



Changzhou CNPOW Machinery Technology Co., Ltd.

Rebar Mechanical Splicing Solution Provider

ISO9001:2015;CE;CARES;CABR;dibt;DCL;ASTM;CSA;DIN



Changzhou CNPOW Machinery Technology Co., Ltd. is the **one stop rebar mechanical splicing solution provider since 2006.**

Here is our **main scope:**

- Supply rebar coupler
- rebar mechanical splicing **solution provider**
- Supply the rebar coupler processing equipment
- Supply the rebar thread processing equipment
- Supply all kinds of prefabricated concrete structures(lifting&fixing sockets)



CNPOW machinery has a **global sales network** and has got a good reputation worldwide. CNPOW always aims for **customer genuine needs** and create CNPOW brand with advanced technology and sincerity. Over the years, CNPOW machinery has been involved in more than **300 major construction or industrial projects at home and abroad** providing us with unique global experience and expertise

rebar coupler processing equipment as follows

- Automatic steel pipe cutting machine
- Automatic rebar band sawing machine
- Automatic rebar rod drilling machine
- automatic coupler tapping machine
- automatic peeling and chamfering machine,
- rebar coupler integrated marking and packing machine

Rebar Coupler Process Flow



Pipe/rebar rod Cutting



drilling



Peeling and chamfering



tapping



marking

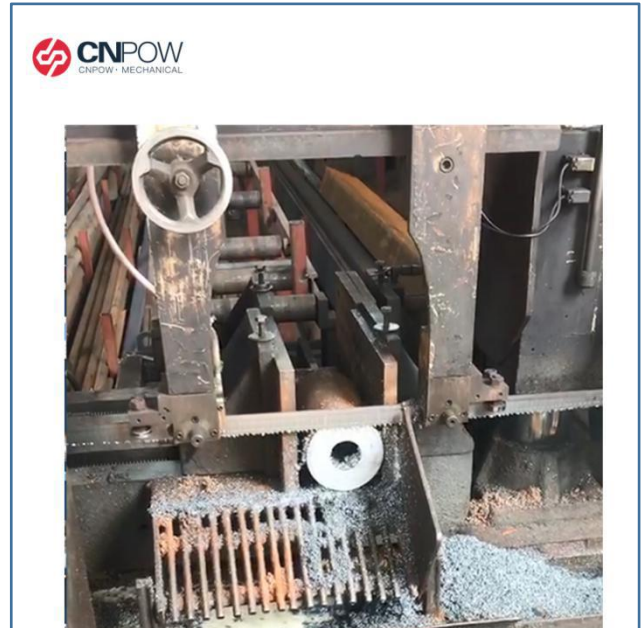
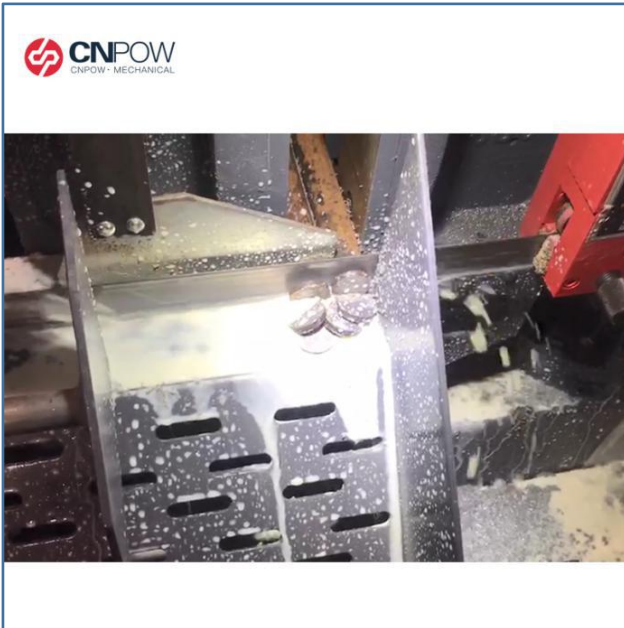


Quality inspection

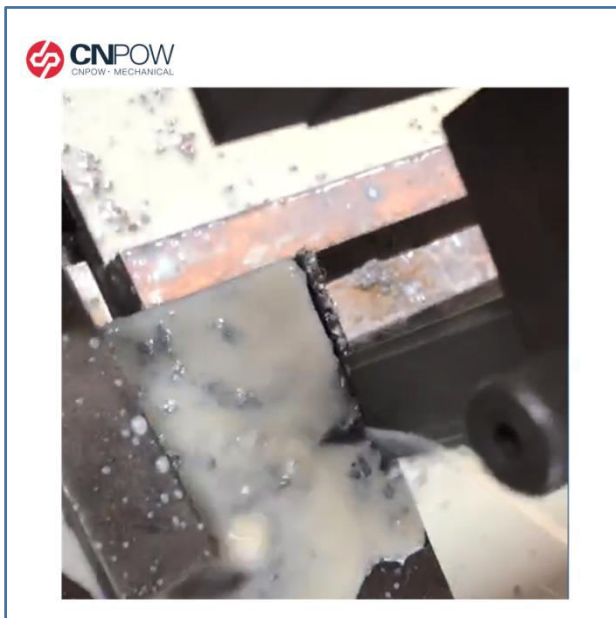
GZK4230 Horizontal CNC Band Sawing Machine



steel rod bar in round with circle $\leq \Phi 300$ mm



steel rod bar in square 280×300mm



All application product



Main Technical Parameters of GZK4230 Horizontal CNC Band Sawing Machine	
Maximum cutting range	circleΦ300 mm square280×300
Specification of Band Saw Blade (Width *Thickness *Length)	34 ×1.1 ×4000 mm
Cutting sawing speed	Four level 27 38 49 70 m/min
Feed Speed	Stepless Speed
Output	80 seconds for cutting diameter 90mm rebar
Main Motor Power	3kw
Hydraulic motor power	0.75kw
Cooling motor power	0.08kw
Feeding mode	Clamp the vise,then automatic feeding with a maximum stroke of 500 mm in a single stroke, and the same feeding mode can be repeated many times. Adding 2 auxiliary raceway feeding racks
Dimension control	Magnetic Railings Ruler with fixed length
Machine Tool Size(Length, Width, Height)	2000×2100×1500mm
Gross Weight	1700kg
Packing Dimension	2360*2160*1630mm

DKG Series CNC Servo Automatic Steel Pipe Cutting Machine



DKG

Automatic Pipe Cutting Machine

(Double Servo)

It is especially suitable for long material cutting.



CNPOW Double Servo Cutting Machine is divided into 60 type, 80 type, 120 type and so on. It is suitable for pipe cutting in various industries.

The height tolerance of the product can be less than 0.07 mm, and the output can be 20-40pcs/min.

CNPOW DKG series CNC Pipe Cutting Machine adopts PLC control, touch screen settings, cutting and positioning drive using two servo systems, high positioning accuracy, sliding part using high precision cross ball guide effectively ensuring the machine steelness and product precision.



External circle chamfering
(Optional)

Brand	CNPOW	Model	DKG Series
Main Motor Power Rate	4Kw	Spindle Speed	1000r/min
Input Voltage:	380V	Hydraulic Motor Power	0.75Kw
Oil Pump Pressure	2.5Mpa	Piston stroke	140mm
Weight	800Kg	Overall Size	1800x900x1500mm
Specification	DKG-60 (processing outer diameter10-60mm) ,DKG-80(processing outer diameter 60-80mm) ,DKG-120(processing outer diameter 80-120mm)		

Technical Characteristics	
● High Precision Cutting	CNPOW DKG series CNC Pipe Cutting Machine adopts PLC control, touch screen settings , cutting and positioning drive using two servo systems, high accuracy positioning , sliding part using high precision cross ball guide effectively ensuring the machine steelness and product precision.
● High Automation&Efficiency	This cutting machine is suitable for mass production of steel pipe cutting . It can cut whole steel pipe automatically on the cutting machine and stop automatically without material , and alarm automatically for abnormal situation .It can realize one person to take care of several equipment at the same time.
● Specification	Accoring to the size steel pipe,cutting machine can be divided into 3 version DKG-60 (processing outer diameter10-60mm), DKG-80 (processing outer diameter 60-80mm) DKG-120 (processing outer diameter 80-120mm)
● Output&Tolerance	The height tolerance of the product can be less than 0.07 mm , and the output can be 20-40pcs/min.

Double Spindle Drilling Machine



Processed work piece diameter range: 20~32mm

Work piece length range: 50-250mm

Work efficiency: 600 pieces/day

Working voltage: 380V-50HZ

Motor power: 2.2KW (total 4.4KW)

Size: 1300X1200X1500mm

Total weight of equipment: 700kg

Output: drill 1200pcs reabr of diameter 25mm/set

Ideal drilling machine for drilling cross hole in Transverse and drill solid bar in longitudinal direction at the same time.

DGS-50Z Automatic Rebar Coupler Tapping Machine



Brand	CNPOW	Model	DGS-50Z
Main Motor Power Rate	(11kw)	Output Speed	50-380 r/min (can be customized)
In one motion	In one motion	Work Precision	High
Control Type	CNC	Power Type	Hydraulic
Degree of automation	Automatic	Structure	Double priciple axis/vertical
Control Type	CNC	Diameter Range	Φ8-Φ50mm
Overall Size	1200x1500x2500mm	Weight	1025Kg

Technical Characteristics for tapping machine

1.Pitch Synchronization

The screw pitch of the lead screw on principal axis synchronizes with the screw pitch of the screw tap, and in this way, the processed coupler will be with **good thread tooth shape** and at the same time, it solves the problems of the concentric reducer in processing the thread, thus improving the product quality.

2.Easy Operation

When processing couplers with different screw pitches, it is only necessary to **change the left and right lead screws and the nuts on the principal axis** which means that you just use the lead screws and the nuts with the same screw pitch of the processed coupler and adjust the left and right axis to equal altitude. It is simple and convenient and there is no need of the operation of multiple equipment, which **reduces users' cost of production equipment and sites.**

3.Components

The machine **drive uses spiral gear reducer,the feeding is pneumatic.Centering chuck is clamped by the hydraulic-drive.**This not only reduces the demand for air source, but also improves the stability of clamping workpiece. The **failure rate of the machine is low**, and it is easy to find the failure and debug, which greatly improves the production efficiency of the machine.

4. High Work Efficiency

- **One** person can oprate **several** machines at the same time
- Automatic
- Work Efficiency:**7-8pcs/min in one machine**

DBC-60 Peeling and Chamfering Machine



It is mainly used for the **peeling and chamfering** of the outer circle for the **rebar**



Brand	CNPOW	Model	DBC-60
Main Motor Power Rate	2.2Kw	Maximum stroke of spindle	100mm
Spindle Speed	1000r/min	Work Precision	High
Control Type	Numerical Control	Peeling Thickness Range	1.5mm
Degree of Automation	Automatic	Structure	Horizontal Type
Overall Size	1400x1320x1465 mm	Weight	700Kg
Processing Diameter Range	Φ20-Φ60mm /20-120mm		

Technical Characteristics

- Processing Range

CNPOW DBC-60 automatic peeling and chamfering machine is mainly used for **peeling and chamfering the outer circle of the fix length coupler with outer diameter less than 60 mm.**

- Components

The machine is **drived by the servo motor and controlled by PLC** and composed of **ball screw, linear slide rail and the touch screen display** with easily manual and automatic switching and clear vision.

- High Degree of Automation

Workpiece from feeding, clamping, peeling chamfering, unloading are all controlled by the PLC program. The advantages of high degree of automation and **one person operating multiple machines at the same time** have **reduced labor costs and improved production efficiency.**

- Unique Features

DBC-60 automatic peeling and chamfering machine has the characteristics of **high precision, simple and convenient operation, low failure rate, low noise and stable operation.**

- Application Area

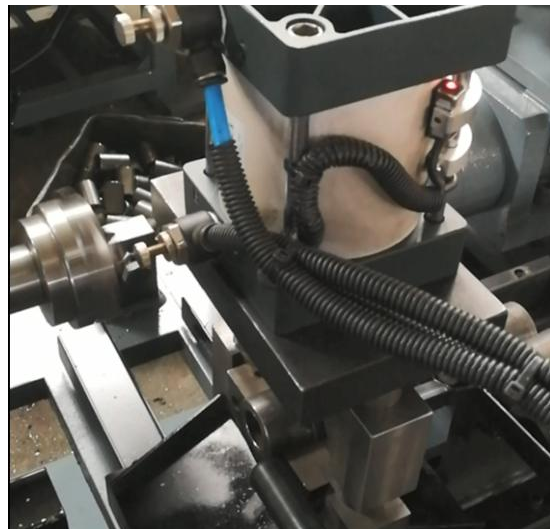
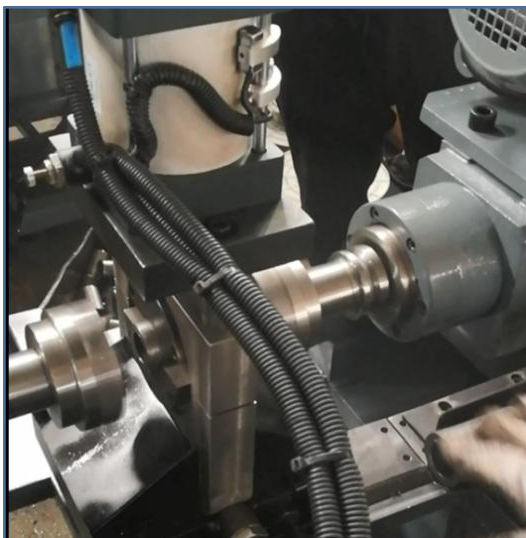
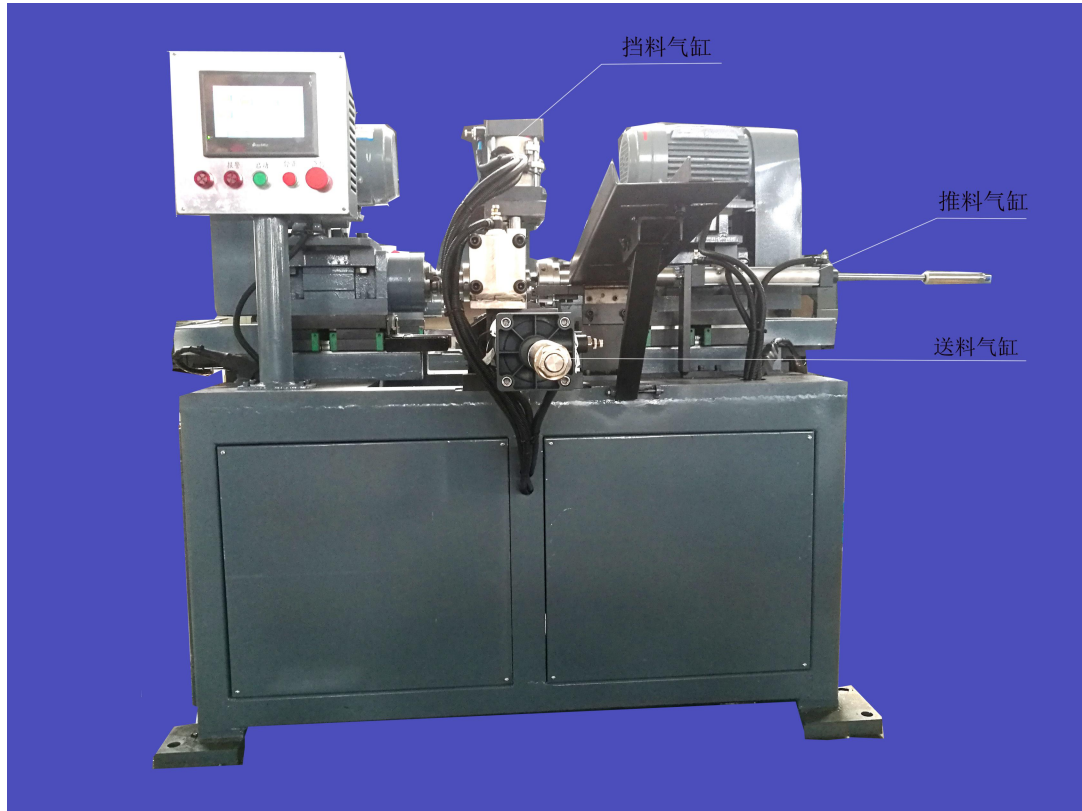
It is widely used in **construction industry couplers processing and automobile spare parts processing.**

- High Work Efficiency

One man can operate several machines with automation production saving the labor cost .

Double Head Chamfering Machine

Ideal Chamfering Machine to chamfer outer and inner circle at the same time.



DGY-60 Rebar Coupler Marking Machine



Coupler Marking Machine

CNPOW marking machine is widely used in the marking of the finished rebar splicing coupler in construction.

It is mainly used for marking steel bar splicing **couplers** with outer diameter $\Phi 10$ - $\Phi 60$ mm and length of less than 100mm.

According to the new industry regulations of rebar mechanical splicing, rebar coupler needs to be marked.

CNPOW DGY-60 automatic coupler marking machine has fast typing speed with about 10000 pcs couplers improving working efficiency.

CNPOW is a professional manufacturer specializing in a series of rebar mechanical splicing equipment and products such as rebar parallel thread rolling machine, rebar thread couplers, rebar coupler tapping machine, rebar peeling and chamfering machine.



It is mainly used for marking steel bar splicing couplers with outer diameter $\Phi 60\text{mm}$ and length of less than 100mm.

Brand	CNPOW	Model	DGY-60
Main Motor Power Rate	750W	Work Precision	High
Degree of automation	Automatic	Power Type	Electric
Length Range of Work piece	Less than 100mm	Outer Diameter Range of Work piece	Φ10-Φ60mm
Structure	horizontal	Weight	400Kg
Overall Size	1200X1000X1100mm		
Technical Characteristics			
● Typing Speed Comparison between CNPOW and Other Brands Because of the slow typing speed of the traditional laser marking machine, the fastest typing speed of a machine is only about 2000pcs couplers/day. CNPOW DGY-60 automatic coupler marking machine has fast typing speed with about 10000 pcs couplers/day improving working efficiency.			
● Easy Opearation It go with easy opertation while the coupler of each specification only needs to change the typing die.			
● Automatic Marking Marking machine type automatically and what the worker need to is just to place the coupler in the rolling groove which will a marking the coupler while rolling the coupler			

Automatic Rebar Coupler Marking and Packing Machine



This Coupler marking and packing machine is **fully automatic from feeding, marking to packing. No labor cost.**

Rebar Thread Rolling Machine



DBG-50 (Ribbed)
REBAR THREAD ROLLING MACHINE



(ribbed) $\Phi 12 - \Phi 50\text{mm}$
Max Length: 200mm



DZG-40 (Straight Rolled)
REBAR THREAD ROLLING MACHINE



(direct rolled) $\Phi 16 - \Phi 40\text{mm}$
Max Length: 120mm



DBG-40B (Ribbed)
REBAR THREAD ROLLING MACHINE



(ribbed) $\Phi 16 - \Phi 40\text{mm}$
Max Length: 90mm



DBG-40C (Ribbed)
REBAR THREAD ROLLING MACHINE



(ribbed) $\Phi 12 - \Phi 40\text{mm}$
Max Length: 80mm

OEM/ODM is available ,we are processional machinery manufacturer.

Technical Characteristics
1. Complete the processing of reinforcing bar threads at one time , and the thread tooth shape of the processing threads is full and smooth .
2. We innovate the design of machine head structure and adopt the stepless cyclic regulation of direct axis . It reduced the loss of cylindrical die roll greatly.
3. We adopt the helix angle technology with easy and fast thread processing improving the work efficiency
4. Integrative design of machining blade holer and base, the roundness of the thread is high .
5. Three points are in a line with high concentricity and stability
6. Easy feeding of reinforcing bar and automatic return after thread rolling with output 600-900pcs per day
7. The length of the processed thread can reach 80mm .

Parameter			
Brand	CNPOW	Model	DBG-50
Power rate of Main Motor	5.5KW	Maximum travel of spindle	120mm
Rotate Speed of Principal axis	82-48rpm	Working Precision	High
Cutting edge angle	60°/75°	Pitch	1.75-4.0mm
Tapping Ability	Once modeling	Power Type	Electric motor
Degree of Automation	Semi-automatic	Control Type	Manual
Weight	450KG	Average output per day	600-900 pcs
Diameter range of thread rebar joint	Φ12-Φ50mm(suitable for standard rebar HRB335/400/500/ 600)		

Parameter			
Brand	CNPOW	Model	DZG-40
Power rate of Main Motor	4KW	Maximum travel of spindle	120mm
Rotate Speed of Principal axis	82-48rpm	Working Precision	High
Cutting edge angle	60°/75°	Pitch	2.5-3.5mm
Tapping Ability	Once modeling	Power Type	Electric motor
Degree of Automation	Semi-automatic	Control Type	Manual
Weight	450KG	Average output per day	500-700 pcs
Diameter range of thread rebar joint	Φ16-Φ40mm(suitable for standard rebar HRB335/400/500/600)		

Parameter

Brand	CNPOW	Model	DBG-40B
Power rate of Main Motor	4KW	Maximum travel of spindle	90mm
Rotate Speed of Principal axis	82-48rpm	Working Precision	High
Cutting edge angle	60°/75°	Pitch	2.5-3.5mm
Tapping Ability	Once modeling	Power Type	Electric motor
Degree of Automation	Semi-automatic	Control Type	Manual
Weight	450KG	Average output per day	600-900 pcs
Diameter range of thread rebar joint	Φ16-Φ40mm(suitable for standard rebar HRB335/400/500/600)		

Parameter

Brand	CNPOW	Model	DBG-40C
Power rate of Main Motor	4KW	Maximum travel of spindle	80mm
Rotate Speed of Principal axis	82-48rpm	Working Precision	High
Cutting edge angle	60°/75°	Pitch	1.75-3.5mm
Tapping Ability	Once modeling	Power Type	Electric motor
Degree of Automation	Semi-automatic	Control Type	Manual
Weight	450KG	Average output per day	600-900 pcs
Diameter range of thread rebar joint	Φ16-Φ40mm(suitable for standard rebar HRB335/400/500/600)		

DDC32 Rebar Upsetting Machine



Rebar upsetting means it makes plastic deformation of steel bar end according to the principle of cold heading, then the diameter of the rebar will be increased by 4-6mm and then process the rebar thread.

After processing, actual cross-sectional area of the process rebar joint is larger than the cross-section area of the original rebar joint which greatly improves the tensile strength of the joint.

The upsetting threaded joints were all broken in base metal by tensile test.

It is suitable for construction, road and bridge, high-speed railway and power station projects with higher requirements. Ultra-high pressure, low flow and low energy consumption are adopted in hydraulic system of CNPOW DDC-32D double cylinder upsetting machine.

High precision, good performance, premium quality, simple and convenient operation is its great advantage. Besides, workers can go on duty after the shortest professional training.



Upsetting of Steel Bar



Thread Rolling



Connection and Forming

Parallel Rebar Coupler



High Output **150000** pcs /day

Parallel Threaded rebar splicing Coupler

- standard type
- threaded coupler with left and right hand thread
- coupler with different inner diameter
- coupler with extended thread

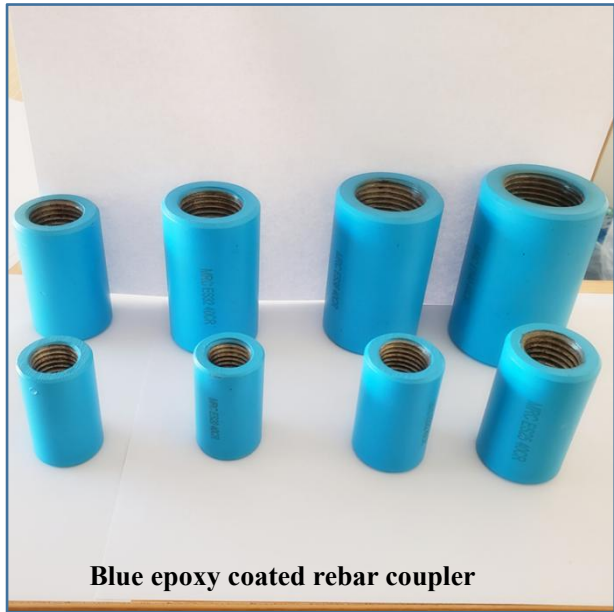


✓ All specifications ✓ High accuracy ✓ Resist fatigue ✓ Resist low temperature





Green epoxy coated rebar coupler



Blue epoxy coated rebar coupler

ISO9001:2015;CE;CARES;CABR;dibt;DCL;ASTM;CSA;DIN

Complete Specifications

Diameter Range $\Phi 12$ - $\Phi 50$ mm

Here is the 4 type
standard type

coupler with left and right hand thread

coupler with different inner diameter

Coupler with extended length

Premium Steel Bar with High Strength

Equal strength joint has the excellent fatigue resistance and low temperature resistance, the joint strength is higher than the strength of base metal.

Exquisite Craftsmanship

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

The minimum thread pitch can be 1.75MM.

Standard Specifications&Customization

All types and specifications, wide range of applications, suitable for transverse, vertical and oblique steel bars of the same diameter and different diameter

Weldable Rebar Coupler



CNPOW
CNPOW · MECHANICAL

CE ISO 9001 ISO 14001

High Output **150000** pcs /day

Weldable Rebar Splicing Coupler

Weldable Coupler is widely used in the splicing of steel bar steel beam, steel column, steel plate, etc.

✓ All specifications

✓ High accuracy

✓ Resist fatigue

✓ Resist low temperature



CNPOW
CNPOW · MECHANICAL

CE ISO 9001 ISO 14001

WELDABLE REBAR SPLICING COUPLER



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CE ISO 9001 ISO 14001

WELDABLE REBAR SPLICING COUPLER

Grouting Coupler

Reinforcing bar coupler grouting connection technology is a new type of reinforcing bar connection technology by inserting reinforcing bar into metal coupler embedded in prefabricated concrete component and pouring Cement-based grouting material. This technology has the characteristics of stable performance, strong adaptability, energy saving, simple installation.



Full Grouting Coupler

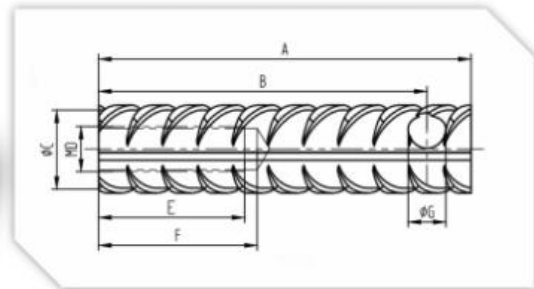


semi-grouting couplers

Thread Lifting & Fixing Socket



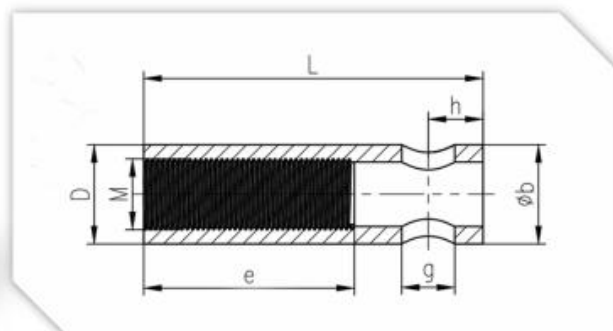
CNPOW thread lifting insert socket for precast concrete is used for lifting, demoulding, transporting, installation, temporary support, template support and other functions of prefabricated components.



Rebar Thread Lifting socket with cross drilled hole

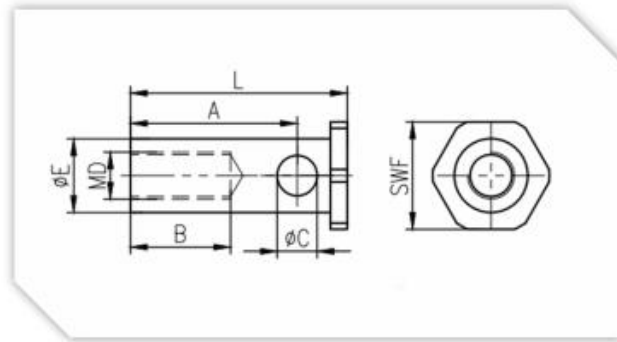
Specification	Material	Coating	Dimension							Load :T
			A	B	ΦC	D	E	F	ΦG	
Thread Coupler M12	HRB400	Galvanized	55	40	22	12	30	35	12	0.6
Thread Coupler M14	HRB400		80	60	22	14	40	55	12	0.8
Thread Coupler M16	HRB400		90	70	25	16	40	55	12	1.2
Thread Coupler M16	HRB400		160	140	25	16	50	70	14	1.2
Thread Coupler M18	HRB400		90	70	32	18	40	55	14	1.6
Thread Coupler M20	HRB400		75	60	32	20	40	50	14	2
Thread Coupler M20	HRB400		100	80	32	20	50	65	14	2
Thread Coupler M20	HRB400		120	100	32	20	60	80	14	2
Thread Coupler M20	HRB400		150	130	32	20	60	80	14	2
Thread Coupler M20	HRB400		200	180	32	20	60	80	14	2
Thread Coupler M20	HRB400		250	230	32	20	60	80	14	2
Thread Coupler M24	HRB400		120	100	36	24	60	80	16	2.5
Thread Coupler M24	HRB400		150	130	36	24	60	80	16	2.5
Thread Coupler M24	HRB400		250	230	36	24	60	80	16	2.5
Thread Coupler M30	HRB400		250	230	45	30	60	80	18	3

Seamless Tubular Barrel lifting socket with cross drilled hole and plastic cap



Thread Lifting socket with flat plate and cross drilled hole

Flat Lifting Socket is ideal for large, thin precast concrete components such as slabs and shells, on which it's hard to place normal lifting sockets because of the thin thickness of the component. Additional reinforcement must be used to transmit the load into the concrete.



Specification	Material	Coating	Size								Load:T
			L	A	B	C	MD	E	SWF		
D19	HRB400	Galvanized	55	40	20	12	14	22	32	0.8	
中🌙°📻👤👕🔧400	400		60	45	25	12	14	22	32	0.8	
D19	HRB400		65	50	30	12	14	22	32	0.8	

Lifting Inserts Socket with flat end and cross hole

Lifting Insert is a M threaded insert for the lifting purpose. It can be used for the transport of beams, panels and slabs etc.

A rebar must be passed through the cross hole to transfer the load into the concrete.



Heavy Duty Lifting / Fixing Sockets

Heavy Duty Lifting/Fixing sockets for high tensile and shear loads.

Widely used in the application of precast concrete construction, such as lifting beams, wall and floor slabs etc..

A Reinforcement bar is to be inserted through the cross hole to transfer the load into the concrete.

High Strength Solid bar, galvanized. Stainless steel available on request.





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