



Reinforcing Bar Straight Thread Connection Sleeve Production Equipment

Jiangsu Cnpow Machinery Technology Co., Ltd.

CONTENTS

- 1 Company Profile
- 2 Parallel Thread Coupler
- 3 Related Equipment
- 4 Purchase Solution
- 5 Why Choose CNPOW®





PART 01

Company Profile

Company Profile For CNPOW Machinery



Company Profile

Company Profile For CNPOW Machinery



Brand
Interpretation

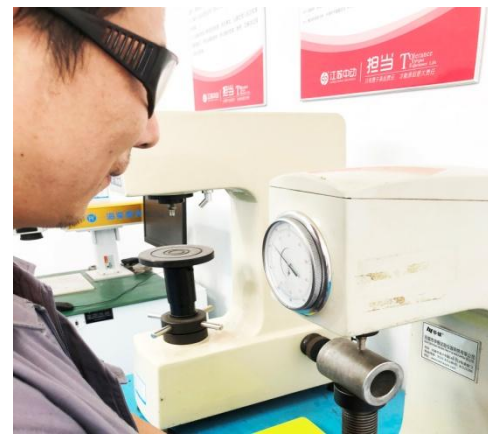
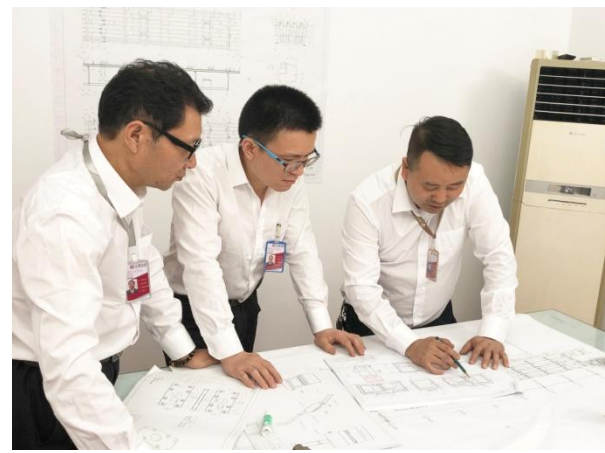
From an overall perspective, the design of the Zhongdong logo is characterized by the use of the character “中” to abstractly display the character “动”, interpreting our strong product quality and China Power's corporate culture. The lines have a strong visual impact, with Zhongdong connecting the two ends of the world in the middle, creating infinite possibilities and demonstrating the company's unwavering confidence in making great achievements in the industry in the future.

Jiangsu Cnpow Machinery Technology Co., Ltd. is committed to developing efficient, energy-saving, and automated products for both standard and non-standard parts in the deep thread machining industry. The company's independently developed multi generation DGS series fully automatic dual axis tapping machine, DKG series pipe cutting machine, DBC series external circular turning chamfering machine, DDG series double head chamfering machine and other equipment are highly welcomed by domestic and foreign markets. At the same time, the company pays attention to the domestic infrastructure market and focuses on the independent research and development of multi specification steel bar stripping rib rolling machines, upsetting machines, band saws and other small steel bar processing equipment suitable for various engineering projects in the steel bar mechanical connection industry, as well as large-scale processing lines such as steel bar wire heads. Due to their high degree of automation, high production efficiency, and high processing accuracy, they are highly praised by the market. Mr. Lai Zhiyong, the founder of the company who personally leads the R&D team, has been invited to participate in the compilation of multiple industry standards, including "Standard for Sleeve for Steel Reinforcement Mechanical Connections JG/T163-2013", "Technical Specification for Steel Reinforcement Mechanical Connections JGJ107-2016", "Grouting Sleeve for Steel Reinforcement Connections JG/T3398-2012", "Construction Machinery and Equipment JB/T13708-2019 | JB/T13709-2019 | JB/T13710-2019". In 2021, the company's sales performance exceeded 20 million yuan, with an export rate of up to 38%. Its customers are spread all over the world, including Europe, Southeast Asia, the Middle East, Africa, and South America. As early as 2012, the company passed the ISO9001 international quality system certification. The company takes technological innovation as a breakthrough point for development, has advanced management concepts and production technology, and constantly explores and innovates. In 2021, the company changed its name to "Jiangsu Cnpow Machinery Technology Co., Ltd." to achieve greater strategic goals, with an additional registered capital of 10 million yuan, striving to build a leading brand enterprise in core areas and outstanding comprehensive advantages. Welcome customers from all over the world with a smile, and keep integrity in your heart! The company always welcomes every sincere user with high-quality products and perfect services, regards users as the focus, and uses technology and sincerity to build the Cnpow brand!



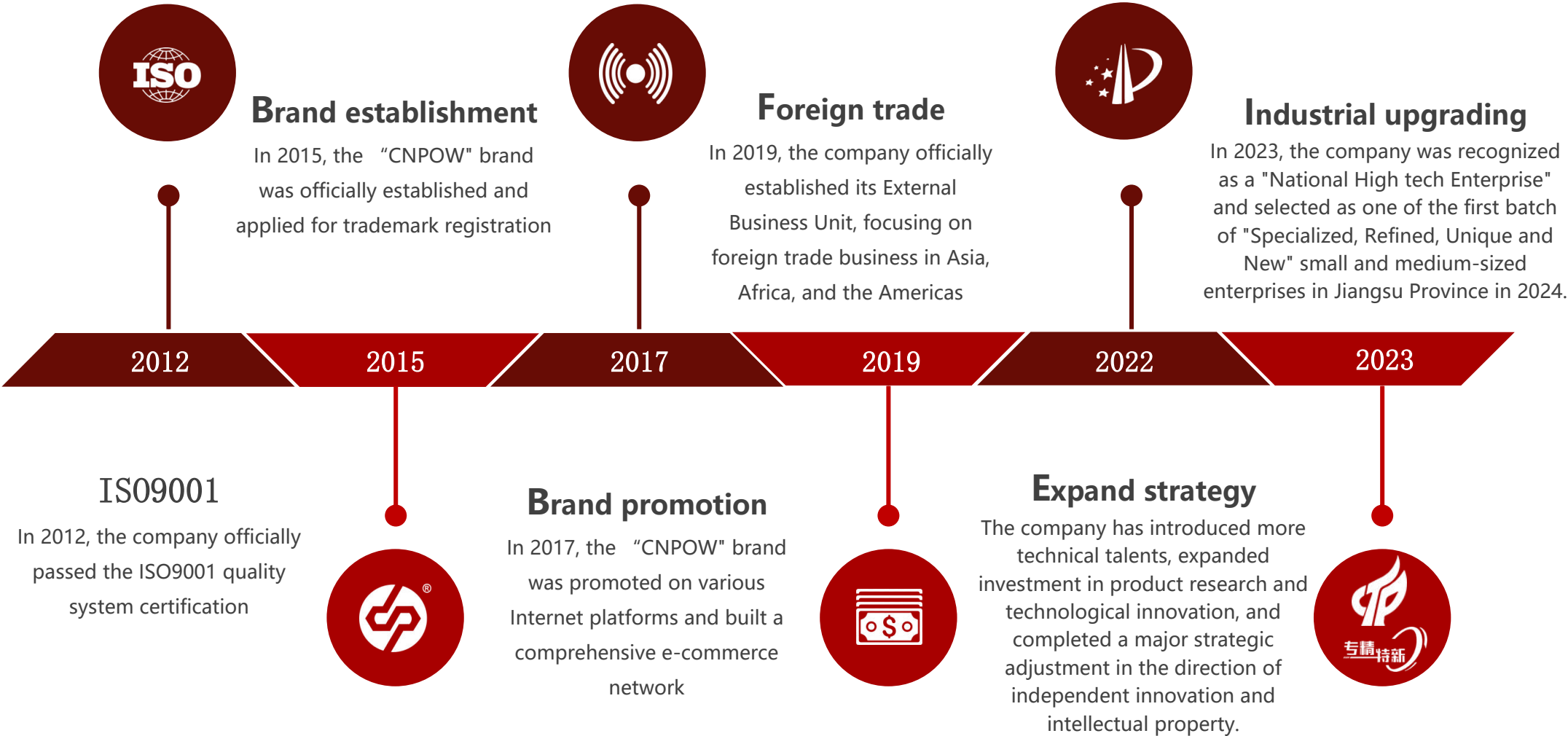
Company Profile

Company Profile For CNPOW Machinery



Company Profile

CNPOW's Development Trajectory





Company Profile

CNPOW's Main Business Products

01

Reinforcement head
thread processing
equipment

02

Steel bar mechanical
connection sleeve

03

Straight thread sleeve
processing production
equipment

04

Customization of metal
thread processing
equipment



PART 02

Parallel Thread Coupler

Reinforcing Steel Parallel Thread Coupler



Parallel Thread Coupler

Reinforcing Steel Parallel Thread Coupler



Parallel Thread Coupler Mechanical Splicing Technology

The reinforcing steel bar parallel thread splicing scheme is to strip part of the longitudinal and transverse ribs at the ends of the steel bars to be connected by means of cutting with a steel bar thread rolling machine, then directly roll the bars into ordinary parallel threads, and connect them with corresponding parallel thread couplers to form the reinforcement connection.

Application scenarios



bridge



expressway



tunnel



airport



station



dock



subway

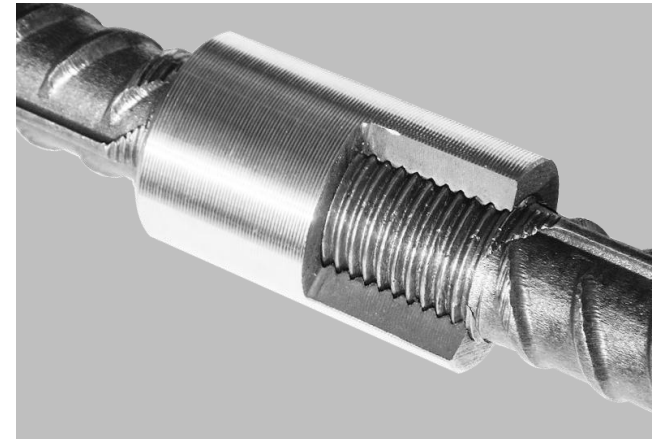


building



nuclear power plant

...



Parallel Thread Coupler

Reinforcing Steel Parallel Thread Coupler



Production Process of Parallel Thread Couplers





PART 03

Related Equipment

Equipment for Straight Thread Coupler Production



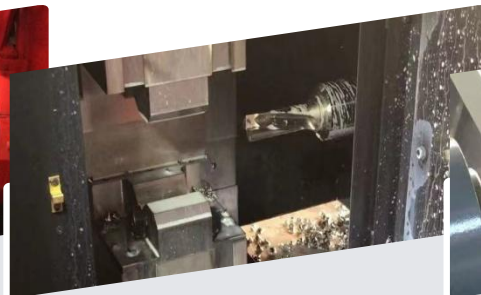
Related Equipment

Equipment for Straight Thread Coupler Production



Saw Cutting

- JX-75 Automatic High-Speed Metal Circular Sawing Machine
- DK33 Series Intelligent Automatic Band Sawing Machine



Drilling

- U-50 Automatic High-Efficiency U-Drill Double Head Drill



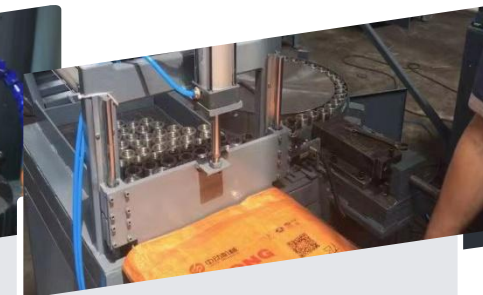
External Turning/Chamfering

- DBC Series Automatic Turning & External Chamfering Machine
- DDG Series Automatic Double-End Chamfering Machine



Thread Tapping

- DGS-Z Series Automatic Double-Axis Tapping Machine



Marking & Packaging

- DGY Integrated Marking and Packing Machine

Related Equipment

Equipment for Straight Thread Coupler Production

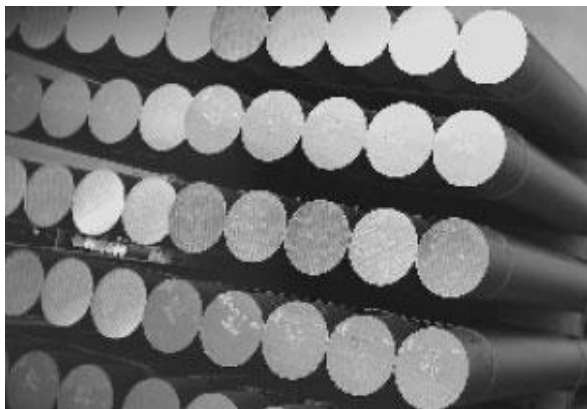
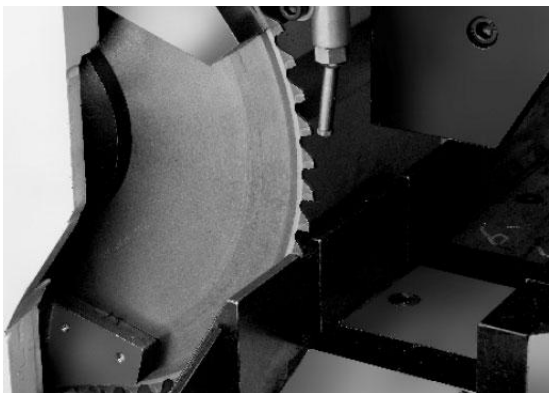


JX-75 Automatic High-Speed Metal Circular Sawing Machine

With the growing labor shortage, factories are increasingly demanding higher automation, simpler operation, and the ability for one operator to run multiple machines. The CNPOW® JX Series Automatic High-Speed Metal Circular Sawing Machine boasts a series of advantages such as high automation, fast speed, high precision, and excellent stability.

Related Equipment

Equipment for Straight Thread Coupler Production



JX-75 Automatic High-Speed Metal Circular Sawing Machine

- Innovative gearbox design achieves zero-backlash transmission, extending the saw blade service life.
- The three-point clamping design of the saw blade reduces saw blade vibration and prolongs its service life.
- Both sawing and feeding are controlled by AC servo motors, ensuring stable cutting and precise feeding.
- The equipment integrates multiple functions into one, including automatic material turning, automatic feeding, residual material separation and automatic discharge, saving 80% of labor costs.
- Humanized interface with touch screen operation, simple to operate and accessible to general operators.
- The equipment is equipped with manual, semi-automatic and fully automatic operation modes.

Related Equipment

Equipment for Straight Thread Coupler Production



JX-75 Automatic High-Speed Metal Circular Sawing Machine

Brand Name:	CNPOW®	Model & Specification:	JX-75
Main Motor Power:	7.5Kw	Feed Motor Power:	2Kw
Hydraulic Motor Power:	2.2Kw	Speed Range:	20~170 rpm
Max. Sawing Range:	20~75mm	Saw Blade Spec.:	φ285 x φ32 x 1.75mm
Max. Single Feed:	700mm	End Cutting Length:	≤200mm
Feeding Mode:	Servo Motor, Precision Ball Screw	Overall Dims.:	2350x2200x1800mm



Related Equipment

Equipment for Straight Thread Coupler Production

D-K33 Intelligent Automatic Band Saw Machine

The CNPOW ® D-K33 intelligent CNC band sawing machine is a new type of electromechanical integrated equipment developed by the company, which has significant characteristics such as high automation, high precision, high efficiency, and low loss. It is an ideal equipment for large-scale cutting.

This product extensively utilizes mature numerical control technology, replacing conventional electrical controls with programmable PLC controllers, greatly improving the reliability of sawing machines; The positioning is controlled by servo ball screw, with a positioning error of $\leq 0.02\text{mm}$. Linear guide rail assists in feeding, and the "human-machine interface" operation panel with integrated manual and automatic functions can be realized. Multiple sets of data presets make the operation more intelligent and user-friendly, and the mechanical operation is extremely simple and efficient.



Related Equipment

Equipment for Straight Thread Coupler Production



D-K33 Intelligent Automatic Band Saw Machine

- Human-machine interaction replaces the traditional control panel, with parameter setting via digital input.
- PLC control enables flexible setting and switching of sawing modes.
- Feeding and positioning are controlled by servo motor and ball screw, with positioning error ≤ 0.02 mm.
- The feeding speed is automatically adjusted according to the real-time sawing force during cutting.
- Manual-automatic integrated operation meets processing requirements in different scenarios.
- Full-process hydraulic clamping and automatic feeding.
- Simple operation, no professional programming required.

Related Equipment

Equipment for Straight Thread Coupler Production

D-K33 Intelligent Automatic Band Saw Machine

Brand Name:	CNPOW®	Model & Specification:	DK33
Max. Cutting Capacity:	Round : Φ330mm Square: 330*330mm	Spindle Speed:	260~360r/min
Band Saw Blade Spec.: (W * T * L)	34*1.1*4290mm	Blade Speed:	4-speed belt, inverter 20~140 m/min stepless speed regulation
Saw Wheel Dia.:	490mm	Feed Speed:	Intelligent Auto Speed Control
Main Motor Power:	5.5Kw	Cooling Motor Power:	0.09Kw
Hydraulic Motor Power:	1.5Kw	Overall Dims.:	2200x2000x1500mm



Related Equipment

Equipment for Straight Thread Coupler Production

U-50 Automatic High-Efficiency U-Drill Double Head Drill

The CNPOW ® U-50 automatic and efficient U-drill double head drilling machine is designed and manufactured according to the technical requirements of the user's product parts drilling process, using a center outlet U-drill for drilling. It has the advantages of specificity, reliability, high efficiency, simplicity and ease of operation. The operator only needs to install the workpiece and press the button. When processing the same batch of products, the machine tool can automatically position, clamp, and process the first product after setting the feed parameters. After processing, the workpiece will be automatically released, and each processing unit workstation will automatically return to the waiting state, waiting for the next work cycle.



Related Equipment

Equipment for Straight Thread Coupler Production



U-50 Automatic High-Efficiency U-Drill Double Head Drill

- Good waterproof performance, extremely low failure rate and long service life;
- The power head uses servo power to drive the spindle feed through the ball screw, which can realize the torque overload protection function;
- Fast speed, high precision, one-key automatic operation completion;
- The hydraulic system has the characteristics of stable operation, low noise and low temperature rise;
- The servo motor has torque monitoring and torque limiting functions;
- Simple operation, no professional programming required.

Related Equipment

Equipment for Straight Thread Coupler Production

U-50 Automatic High-Efficiency U-Drill Double Head Drill

Brand Name:	CNPOW®	Model & Specification:	U-50
Total Power:	21Kw	Main Motor Power:	7.5Kw
Max. Drilling Capacity:	Φ50mm (45 #)	Max. Spindle Stroke:	150mm
Spindle Rotation Accuracy :	0.05mm	Control System:	PLC
Clamping System:	Hyd.	Spindle Speed Control :	Frequency Conversion
Overall Dims.:	2700x1400x2100mm		



Related Equipment

Equipment for Straight Thread Coupler Production



DBC-60 Auto Chamfering & External Turning Machine

The CNPOW® DBC-60 Automatic External Turning & Chamfering Machine is mainly used for turning and chamfering fixed-length bars, tubes and external cylindrical surfaces with an outer diameter of less than $\Phi 60\text{mm}$.

The machine's external turning and chamfering functions are driven by servo motors, and equipped with ball screws and linear guideways. Controlled by a PLC system, it features a high-performance touchscreen display with clear visualization, supporting one-touch switching between manual and automatic modes. Parameter setting and adjustment are convenient and efficient, and the machine can be operated without programming by professional CNC personnel.

The entire process of workpiece feeding, clamping, turning, chamfering and unloading is fully controlled by the program. With a high degree of automation, one operator can manage multiple machines simultaneously, which greatly reduces labor costs and improves production efficiency.

DBC-60 features high precision, high automation, easy operation, low failure rate, low noise and stable running. It is widely used in industries such as construction sleeve processing, external cylindrical turning and external chamfering of pipe fittings, automotive parts manufacturing, etc.

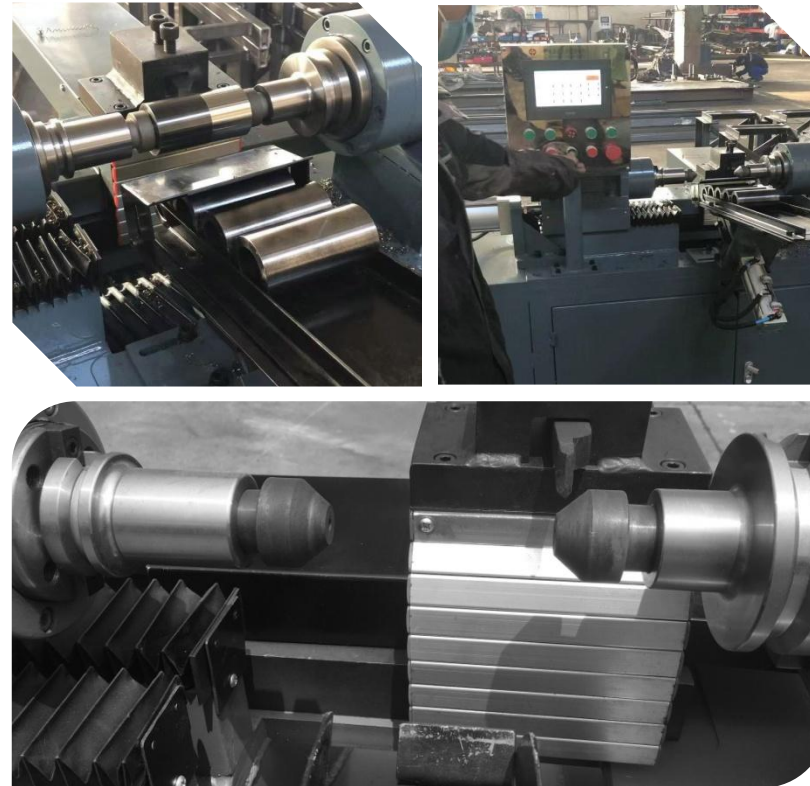


Related Equipment

Equipment for Straight Thread Coupler Production

DBC-60 Auto Chamfering & External Turning Machine

- Automatic PLC control system;
- Keys and touchscreen, one operator can operate multiple devices;
- Ball screws and linear guideways;
- Automatic control of feeding, clamping, turning, chamfering and unloading;
- Dual servo motor control system;
- One-touch switching between manual and automatic modes;
- Simple operation, no professional programming required.

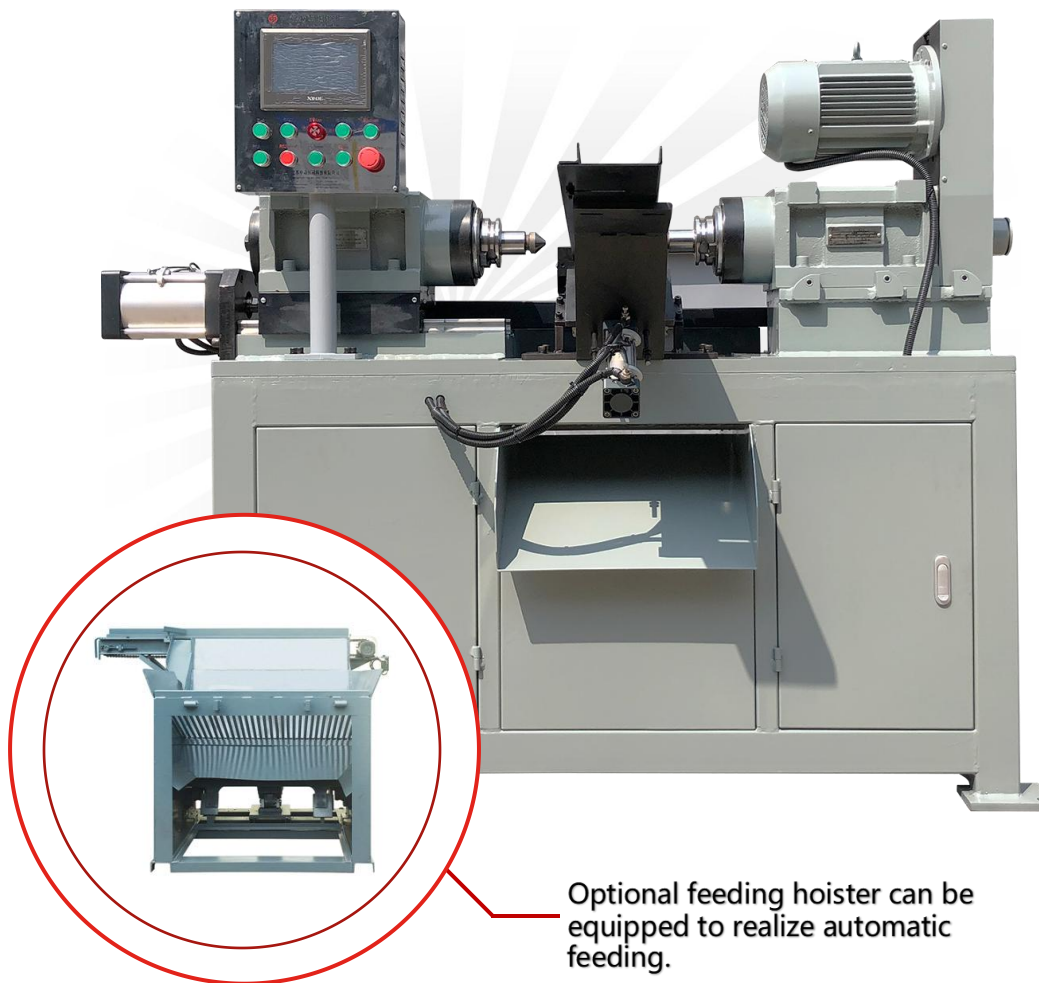


Related Equipment

Equipment for Straight Thread Coupler Production

DBC-60 Auto Chamfering & External Turning Machine

Brand Name:	CNPOW®	Model & Specification:	DBC-60
Main Motor Power:	2.2Kw	X-axis Power:	1Kw
Y-axis Power:	1Kw	Max. Spindle Stroke:	120mm
Spindle Speed:	1000r/min	Turning Range:	0.05~1mm
Control Mode:	PLC	Power Type:	Elec. / Pneum.
Automation Degree:	Auto	Structure:	Horiz.
Overall Dims.:	1400x1320x1465mm	Wt.:	700Kg
Processing Range:	Φ20-Φ60mm /20-120mm		

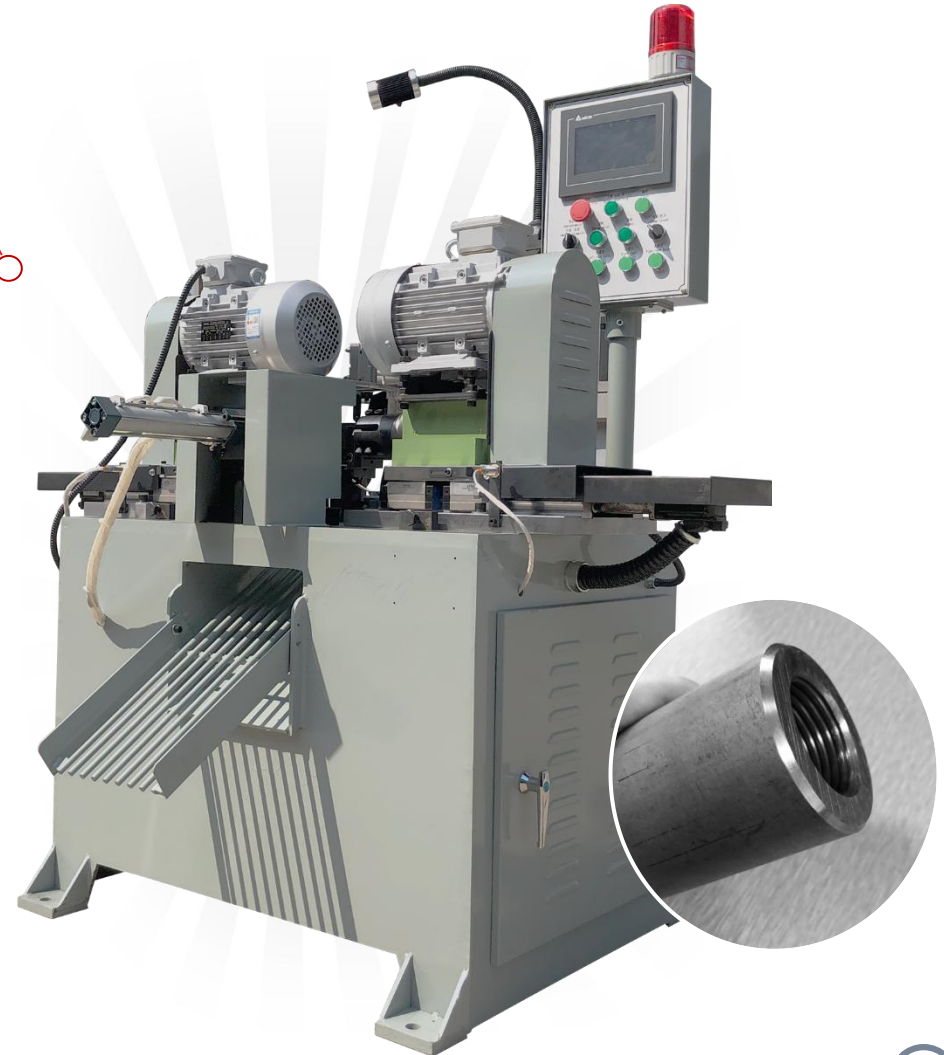


Related Equipment

Equipment for Straight Thread Coupler Production

DDG-60 Double End Automatic Chamfering Machine

The CNPOW® DDG-60 Automatic Double-head Chamfering Machine is driven by servo motors, equipped with ball screws and linear guideways, and controlled by a PLC system. It features a high-performance touchscreen display with clear visualization, supporting one-touch switching between manual and automatic modes. Parameter setting and adjustment are convenient and efficient, and the machine can be operated without programming by professional CNC personnel. The whole working process, including feeding, clamping, internal and external chamfering, and unloading, is fully controlled by the program. With a high degree of automation, it can perform internal and external chamfering simultaneously. One operator can manage multiple machines at the same time, which greatly reduces labor costs and improves production efficiency. The machine features high precision, high automation, easy operation, low failure rate, low noise and stable operation.



Related Equipment

Equipment for Straight Thread Coupler Production



DDG-60 Double End Automatic Chamfering Machine

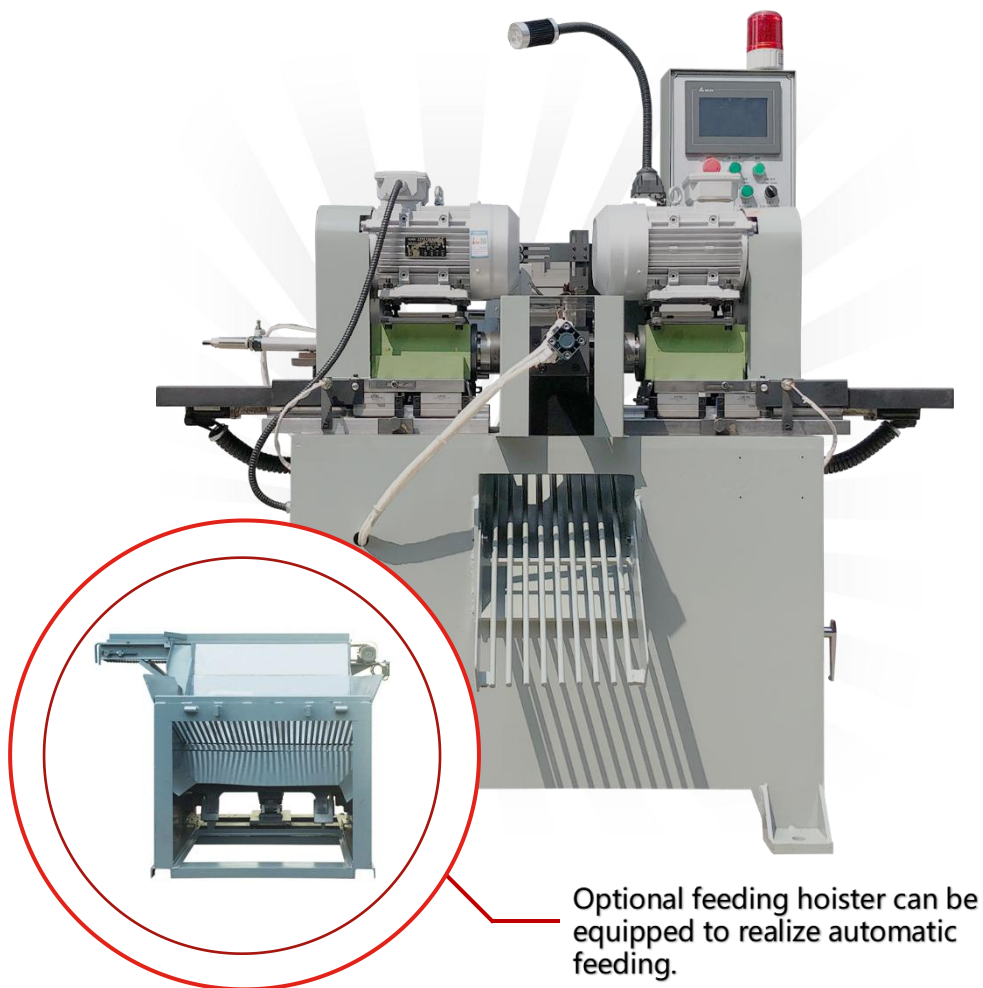
- Automatic PLC control system;
- Button & touchscreen operation, one operator can manage multiple machines;
- Ball screws and linear guideways;
- Automatic control of feeding, clamping, chamfering and unloading;
- Dual servo motor control system;
- One-touch switching between manual and automatic modes;
- Simple operation, no professional programming required.

Related Equipment

Equipment for Straight Thread Coupler Production

DDG-60 Double End Automatic Chamfering Machine

Brand Name:	CNPOW®	Model & Specification:	DDG-60
Main Motor Power:	2.2Kw*2	X-axis Power:	1.5Kw
Control Mode:	PLC	Max. Workpiece Length:	120mm
Spindle Speed:	1000r/min	Power Type:	Elec. / Pneum.
Automation Degree:	Auto	Structure:	Horiz.
Overall Dims.:	1400x1320x1465mm	Wt.:	700Kg
Processing Range:	Φ20-Φ60mm /20-120mm		



Optional feeding hoister can be equipped to realize automatic feeding.



Related Equipment

Equipment for Straight Thread Coupler Production



DGS-Z Series Automatic Double-Axis Tapping Machine

The DGS-Z series special CNC automatic tapping machines for sleeves, independently developed and manufactured by CNPOW, adopt a built-in drive shaft lead screw spindle structure (Chinese patented technology). They feature high working stability, high efficiency, low requirements for operator skills, low cost and low labor intensity. They are currently the ideal special equipment for tapping processing on sleeves.

According to customers' requirements, our company can provide customized machines combined with external cylindrical turning and chamfering machines to realize an automatic production line and unmanned tapping production.

The DGS-Z series full-automatic sleeve tapping machines adopt vertical tapping, which prevents tap breakage and ensures more stable operation. The trough-type material feeding method greatly reduces labor intensity. One operator can manage several machines at the same time, effectively saving labor costs.



Related Equipment

Equipment for Straight Thread Coupler Production

DGS-Z Series Automatic Double-Axis Tapping Machine

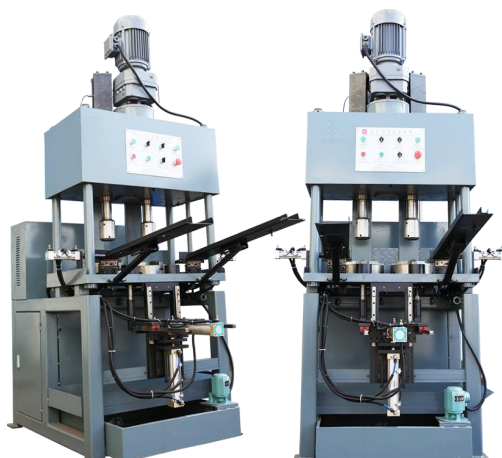
- Independent R&D, patented technology;
- Automatic PLC control system, touchscreen and button operation optional;
- One operator can manage multiple machines;
- Vertical structure, stable operation, taps not easy to break;
- Dual-axis processing for higher efficiency;
- Multiple machine models can be matched to realize automatic assembly line operation;
- Automatic material lifting and trough-type automatic feeding;
- Simple operation, no professional programming required.



Related Equipment

Equipment for Straight Thread Coupler Production

	Style A	Style B	Style C (Recommended)
Servo Motor:	○	○	●
Thread Guide:	Custom Screw	Custom Screw	Program Settings
Speed Range:	82~108rpm	82~108rpm	0~300rpm Stepless speed regulation
Inverter:	●	●	● Driver
Operation Panel:	Button	Button	Touch Screen
Torque Monitoring:	○	○	●
Body Cover:	○	●	●
Indicator Light:	○	●	●
Automatic Chip Discharge:	○	○	●



A 款



B 款

DGS-Z Series Automatic Double-Axis Tapping Machine



C 款



Related Equipment

Equipment for Straight Thread Coupler Production

DGS-Z Series Automatic Double-Axis Tapping Machine

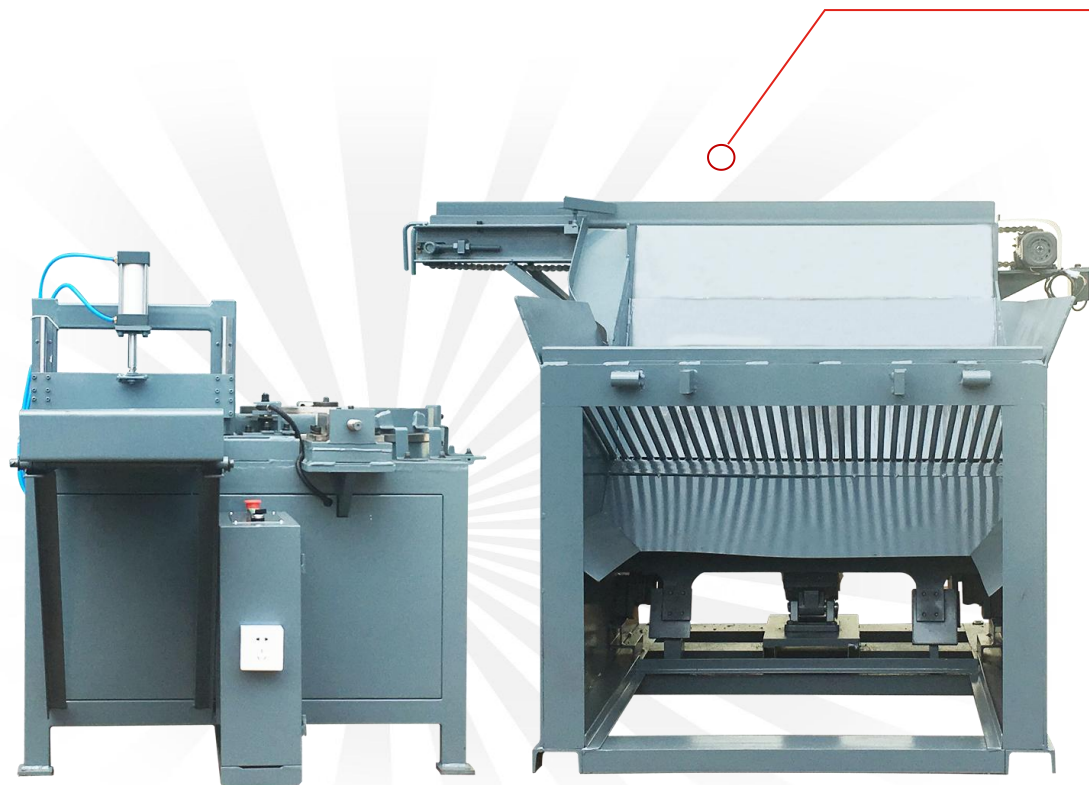
Brand Name:	CNPOW®		
Model & Specification:	DGS-32Z	DGS-40Z	DGS-45Z
Main Motor Power:	5.5Kw	7.5Kw	11Kw
Tapping Range:	M16~M32 (≤3.0P) 45#	M16~M40 (≤3.5P) 45#	M16~M45 (≤4.0P) 45#
Tapping Stroke:	20~100mm	20~110mm	20~110mm
Tapping Accuracy:	6H	6H	6H
Control Mode:	PLC	PLC	PLC
Power Type:	Elec. / Pneu. / Hyd.	Elec. / Pneu. / Hyd.	Elec. / Pneu. / Hyd.
Overall Dims.:	1200x1500x2500mm	Wt.:	≤1025Kg



Related Equipment

Equipment for Straight Thread Coupler Production

DGY Series Steel Stamping & Strapping All-in-One Machine





PART 04

Purchase Solution

Options Suggested



Purchase Solution

Options Suggested



Parallel Thread
Coupler

If your raw material is **seamless steel pipe**



OR



Circular Saw Machine (or
Automatic Band Sawing Machine)



External Turning &
Chamfering Machine



Tapping Machine



Integrated Marking & Packing
Machine

If your raw material is **solid steel bar**



OR



Circular Saw Machine (or
Automatic Band Sawing Machine)



Drilling Machine



External Turning & Chamfering
Machine



Tapping Machine



Integrated Marking & Packing
Machine



Double chamfering machine

If both ends require
internal and external
chamfering.





PART 05

Choose CNPOW®

Why Choose CNPOW®



Choose CNPOW®

Why Choose CNPOW®



Needs Analysis

Our sales staff will communicate with you in advance to understand your production and processing requirements, including material type, size and specification range, thread parameters, precision requirements, and expected production capacity.

Confirm the Plan

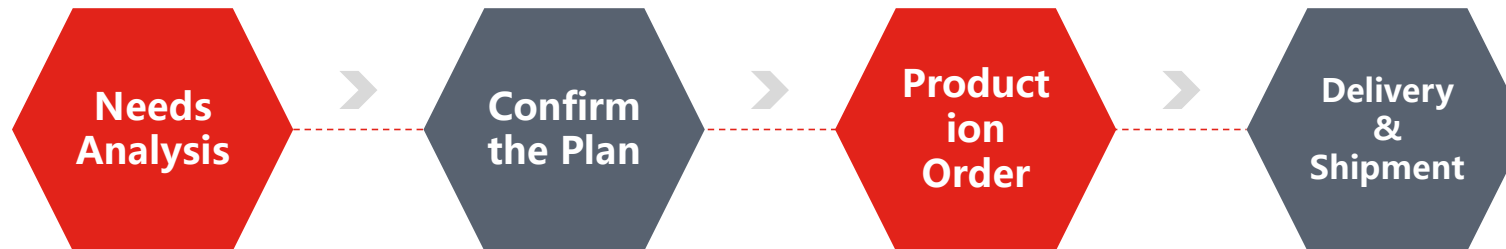
We will customize a specific procurement plan according to your product processing requirements, ensuring the equipment configuration and quantity meet your production needs.

Production Order

According to the confirmed plan, we will sign a contract and arrange production with the production department. We guarantee that equipment production will be completed within the delivery period and the ordered equipment will be delivered to you.

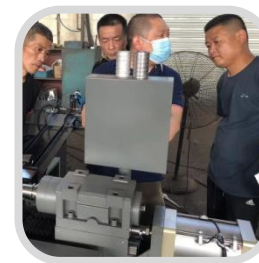
Delivery & Shipment

Commission and test run the equipment; upon confirmation, the official delivery of the equipment is completed.



Choose CNPOW®

Why Choose CNPOW®



From China, For the World



Choose CNPOW®

Why Choose CNPOW®



Quality Guaranteed, Market Approved





Choose CNPOW®

Why Choose CNPOW®

“

Craft Quality with Heart

Focus Makes Professional

”



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Thanks