

以人为本 · 知能善任

PUT PEOPLE FIRST KNOW
AND BE GOOD AT RESPONSIBILITY

常州市奇隆建筑机械设备有限公司
Changzhou Cheeron construction machinery Equipment Co., LTD

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无缝钢管
Seamless Steel Tubes
钢筋套筒
Couplers For Rebar
直螺纹滚丝机
Parallel Thread Rolling Machine

CHEERON

COUPLERS
FOR REBAR



CHEERON
CONSTRUCTION
MACHINERY
EQUIPMENT



常州市奇隆建筑机械设备有限公司
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立足新起点·开创新局面

STAND AT A NEW STARTING POINT · BREAK NEW GROUND

COMPANY INTRODUCTION

企业简介

常州市奇隆建筑机械设备有限公司,是集产品的研发、生产、销售、服务等一体的综合型企业。公司总部位于上海南翔工业园区,旗下拥有上海爱隆建筑设备结构件有限公司创建于1998年、常州风驰机械有限公司、易畅流体科技(常州)有限公司、江苏茂泰管业科技有限公司等4个生产型企业。

公司生产的钢筋滚轧直螺纹机床与连接套筒及铁路隧道锚杆产品质量达到国内领先水平。

公司总占地面积达20000平方米、建筑面积12000平方米,现有员工100余人,各类技术人员30余人。拥有加工中心、数控车床、炮塔式铣床、立式钻床、数控切管机床、全自动攻丝机、穿孔机、冷轧管机、矫直机、等各种加工设备200余台,年产各类型连接套筒5000万只,各类型无缝钢管10000吨,具有雄厚的技术和经济实力。

公司坚持贯彻以人为本、知能善任的方针,本着选拔德才兼备人力资源的原则,着眼于企业长远发展,实施“人才强企”战略,通过各种形式的专家专业培训,员工每年参加培训的时间累计达一个月,放手让一切生活、劳动、知识、技术、管理和资本的活力竞相迸发,实现企业和人才的双赢。

Changzhou Qilong Construction Machinery Equipment Co., Ltd. is a comprehensive enterprise that integrates product research and development, production, sales, and service. The company is headquartered in Nanxiang Industrial Park, Shanghai, and has four production-oriented enterprises: Shanghai Ailong Construction Equipment Structural Parts Co., Ltd., founded in 1998, Changzhou Fengchi Machinery Co., Ltd., Yichang Fluid Technology (Changzhou) Co., Ltd., and Jiangsu Maotai Pipe Industry Technology Co., Ltd.

The quality of the steel bar rolling straight thread machine tool, connecting sleeve, and railway tunnel anchor rod products produced by the company has reached the leading level in China.

The company covers a total area of 20000 square meters and a building area of 12000 square meters. It currently has more than 100 employees and more than 30 technical personnel of various types. We have more than 200 processing equipment, including machining centers, CNC lathes, turret type milling machines, vertical drilling machines, CNC pipe cutting machines, fully automatic tapping machines, piercing machines, cold rolling pipe machines, straightening machines, etc. We have an annual production of 50 million connecting sleeves of various types and 10000 tons of seamless steel pipes of various types, with strong technical and economic strength.

The company adheres to the policy of putting people first and being knowledgeable, capable, and responsible. Based on the principle of selecting human resources with both morality and talent, and with a focus on the long-term development of the enterprise, it implements the strategy of "strengthening the enterprise with talent". Through various forms of expert professional training, employees participate in training for a cumulative month every year, allowing all aspects of life, labor, knowledge, technology, management, and capital to burst forth, achieving a win-win situation for the enterprise and talents.

CORPORATE CULTURE

企业文化

卓越·创新·诚信

团结·专业·效率

▶▶▶ EXCELLENCE
INNOVATION
INTEGRITY
UNITY
PROFESSIONALISM
EFFICIENCY



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Production Workshop
生产车间



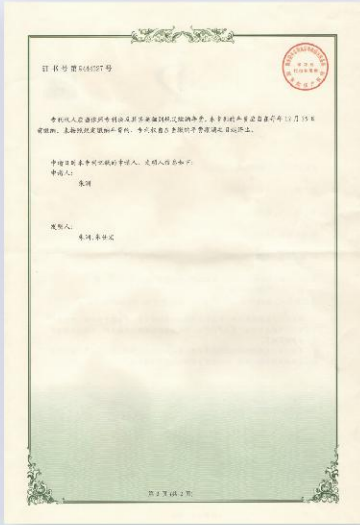
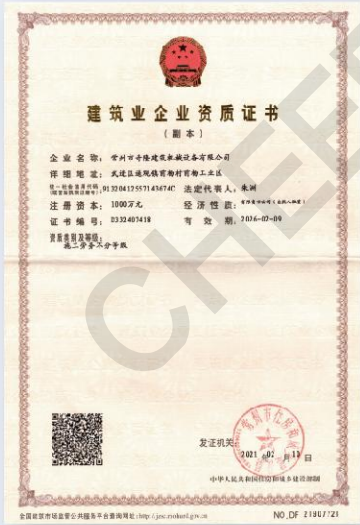
Production Workshop
生产车间



Qualification Certificate
资质证书

- ◆ 公司是住房和城乡建设部建设材料采购平台入库企业、中国建筑科学研究院产品认证企业
The company is a repository enterprise for the Ministry of Housing and Urban Rural Development construction material procurement platform, and a certified enterprise for the China Academy of Building Research product
- ◆ 2010 年在上海市质量监督部门通过企业产品标准备案 In 2010, it was registered as an enterprise product standard by the quality supervision department in Shanghai
- ◆ 2011 年通过中国建科院审核并颁发产品认证企业证书 In 2011, it passed the China Academy of Building Research review and was awarded a product certification enterprise certificate
- ◆ 2013 经国家建筑工程质量监督检验中心检测（型式检验与抗疲劳试验等），产品质量全部达到 JGJ107-2013《钢筋机械连接通用技术规程》I 级标准。In 2013, through the National Center for Quality Inspection and Test of Building Engineering (type inspection and fatigue resistance test, etc.), the product quality all met the Class I standard of JGJ107-2013 Technical Specification for Mechanical Splicing of Steel Reinforcing Bars
- ◆ 2016 年通过三体系（质量、环境、安全）管理认证 Passed ISO9001/ISO45001/ISO14001 management certification in 2016
- ◆ 2017 年编制发布《剥肋滚轧直螺纹钢筋接头》企业标准 In 2017, the enterprise standard for rib stripping and rolling straight threaded steel bar joints was formulated and released
- ◆ 2020 年中国工程建设标准化协会《钢筋直螺纹连接套筒》编制组成员 Member of the drafting group for "Straight threaded couplings for steel rebar splicing" of the China Engineering Construction Standardization Association in 2020
- ◆ 2021 年中国工程机械工业协会会员单位 In 2021, China Construction Machinery Association, CCMA member unit



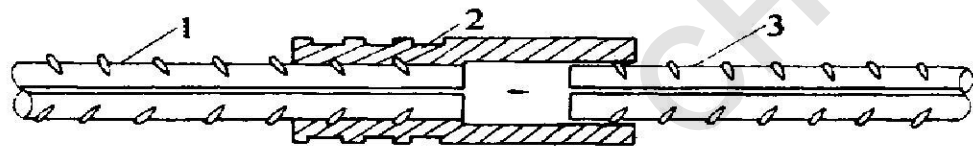




钢筋直径 Rebar Dia (mm)	外径 Out Dia (mm)		长度 L (mm)	
	钢筋强度级别 Rebar Strength Level≤400	钢筋强度级别 Rebar Strength Level 500	钢筋强度级别 Rebar Strength Level≤400	钢筋强度级别 Rebar Strength Level 500
12	18	19	28	32
14	21	22.5	32	36
16	24	25.5	36	40
18	27	28.5	41	46
20	30	31.5	45	50
22	32.5	34.5	49	54
25	37	39.5	56	62
28	41.5	44	62	68
32	47.5	50.5	70	76
36	53	56.5	78	84
40	59	62.5	86	92
50	74	78	106	112

parallel threaded coupler for splicing rebar with rib stripped before rolling of threads

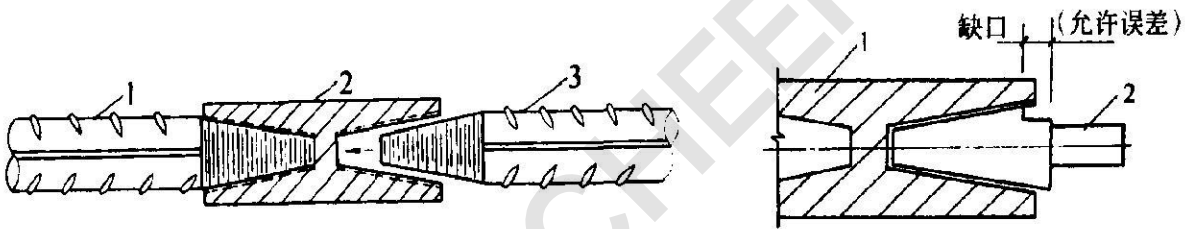
Cold Extrusion Press Connection
冷挤压钢筋套筒



钢筋套筒挤压连接 Couplers for rebar squeeze connection diagram
1- 已挤压的钢筋 squeezing rebar; 2- 钢筋套筒 Couplers for rebar; 3- 未挤压的钢筋 original rebar

规格 MODEL	长度 L(mm)	外径 OUT DIA (mm)	壁厚 THK (mm)	单重 W (kg)
Φ16	100	30	4.5	0.28
Φ18	118	34	5.7	0.47
Φ20	120	36	6	0.53
Φ22	132	40	6.8	0.74
Φ25	150	45	7.5	1.04
Φ28	168	50	8	1.45
Φ32	192	55	9	2
Φ36	216	63	10	2.83
Φ40	240	70	11	3.84

Taper Threaded Coupler
锥螺纹钢筋套筒



钢筋直径 Dia of Rebar	外径 Outer Dia	长度 Length(mm)	H1	H2	螺距 Thread(M*T)
Φ16	24	65	30	30	16*2.5
Φ18	27	75	35	35	18*2.5
Φ20	29	85	40	40	20*2.5
Φ22	31	90	43	43	20*2.5
Φ25	35	95	45	45	25*2.5
Φ28	39	105	50	50	28*2.5
Φ32	44	115	55	55	32*2.5
Φ36	49	125	60	60	36*2.5
Φ40	54	135	65	65	40*2.5(3)
Φ50	69	150	70	70	50*2.5(3)

Upset forging type
镦粗直螺纹套筒



钢筋直径 Rebar Dia (mm)	外径 Out Dia(mm)	内径 In Dia(mm)	长度 L(mm)	螺纹规格 Thread(mm)
12	22	11.9	30	M14*2
14	24	13.9	34	M16*2
16	26	17.4	40	M20*2.5
18	29	19.4	44	M22*2.5
20	32	20.9	48	M24*3
22	36	23.9	52	M27*3
25	40	26.3	60	M30*3.5
28	44	29.3	66	M32*3.5
32	50	31.8	72	M36*4
36	56	34.8	80	M39*4
40	62	40.3	90	M45*4
国际标准 international standard				

Parallel Threaded Coupler For Splicing Rebars With Threads Roll On To Rebar End
直接滚轧直螺纹套筒



钢筋直径 Rebar Dia (mm)	外径 Out Dia (mm)		长度 L (mm)	
	钢筋强度级别		钢筋强度级别	
	Rebar Strength Level≤400	Rebar Strength Level 500	Rebar Strength Level≤400	Rebar Strength Level 500
12	18.5	19.5	28	32
14	21.5	23	32	36
16	24.5	26	36	40
18	27.5	29	41	46
20	30.5	32	45	50
22	33	35	49	54
25	37.5	50	56	62
28	42	44.5	62	68
32	48	51	70	76
36	53.5	57	78	84
40	59.5	63	86	92
50	74	78.5	106	112

One-touch Quick Rebar Coupler
快速连接钢筋套筒



尺寸 Size	外径 * 长度 Out Dia*Length (mm)	重量 Net Weight (kg)
16mm	36*100	0.52
19mm	41*112	0.69
22mm	46*119	0.89
25mm	52*128	1.25
29mm	59*141	1.62
32mm	65*161	2.39

Bolted quick Rebar Coupler
螺栓式钢筋套筒



钢筋尺寸 Bar	外径 Outside(mm)	长度 Length (mm)	螺栓数量 Bolt Qty	螺栓尺寸 Bolt Size	重量 Net Weight (kg)
12mm	35	127	6	M14	0.616
16mm	40	159	6	M14	0.921
20mm	45	191	8	M14	1.42
22mm	50	273	10	M16	2.32
25mm	55	311	10	M16	3.511
32mm	65	396	10	M21	5.96

Weldable Connection Steel Coupler
可焊型钢筋套筒



外径 Out Dia(mm)	长度 L(mm)	压板尺寸(外径 * 厚度) Plate Size(Out Dia*In Dia*Thickness)mm	套筒净重 Coupler N.W.(Kg)	压板净重 N.W. of Plate(Kg)
51	103	76*76*1.5	1.14	0.07
44.5	90	76*76*1.5	0.75	0.07
38	76	51*51*1.5	0.44	0.03
31.8	64	51*51*1.5	0.25	0.03
28.6	54	51*51*1.5	0.18	0.03
25.4	52	51*51*1.5	0.14	0.03
22.2	43	51*51*1.5	0.1	0.03
Compliant with American ACI-318British BS4449Europe AFCAB				

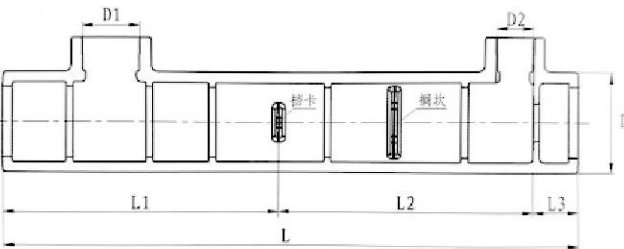
Male And Female Half Thread Half Extrusion Press Steel Coupler
公母半螺纹半挤压套筒



尺寸 Size	公 / 母 Male/Femal	外径 Out Dia(mm)	长度 Length(mm)	重量 Net Weight (kg)
16mm	F M	28	77	0.42
20mm	F M	35	94	0.88
25mm	F M	45	114	1.69
32mm	F M	55	148	3.18
40mm	F M	70	182	6.34

Whole Grout Sleeve

全灌浆套筒



全灌浆套筒 Whole Grout Sleeve								
型号 Model	连接钢筋公称直径 Noninal dia(mm)	规格尺寸 Standard sizes (mm)						
		L	L1	L2	L3	D	D1	D2
GTZQ4 12	12	250	120	108.5	21.5	44	25	16
GTZQ4 14	14	280	135	123.5	21.5	46	25	16
GTZQ4 16	16	310	150	138.5	21.5	48	25	16
GTZQ4 18	18	350	170	158.5	21.5	50	25	16
GTZQ4 20	20	37	180	168.5	21.5	52	25	16
GTZQ4 22	22	410	200	188.58	21.5	54	25	16
GTZQ4 25	25	450	220	208.5	21.5	58	25	16
GTZQ4 28	28	505	250	233.5	21.5	62	25	16
GTZQ4 32	32	570	280	268.5	21.5	66	25	16
GTZQ4 32Q	32	650	320	308.5	21.5	75	25	16
GTZQ4 36	36	650	320	308.5	21.5	75	25	16
GTZQ4 40	40	810	405	362.5	21.5	95	17.5	17.5

Half Grouting Sleeve

半灌浆套筒



半灌浆套筒 Grout Sleeve With Nongrouting End						
型号 Model	连接钢筋公称直径 Noninal Dia(mm)	规格尺寸 Standard Sizes (mm)				
		L	D	L1	D1	D2
GTZB4 12/12	12	140	112	24	13	36
GTZB4 14/14	14	157	125	24	14.7	38
GTZB4 16/16	16	174	150	30	16.5	40
GTZB4 18/18	18	193	160	31	19	42
GTZB4 20/20	20	206	168	33.5	21	44
GTZB4 22/22	22	231	185	39	23	48
GTZB4 25/25	25	259	212	43	26	53
GTZB4 28/28	28	288	238	48	29	61

Other rebar coupler
其它套筒



带锁母套筒 locking thread coupler



套筒锁母 Locknut

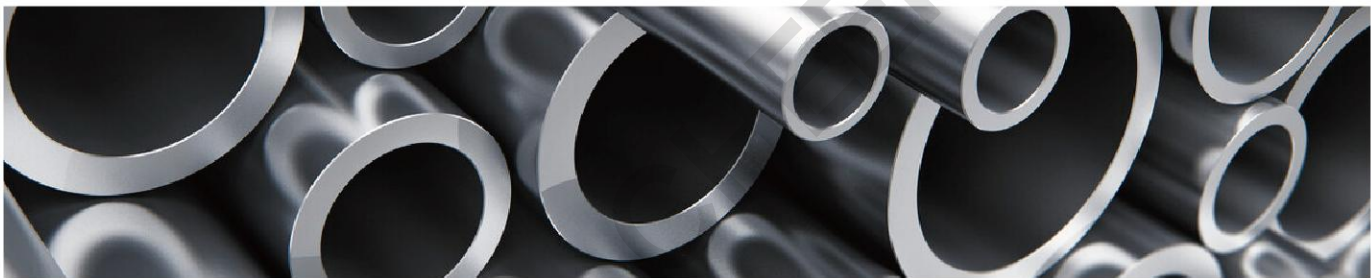


变径套筒 reducing rebar coupler



环氧树脂套筒 Epoxy rebar coupler

Seamless Steel Tubes
无缝钢管



牌号 Brand	交货状态 Delivery Status											
	+C ^a		+LC ^a		+SR			+A ^b		+N		
	R _m MPa	A %	R _m MPa	A %	R _m MPa	R _{eH} MPa	A %	R _m MPa	A %	R _m MPa	R _{eH} ^e MPa	A %
	不小于									-	不小于	
10	430	8	380	10	400	300	16	335	24	320-450	215	27
20	550	5	520	8	520	375	12	390	21	440-570	255	21
35	590	5	550	7	-	-	-	510	17	≥460	280	21
45	645	4	630	6	-	-	-	590	14	≥540	340	18
25Mn	650	6	580	8	580	450	10	490	18	-	-	-
Q355B	640	4	580	7	580	450	10	450	22	490-630	355	22
Q420B	750	4	620	8	690	590	12	520	22	550-700	425	22
25CrMo	720	4	670	6	-	-	-	-	-	-	-	-
42CrMo	720	4	670	6	-	-	-	-	-	-	-	-

注：R_m——抗拉强度，R_{eH}——上屈服强度，A——断后伸长率。

受冷加工变形程度的影响，屈服强度非常接近抗拉强度，因此，推荐下列关系式计算：

——+C 状态：R_{eH}≥0.8R；

——+LC 状态：R_{eH}≥0.7R_{m0}。

推荐下列关系式计算：R_{eH}≥0.5R_{m0}。

外径不大于 30 mm 且壁厚不大于 3mm 的钢管，其最小上屈服强度可降低 10 MPa。

Hollow Rockbolt

中空锚杆



锚杆类型 Type	公称直径 Nominal Dia(MM)	下屈服力 Yield Force Fpo. 2(kN)	最大力 Maximum Force F(KN)	最大力总延伸率 Maximum Force Totalelongation(Aet)
中空锚杆 Hollowrockbolt	25	≥130	≥180	≥5%
	32	≥230	≥290	
	38	≥330	≥440	
预应力中空锚杆 Prestress Hollow Rockbolt	25	≥150	≥200	
	32	≥280	≥360	
自钻式中空锚杆 Self- drilling Hollow	38	≥400	≥500	
	51	≥630	≥800	

Sleeve Squeezing Machine For Rebars

钢筋套筒挤压机



产品用途：用于将特制钢套筒挤压变形而使钢筋与套筒要和连接成一体的专用设备。

组成：钢筋挤压连接机由超高压电动液压泵、高压油管和钢筋挤压连接钳、挤压模具和安装工具共同组成，钢筋挤压连接技术的优点：钢筋挤压连接机集成了很多先进的产品和部件，并且在产品易用性方面进行了极大的改进和创新,使该产品具备结构紧凑、使用方便。

Product use: It is used to squeeze and deform the special steel sleeve and make the steel bars and the sleeve that is connected into a dedicated equipment.

Composition: The reinforced squeezing connector is composed of ultra -high -voltage electric hydraulic pumps, high -voltage oil pipes and reinforcement squeezing connection pliers, extruded molds and installation tools. The products and parts of the product have greatly improved and innovated in terms of product ease of use, so that the product has compact structure and convenient use.

Rebar Thread Rolling Machine

钢筋直螺纹滚丝机



- Cheeron GX-50 型钢筋滚丝机用于钢筋剥肋,再在钢筋上进行滚螺纹加工。
- 可加工直径为 12-50mm、HRB400、HRB500、HRB600 钢筋等,最大螺纹加工长度为 120mm。
- 它的易损配件有滚丝轮、剥肋刀片。
- The Cheeron GX-50 steel bar rolling machine is used for steel bar rib stripping and thread rolling processing on the steel bars.
- Can process steel bars with diameters ranging from 12-50mm, HRB400, HRB500, HRB600, etc., with a maximum thread processing length of 120mm.
- Its vulnerable parts include thread rollers and rib stripping blades.

名称 Mechanism	参数 Parameter
型号 Model	GX-50
电机功率 Motor Power	5.5KW/7.5kw
牙型角 Thread Angle	60°/75°
主轴转速 Spindle Speed	48-82rpm
尺寸 Dimension	1*0.7*0.9M
认证 Certification	ISO9001-2008
钢筋直径 Rebar Diameter	12-50MM
电压 Voltage	380V 50Hz
螺距 Thread Pitch	1.75-3.5MM
最大螺纹长度 Max Thread Length	120MM
净重 Net Weight	290KG
包装 Package	Wooden Case

Reinforcing Steel Bar Upsetter Machine

钢筋墩粗机



墩粗压直螺纹连接技术,是用专用的墩粗机预先将钢筋端部待加工螺纹段墩粗,使其加工墩粗部位直径增粗至大于母材直径。然后用配套专用的套丝机对其墩粗部分进行套丝加工,再用同规格套筒将加工好的两根钢筋头部套丝螺纹部位用扳手进行连接,即完成所谓钢筋的对接。

Upsetting straight thread connection technology is a specialized upsetting machine that pre upsets the threaded section at the end of the steel bar to be processed, increasing the diameter of the processed upsetting part to be greater than the diameter of the base material. Then, use a dedicated threading machine to thread the upsetting part, and then use a socket of the same specification to connect the threaded parts of the two processed steel bars with a wrench, completing the so-called steel bar docking.

设备特点:

- (1) 将钢筋端部横截面积扩大 15-20%,使加工成螺纹的底径不小于钢筋母材的直径,可 110% 发挥钢筋抗拉强度。
- (2) 加工钢筋范围广,可加工符合 GB1499 或 BS4449 (CS2) 标准的Φ16-Φ50 各种规格的钢筋。

Machine Features:

- (1) Expanding the cross-sectional area of the end of the steel bar by 15-20%, so that the bottom diameter of the processed thread is not less than the diameter of the steel bar base material, can exert 110% of the tensile strength of the steel bar.
- (2) The range of steel reinforcement processing is wide, and it can process steel that meets the GB1499 or BS4449 (CS2) standards Φ 16-Φ 50 steel bars of various specifications.

Fully Automatic Tooth Tapping Machine

全自动攻丝机



攻丝机就是用丝锥加工内螺纹的一种机床，它是应用最广泛的一种内螺纹加工机床。按国家机械行业标准，攻丝机系列构成分为：台式攻丝机 -- 半自动台式攻丝机、立式攻丝机、卧式攻丝机。

A tapping machine is a type of machine tool that uses a tap to process internal threads, and it is the most widely used type of internal thread processing machine. According to the national machinery industry standards, the tapping machine series is divided into desktop tapping machines - semi-automatic desktop tapping machines, vertical tapping machines, and horizontal tapping machines.

名称 Mechanism	参数 Parameter
主轴行程 Spindle stroke	150MM
双轴转速极数 Double axis speed pole number	3
双轴转速范围 Dual axis speed range	240-480R/MIN
主电机功率 ain motor power	4KW/1440R/MIN
液压站电机功率 Hydraulic station motor power	5.5KW/7.5KW
液压压力范围 Hydraulic pressure range	0.34-045Mpa
外形尺寸 External dimensions	750*1100*1800MM
重量 weight	800KG

Cnc Pipe Cutting Machine

数控切管机



Main Uses And Characteristics Of Machine Tools:

1. This machine tool is suitable for cutting various pipe materials, especially suitable for bearing enterprises and steel bars Mass production of connecting sleeves. This machine tool adopts PLC control and the most advanced dual servo system The positioning and cutting of the service system enable multiple pieces to be cut at once, with high precision and efficiency, The machine tool detects each cutting task, which compensates for the previous machine tool's reliance on oil, rust, and bending materials The disadvantage of insufficient or rebound after material feeding is to prevent the occurrence of waste products.
2. This machine tool has functions such as tool breakage, no material alarm, and counting pause.
3. This machine tool adopts a cross roller quenching guide rail, which has good rigidity and rolling friction Features such as small size and long lifespan.
4. Both vertical and horizontal feed systems adopt dual servo systems, which have fast response and stable feed Specific characteristics.
5. The machine tool adopts a frequency converter to control the spindle speed, which can cut different pipes, Get the best cutting effect.

主要参数	AL-G50	AL-G60	AL-G80	AL-G100	AL-G120	AL-G160
切削直径范围 (mm)	Φ15-Φ50	Φ25-Φ63	Φ47-Φ80	Φ68-Φ100	Φ80-Φ120	Φ120-Φ160
最大加工长度 (mm)	100	150	150	180	180	180
主轴最高转速 (RPM)	1776	1152	1152	864	864	816
轴向进给速度 (m/min)	0-6	0-6	0-6	0-6	0-6	0-6
径向进给速度 (m/min)	0-12	0-12	0-12	0-12	0-12	0-12
主电机功率 (kw)	4	4	4	5.5	5.5	7.5
滚压压力 (mpa)	3	3	3	3	3	4
外形尺寸 (mm)	1980x1000x1500	1980x1000x1500	2080x1100x1500	2180x1200x1500	2380x1300x1500	2580x1400x1500
机床重量 (kg)	1000	1000	1200	1380	1650	1900

Cnc Cylindrical Turning Machine
数控外圆车削机床



Usage:

- Mainly using short pipe outer circle cutting and chamfering to achieve automatic loading and unloading, various data can be set and adjusted, especially suitable for processing steel bar connecting sleeves in construction.
- ★The machine tool is controlled by PLC, and the processing parameters can be easily changed through the text on the operation panel, enabling the electrical system to be linked and achieve automation. It has the characteristics of good stability, high reliability, high processing tightness, and high efficiency.
 - ★The movement of the machine tool support plate is controlled by a stepper motor, with stable feed speed and a fixed feed rate. It also has the characteristics of slow feed and fast retreat, which not only ensures the control of feed speed, but also saves a lot of feed time and improves work efficiency. At the same time, it can also conveniently and flexibly adjust various parameters of feed and retreat according to needs. Therefore, such equipment is convenient, practical, and adaptable.
 - ★ The machine tool does not require manual operation for loading and unloading, and the spindle realizes non-stop rotation for loading and unloading, ensuring consistent turning speed each time, as well as ensuring tool and accuracy.

名称 Mechanism	参数 Parameter
加工钢管外径 Processing steel pipe outer diameter	Φ10-Φ60mm
工作节拍 Work rhythm	8-15pcs/min
产品车削误差 public errand	≤0.1mm
主轴速度 Spindle speed	1980rpm
电机速度 motor speed	1440rpm
电机功率 motor power	3kw
横向工进速度 Horizontal working speed	6000-10000mm/min
横向、纵向快进速度 Horizontal and vertical fast forward speed	20000-35000mm/min
输入气源压力 Input air source pressure	4-5.5kg/cm
输入气源流量 Input air flow rate	350L/min
机床外形尺寸 External dimensions	1500x1200x1700
机床重量 weight	600kg

Related Accessories
相关配件

中空锚杆配件Hollow Rockbolt Accessory



钢筋直螺纹滚丝机配件Rebar Thread Rolling Machine Accessory



钢筋套筒保护帽 Rebar Coupler Protective Cap



直螺纹钢筋套筒的实例应用

螺纹钢筋的连接经历了绑扎、搭接焊、气压焊、电渣压力焊等钢筋连接手段。这些传统的连接方法需要较多的安装机具和较复杂的操作，且连接强度低，不能保证质量，难以适应高空作业、快速施工和保持文明施工的现场环境。

钢筋机械连接是指通过连接件的机械咬合作用或钢筋端面的承压作用，将一根钢筋中的力传递至另一根钢筋的连接方法。这类连接方法是我国近 10 年来陆续发展起来的，它具有以下优点：

- 接头质量稳定可靠，不受钢筋化学成分的影响，人为因素的影响也小；
- 操作简便，施工速度快，且不受气候条件影响；
- 无污染、无火灾隐患，施工安全等。

在粗直径钢筋连接中，钢筋机械连接方法有广阔的发展前景。

The connection of threaded steel bars has undergone various methods such as binding, lap welding, gas pressure welding, and electroslag pressure welding. These traditional connection methods require a lot of installation equipment and complex operations, and the connection strength is low, which cannot guarantee quality and is difficult to adapt to high-altitude operations, rapid construction, and maintaining a civilized construction site environment.

Mechanical connection of steel bars refers to the connection method of transferring the force from one steel bar to another steel bar through the mechanical interlocking effect of the connector or the pressure bearing effect of the steel bar end face. This type of connection method has been developed gradually in China in the past decade, and it has the following advantages:

The quality of the joint is stable and reliable, not affected by the chemical composition of the steel reinforcement, and the influence of human factors is also small;

Easy to operate, fast construction speed, and not affected by climate conditions;

No pollution, no fire hazards, construction safety, etc.

In the connection of large-diameter steel bars, the mechanical connection method of steel bars has broad development prospects.



接头表面切割平整



HRB400E $\Phi 28$ 钢筋
(1)、采用复式合格的 HRB400E $\Phi 28$ 钢筋



(2)、按接头的外形尺寸加工 $\Phi 28$ 钢筋剥肋直径为 26.6，实际剥肋直径约为 27.5



(3)、按接头的外形尺寸加工 $\Phi 28$ 钢筋剥肋长度为 32.5，实际剥肋长度约为 35



(4)、按接头的外形尺寸加工 $\Phi 28$ 钢筋接头扣数为 (4)10 扣，实际有效扣数为 11 扣按接头的外形尺寸加工 $\Phi 28$ 钢筋接头螺距为 3mm，实际螺距为 3mm。



(5)、检查 $\Phi 28$ 套筒外观尺寸，工艺标准为接头长度 65(允许偏差 +2mm)、接头外径为 41(允许偏差为 ± 0.5 mm)，实际接头长度为 :65mm、接头外径为 41.1mm



(6)、按照 JGJ107-2013 中 6.2.1 中直螺纹接头安装时最小拧紧扭矩值 $\Phi 28:320(\text{N}\cdot\text{m})$ 实际扭矩值为 :330($\text{N}\cdot\text{m}$)



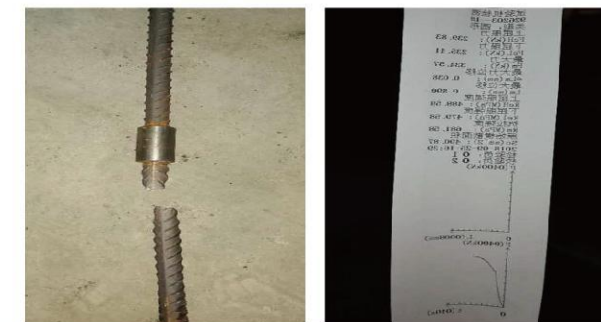
(7)、接头拧紧后丝扣允许外露 1~2 扣，实际外露 1.5 扣



(8)、完成用于工艺评定的试拉件，在监理封存，待送检。



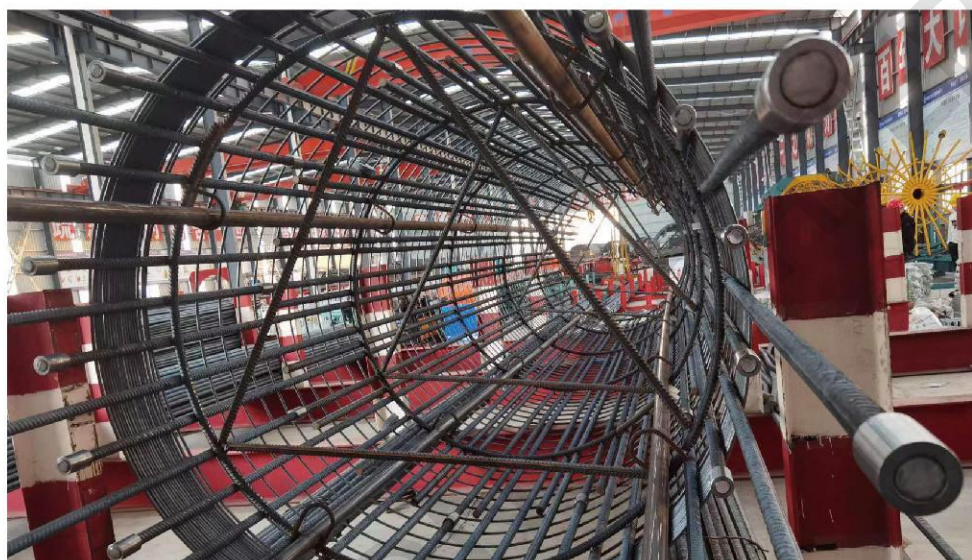
(9)、经复试检验接头等级达到 | 级，详见复试报告编号 :A(3)2018-00918。



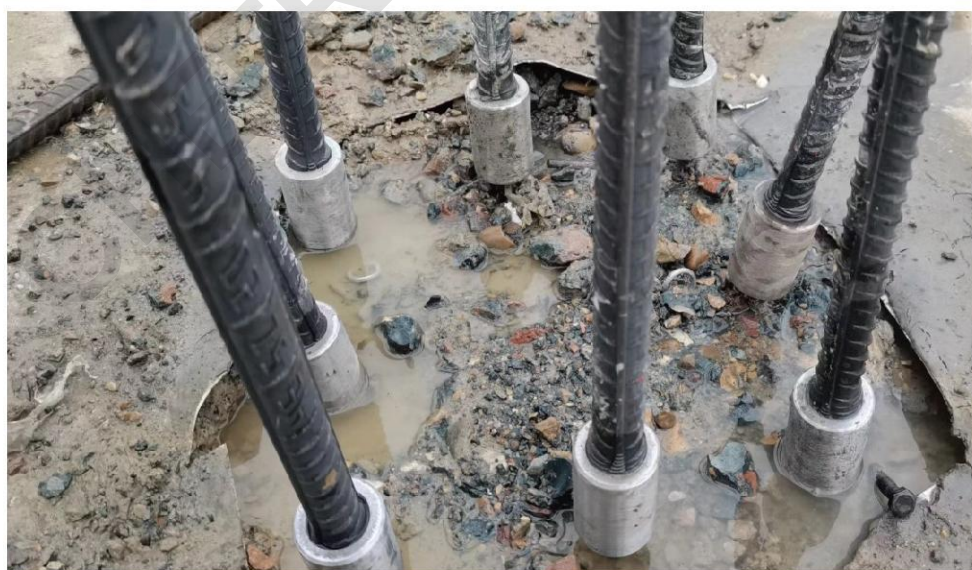
滚压直螺纹套筒的实例应用

该技术适用于直径为 12mm-50mm 的三、四、五级钢筋的任意方向和位置的连接，可应用于要求充分发挥钢筋强度或对接头延性要求高的各类重要结构中，如机场、地铁、桥梁、隧道、核电站、水电站等基建项目之中。

This technology is suitable for the connection of grade 3, 4, and 5 steel bars with a diameter of 12mm-50mm in any direction and position. It can be applied to various important structures that require full utilization of steel bar strength or high requirements for joint ductility, such as airports, subways, bridges, tunnels, nuclear power plants, hydropower stations and other infrastructure projects.



钢筋笼的连接 Connection of steel cage



灌桩钢筋的连接 Connection of filled steel bars

中空锚杆应用领域 Hollow Rockbolt application Range



边坡 Side Slope



隧道 Tunnel



大坝 Dam



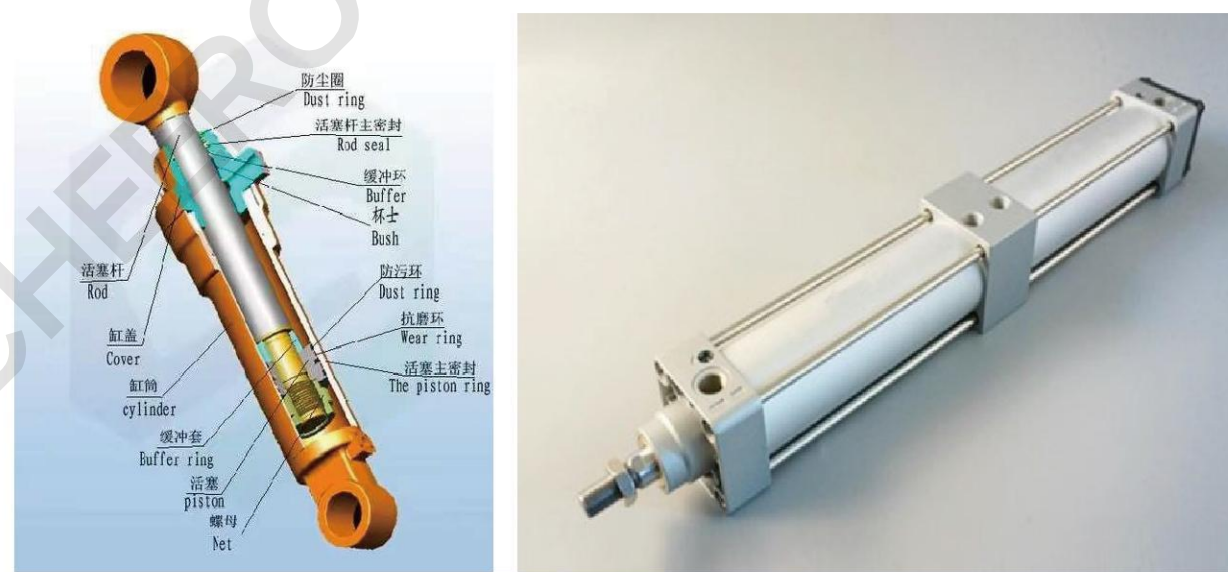
煤矿 Colliery



无缝钢管的实例应用

无缝钢管的应用十分广泛,主要有轴承管 (GCr15、9Cr18、G20CrMo)、流体输送管锅炉厂、汽车、航天航空、军工、建筑工程 (中空锚杆、连接套筒)、机械加工 (油缸、气缸) 等。

The application of seamless steel pipes is very extensive, mainly including bearing pipes (GCr15, 9Cr18, G20CrMo), fluid conveying pipes in boiler factories, automotive, aerospace, military, construction engineering (hollow anchor rods, connecting sleeves), mechanical processing (oil cylinders, cylinders), etc.





施工单位	项目名称
中交四公局	德昌高通/张承高速
中交一航局	港珠澳大桥
中交二航局	赤石特大桥/荣乌高速黄河特大桥/芙蓉大桥
中交三航局	哈大客专
中交四航局	京沪高铁/厦蓉高速/贵广铁路/平阳高速西安大明宫万达广场
中建一局	成都物联网高端核心制造项/沈阳奥体中心
中建二局	田湾核电/哈大客专
中建三局	武汉绿地中心 天津高银117 国金中心/成都双流国际机场T2航站楼
中建四局	哈大客专/金控中心
中建五局	长春美凯龙/纳黔高速
中建六局	哈大客专/石武客专
中建七局	沪蓉西高速云万段/沈阳地铁
中建八局	保定未来石商业综合体/航天科技大厦哈大客专
中铁二十二局	黄韩侯铁路/沈阳地铁/哈尔滨地铁
中铁二十三局	沪落西高速恩利段/成都天府广场/九江大桥

施工单位	项目名称
中铁二十四局	宁杭客专京杭大运河特大桥/白龙线铁路工程 吉莲高速
中铁大桥局	九江长江大桥/重庆银盘电站乌江大桥/京杭铁路客运专线
中铁电气化集团	宁天城际
中铁隧道集团	京石客专石家庄隧道工程/巴达高速/沈阳地铁/成都地铁/广州地铁/西安地铁
中国路桥	浙江舟山金塘跨海大桥/青岛海湾大桥/重庆观音岩长江大桥
中港二航局	安庆长江大桥/舟山金塘跨海大桥
中港四航局	重庆李渡长江大桥/广州地铁
广大长大公路	舟山金塘跨海大桥/朱家尖大桥
中交一公局	石武客专/京沪高铁/张承高速/十天高速 宝汉高速
中交二公局	港珠澳大桥/太佳高速黄河大桥/九江长江大桥/象山港大桥
中交三公局	兴拖高速/内蒙古准兴重载高速
中交二航局	福鼎沙埕湾大桥
中交二公局	浙江玉环漩门湾大桥
中交二航局	南京浦仪公路西段A1标段
中交二公局	贵州龙里朵花大桥

施工单位	项目名称
中交二航局	南京五桥A1标
中交三航局	无锡太湖 隧道
中铁隧道局	无锡地铁3号线3、4标
中铁十七局	无锡地铁3号线2标
中铁四局	无锡地铁3号线1、16标
中铁隧道局	常州地铁2号线2标
中铁隧道局	杭州地铁5号线5标
中铁十四局	苏州地铁5号线3标
中铁四局	苏州地铁5号线2标
中交二航局	安罗黄河高速A1标
中交二公局	安罗黄河高速A2标
浙江交工	杭绍甬高速
中建三局	苏州狮山广场
中建三局	嘉善金融中心
中建三局	杭州萧山机场扩建

Business Partner
合作伙伴



伊朗/科塔尔客户来访

华润置地来访洽谈合作



黄河高速项目组来访

江苏长深高速连云港段



太湖隧道机械连接专项技能培训

武进机械商会来访交流合作

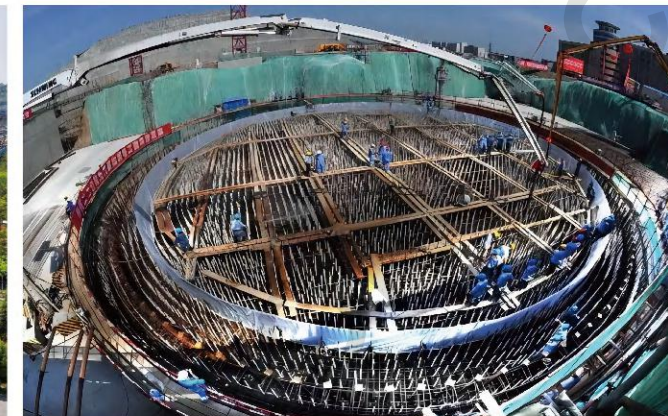


常州湖北商会来访交流

Engineering Case
工程案例



京沪高铁



秦山电站



锦屏水电站



武汉绿地中心



无锡太湖隧道





浙江玉环漩门湾大桥



嘉善金融创新中心



杭州萧山机场扩建



常州地铁2号线2标



福鼎沙埕湾大桥



苏州狮山广场



长深高速连云港段



安罗黄河高速