

2024



Automatic processing production line for rebar end threads

Jiangsu Cnpow Machinery Technology Co., Ltd.

Catalogue

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Company Profile

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Reinforcement head processing
equipment

03

Consumables and accessories

04

Our customers

CNC thread processing
equipment

Company Profile

PART ONE

Jiangsu Cnpow Machinery Technology Co., Ltd.



Company Profile

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!



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.



Company Profile



National high-tech
enterprise in China



Graduation from
university

38%



24 national patented
technologies



Strive for excellence and strictly control quality



CNPOW's development trajectory



Main product business scope

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 TWO

Product Introduction

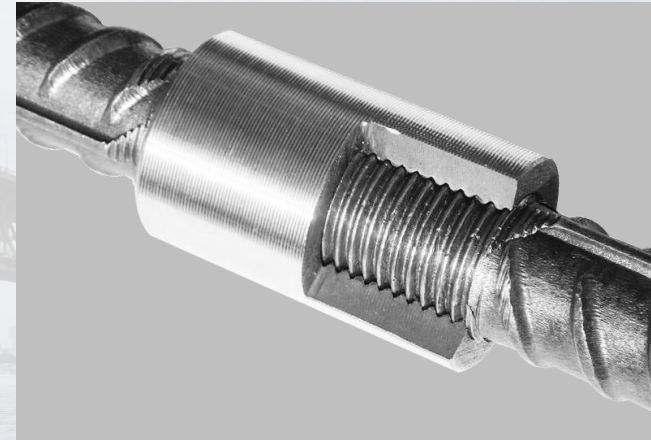
Reinforcement head processing equipment





Mechanical connection technology of steel bar straight thread sleeve

The steel bar straight thread connection scheme is to strip off a part of the longitudinal and transverse ribs at the end of the steel bar to be connected using a steel bar thread rolling machine, and then roll them directly into ordinary straight threads, which are connected with corresponding straight thread sleeves to form the connection of the steel bars.



Application scenarios



bridge



expressway



tunnel



airport



station



dock



subway



building



nuclear power plant





Reinforcement end thread processing

Thread machining work on the end section of steel bars We call it 'rebar end threading'

JGJ 107-
2016

钢筋机械连接技术规程

中华人民共和国行业标准

The end face cut should be vertical and flat, without any irregular shapes such as bending, horseshoe shape, pointed tip, etc



The end of the steel bar is neat and free of cracks

The length of the steel bar thread meets the design requirements, with a maximum deviation of 0-2.0p

Thread finished product protection

Threads should be inspected with specialized gauges, and the thread accuracy should meet the 6F level



Pain points in the traditional production process industry



Unequal quality

Traditional production and processing of steel wire heads mainly rely on manual operation, and the quality of finished products may vary due to differences in operating environment, worker experience, technical ability, and sense of responsibility.



labor cost

The weight of a 12m long Φ 50mm steel bar is approximately 180Kg. At least 4 people are required for loading and unloading, and the labor cost increases according to the processing requirements and procedures. The increase in manual labor also increases the likelihood of work-related injuries.



environmental impact

Outdated equipment leads to excessive reliance on workers' physical strength. The occurrence of severe weather conditions such as high temperature and rainstorm will also greatly increase the probability of industrial injury, at least limit the production efficiency of workers, thus affecting the construction period.

Inefficient

high cost

poor
quality

To solve the pain points faced by the industry, Jiangsu Zhongdong came up with the concept of industrial automatic assembly line production and processing, and applied it to the steel reinforcement machinery connection industry, focusing on how to accelerate production efficiency and ensure production quality while effectively reducing production costs for customers. After a technical team consisting of more than 20 design engineers, assembly engineers, and electrical engineers working day and night for six months of repeated testing and design modifications. So our first mobile steel wire head automatic processing production line was born.

Development history of equipment research and development



CNPOW® Reinforcement head processing equipment

Steel bar end
thread
production line
series

Single
machine
series



CNPOW® Reinforcement End
Thread Processing Product Line

Upsetting
machine
series

Steel bar sawing
series



Steel bar end thread
production line series

- YJSTX-40 automatic machining production line for cutting steel bar end threads with circular saw
- PTSTX-40 automatic machining production line for cutting flat end steel bar end threads



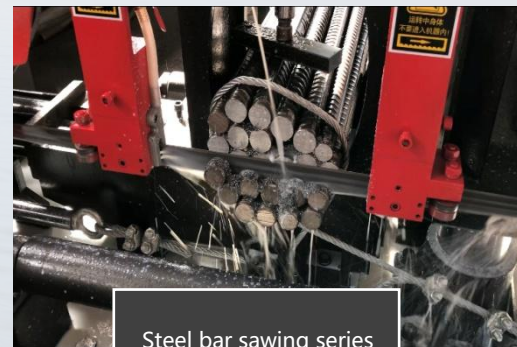
Upsetting machine series

- DDC xxD series automatic double cylinder upsetting machine (can be wired)



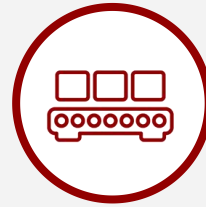
Single machine series

- QXPT-40A Cutting flat head rib stripping rolling thread machine
- QXPT-40E automatic pneumatic cutting flat head rib stripping rolling threading machine
- DBG-50 straight thread rib stripping and rolling machine(helical gear)
- DBG-50E automatic straight thread rib stripping and rolling machine (helical gear)



Steel bar sawing series

- 4230钢筋专用锯床 (可配线)
- 数控自动圆盘锯 (可配线)
- 冷锯切 (可装配螺纹机)



Automatic rebar end thread production line

Adapt to scenario

A、 factory steel reinforcement prefabrication processing
B、 large-scale project steel reinforcement processing
For customers with long continuous operation time, large steel bar usage, and production efficiency requirements

Features: Reduce the labor intensity of manual threading and have more obvious production capacity advantages



Small individual processing equipment

Adaptation scenario

Low one-time investment, suitable for customers with small steel processing volume, small work site, and short steel wire head production



Steel bar end thread production line series

Circular saw cutting steel bar end thread automatic processing production line

YJSTX-40 type (Generation IV)

YJSTX-40 series: Our company has successfully developed a new type of steel bar straight thread automated processing production line that integrates steel bar storage, feeding, conveying, servo sawing, rib stripping, chamfering, and rolling and flipping.



PLC

PLC control



Integrated structure



Patent technology



Smart and Efficient



Easy to operate

Customizable



Steel bar end thread production line series



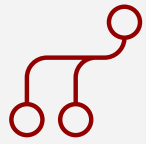
YJSTX-40 (Standard 4-slot double head saw cutting) Main parameters



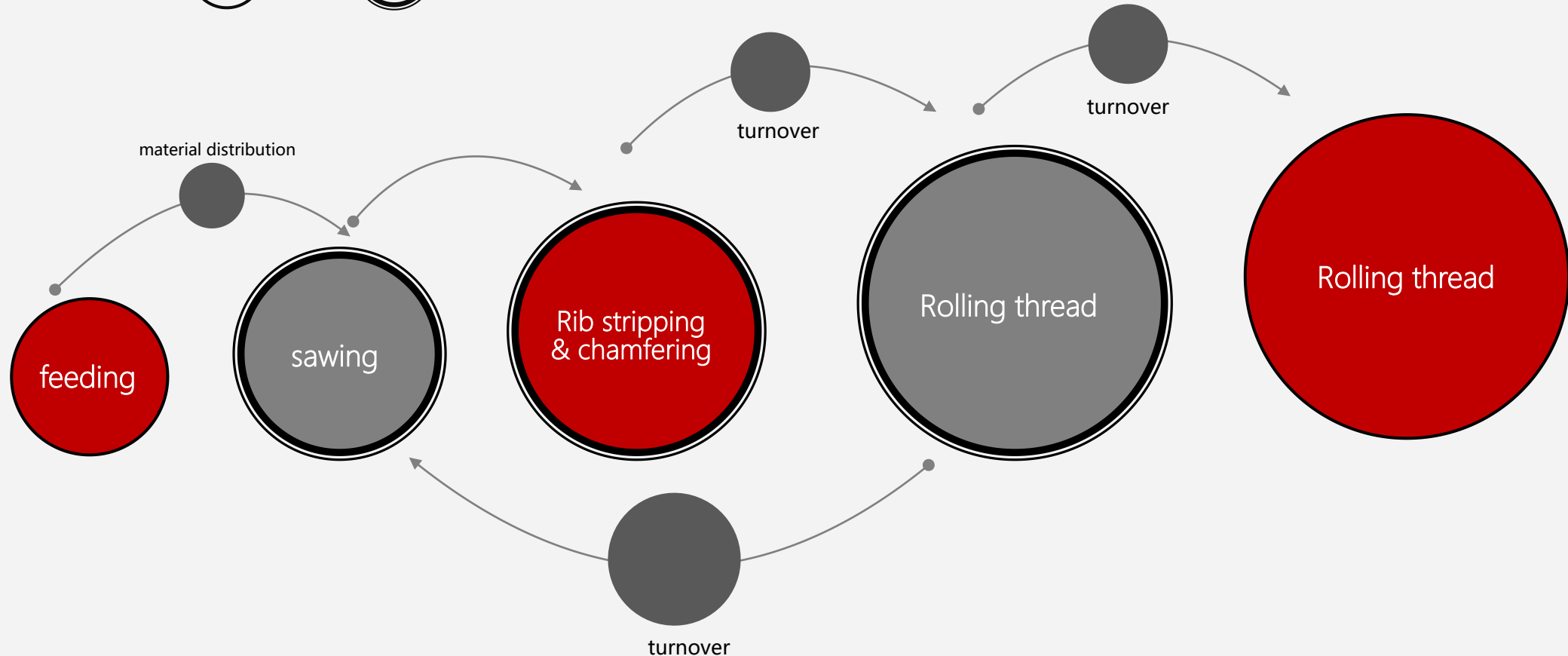
Processing range	Φ20 ~ Φ40mm
Steel bar length	2500 ~ 12000mm
Rib stripping and chamfering machine	2 sets
Automatic threading machine	2 sets
threading machine TYPE	DBG-40E
Automatic circular saw cutting	2 sets
Applicable steel bars	HRB400、HRB500
Load capacity of the material distribution platform	120 Kg/m
Equipment operating power	~ 40kW
Rated total power of equipment	~ 53kW
Working environment temperature	- 5 ~ 40℃
Working environment humidity	≤85%
Working altitude	≤1000 m
Power supply	AC 380V ±5% 50HZ
Power cable	≥16mm ²
Conveyor trough	2+4
Equipment dimensions	16000×6000×2000 mm



Steel bar end thread production line series



YJSTX-40 process flow



Material Distribution System

The forced sorting technology for large flexible steel bars adopts the principle of relative motion between inclined and vertical surfaces, and sorts out one steel bar from multiple ones for transportation, effectively solving the problem of cross and disorderly steel bar sorting.

Material flipping and conveying

Step by step flow operation, after the previous process is completed, the target steel bar exits the axial roller track where the process is located and flips into the waiting groove of the next process, until it enters the finished product groove after passing through the final process.



Steel bar end thread production line series



YJSTX-40 Main Features



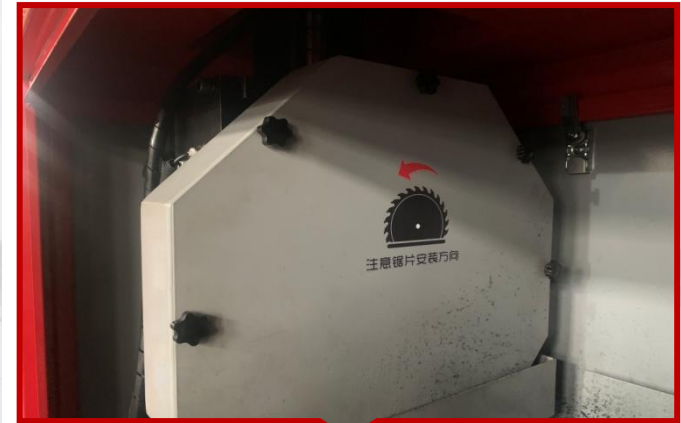
Integrated structure

This equipment not only processes steel wire heads such as sawing, rib stripping, chamfering, upsetting, and rolling, but can also be replaced or added according to actual project needs. The entire equipment can be disassembled, and the main control cabinet and various sub sections also use waterproof quick plug wiring ports. The integrated structure reduces the troubles caused by storage and transportation for you.



Ladder style assembly line operation

Most of the bottom plate steel bars require threading at both ends. Due to the difficulty of turning the 12 meter steel bars around, processing equipment (sawing, rib stripping, chamfering, and wire rolling) is installed at both ends of the steel bars to complete the threading task in multiple processes. The stepped slide track completes the entire processing process with minimal power drive, saving time, effort, simplicity, efficiency, and low energy consumption.

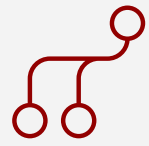


Automatic circular saw cutting

The whole set of equipment adopts the CNC automatic circular sawing system independently developed by Jiangsu Zhongdong. It is equipped with a safety shield, high-speed adjustable servo motor, alloy saw blade, and heat dissipation through air-cooled spray. It occupies small space, has a smooth and flat section, high precision, fast speed, more safety, and more environmental protection.



Steel bar end thread production line series



YJSTX-40 Main Features



E-series automatic threading machine

The E-series automatic threading machine independently developed by CNPOW is a patented product that has obtained multiple invention patents. It has the characteristics of high stability, low wear of rolling wheels, intelligent processing flow, high precision, and high efficiency in the daily processing of steel wire heads.



Numerical Control Intelligent Operating System

This production line equipment is a linkage control system composed of multiple processes, which achieves coordinated and consistent work of multiple processes, and control technology is the key. This production line adopts modular PLC control technology and touch screen setting operation, which enables the various processes and workstations of the production line to coordinate their operations together under the working rhythm.



One person operation saves time and effort

This production line equipment realizes steel bar conveying, automatic positioning, automatic release and clamping of vises, automatic rib stripping and threading, automatic retraction, and fully automated completion. One person can operate an entire production line, with processing efficiency 6-8 times higher than traditional single machines and stable quality, effectively solving the industry's employment problem.



Steel bar end thread production line series



YJSTX-40 main advantages

1

One person operates the entire line, solving the problem of high labor intensity and manpower consumption caused by traditional craftsmanship with one machine and one person. At the same time, the production efficiency of the entire line is equivalent to the capacity of 4-5 traditional single machine versions.

2

The rotating transmission part of the whole machine is designed with a fully protected sheet metal cover, which improves the safety and environmental protection of the whole machine.

3

The sawing machine is equipped with a main power servo and reducer, coupled with servo feed, low noise, smooth cutting, and high efficiency, which increases the service life of the saw blade.

4

The rolling machine adopts the advantages of spline eccentric shaft, wear-resistant eccentric sleeve, no flat pad rolling wheel, and fast adjustment of the machine head. This main component is durable and has low wear and tear.

5

The whole machine has the advantages of small footprint, integrated assembly, easy lifting, assembly, transportation, and storage, and can be stored in a three-dimensional stacking manner.

6

The processing thread head has high connection performance, stable and reliable processing quality, and good thread consistency.



Steel bar end thread production line series



YJSTX-40 Economic benefits



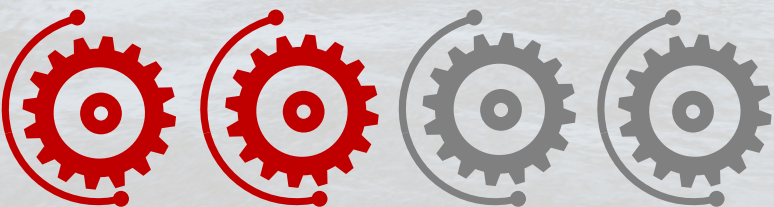
80%

Save labor costs



70%

Save time and cost



50%

Save processing loss costs



Steel bar end thread production line series

Cutting flat head automatic steel wire head automatic processing production line

PTSTX-40

The PTSTX-40 CNC steel bar self flat head threading production line is designed specifically to meet the efficient processing needs of 16-40HRB400 and 500 specification steel bars. The steel bar conveying, automatic positioning, vise automatic operation, cutting flat head, and rib stripping are fully automated to complete the finished products in one go, without the need for manual intervention. No matter how diverse your processing needs are, it can easily handle them.



PLC control



Integrated structure



Cutting flat head



Patent technology



Smart and Efficient

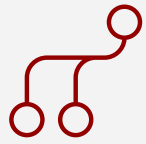


Easy to operate

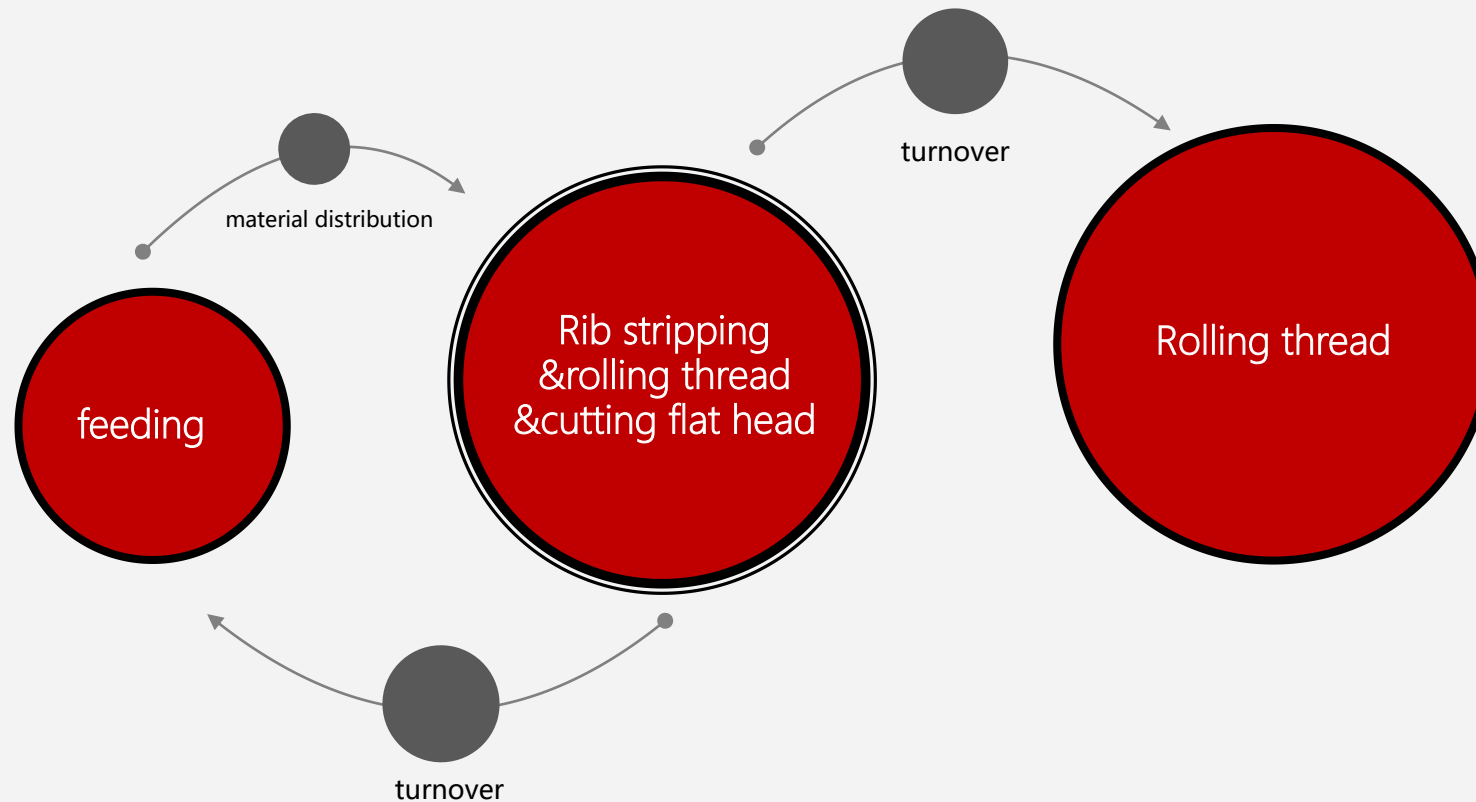
Customizable



Steel bar end thread production line series



PTSTX-40 process flow



Material Distribution System

The forced sorting technology for large flexible steel bars adopts the principle of relative motion between inclined and vertical surfaces, and sorts out one steel bar from multiple ones for transportation, effectively solving the problem of cross and disorderly steel bar sorting.

Material flipping and conveying

Step by step flow operation, after the previous process is completed, the target steel bar exits the axial roller track where the process is located and flips into the waiting groove of the next process, until it enters the finished product groove after passing through the final process.



Before processing



processed



Steel bar end thread production line series



PTSTX-40 Main Features



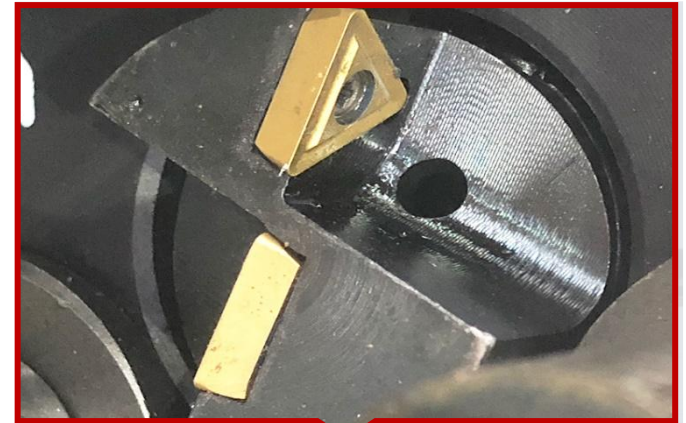
Integrated structure

The PTSTX-40 not only allows for the replacement or addition of steel wire heads, rib stripping, and rolling processes according to actual project needs, but also allows for the entire equipment to be disassembled. The main control cabinet and various sub panels also use waterproof quick plug wiring ports, and the integrated structure reduces the hassle of storage and transportation for you.



Ladder style assembly line operation

Most of the bottom plate steel bars require threading at both ends. Due to the difficulty of turning the 12 meter steel bars around, processing equipment (flat head, rib stripping, and wire rolling) is installed at both ends of the steel bars to complete the threading task in multiple processes. The stepped slide track completes the entire processing process with minimal power drive, saving time, effort, simplicity, efficiency, and low energy consumption.

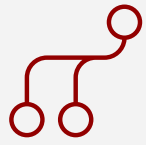


Automatic cutting flat head

The entire equipment adopts high-speed alloy blades with extremely strong wear resistance, ensuring efficient cutting performance over a long period of time. The electromagnetic clutch device and central water outlet design further extend the service life of the blades, ensuring continuous sharpness for over 5000 single heads.



Steel bar end thread production line series



PTSTX-40 Main Features



E-series automatic threading machine

The E-series automatic flat head threading machine independently developed by Cnpow is a patented product that has obtained multiple invention patents. It has the characteristics of high stability, low wear of rolling wheels, intelligent processing flow, high precision, and high efficiency in the daily processing of steel wire heads.



Numerical Control Intelligent Operating System

The PTSTX-40 production line equipment is a linkage control system composed of multiple processes, which achieves coordinated and consistent work of multiple processes, and control technology is the key. This production line adopts modular PLC control technology and touch screen setting operation, which enables the various processes and workstations of the production line to coordinate their operations together under the working rhythm.



One person operation saves time and effort

The PTSTX-40 production line equipment realizes steel bar conveying, automatic positioning, tiger pliers automatic operation, cutting flat heads, stripping ribs and threading finished products in one go without manual intervention. One person can operate an entire production line, with processing efficiency 6-8 times higher than traditional single machines and stable quality, effectively solving the industry's employment problem.

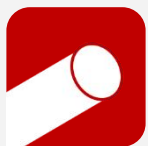


Single machine series

Steel bar cutting flat head rolling machine

QXPT-40A

PTGS-40A steel bar flat head rib stripping and rolling machine is an efficient, stable, and intelligent steel bar processing equipment designed specifically for steel bar processing in the construction industry. This machine integrates flat head, rib stripping, and wire rolling, achieving automation and intelligence in steel bar processing, improving work efficiency, and reducing labor costs.



Cutting
flat head



Patent
technology



Easy to
operate





Single machine series

Automatic steel bar flat head rolling machine

QXPT-40E

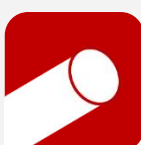
The PTGS-40E automatic steel bar flat head rib stripping and rolling machine is an efficient, stable, and intelligent steel bar processing equipment designed specifically for steel bar processing in the construction industry. This machine integrates flat head, rib stripping, and wire rolling, achieving automation and intelligence in steel bar processing, improving work efficiency, and reducing labor costs.



PLC control



Patent technology



Cutting flat head



Smart and Efficient





Single machine series / QXPT-40E

Brand:	CNPOW	Model:	QXPT-40E
Degree of automation:	auto	Form of control:	PLC
Main motor power:	9Kw	Maximum spindle travel:	80mm
Flat head range:	5~15mm	Cutting speed:	1440 rpm
Main spindle speed range:	82-48rpm	frequency converter:	Optional
working accuracy:	high	Pitch range:	2.5-3.0mm
Compressed air pressure:	0.6~0.8Mpa	Power Type:	Electric/Pneumatic
Feed method:	Pneumatic	Clamping firmware:	Pressure retaining pneumatic vise
Processing diameter range:	Φ16-Φ32mm(HRB335\400\500)		

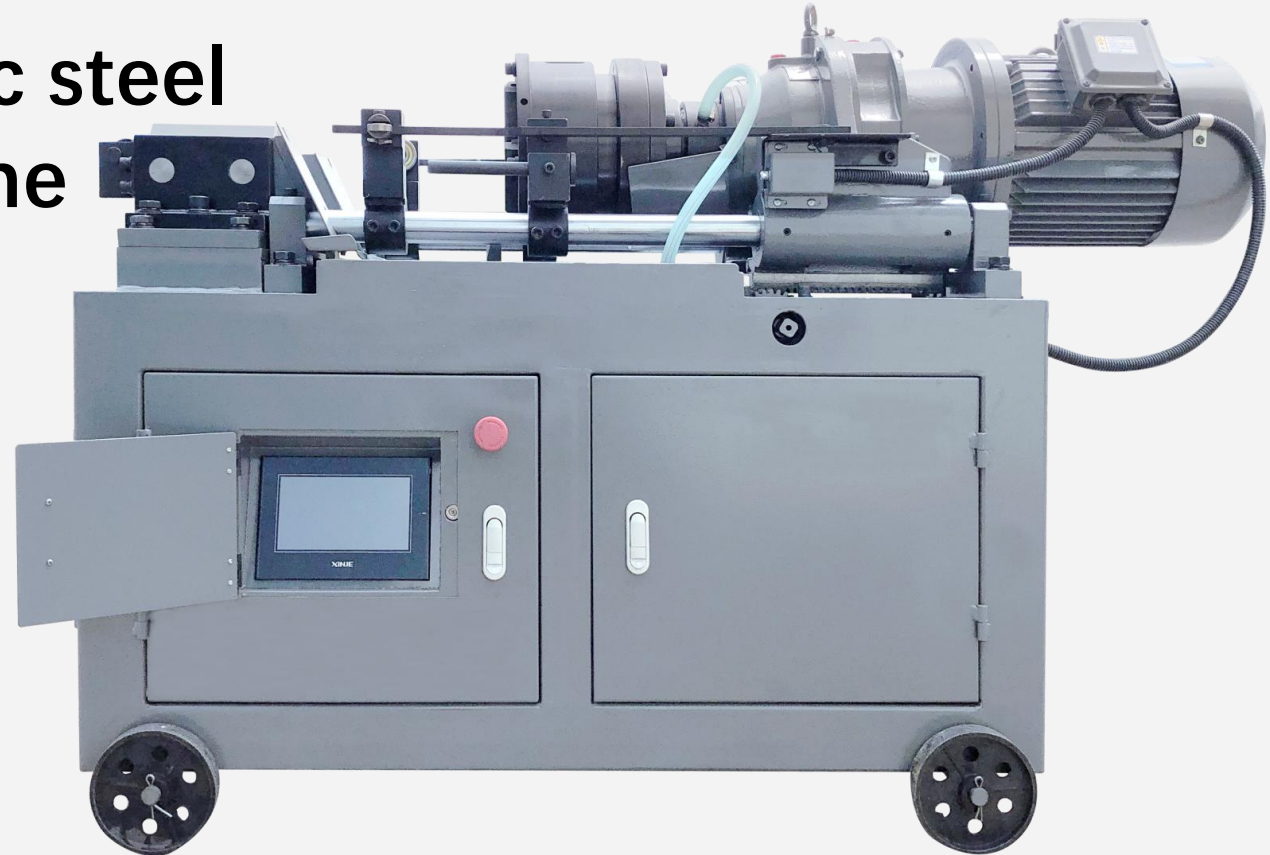


Single machine series

Automatic pneumatic steel bar threading machine

DBG-40E

CNPOW® DBG-40E automatic pneumatic steel bar rolling machine, with its outstanding technical strength, has won multiple technical invention patents. The product is designed specifically for Φ 16- Φ 40mm steel bars, making it an ideal choice for achieving automation and intelligence in steel bar processing.



PLC

PLC control



Patent
technology



Smart and
Efficient



Compatible with
rebar end thread
production line



Single machine series / DBG-40E

More intelligent processes



Gas source stabilization system, optional frequency converter, intelligent process design, truly achieving easy, efficient, and stable processing.

Easy to operate

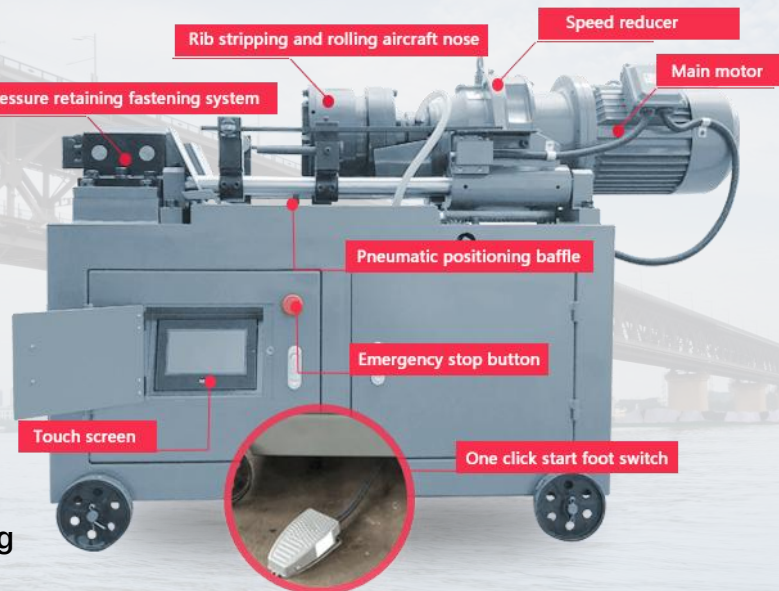


Adopting PLC control and touch screen parameter setting, the visual operation is simple and easy to understand.

Pressure retaining clamping



The overall firmware system of the equipment adopts pneumatic lever vise to maintain pressure and continuously clamp, effectively avoiding the processing defect rate and a series of operational safety issues caused by the failure to fix the workpiece. The vise mouth is made of high-quality special materials and heat treatment technology, which is 5-6 times more wear-resistant and durable than ordinary vise jaws.



One-key start



Place the steel bars → press the foot switch → clamp the vise automatically → strip the ribs automatically → advance the wire automatically → retract and reset automatically → loosen the vise automatically to complete the thread processing

Brand original accessories



The electrical components required for the equipment are sourced from well-known domestic brands, ensuring the overall stability and durability of the equipment and making maintenance more convenient in the future.

Multi functional machine with multiple uses



Rib stripping&chamfering, rib stripping&wire rolling, only need to replace the components of the machine head, can adapt to the production line of steel bar end threads, one machine for multiple purposes.

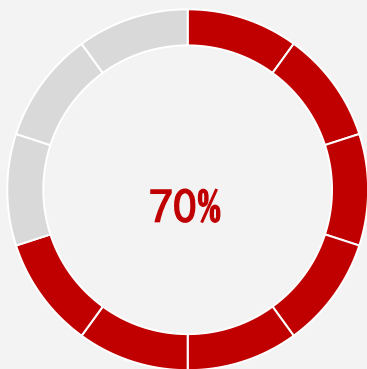


DBG-40E
Patent Technology Products



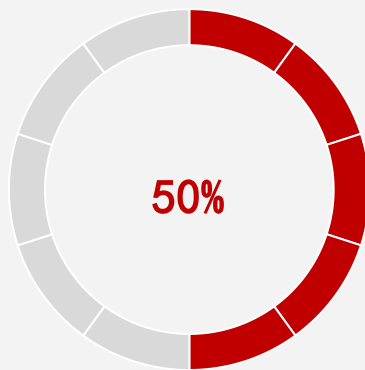


螺纹机系列 / DBG-40E



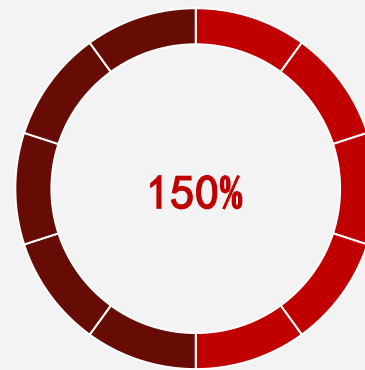
Reduce losses

The eccentric shaft and gear are installed in a spline style, effectively solving the defect of uneven force on the three axes caused by the misalignment of the keyway of the ordinary eccentric shaft. The thread processing is more beautiful, and the wear of the rolling wheel is effectively reduced.



labor-saving

Compared with ordinary threading machines, DBG-40E allows one person to operate two devices simultaneously, and the automation of the entire processing process greatly reduces the labor intensity of workers.



more efficient

Compared with ordinary threading machines, the DBG-40E reduces the actual operation time of processing a steel wire head by 150% and improves the overall processing efficiency by 120%



螺纹机系列 / DBG-40E

Brand:	CNPOW	Model:	DBG-40E
Degree of automation:	auto	Form of control:	PLC
Main motor power:	5.5Kw	Maximum spindle travel:	90mm
Main spindle speed range:	82-48rpm	frequency converter:	Optional
working accuracy:	high	Pitch range:	2.5-3.5mm
Compressed air pressure:	0.6~0.8Mpa	Power Type:	Electric/Pneumatic
Feed method:	Pneumatic	Clamping firmware:	Pressure retaining pneumatic vise
Weight:	565kg	Overall dimensions:	1500*660*1000mm
Processing diameter range:	Φ16-Φ40mm(HRB335\400\500)		

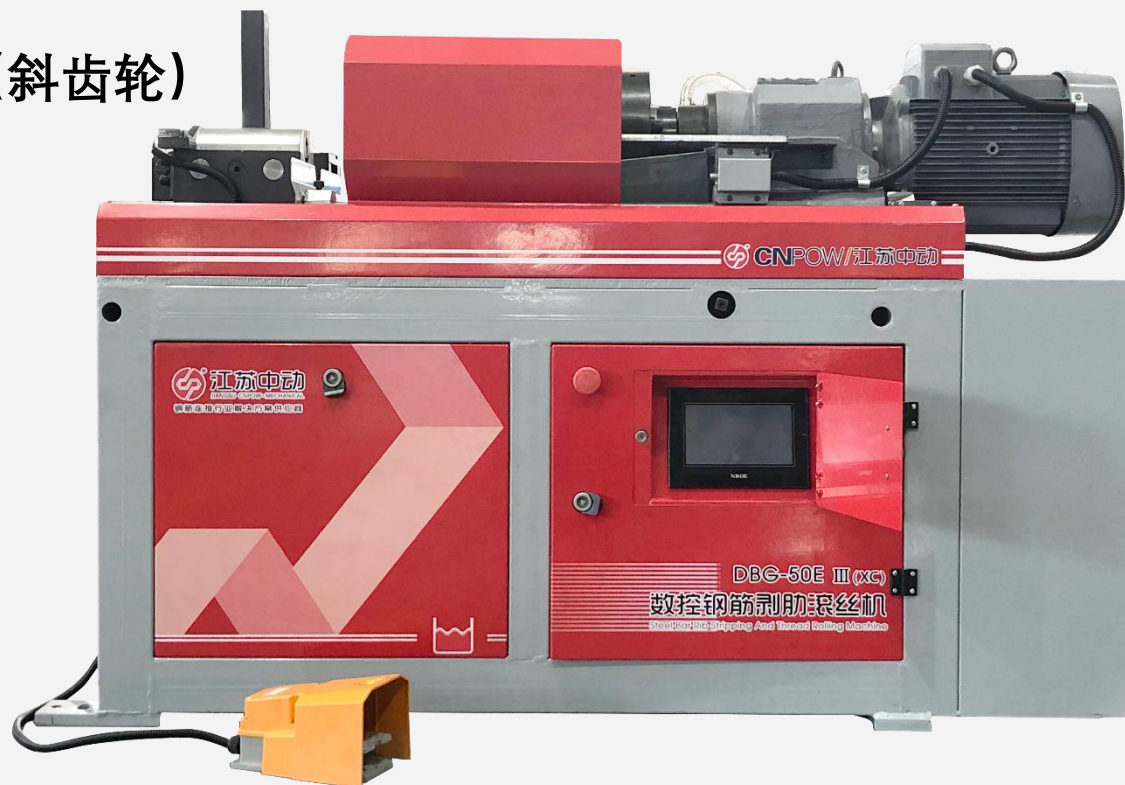




Single machine series / DBG-50E

Automatic steel bar pneumatic threading machine (斜齿轮)

DBG-50E



PLC

PLC control



Patent
technology



Smart and
Efficient



Compatible with
rebar end thread
production line



Single machine series / DBG-50E

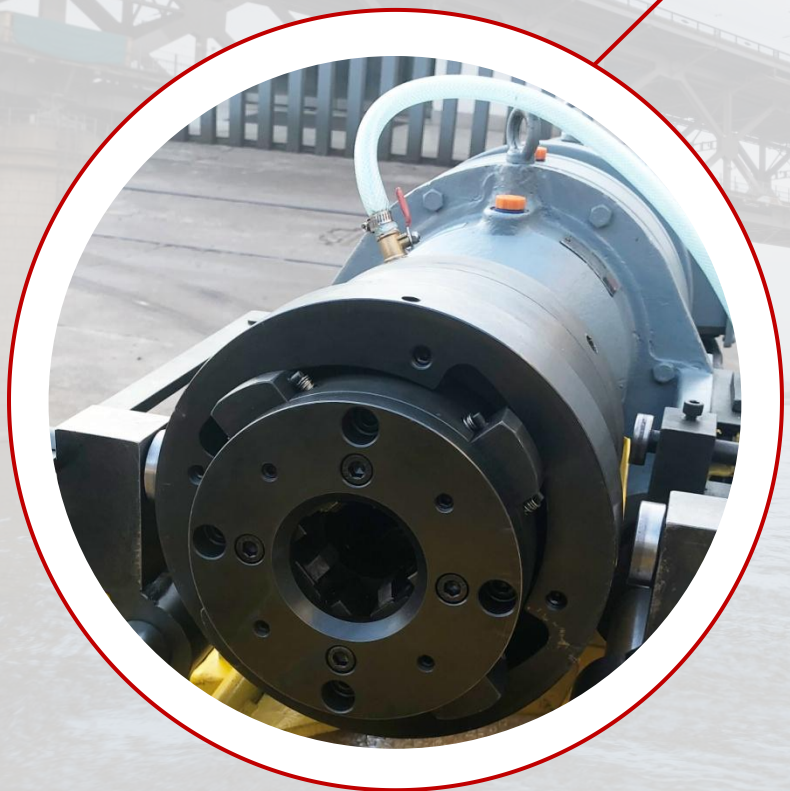


Characteristics of helical gear reducer

- **Small size and light weight** : The helical gear reducer is designed to be compact, ensuring performance while minimizing volume and weight, making it suitable for installation environments with limited space .
- **High transmission torque** : The helical gear reducer has high load-bearing capacity and durability, and can transmit large torque .
- **Smooth start-up** : The meshing method of helical gears reduces the impact and vibration during the starting process, ensures smooth operation, and reduces mechanical wear and energy consumption .
- **Fine graded transmission ratio** : The helical gear reducer provides fine gear ratio grading, which can meet various speed and torque requirements and has strong adaptability .
- **Noiseless** : The movement is smoother and more stable, which eliminates the noise generated by traditional rolling machines during the threading process of the entire machine head .



Single machine series / DBG-50E



Head structure patent technology

- Optimization and improvement of the machine head have significantly improved the accuracy and work efficiency of processing the threads of steel bars with diameters ranging from 36 to 50mm, effectively solving the problem of twisting and deformation at the upper end of steel bars with diameters ranging from 36 to 50mm in this industry.
- Innovative design of the machine head structure, adopting a straight axis stepless cycle adjustment, effectively reducing the loss of the rolling wheel .

Visual touch
screen operation



Foot pedal one
key start





Single machine series / DBG-50E

Brand:	CNPOW/中动	Model:	DBG-50E
Degree of automation:	auto	Form of control:	PLC
Main motor power:	5.5Kw	Maximum spindle travel:	80mm
Main spindle speed range:	82-48rpm	frequency converter:	Optional
working accuracy:	high	Pitch range:	2.5-3.5mm
Compressed air pressure:	0.6~0.8Mpa	Power Type:	Electric/Pneumatic
Feed method:	Pneumatic	Clamping firmware:	Pressure retaining pneumatic vise
Processing diameter range:	Φ16-Φ50mm(HRB335\400\500)		





Single machine series / DBG-50E

CNPOW®  series
Automatic threading machine



01

The processed steel wire heads are formed in a neat and uniform manner, reducing errors caused by human factors .

02

Reduce the loss of processing consumables such as rolling wheels, lower the labor intensity of workers, and thus reduce the consumables and labor costs generated by processing work .

03

Improve actual processing efficiency and effectively reduce project duration .



Upsetting machine series



What is steel bar upsetting ?

The steel bar upsetting machine is a tool that uses high pressure to cold press plastic deformation of the steel bar head, increase the diameter, and then process the thread to make the effective cross-section of the processed thread larger than the steel bar base material, in order to improve the quality of the joint and make the compressive and tensile strength of the joint greater than that of the base material. This machine is suitable for steel bar connections in national key projects with high requirements such as bridges and subways.

The specialized equipment for completing the steel bar upsetting process is the steel bar upsetting machine



Upsetting machine series

Automatic double cylinder steel bar upsetting machine

DDC-xxD系列

The DDC xxD series fully automatic double cylinder steel bar upsetting machine uses high pressure to cold press plastic deformation of the steel bar head, increase the diameter, and then process the thread to make the effective cross-section of the processed thread larger than the steel bar base material, in order to improve the quality of the joint and make the compressive and tensile strength of the joint greater than that of the base material. This machine is suitable for steel bar connection in national key projects with high requirements such as bridges and subways.





Upsetting machine series



DDC-32D

Processing range	16-32
hydraulic pump	10MCY14-1B
Tighten the cylinder diameter	220
Upsetting cylinder diameter	250
Fuel tank size	250
Motor power	7.5Kw
Device dimensions	1300*850*1650



DDC-36D

Processing range	16-36
hydraulic pump	10MCY-1B
Tighten the cylinder diameter	220
Upsetting cylinder diameter	250
Fuel tank size	250
Motor power	7.5Kw
Device dimensions	1300*850*1650



DDC-50D

Processing range	16-40
hydraulic pump	10MCY-1B
Tighten the cylinder diameter	250
Upsetting cylinder diameter	280
Fuel tank size	280
Motor power	11Kw
Device dimensions	1380*950*1750

PART THREE

Product Introduction

Supporting facilities and consumables





Steel bar straight thread sleeve



CNPOW® steel bar straight thread sleeve

CNPOW® straight threaded sleeves are made of high-quality carbon steel and high-quality alloy steel, with reasonable design, advanced technology, high dimensional accuracy, and reliable connection quality. The basic parameters of each specification sleeve are designed according to the strength requirements of HRB500 grade steel bars, and are applicable to HRB400, HRB500, and HRB630 grade threaded steel. The performance indicators have been tested by the "National Construction Engineering Quality Supervision and Inspection Center" and meet the requirements of "I" grade joints in JGJ107-2016. Widely used in reinforced concrete structural engineering in various industrial and civil buildings. Especially suitable for steel bar connections in high-rise buildings, roads, bridges, subways, tunnels, power stations, dams and other buildings and structures with high requirements for explosion prevention and earthquake resistance.



Straight thread sleeve
(HRB400)



Weldable sleeve



High strength sleeve
(HRB500/630)

JG/T 163
-2013

钢筋机械连
接用套筒

中华人民共和国行业标准





Steel bar straight thread sleeve

inspect



① Raw material inspection

②

Testing
during
produc-
tion



③ Finished Product Inspection





Steel bar straight thread sleeve



Production scale can ensure stable supply

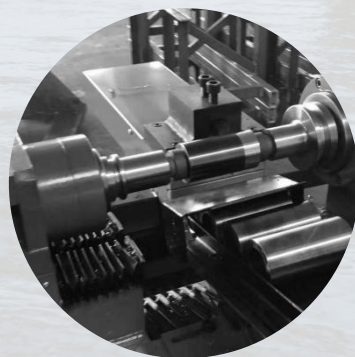


CNPOW Production Straight Thread Connection Sleeve Complete Process Equipment

(详见产品手册套筒生产设备篇)



Cutting



Peeling&Chamfering



Tapping



Marking&Packaging





Steel bar straight thread sleeve

1

High quality steel with special craftsmanship

Equal strength joint, excellent fatigue and low temperature resistance, higher than the strength of the base material

2

Exquisite craftsmanship and high safety

Good thread profile, high precision, no false threads, stable connection quality

3

High precision and operational efficiency

No bad teeth, consistent thread diameter, easy assembly, stable and reliable connection quality

4

Complete professional certification and qualifications

Product ISO9001 quality system certification and inspection by the National Construction Quality Supervision and Inspection Center.

5

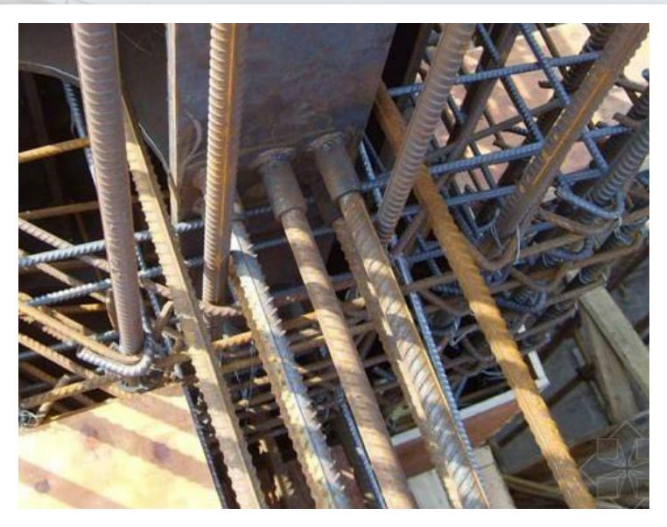
Complete specifications and stable supply

Standard, reducing, positive and negative wire, HRB400/HRB500 and HRB630 are applicable, with full specifications of Φ 12- Φ 50mm, and a daily production of 100000 pieces



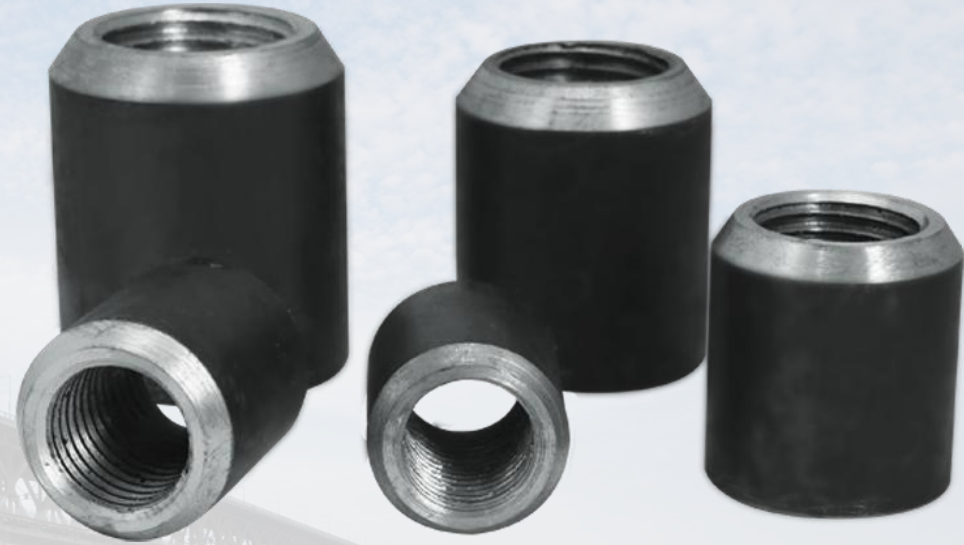


Weldable sleeve



Weldable sleeve

A special sleeve, called a weldable sleeve, is used in construction for special applications such as steel structures, steel beams, steel columns, and steel plates. It is welded to the sleeve and connected to a straight threaded joint at the other end. The intermediate weldable sleeve uses annealed raw materials to produce high-quality steel sleeves with good toughness and passing tensile tests. During use, there will be no twisting or breakage, ensuring high requirements and high standards for engineering construction.



◆ Complete specifications

CNPOW® Weldable Sleeve M16-M32mm with complete specifications, customizable specifications up to M12-M50mm .

◆ Heat treatment process

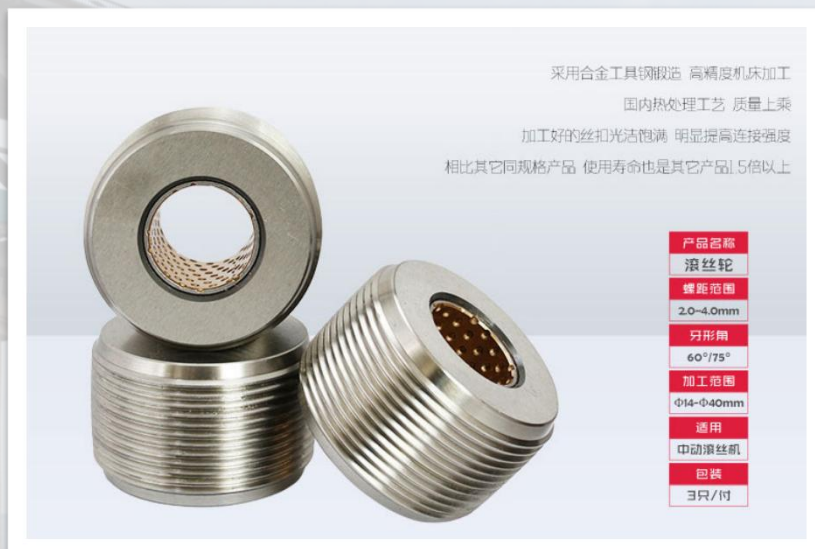
All models of steel bar sleeves produced by CNPOW Machinery use annealed raw materials. The steel bar sleeves produced have high quality, good toughness, and pass tensile tests. During use, there will be no twisting, cracking, or breakage, ensuring the high requirements and standards of engineering construction.

◆ Good performance

High quality alloy steel has good comprehensive mechanical properties, excellent low-temperature performance, good plasticity and weldability. It is used for structures and building structures that bear dynamic loads such as power stations and bridges. It can be used in hot rolling or normalizing states and can be used for various structures in cold regions below -40 °C.



Consumables and accessories

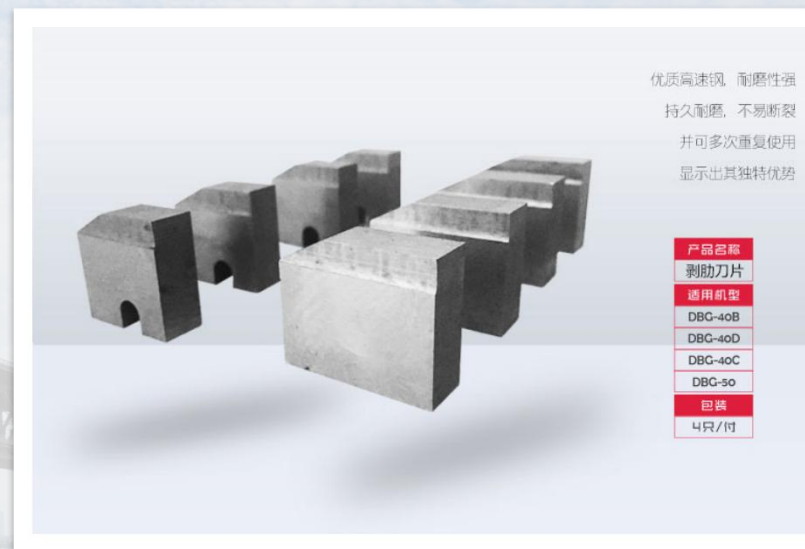


Matching rolling wheel

To provide all specifications of rolling wheels for CNPOW's fully automatic wire head line and all series of steel bar rolling machines

High precision machine tool processing using alloy tool steel forging. The domestic heat treatment process has excellent quality. The processed thread is smooth and full, significantly improving the connection strength.

Compared to other products of the same specification, the service life is more than 1.5 times longer.



Supporting rib stripping blade

Supporting rib stripping blades of various specifications and sizes for CNPOW's fully automatic wire head line and all series of steel bar rolling machines

Made of high-quality high-speed steel, it is durable, not easy to break, and can be reused multiple times without the need for frequent blade replacement. It is highly trusted by users! At the same time as efficient construction, it also reduces construction costs for you.



Consumables and accessories



Reinforcement thread protection cap



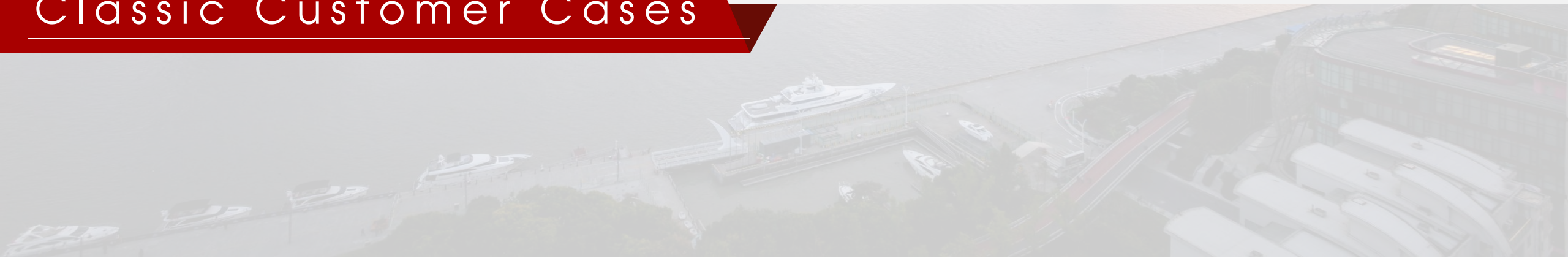
Sleeve thread protective cover



PART FOUR

CASE

Classic Customer Cases



2024

—
t h a n k s

T h a n k Y o u F o r R e a d i n g

Product Manual 2024

Jiangsu Cnpow Machinery Technology Co., Ltd.