

PRODUCT TECHNICAL BROCHURE



BEYDE TRADING CO.,LTD.

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BEYDE
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BEYDE is a subsidiary of Hebei HEXING electrical machinery Co., Ltd., a professional manufacturer and exporter of cable equipment. Founded in 1983 by Mr. Chen Yuke, grandfather of current president Mr. Chen Jiuzhang, HEXING has a well-equipped factory with an area of 10,000 square meters located in Hejian, Hebei province, home to the manufacture of cable machinery and equipment. HEXING is a well-known brand in China's cable industry, serving over 70% cable manufacturers in northern China.

BEYDE supplies all types of machines including Laying-up machine, Rigid Stranding Machine, Tubular Stranding Machine, Planetary Stranding Machine and help wire & cable manufacturers lower production cost and ensure quality of final products.

Beyde was established for export business of HEXING as a result of increasing OEM business of HEXING for many Chinese exporters. With mature technological expertise, BEYDE provides cost-effective solutions for wire & cable manufacturers to expand or update their production lines.

Our machines have been exported to the United States, Russia, Malaysia, Saudi Arabia, Iran and other countries. The quality and performance of our products has been widely recognized and praised by overseas customers. We can customize the capacity, color of our machines according to the demands of clients.

We look forward to working with more overseas cable manufacturers to have mutually beneficial cooperation and create success and glory together!



Rigid Stranding Machine-Single Bobbin Bucket Loading

Application

Rigid stranding machine is designed for high efficiency production of compact-strand bare aluminium wire, bare copper wire and ACSR for power cable production. It can be used for making round or sector-shaped compact conductor.

Available Line Composition Types

Based on different bobbin size in stranding cage: PND500, PND630

- 19 wires: 1+6+12
- 30 wires: 12+18
- 37 wires: 1+6+12+18
- 54 wires: 12+18+24
- 61 wires: 1+6+12+18+24
- 84 wires: 12+18+24+30
- 91 wires: 1+6+12+18+24+30

Main Component

Pay-off, mainframes of 6-reel, 12-reel, 18-reel, 24-reel and 30-reel, die holder, haul-off unit, take-up and other electrical equipment

Technical Date Sheet

| Specification | | JJK500/12+18+24 | JJK630/12+18+24 |
|--------------------------------------|-----------|-----------------|-----------------|
| Dia of single wire (mm) | Copper | 12-50 | |
| | Aluminium | 15-50 | |
| Production dia (mm) | | 45 | 45 |
| Maximum stranding cage speed (r/min) | | 240 | 218 |
| Stranding pitch (mm) | | 41.7-976.8 | 50-1143 |
| Capstan (mm) | | 2000 | |
| Production speed (m/min) | | 8.2-55.1 | |
| Charge reel (mm) | | PL1600-2500 | PL2500-3150 |

- ▶ Latest Technology High Speed Rigid Stranding Machine
- ▶ Each bobbin is held between pintles with suitable interlock for pintles. Individual wires constant tension can be controlled through mechanically or electronically brake tension.
- ▶ Heavy duty enclosed gear box or external gearbox at the rear end of each carriages having provision driving the carriages in anti clockwise or clockwise direction.
- ▶ Synchronization can be done through line shaft or with fully automation control of the whole line through digital drives & PLC, MMI or SKADA etc.
- ▶ The frame of this rigid stranding machine is integrally welded and bored





Rigid Stranding Machine-Side bottom Automatic Bobbin Batch Loading

Main Component

Pay-off,mainframes of 6-reel, 12-reel, 18-reel,24-reel and 30-reel, die holder, haul-off unit, take-up and other electrical equipment

Available Line Composition Types

Based on PND630 bobbin size in stranding cage

- 19 wires: 1+6+12
- 30 wires: 12+18
- 37 wires: 1+6+12+18
- 54 wires: 12+18+24
- 61 wires: 1+6+12+18+24
- 84 wires: 12+18+24+30
- 91 wires: 1+6+12+18+24+30

Application

Rigid stranding machine is designed for super long length production of compact-strand bare aluminium wire, bare copper wire and ACSR for power cable production. It can be used for making round or sector-shaped compact conductor.

Technical Data Sheet

| Specification | JUK50/12+18+24 | JUK30/12+18+24 |
|--------------------------------------|----------------|----------------|
| Dia of single wire(mm) | Copper | 12-50 |
| | Aluminium | 15-50 |
| Production dia(mm) | 45 | 45 |
| Maximum stranding cage speed (r/min) | 240 | 218 |
| Stranding pitch(mm) | 41.7-976.8 | 50-1143 |
| Capstan (mm) | 2000 | |
| Production speed (m/min) | | 8.2-55.1 |
| Charge reel (mm) | PL1600-2500 | PL2500-3150 |



Laying Up Machine

Application

It is an economical & effective solution for cabling & ABC core laying

Rubber insulated core laying

PVC insulated core laying

XLPE Cables Core Laying with Filters

Laying Up Machine is suitable for the assembly of bare and/or insulated conductors. This machine is further used in conjunction with the Tubular Strander/Cabler in reverse concentric-lay Cabling, EM Armouring and OPGW Stranding. The Cabler pay-offs wires successively through a series of rotating bow. Therefore Laying Up machine is working with 100% backtwist movement.

Features

Easy to load, unload

High capstan radius to protect cable insulation from surface cracking caused by bending

Gear box enables machine rotation in both directions (clockwise / anti clock wise), to make various cage speed

Main Component

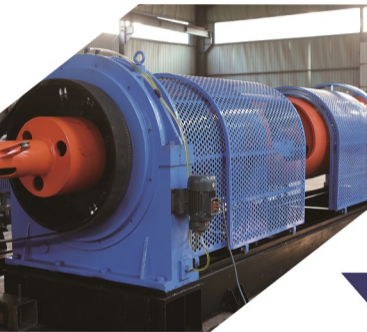
Central pay-off, frame host, taping device, armouring device, meter counter, traction device, take-up and traverse device, transmission and electric control sys



Technical Data Sheet

| Specification | CLY1000 1+1+3 | CLY1000 1+6 | CLY1250 1+1+3 | CLY1250/1+6 | CLY1600/2+3 | CLY2000/2+3 |
|-------------------------|------------------|----------------|------------------|-------------|-------------|-------------|
| Dia of inlet wire (mm) | 5mm-20mm | | 6mm-25mm | | 10mm- | 15mm-45mm |
| Lay-up Dia (mm) | 60mm | | 80mm | | 100mm | 120mm |
| Frame rotation speed | 10-25 | | | | 5-13 | 3.9-11.2 |
| Lay-up pitch (mm) | 280-3680 | | | | 420-7569 | 362-6969 |
| Taping speed (y/min) | 188-419 | | | | 188-419 | |
| Taping pitch (mm) | 11.9-195.9 | | | | 13-213 | |
| Armouring speed (y/min) | 188-419 | | | | 188-419 | |
| Armouring pitch (mm) | 11.9-195.9 | | | | 13-23 | |
| Taping Speed (y/min) | 2000 | | | | 2000 | 2500 |
| Linear speed (m/min) | 4.98-36.82 | | | | 5.31-40.08 | |





Tubular Stranding Machine

Application

The high speed machines are mainly used for stranding copper wire, aluminum wire, steel wire, ACSR and wire rope. Accompanied with taping head, it can be used for insulation cores and some control cable stranding process. Tubular Stranders/Cablers are suitable for the assembly of bare wires (steel wires, copper and Aluminum) and insulated conductors into concentric strands or cables. Tubular machine is working with 100% backtwist movement.

Main Component

Central pay-off, cage host, taping device(optional), capstan, take-up and traverse device and electric control system.

Technical Data Sheet

| Specification | JGGA400 | JGGA500 | JGGA 630 | |
|-----------------------------|-----------|------------|-----------|---------|
| Inlet wire Dia(mm) | Conductor | 1.5-5.5 | 1.8-4.0 | 2.0-5.0 |
| | steel | 1.0-2.5 | 1.5-3.0 | 1.8-4.0 |
| | Cores | 1.2-3.5 | | 1.5-5.0 |
| Frame rotation speed(r/min) | 700 | 600 | 400 | |
| Stranding Pitch(mm) | 41-312 | | 44-334 | |
| Linear Speed(m/min) | 27-205.8 | 212-248.85 | 16-128.8 | |
| Capstan Dia(mm) | 800-1000 | 1000-1200 | 1000-1250 | |
| Size of Take-up | PK1250 | PK1600 | PK1600 | |

Features

- ▶ High durability ball bearings with lubrication system of customer's choice.
- ▶ Fully dynamic-balanced rotor tubes and micro-skinned centering/leveling.
- ▶ Cradles can be equipped with a variety of optional bobbin loading/unloading devices and wire tension controllers.
- ▶ Optional safety guards for main rotor.





Planetary Stranding Machine

Application

The planetary type strander is used for stranding flexible aluminum wires or copper wires with back-twist, or compacting and stranding the round or sector conductors. It also can strand the insulated cores and make steel armoring for power cables. 100% back-twist stranding: Adopt fully gear back-twist, which can realize 100% back-twist stranding.

The separate motor transmission makes the pitch continuously adjustable, which is good for improving the manufacturing technology. Adopts imported motor speed regulator which has reliable performance and high control accuracy. Planetary Stranders/Cablers are cage type machines with backtwist(fixed or variable). They Utilizes the principle of stranding/cabbling by minimizing the twisting of bar wire/insulated conductors around their own axis.

Main Component

Central pay-off device, mainframes of 6-bobbin, 12- bobbin, 18- bobbin, 24- bobbin, 30- bobbin, die holder, taping device, armoring device, traction, take-up and traverse device, transmission system and electric control system.

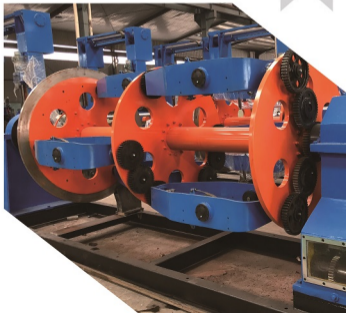
Technical Date Sheet

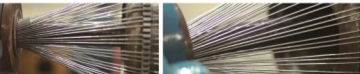
| Specification | | | |
|-------------------------|---|---------|---------|
| Dia. of inlet wire (mm) | 7 | 8 | 10 |
| RPM Max speed (r/min) | 7 | 8 | 10 |
| Stranding pitch (mm) | | 48-1315 | 58-1380 |
| Taping speed (r/min) | | 188-418 | |
| Taping pitch (mm) | | 10-205 | |
| RPM of armoring head | | 188-419 | |
| Pitch of armoring head | | 10-205 | |



Features

- ▶ Strand tension control by torque motor with optional automatic control system.
- ▶ Bobbin loading/unloading by powered pintle action.
- ▶ Shorter shutdown time thanks to high capacity disc brake.
- ▶ Adjustable cradle angle and cradle slow drive for easy bobbin exchange.
- ▶ Slow drive system with interlocking.
- ▶ Hydraulic closing die fixture.





Steel Wire Armoring Machine

Application

The machine is used for armoring single or double steel wire around the cable, and also for making large steel wire ropes.

Main Component

Central Pay-Off, armoring host, die holder, taping device, traction device, meter counter, take-up and traverse device, transmission system and electric control system.

Technical Data Sheet

| Specification | 400/500/600/800/1000 |
|------------------------|----------------------|
| Dia. of wire (mm) | 10-40 |
| Armoring Dia. (mm) | 130 |
| Rotation Speed (r/min) | 22-53 |
| Armoring Pitch (mm) | 160-1570 |
| Taping speed (r/min) | 185-416 |
| Taping pitch (mm) | 9.7-146 |

Features

- ▶ The wire armoring machine has the back-twist function.
- ▶ Minimum noise.





Drum Twister

Application

This machine is mainly used to strand the large section or long cable, and it can strand in pre-spiralling or non-pre-spiralling separately. Furthermore, it can also be used to armour steel cable or copper shield.

Main Component

Rotating take-ups, rotating pay-offs or, a combination of both. This Machine mainly used for Stranding Large Section or long length power cable and can produce round or sector cable. It can be used for armouring steel belts or wire and cooper shield process.

Technical Date Sheet

| Specification | JD-2500 | JD-3150 | JD-3500 | JD-4000 |
|------------------------|----------|---------|---------|---------|
| Size of take-up | 2500 | 3150 | 3500 | 4000 |
| Max dia. of output(mm) | 120 | 130 | 150 | |
| Cable pitch (mm) | 111-9298 | | | |
| Strander speedy(min) | 30 | 21 | 20 | 18 |
| Output speed (m/min) | 50 | 42 | 31 | |

Features

- ▶ New twisting drum, efficient and convenient.
- ▶ This machine includes tape lapper, pedrail drive and rotary take-up, which are operated with other machines to ensure precise pitch.
- ▶ The pay-off is passive style, and the tensile force is adjustable.
- ▶ The take-up adopts up-wheel structure to strengthen rigidity and reliability.
- ▶ It is equipped with multi-safeguards which can be manipulated easily and reliably.





Skip Strander

Application

Bow type Strander is used for twisting round cross-linked cable with small section. It can be used to twist bare copper wire and bare aluminium wire.

Main Component

Cradle type pay-off stand, bow type stranding cage, wire guiding device, wire die holder, non-metallic taping device, meter counter, traction device, take up and traversing rack, Mechanical transmission system, electrical control system, safety fencing.

Technical Data Sheet

| Model | JC-500 | JC-800 | JC-1000 | JC-1250 | JC-1600 |
|---|---------|---------|----------|----------|----------|
| Pay-off bobbin size (mm) | 500 | 800 | 1000 | 1250 | 1600 |
| wire core cross section area (mm ²) | 1.5-6 | 6-35 | 10-50 | 10-70 | 25-95 |
| cable clearing hole size (mm) | 100 | 100 | 100 | 100 | 100 |
| cage rotating speed (r/min) | 800 | 300 | 200 | 200 | 150 |
| Wire outlet speed (m/min) | 6.8-188 | 8.8-175 | 22.8-168 | 22.8-168 | 22.8-168 |
| Non-metallic taping device rotation | 500 | 500 | 500 | 500 | 500 |
| Traction wheel dia. (mm) | 800 | 1250 | 1500 | 1500 | 1500 |
| Take-up bobbin size (mm) | 1600 | 2000 | 2000 | 2500 | 2800 |
| Machine central height (mm) | 1000 | 1000 | 1000 | 1000 | 1000 |

Features

- ▶ Bow type structure, high rotating speed, strong toughness, standard design, high cabling quality and convenient operation
- ▶ Advanced PLC controlled motor drive transmission system, easy, precise and reliable operation.
- ▶ From 1+2 to 1+6 wires
- ▶ Possibility to install an additional 12 wires planetary or tubular strander
- ▶ High efficiency cooling tank



Durms

Corrugated cable drum size: PN1000-PN3150



Unassembled Steel Drum for export



Pressed cable drum size: PN400-PN800



Production Process





Auxiliary Equipments



Export

