 \sim \phi 5.0$ 。
3. 节距: (1) 绞合节距可在触摸屏上设定, 无级可调
(2) 预扭紧压节距: 400mm ~ 3000mm。
4. 设备中心高: 1000mm。

Main Technical Specification

1. Bobbin size in cage: PND630, PND710.
2. Dia. of single wire: Copper $\phi 1.5 \sim \phi 5.0$
Aluminium $\phi 1.8 \sim \phi 5.0$.
3. Lay length: (1) It can be set on touch screen by step-less.
(2) Pre-twist & compacting lay length is 400mm~3000mm.
4. Center height: 1000mm.

JL 笼式绞线机系列

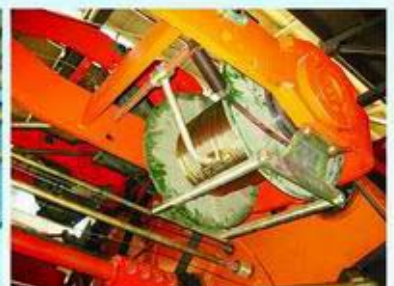
JL Planetary Type Stranding Machine

主要特点

- 1、主轴为一根整体的厚壁无缝钢管，采用齿轮退扭；实现100%机械退扭，双轴承前后支撑。
- 2、放线张力可采用机械反馈张力控制、直流电机恒张力控制、ZF磁粉恒张力控制等方式，保证放线张力的恒定。

Main Features

1. The main shaft is a thick-walled seamless steel pipe. It adopts gear back-twist to achieve 100% mechanical back-twisting. The two ends of shaft are supported by bearings.
2. Pay-off tension adopts mechanical feedback control, DC motor constant tension control, or ZF magnetic powder constant tension control, which can ensure pay-off constant tension.



JL 笼式绞线机系列

JL Planetary Type Stranding Machine

主要技术参数

- 1、放线盘规格主要有： $\phi 400$ 、 $\phi 500$ 、 $\phi 630$ 、 $\phi 710$ 、 $\phi 800$ 。
- 2、绞合单线直径：铝、铝合金单丝 $\phi 1.8 \sim \phi 5.0$ ，铝包钢 $\phi 1.2 \sim \phi 4.5$ ，不锈钢光纤单元 $\phi 1.5 \sim \phi 5.0$ ，绝缘张芯 $\phi 2.0 \sim \phi 10$ 。
- 3、绞线节距（分电机传动）：无级可调。
- 4、设备中心高：1000mm。



Main Technical Specification

1. Pay-off bobbin size :
 $\phi 400$, $\phi 500$, $\phi 630$, $\phi 710$, $\phi 800$
2. Dia. of single wire:
Aluminium & Aluminium Alloy $\phi 1.8 \sim \phi 5.0$
Aluminium Clad Steel $\phi 1.2 \sim \phi 4.5$
Stainless Steel Optical Fiber Unit
 $\phi 1.5 \sim \phi 5.0$
3. Lay length (independent motor driving):
Adjustable by step-less
4. Center height: 1000mm

JLG 管式绞线机系列

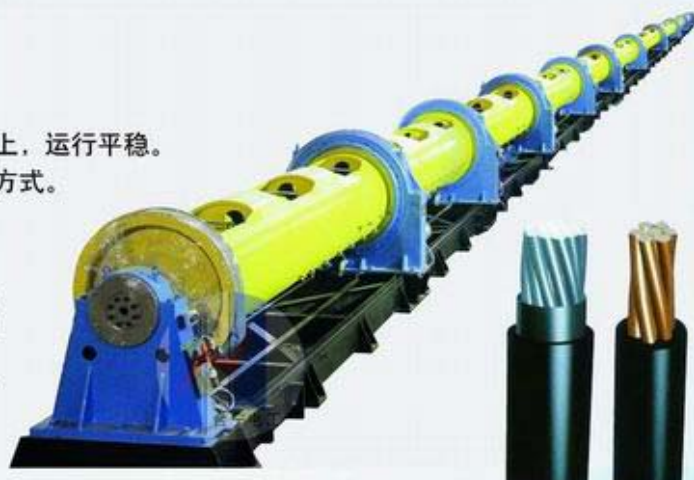
JLG Tubular Type Stranding Machine

主要特点

- 1、筒体前后轴承支撑，放置于整体铸件的底板上，运行平稳。
- 2、放线张力可采用机械反馈、磁粉、磁滞控制方式。

Main Features

1. The two ends of barrel are supported by bearings and is installed on integral casting baseboard, which ensures steady running.
2. Pay-off tension adopts mechanical feedback control, magnetic powder control, or magnetic hysteresis control.



JLG 管式绞线机系列

JLG Tubular Type Stranding Machine



主要技术参数

最高转速： $\phi 500/1+6$ 500r/min
 $\phi 630/1+6$ 500r/min
 $\phi 630/1+12$ 350r/min。

Main Technical Specification

Max. rotating speed: $\phi 500/1+6$ 500r/min
 $\phi 630/1+6$ 500r/min
 $\phi 630/1+12$ 350r/min.



JPD 盘式成缆机系列

JPD Drum Twister Type Laying-up Machine

主要特点

- 1、该机采用西门子触摸屏和可编程控制器通过PROFIBUS总线统一指挥协调整机各部分电机启动、运行和同步等。电控技术先进，操作方便，运行可靠。
- 2、主电机、各放线电机、绕包电机、牵引装置、旋转收线架均为交流电机，采用变频器控制调速。排线电机采用直流电机，收线电机采用交流变频电机。性能稳定，故障率低，维护方便。
- 3、排线节距可在触摸屏上进行设定、修改和显示，并可在触摸屏上设定左右向排线、点动和快速移动调整等。
- 4、该机放线架采用单独电机传动，可与旋转收线架同步旋转，也可固定不动。

Main Features

1. It adopts SIEMENS touch screen and PLC through PROFIBUS to command and regulating starting, running and synchronization. Electrical control system is advanced, easy operation, reliable running.
2. Main motor, pay-off motors, taping motor, caterpillar motor, rotary take-up motor adopt AC motors and be controlled by transducer. Traversing motor adopts DC motor, take-up motor adopts AC variable frequency motor. Steady performance, low failure, convenient maintain.
3. Traversing lay length can be set, changed and displayed on touch screen. It also can set left and right direction traversing, inching and fast motion on touch screen.
4. Pay-off stand adopts independent motor, it can be synchronous with take-up stand and also be fixed.



JPD 盘式成缆机系列

JPD Drum Twister Type Laying-up Machine

主要技术参数

1. 型号: $\phi 2500$ 、 $\phi 3150$ 、 $\phi 3600$ 、 $\phi 4200$ 。
2. 绞体最高转速: $21\text{r}/\text{min} \sim 30\text{r}/\text{min}$ 。
3. 成缆节距: 无级可调。
4. 最大牵引力: 6000kg 。
5. 设备中心高: 1000mm 。

Main Technical Specification

1. Model: $\phi 2500$, $\phi 3150$, $\phi 3600$, $\phi 4200$.
2. Max. rotating speed: $21\text{r}/\text{min} \sim 30\text{r}/\text{min}$.
3. Lay length: Adjustable by step-less.
4. Max. haul-off force: 6000kg .
5. Center height: 1000mm .



海缆 立式成缆钢丝铠装机

Submarine Cable - Vertical Type Laying-up Machine with Steel Armoring

主要特点

- 1、设备主要用于海底电缆及光电复合电缆、动态电缆、脐带电缆的成缆和钢丝铠装。
- 2、采用立式转盘结构，上面放置3套 $\phi 8$ 米转盘或数十个3.5米脐带电缆线盘放线架，实现主动放线、主动退扭与非退扭切换。
- 3、设备全部采用分电机控制，由PLC进行统一管理和对整机。



Main Features

1. The machine is mainly used for laying-up and steel-armoring the submarine cable, photoelectricity composite cable, dynamic cable and umbilical cable.
2. Adopting vertical turntable structure, installation 3 sets of $\phi 8000\text{mm}$ turntable or dozens of 3500mm umbilical cable pay-off stand, to achieve switchover active pay-off, active back-twist, non back-twist.
3. Adopting independent motor for each part, PLC command and regulating whole line.



海缆 立式成缆钢丝铠装机

Submarine Cable - Vertical Type Laying-up Machine with Steel Armoring



主要技术参数

- 1、单线直径： $\phi 10 \sim \phi 138\text{mm}$ 。
- 2、成缆铠装后最大外径： $\phi 330\text{mm}$ 。
- 3、满载最高转速： $3\text{r}/\text{min}$ 。
- 4、最大牵引力： $15\text{T}+15\text{T}$ 。
- 5、最大生产线速度： $15\text{m}/\text{min}$ 。
- 6、外形尺寸：长 X 高 = $182\text{米} \times 38\text{米}$ 。

Main Technical Specification

1. Dia. of single wire: $\phi 10 \sim \phi 138\text{mm}$.
2. Max. OD of finished cable: $\phi 330\text{mm}$.
3. Max. rotating speed with full load: $3\text{r}/\text{min}$.
4. Max. haul-off force: $15\text{T}+15\text{T}$.
5. Max. linear speed: $15\text{m}/\text{min}$.
6. Boundary dimension: L x H $182\text{m} \times 38\text{m}$.



海缆(脐带缆)卧式成缆钢丝铠装机

Submarine Cable(umbilical cable) - Horizontal Type Laying-up Machine with Steel Armoring

主要特点

- 1、设备主要用于大规格、大长度海缆、脐带缆的成缆和铠装。
- 2、绞体采用卧式摇篮结构，通过退扭齿轮实现退扭和不退扭。
- 3、放线张力采用电机驱动主动放线。
- 4、整机采用分电机驱动，PLC和触摸屏统一控制整机运行。

Main Features

1. The machine is mainly used for laying up and armoring large size and length submarine cable and umbilical cable.
2. Stranding cage adopts horizontal cradle structure, to achieve back-twist and non back-twist by gears.
3. Pay-off tension adopts motor driving active pay-off.
4. Adopting independent motor for each part, PLC and touch screen command and regulating whole line.



海缆(脐带缆)卧式成缆钢丝铠装机

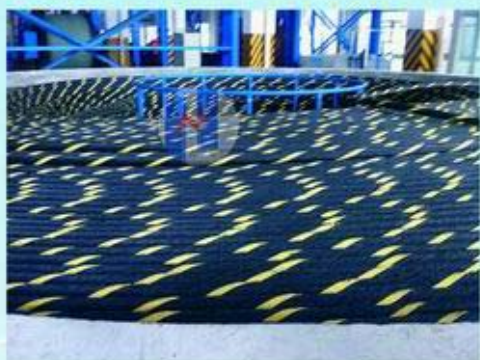
Submarine Cable(umbilical cable) - Horizontal Type Laying-up Machine with Steel Armoring

主要技术参数

- 1、绞笼放线盘规格：
PN4000mm x3 盘 + PN2600mm x12 盘。
- 2、成缆外径： $\phi 70 \sim \phi 250\text{mm}$ 。
- 3、绞笼最高转速：4 r/min。
- 4、最大牵引力：10000KG。
- 5、设备中心高：1300mm。

Main Technical Specification

1. Pay-off bobbin in cage:
PN4000mm x 3B + PN2600mm x 12B
2. OD of finished cable: $\phi 70 \sim \phi 250\text{mm}$
3. Max. rotating speed of cage: 4 r/min
4. Max. haul-off force: 10000KG
5. Center height: 1300mm



JC 成缆机系列

JC Laying-up Machine

主要特点

- 1、设备具有退扭、电动预扭、电动夹紧和放松线盘的功能，操作方便。
- 2、放线张力可采用机械张力、磁滞张力、磁粉张力等控制方式。
- 3、牵引可采用轮式牵引或平皮带牵引。

Main Features

1. The machine has function of back-twist, electric pre-twist, electric clamping and loosen bobbin, easy operation.
2. Pay-off tension adopts mechanical control, magnetic hysteresis control, or magnetic powder control and so on.
3. Haul-off device adopts wheel type device or caterpillar.



铜带、铜丝 屏蔽、钢带 铠装机

Copper Tape / Copper Wire Screening Machine, Steel Tape Armoring Machine



铜带屏蔽
Copper Tape Screening Machine



铜丝屏蔽
Copper Wire Screening Machine



钢带铠装
Steel Tape Armoring Machine



钢丝、钢丝绳

Steel Wire / Steel Rope Armoring Machine

平面式铠装机 Plane Type Armoring Machine



笼式铠装机 Planetary Type Armoring Machine



钢丝、钢丝绳

Steel Wire / Steel Rope Armoring Machine



框式铠装机
Rigid Type Armoring
Machine



铝合金、不锈钢带 锁扣机

Aluminium Alloy/Stainless Steel Tape Inter-locking Machine

设备主要用于各类铝合金、不锈钢带互锁铠装电缆。

The machine is mainly used for various kinds of Aluminium alloy, stainless steel tape inter-locking cables.

机型 Type	带宽度 Tape width (mm)	带厚度 Tape thickness (mm)	铠装外径 Armour O.D. (mm)	最大转速 Max. rotation speed (rpm)
SK-50	9.5~12.7	0.5~1.0	50	500
SK-100	9.5~19	0.5~1.0	100	400
SK-125	12.7~25.4	0.5~1.2	125	400



设备主要用于外保护管的制造，它将不锈钢带轧制成形后卷绕并压制成互锁结构软管。

The machine is mainly used for manufacture outer protective tube. It can roll forming the stainless steel tape then winding and pressing to inter-locking structure flexible pipe.

主要技术参数

- 1、制造管径范围： $\phi 75 \sim \phi 420\text{mm}$ 。
- 2、不锈钢带宽度：40 ~ 72mm。
- 3、不锈钢带厚度：0.5 ~ 2mm。
- 4、不锈钢带材质：304、316、316L。
- 5、最大生产线速度：0.6m/min。

Main Technical Specification

1. Manufacturing pipe diameter range: $\phi 75 \sim \phi 420\text{mm}$.
2. Width of stainless steel tape: 40 ~ 72mm.
3. Thickness of stainless steel tape: 0.5 ~ 2mm.
4. Grade of stainless steel tape: 304, 316, 316L.
5. Max. production line speed: 0.6m/min.



收、放线装置及附件

Pay-off Stand, Take-up Stand and Accessories

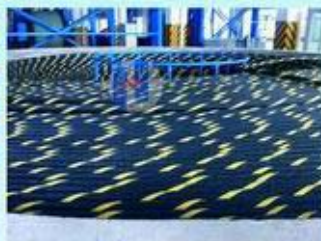
收、放线装置

Pay-off Stand and Take-up Stand



储线池系统、辅线池系统

Cable Accumulator System / Cable Laying System



收、放线装置及附件

Pay-off Stand, Take-up Stand and Accessories

附件 Accessories



收、放线装置及附件

Pay-off Stand, Take-up Stand and Accessories

