



Professional Grade 800C Double Twist Bunching Machine with 2 Year Warranty!

The quality of our **800C Double Twist Bunching Machine** is second to none. Can do conductor stranding from 1.0mm² to 6.0mm². products are widely used in **IT communications, aerospace, military, medical, locomotives, automobiles, robots, ships, 5G cloud databases and other fields**

800C Double Twist Bunching Machine apply for the bunching of aerospace, medical instrument, cellphone, notebook PC and ultra fine conductor (above seven pcs of alloy wires, tinned wires, silver jacketed wires and enamelled wires).

Merits:

1. **800C Double Twist Bunching Machine** is High speed, constant tension from empty reel to full reel, excellent quality of stranded wire, which can be used for stranding instead of stranding to meet customer's requirements for stranding of small cross-sectional area. The whole machine is driven by a synchronous belt, and only the take-up wheel needs to be replaced when changing the lay length, easy to use.

2. IoT (optional): **800C Double Twist Bunching Machine** information of multiple devices can be integrated on multiple mobile phones or computers, and the operation of the machine can be checked at any time, such as speed, stranding specifications, line speed, output, equipment maintenance, etc., and can be online at the same time Diagnosis and remote maintenance, etc., to achieve refined management and reduce production and maintenance costs.

3. **800C Double Twist Bunching Machine** is a new product developed by our company, with high speed, constant tension from empty to full reel, and excellent stranding quality. This machine can be equipped with a pressure sensor to monitor the tension of the take-up online, and feedback and correct the tension value at the same time;

4. Internal precision wiring of the stranding machine (optional): **800C Double Twist Bunching Machine** can use stepper motor + precision ball screw wiring, internal and external PLC data sharing through wireless communication module, collection of wiring data and take-up shaft speed, through PLC precise calculation, guarantee The wiring precision, and the wiring width and row spacing are set on the touch screen, no need to stop the adjustment, reduce downtime and improve production efficiency.

5. Intelligent constant tension control system (optional): through the high-precision tension closed-loop control system, **800C Double Twist Bunching Machine** tension of the internal take-up is constant from the empty reel to the full reel; solve the problem of the winding The diameter increases, the half-reel start is difficult, and the tension tracking is not timely, causing quality problems such as copper wire stretching; at the same time, the take-up tension is automatically adjusted according to the set tension value.

6. Automatic oil supply system: **800C Double Twist Bunching Machine** program is set to automatically refuel at a fixed time, which is not affected by the environment, and can be used for regular and quantitative oil, to prevent



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bearing damage caused by no timing refueling; to prevent lubricant deterioration, from the oil pump to the refueling point, the lubricant will not Contact with outside air to prevent deterioration of lubricant and mixing of debris.



This **800C Double Twist Bunching Machine** is CE approved



7. Can fit 380V to 440V, 50HZ to 60HZ, color can be customize
3 phase 4 wires, R, S, T, PEN
3 phase 5 wires, R, S, T, PE, N

8. Type:

800C Double Twist Bunching Machine for single wire 0.2-1.04mm stranding, cross section 1.0-6.0mm², pitch range 13.7-100mm 1600RPM (please refer to page 6-11)





9. Some Option:

Set-up:

China standard: Veinview HMI + Inovance PLC & Invertor + Siemens Motor

Siemens standard: Siemens HMI & PLC & Invertor+Siemens Motor





Spindle lubrication: manual lubrication / PLC lubricator



Power Cabinet: Embedded type / plug in type / Stand alone type / Synoptic panel type



Spool Lift: manual hydraulic pump / electrical hydraulic pump / Electrical screw Lift



Take-up tension type: Magnetic powder clutch / Hollow shaft clutch / Hysteresis clutch





IOT remote system and temperature sensor



Pay terms: T/T, L/C.

Package:

- 1) Simple water-proof package
- 2) Pallet package
- 3) Pallet with Vacuum package
- 4) Wooden box package





800C Double Twist Bunching Machine specification

➤ **Merits:**

- 1.High rotation speed and high stability(motor is connected with transmission shaft directly by butt-muff coupling).
- 2.Automatic tension control:When stranding, the tension of the take-up reel needs to be continuously increased when the take-up reel is moved from the chassis to the full reel. (Data set by the touch screen) this machine can automatically track and adjust the take-up tension to make the entire reel of take-up tension even and consistent. Can adjust the tension without stopping the machine (on the touch screen)
- 3.Wiring system:Adopt advanced wire guiding device, bow belt adopt unique half slot design, match up with semicircle ceramic ring to wire guiding, lead wire guiding to bow belt directly from spindle idler pulley to avoid the wire scratch, core mess while high running because of wind drag.
- 4.Spindle lubrication:grease lubrication, (The automatic lubricator is controlled by the PLC program controller to avoid the lack of oil and damage to the main shaft bearing caused by human factors without regular refueling)
- 5.Safety Protection: Main axis bearing oil level is controlled by limited switcher. If it lower the setting oil level, auto-alarming or can't start on touch screen. All doors and lifting platform can not be opened when any of them is not in exact position. External break will auto-alarming or can't start on touch screen.
- 6.Spindle and Rotation Arm had be treated by high-speed balancing devices, noise index is approx 82dB.
- 7.Electric control: Touch screen friendly surface personalize operate and controlled by PLC +inverter.
- 8.The flyer bow is excellent quality SK5 of Japan, which imported in Taiwan and is heat treatment and plating chrome on surface.
- 9.Driven by Timing Belt ensure the exact lay, no any lubricating point in machine ensure cleanness inside machine result of refueling pollution, there are not defective wire and ripped wire in machine.
- 10.Pitch change: easy to operate, only need to change one capstan wheel for reference standard pitch sheet.
- 11.meter counter:internal meter counter

➤ **Main performance parameters**

1. Usage: Adapt to copper wire stranding
2. Range of copper wire: $\phi 0.2 \sim \phi 1.04 \text{mm}$
3. Finish diameter: $\phi 1.0 \sim \phi 3.2 \text{mm}$
4. Cross section area: $\phi 1.0 \sim \phi 6.0 \text{mm}^2$
5. Take up spool: PND $\phi 630 - \phi 800$ (or customize)
6. Normal production speed up to 1600RPM(3200TPM),difference diameter,different speed
7. Traverse: $\phi 40 \text{mm}$ polish rod bearing type, traverse width and row space are adjustable.



8. Standard lay length: 13.7~100mm
9. Main motor: 15KW AC motor +frequency converter
10. Weight of copper load: about 800kg
11. Direction of strand: free optional for S and Z direction, only need to pull the reverse rod of the traverse bar by hands to adjust the stranding direction, easy to operate.
12. Brake: electromagnetic brake for external break, automatic stop when wire reach setting meter.
13. Tension control: take up tension is controlled by magnetic powder clutch, PLC follows up and regulates tension ,constant tension.
14. Bearing: Spindle with SKF , others with Japan NSK.
15. Timing Belt: it is adopted imported American product.
16. Spool lift: Electrical pump hydraulic lift.
17. Spindle lubrication: grease lubrication (automatic lubrication by PLC programmer).
18. Index of noise: less than 82dB
19. Dimension: (length×breadth×height): 3200×2000×1730
20. Weight: 5500Kg
21. Coating: RAL 5015 sky Blue (or customize).
22. Package: simple waterproof packing
23. Direction: from right to left,i.e, facing the operate panel, pay-off on your right (or customize).
24. Sealing of machinery door: seal of plastic.
25. Spindle housings sealing: mechanical block oil ring

➤ **Mechanical performances:**

1. Mechanical body structure:
 - 1)Material: low carbon steel welding form
 - 2)Structure: the mechanical body is treated by annealing , eliminate stress, precision boring machine through a molding process.
2. Inlet part:
 - 1)Inlet location: in the face of machine, on your right (may according to customer's requirements and correct to "left").
 - 2)Way of inlet: from pay-off device pass by wire breakage induction district, first through total sub-panels (hole-line distributed as 1+6+12+...) through the first isobar die, and through the second isobar die, at last get into wire guiding round of the right spindle. Through Al-arch belt ceramic ring enter wire guiding round of the left spindle , through center corner round to capstan wheel, after passing by the third isobar die to arrange wire.
3. Spindle
 - 1)Material: #45 steel slag after quenching and tempering.
 - 2)Accuracy: cylindrical core shaft and bearing positioning end are all lapped, ensure that the concentricity of axis core and the vertical degrees.
 - 3)Balancing: the accuracy of balancing is G2.5 grade .
- 4 Rotation Arm



- 1)Material: 45# iron steel
- 2)Accuracy: all cylindrical end relative positioning holes beating 0.03.
- 3)Balancing: the accuracy of balancing is G2.5 grade.
- 5.Flyer Bow
 - 1)Material: imported Japan quality SK5 heat treatment.
 - 2)Shape: special appearance and reduce wind resistance.
 - 3)The variance of weight: each variance of weight < 0.03 grams.
- 6.Drive part: Drive by timing belts, Accurate lay length,timing belts adopted imported product.
- 7.Wire guiding wheel
 - 1)Material: #45 steel heat treatment HRC30-40.
 - 2)Plating hard chromium or spraying ceramic on surface, not been worn.
- 8. Spindle housings
 - 1)Material: ductile iron QT42-10.
 - 2)Processing: CNC machine tools
 - 3)Accuracy: inner hole end, a molding process to ensure the concentricity.
- 9. Bearing spindle lubrication system:
 - 1)Way of lubrication: grease lubrication(automatic lubrication by PLC programmer)
 - 2)Model of grease :Mobil Flux EP1#
 - 3)Way of sealing: mechanical retaining oil ring and back oil hole to prevent oil leakage and maintain internal cleaning of machine.
- 10.Take-up:Take-up tension control: take-up tension is controlled by magnetic powder clutch . PLC automatic follow-up and regulate tension, the tension is constant.
- 11.Special made bidirectional ϕ 40mm rolling ring traverse, winding pitch and breadth are adjustable.
- 12.spool size

Diameter (ϕ D)	Bore Hole (ϕ d)	Outer width (L1)	Inner width (L2)	Position hole	PCD
800	80	600	500	40	340

(The above specifications is factory standard specifications, may design according to customer's take-up spool size.)

- 13. Dynamic power : 6.8KW
- 14. Installed power : 15KW

➤ **Detail Specifications**

Description of goods	Model	Remark
1. Main motor	15KW-6P 380V 50Hz	Siemens
2.Invertor	15KW	Inovance
3.PLC programmer	32MR	Inovance
4.PLCexpander	1SET	Inovance
5.Touchscreen	7 Inch	WEINVIEW
6.Electromagnetic brake	32KG	Taiwan



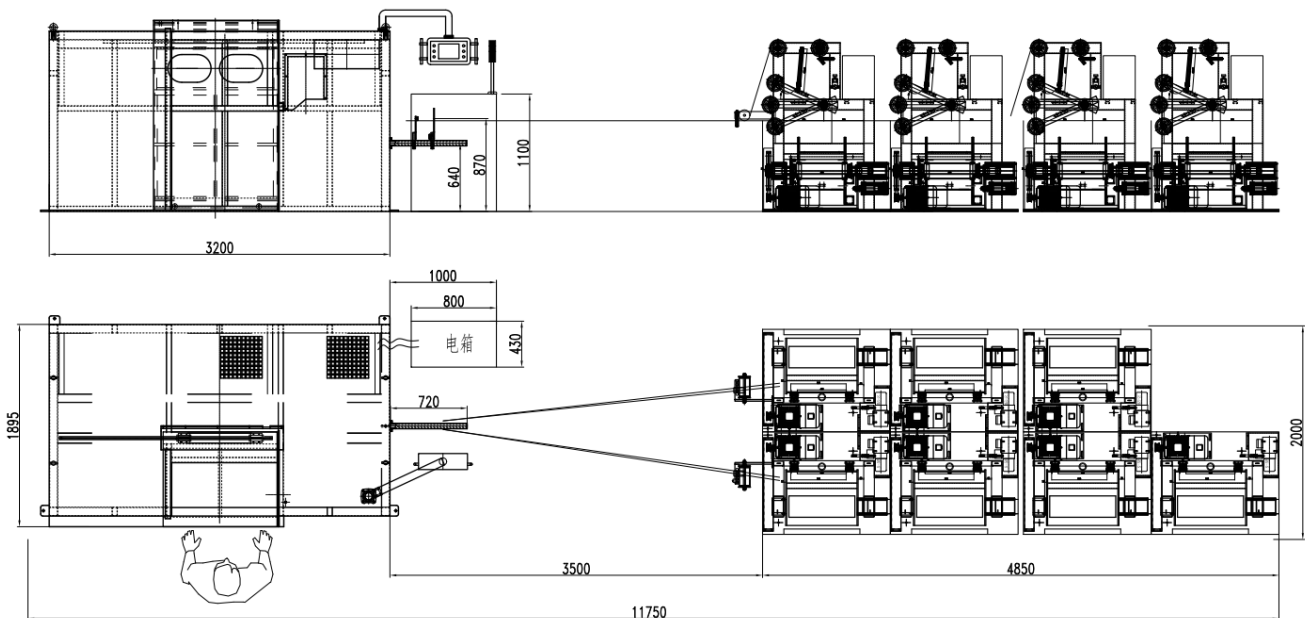
7.Magnetic powder clutch	10Kgf	Taiwan
8.Spindle Bearing	1 set	Sweden SKF
Main Shaft Bearing	1 set	Japan NSK
9.Timing belt	1 set	American Gate
10.Traverse	Gp40(special made bidirectiol)	Shanxi Dian Tou
11.Electrical hydraulic pump	DYG-8	Taiwan
12.Tension controller	10V	Taiwan
13.Fly bow	1set	Japan
14.Body	one set	Self-Processing
15.Spindle	2Pcs	Self-Processing
16.Aluminum disk	2Pcs	Self-Processing
17.Timing Pulley	1set	Wu Xi
18.Bearing housings	one set	Self-Processing
19.Dics	2Pcs	Self-Processing
20.Transmission Shaft	1Pcs	Outsourcing
21.Capstan wheel	1set	Self-processing with hard chrome plating
22.Wire guiding wheel	6Pcs	Self-processing with hard chrome plating

➤ **Spare parts sheet**

No.	Description	Model	Qty	Remark
1	Operating instructions		1SET	
2	Electrical Schematic		1SET	
3	Inverter manual		1pcs	
4	Spindle guide wheel	with Bearings	1SET	
5	Wire guide wheel	with Bearings	1SET	
6	Pulley in Bow	φ34	14Set	With balance
7	Loop in Bow		3SET	With balance
8	Stranded Die	Client provide		
9-11	Timing belt		1pcs	
12	Split plate porcelain ring	Φ9.8	3pcs	
13	Spool Top sleeve	PND630,PND800	1SET	
14	Tool	With hex wrench, open wrench and etc	1SET	



序号 Serial No.	绞距轮底径 Bottom Dia of Pitch Wheel	A传动绞距 A Drive Pitch	B传动绞距 B Drive Pitch
1	∅65	13.7	37.2
2	∅75	15.8	42.7
3	∅85	18.0	48.3
4	∅96	20.3	54.3
5	∅105	22.0	59.4
6	∅118	24.8	66.6
7	∅125	26.2	70.5
8	∅138	28.9	77.7
9	∅151	31.6	84.9
10	∅163	34.2	91.6
11	∅178	37.3	100





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