SHANDONG
SHENGYANG
山东圣阳机械有限公司

山东圣阳机械有限公司
SHANDONG SHENGYANG MACHINERY CO.,LTD.

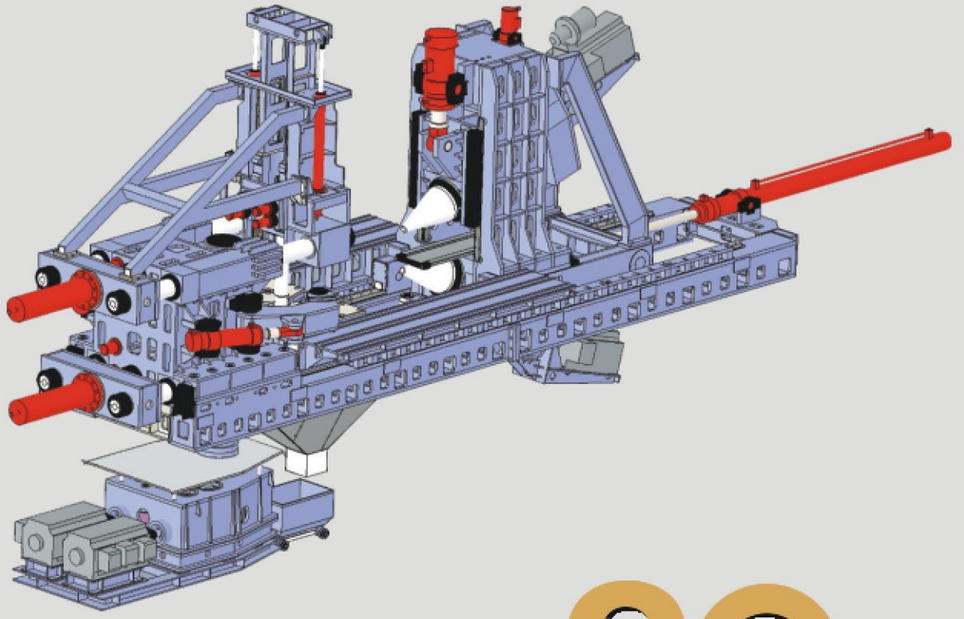
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专注辗环机研发生产20年
FOCUS ON RING ROLLING MACHINE
R & D AND PRODUCTION FOR 20 YEARS

COMPANY INTRODUCTION
企业简介





山东圣阳机械有限公司是专业从事辗环机/扩孔机研发和制造的高科技企业。经过十几年的开发创新，开发制造了具有国内领先水平的D53KS系列数控径轴向辗环机，该辗环机达到了国际先进水平，可替代进口同类产品，产品销往欧洲、亚洲等国际及国内市场。多年来公司培育了一支高尖的辗环机和锻造设备及工艺方面的优秀的研发团队，建立了完善的市场管理和营销服务网络。公司的产品设计采用了CAD、SOLDWORS、DEFORM等软件可对设备结构进行应力分析优化，对锻件产品进行工艺模拟，为用户提供理想的设备和产品工艺；公司采用了ERP管理系统，可有效减少产品的生产周期。

公司以专业化研发制造为宗旨，相继开发制造了D51A/B、D52、D53K/KA/KS四大系列50多个规格的辗环机/扩孔机，并根据用户需求设计开发了环件自动锻造生产线。其中D51A/B系列立式辗环机具有结构紧凑、占用空间小的优点，广泛应用于轴承环、汽车齿轮、法兰盘制造行业的各类环形毛坯的热辗扩工序。D52数控系列卧式径向辗环机结构先进，数字程序化控制，具有自动化程度高，生产效率高，节材、节能等优点广泛应用于大中型法兰、轴承等环件毛坯的生产；D53K/KA数控径轴向辗环机具有径向和轴向双向辗压功能；D53KS系列辗环机数控系统具有如下特点：

★输入环件及毛坯尺寸可自动生成轧制曲线；

★自动CAR方式：轧制过程根据轧制曲线自动匹配径轴向的轧制；

★操作简单：只需一个电子手轮即可完成整个轧制过程；

★新式操作台视野开阔；

★双屏显示工作状态，轧制过程数据一目了然。

该系列辗环机是加工大型无缝环件的理想设备，广泛应用于航天、航空、船舶、核电、风电、石油化工和电力能源等工业部门，已在多家企业使用并得到了用户的好评。

公司本着“以客户满意为中心”的经营服务理念，可以为客户设计开发能满足不同客户和不同产品工艺要求的辗环机、并可提供配套设备的规划、车间布置设计、初步的投资预算等工作，同时也为客户设计开发与辗环机相关的装出料机、操作机以及锻造液压机等产品。

Shandong Shengyang Machinery Co., Ltd. is a high-tech enterprise specializing in the R & D and manufacturing of ring rolling machine / reaming machine. After more than ten years of development and innovation, D53KS series CNC radial and axial ring rolling machine with domestic leading level has been developed and manufactured. The ring rolling machine has reached the international advanced level and can replace imported similar products. The products are sold to Europe, Asia and other international and domestic markets. Over the years, it has cultivated a number of excellent R&D teams in high-end ring rolling machines and forging equipment and processes, and established a perfect market management and marketing service network. The company's product design adopts CAD, SOLIDWORKS, DEFORM and other software, which can analyze and optimize the equipment structure and simulate the process of forging products, so as to provide users with ideal equipment and product process; The company's production adopts ERP management system, which can effectively reduce the production cycle of products.

Aiming at professional R&D and manufacturing, the company has successively developed and manufactured more than 50 ring rolling machines / reaming machines of D51A/B, D52 and D53K/KA/KS series, and designed and developed an automatic ring forging production line according to the needs of users. Among them, D51A/B series vertical ring rolling machine has the advantages of compact structure and small space. It is widely used in the hot rolling process of various ring blanks in the manufacturing industry of bearing ring, automobile gear and flange. D52 CNC series horizontal radial ring rolling machine has advanced structure and digital programmed control. It has the advantages of high degree of automation, high production efficiency, material saving and energy saving. It is widely used in the production of ring blanks such as large and medium-sized flanges and bearings; D53K/KA CNC radial and axial ring rolling machine has radial and axial two-way rolling function; The numerical control system of D53KS series ring rolling machine has the following characteristics:

★ the rolling curve can be automatically generated by inputting the ring and blank size;

★ automatic CAR mode: the rolling process automatically matches the radial and axial rolling according to the rolling curve;

★ simple operation: the whole rolling process can be completed with only one electronic hand wheel;

★ the new console has a wide view;

★ the working status is displayed on double screens, and the rolling process data is clear at a glance.

This series of ring rolling machines are ideal equipment for processing large seamless rings. They are widely used in aerospace, aviation, shipbuilding, nuclear power, wind power, petrochemical and power energy industries. They have been used in many enterprises and have been highly praised by users.

Based on the business service concept of "customer satisfaction as the center", the company can design and develop ring rolling machines that can meet the requirements of different customers and different product processes, and provide supporting equipment planning, workshop layout design, preliminary investment budget, etc. at the same time, it can also design and develop charging and discharging machines that are similar to ring rolling machines for customers Operating machine and forging hydraulic press.

PRODUCTION EQUIPMENT
生产装备

圣阳公司拥有高精度的数控机床和加工中心，先进的设备及检测仪器，精良的工艺以及严格完善的质量管理体系，并聚集具有专业技术精英和领先水平的科技队伍、充分利用新技术、新工艺、新材料保证产品的稳定性和可靠性。圣阳产品质量源于制造手段的先进、精品意识源于不断的创新。圣阳对每一个产品都进行严格的检测。检测员高度负责的用心溶于每一个部件中、加上最先进的检测设备和严格的科学化管理，使每一个生产的成品都经得住顾客的精心挑选。

Shengyang company owns high-precision CNC machine tool and manufacturing center, advanced equipment and detecting instrument, sophisticated technology and strict quality management system, and also we had gathered the expertise and leading technology elite team to take full advantage of new technologies, new processes ,new material to ensure the stability and reliability of our products.



•数控落地式镗床
CNC Floor Boring Machine



•数控龙门刨铣磨床
CNC gantry planing, milling and grinding machine



•数控重型卧式车床
CNC heavy horizontal lathe



•重型立式滚齿机
Heavy duty vertical gear hobbing machine

EXPERIMENTAL EQUIPMENT
理化实验设备











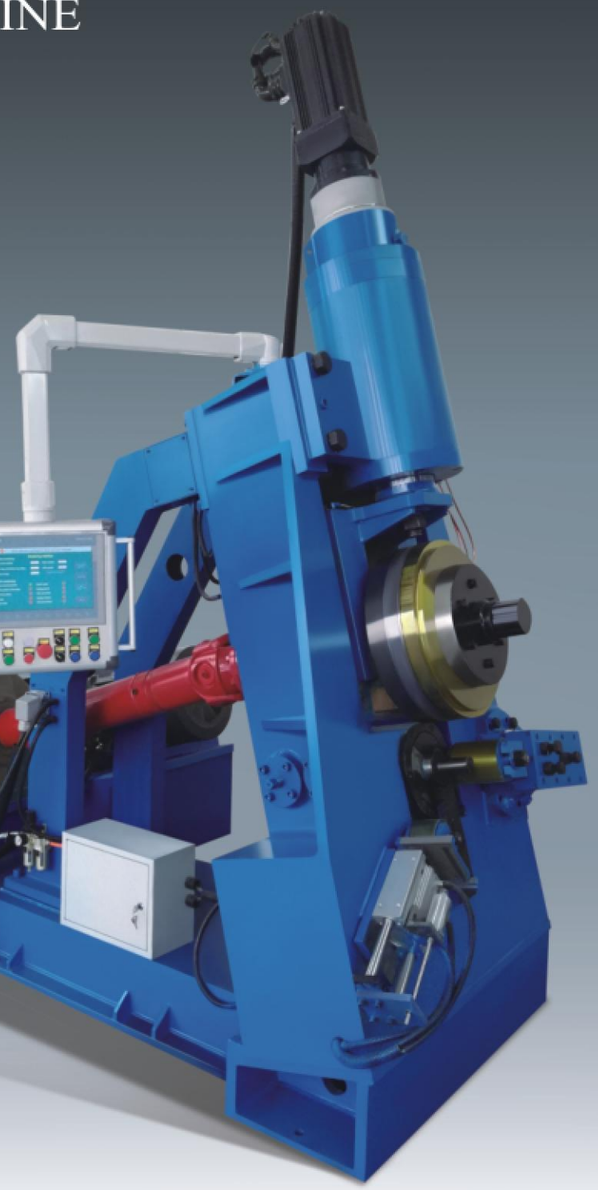


D51

系列立式辗环机
VERTICAL RING ROLLING MACHINE

辗环机是加工无缝环锻件的理想设备，如轴承、齿圈、轮箍、回转支承、法兰及航空器用高温合金环。

Ring Rolling Machine is the ideal equipment for processing of seamless forged rings, such as bearings, ring gear, tires, slewing bearings, flange and used in aircraft high-temperature alloy ring.



山东 圣阳



D51-160A立式辗环机
D51-160A VERTICAL RING ROLLING MACHINE



D51-160B立式辗环机
D51-160B VERTICAL RING ROLLING MACHINE



D51-250Q立式辗环机
D51-250Q VERTICAL RING ROLLING MACHINE



D51-250CY-B立式辗环机
D51-250CY-B VERTICAL RING ROLLING MACHINE



D51-350A立式辗环机
D51-350A VERTICAL RING ROLLING MACHINE



D51-350B立式辗环机
D51-350B VERTICAL RING ROLLING MACHINE



D51-450A立式辗环机
D51-450A VERTICAL RING ROLLING MACHINE



D51-450B立式辗环机
D51-450B VERTICAL RING ROLLING MACHINE



D51-450KY-B立式辗环机
D51-450KY-B VERTICAL RING ROLLING MACHINE

D51 系列立式辗环机
VERTICAL RING ROLLING MACHINE



D51-450KT立式辗环机
D51-450KT VERTICAL RING ROLLING MACHINE



D51-550A立式辗环机
D51-550A VERTICAL RING ROLLING MACHINE



D51-550B立式辗环机
D51-550B VERTICAL RING ROLLING MACHINE



D51-800A立式辗环机
D51-800A VERTICAL RING ROLLING MACHINE



D51-800B立式辗环机
D51-800B VERTICAL RING ROLLING MACHINE



D51-1000A立式辗环机
D51-1000A VERTICAL RING ROLLING MACHINE



D51-1000B立式辗环机
D51-1000B VERTICAL RING ROLLING MACHINE



D51-1200B立式辗环机
D51-1200B VERTICAL RING ROLLING MACHINE



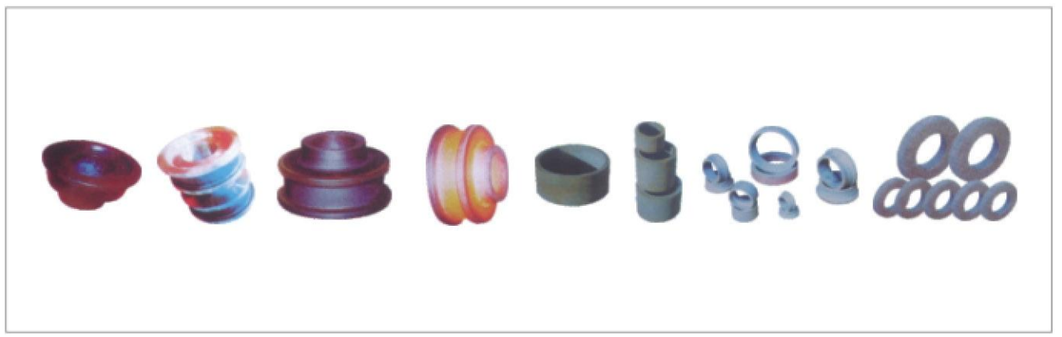
D51-1300N立式辗环机
D51-1300N VERTICAL RING ROLLING MACHINE

山东 圣阳

D51立式辗环机参数表
D51 VERTICAL RING ROLLING MACHINE SPECIFICATION

型号 Model	加工范围 O-D(mm)	最大辗压力 (KN) Max rolling force	最大辗速度 (m/s) Max rolling speed	辗压轮直径 (mm) Max roller dia	辗压轮与芯轴最小中心距(mm) Min distance between main roler and mandrel center	环高度 (mm) Ring height	油缸行程 (mm) Cylinder stroke	锥套大孔直径(mm) Large end dia Of taper sleeve	主电机功率 (KW) Main motor power	外型尺寸(mm) Measurement
160A-160B	55-160	50	2.5	360	200	40	50	70(40)	18.5	1700×1525×1700
250CY	80-250	100	2.3	500	250	60	100	60	37	2300×1625×2310
250CY-B	80-250	150	1.8	500	250	130	100	60	45	2750×1625×2310
350A	180-350	250	1.5	680	345	120	110	90	75	3200×2000×2900
350B	180-350	300	1.5	680	345	160	110	90	90	4200×2000×2910
450A	250-450	350	1.4	720	380	120	130	110	75	3200×2700×3210
450B	250-450	450	1.6	730	380	220	130	110	110	4500×2700×3210
450KT	250-500	450	1.7	740	380	160	130	110	90	4500×3600×3200
450KY-B	250-500	500	1.5	760	380	230	130	110	110	5500×3600×3200
550A	350-600	500	1.7	740	380	180	150	110	110	5000×4000×3500
550B	350-600	550	1.3	760	380	300	150	110	132	5800×4000×3500
800A	400-800	500	1.37	780	380	80	200	110	110	5500×3500×4500
800B	400-800	550	1.37	800	380	200	200	110	132	5700×3500×4500
1000A	500-1000	800	1.3	820	460	100	250	130	132	4000×3500×3900
1000B	500-1000	800	1.3	820	460	200	250	130	132	5600×3500×3900
1200A	600-1200	800	1.3	820	460	100	250	130	132	4100×3800×4000
1200B	600-1200	800	1.3	820	460	200	250	130	132	5700×3800×4000
1300N	600-1300	800	1.3	800	485	300	350	180	160	5700×3800×4200

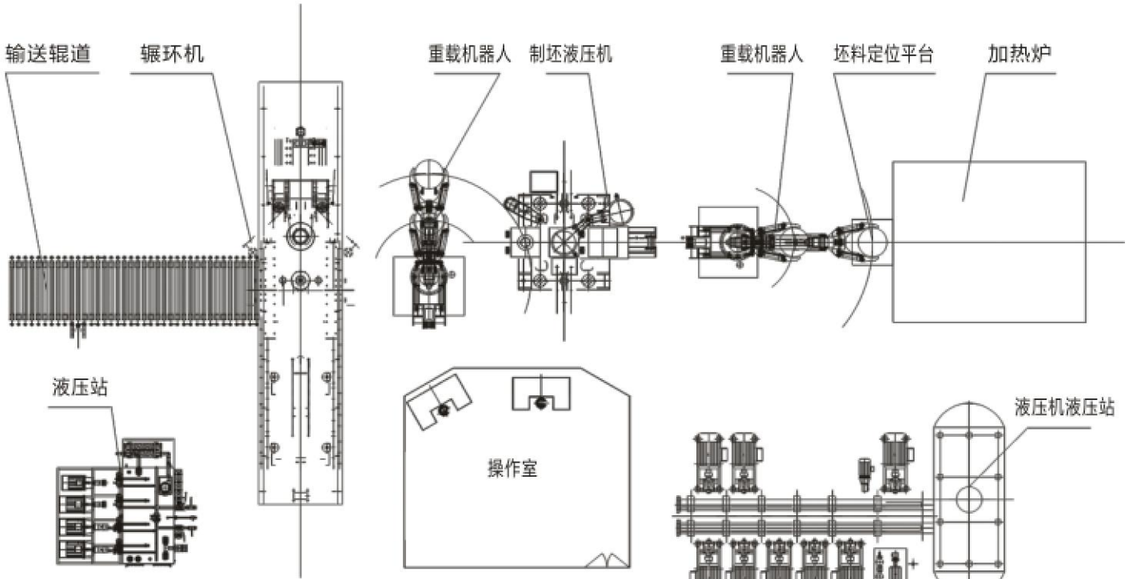
备注：如有用户要求，可提供自动系列机型。
Note: We can offer type of automatic series, if customer required.



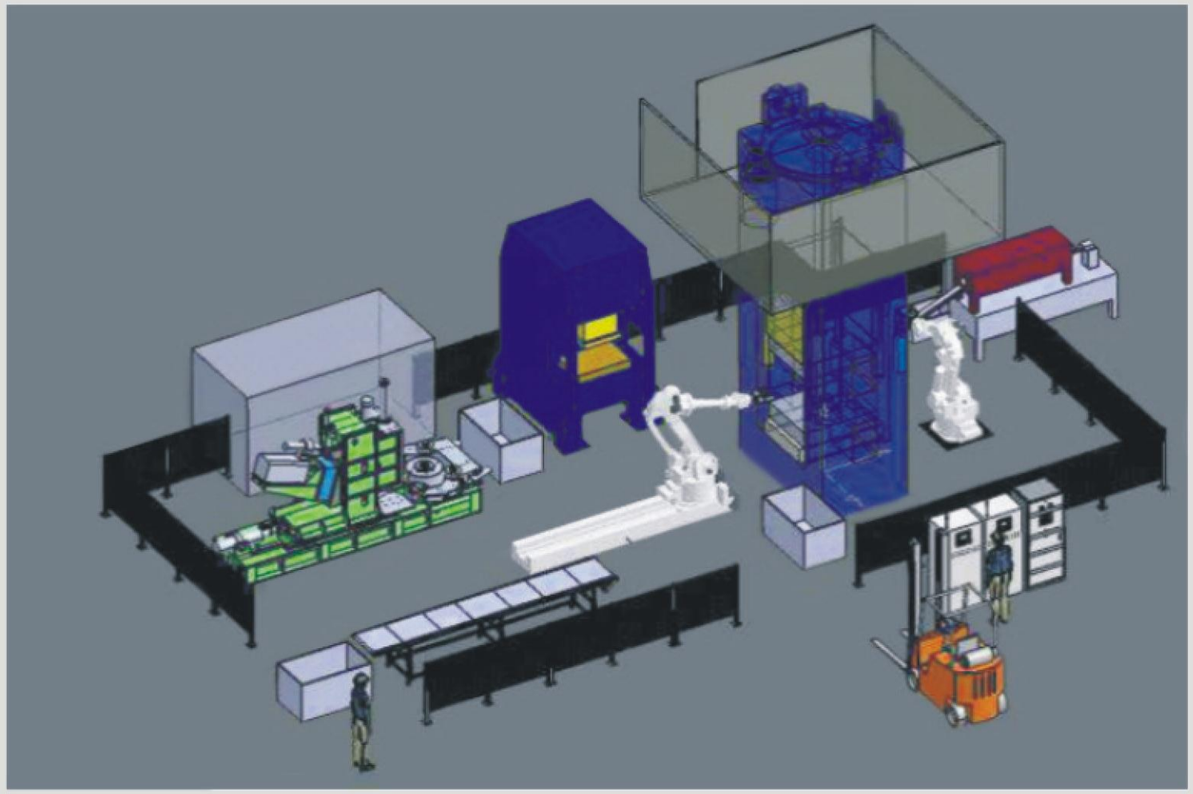
HDX

环件自动锻造生产线
AUTOMATIC FORGING RING PRODUCTION LINE

环件自动锻造生产线构成：搬运原材料的装取料机、用于开坯的油压机、坯料搬运及定位的机械手、进行环件轧制的数控径轴向辗环机，环件搬出的机械手、对环件翘曲进行矫正的矫正压机等构成。
本生产线各单机之间能够实现联动操作控制，坯料环件可自动进行输送、搬运、定位轧制、在线检测，实现了环件锻造过程自动化。
本生产线能与工厂的管理层进行联网，显示终端能对生产线的运行状态进行监控，若监控员监控到故障能通过网络通知现场的维护人员及时进行维护。



环件自动锻造生产线布置图
AUTOMATIC FORGING RING PRODUCTION LINE LAYOUT



Automatic forging ring production line consist of loading manipulator used to carrying material, hydraulic press machine used to make blank, forging manipulator used to clamp blank, radial-axial CNC ring rolling machine used to produce ring, manipulator used to unloading ring, corrective press machine used to correct warping ring.
All equipment can realize associated action, material and product can be carried, transported, located, rolled and online inspected, make automatic forging ring production line into reality. This production can be connected with management network, live broadcast on monitor, supposing malfunction happened monitor man can tell maintain man remove it in time.

D53KS (IV)

系列数控径-轴向辗环机
CNC RADIAL AXIAL RING ROLLING MACHINE




D53KS控制系统
D53KS control system





规格 Model		400	600	800	1200	1600	2000	2500	3500	4000	5000	6300	7000	8000	9000	10000	12000
加工范围 Ring parameters	外径O-D(mm)	180-400	200-600	300-800	300-1200	400-1600	400-2000	500-2500	500-3500	600-4000	600-5000	1000-6300	1000-8000	1100-8000	1100-9000	1200-10000	1500-12000
	高度H(mm)	40-100	50-250	60-250	60-300	60 – 300	60-350	80 – 400	80 – 500	80 – 600	80-700	100-1000	100-1200	100-1600	110-1600	120-1650	130-2000
机器参数 Machine parameters	径向轧制力(KN) Radial rolling force	300	600	800	1000	1250	1600	2000	2000	2500	3000	4000	5000	6300	8000	10000	16000
	轴向轧制力(KN) Axial rolling force	200	500	630	800	1000	1250	1600	1600	2000	2500	3150	4000	5000	5000	6000	8000
	辗压线速度(M/s) Linear rolling speed	0.5-1.5	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	0.5-1.5	0.5-1.5	0.5-1.5	0.5-1.5	0.5-1.5	0.5-1.5
驱动功率 Drive power	径向主电机(Kw) Motor-radial	45	132	160	250	280	2×220	2×250	2×280	2×315	2×355	2×500	2×630	2×730	2×900	2×1200	2×1800
	轴向主电机(Kw) Motor-axial	2×22	90	2×75	2×110	2×160	2×220	2×250	2×280	2×315	2×355	2×500	2×630	2×730	2×800	2×1000	2×1300
外形尺寸 Overall size	长度L(mm)	6850	7000	8500	9000	11000	13000	14000	17000	18000	20000	24000	26000	30000	36000	40000	48000
	宽度W(mm)	2200	2200	2200	2400	2500	3000	3500	3800	4200	5300	6800	7500	8500	9000	9500	12000
	地面上高(mm) H..above floor	3280	3300	3300	3500	3600	3800	4300	4500	4600	4700	6500	7200	8000	8500	10000	11000

注：①可根据用户的特殊要求改型。②产品不断改进，参数如有变动，恕不另行通知。
Note: ①Can be modified according to the special requirements of users. ② Continuous improvement, the parameters are subject to change without notice.

D53KS(Ⅱ)系列辗环机数控系统具有如下特点：

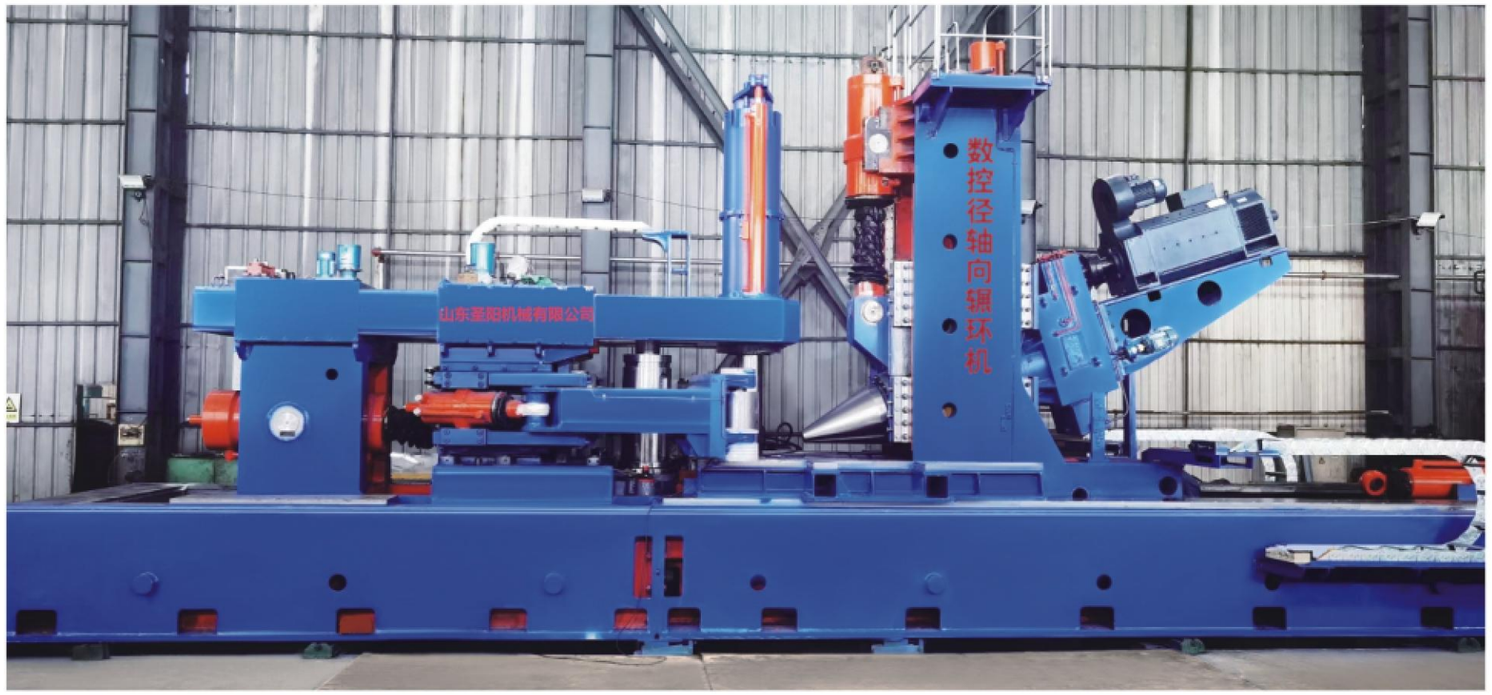
1、采用电子手轮进行操作。
2、采用双屏显示工作状态，新式操作台视野开阔。
3、输入环件及毛坯尺寸可自动生成轧制曲线。
4、自动CAR操作方式，轧制过程根据轧制曲线自动匹配径轴向的轧制。
5、操作简单，只需一个电子手轮即可完成整个轧制过程。

D53KS(Ⅱ) series ring rolling machine control system have advantages of:

1. Adopt electronic wheels for the operation.
2. Adopt double screen display working state, new console vision broadened.
3. Input forged ring size and blank size can create rolling cure automatically.
4. Automatical CAR operate mode, rolling process match radial and axial rolling automatically according to rolling cure.
5. Easy to operate, only need a electrical handwheel.

D53KS

系列数控径-轴向辗环机
CNC RADIAL AXIAL RING ROLLING MACHINE



规格 Model		400	800	1200	1600	2000	2500	3500	4000	5000	6300	7000	8000	9000	10000	12000
加工范围 Ring parameters	外径O-D(mm)	180-400	300-800	300-1200	400-1600	400-2000	500-2500	500-3500	600-4000	600-5000	1000-6300	1000-8000	1100-8000	1100-9000	1200-10000	1500-12000
	高度H(mm)	40-100	60-250	60-300	60 – 300	60-350	80 – 400	80 – 500	80 – 600	80-700	100-1000	100-1200	100-1600	110-1600	120-1650	130-2000
机器参数 Machine parameters	径向轧制力(KN) Radial rolling force	300	800	1000	1250	1600	2000	2000	2500	3000	4000	5000	6300	8000	10000	16000
	轴向轧制力(KN) Axial rolling force	200	630	800	1000	1250	1600	1600	2000	2500	3150	4000	5000	5000	6000	8000
	辗压线速度(M/s) Linear rolling speed	0.5-1.5	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	0.5-1.5	0.5-1.5	0.5-1.5	0.5-1.5	0.5-1.5	0.5-1.5
驱动功率 Drive power	径向主电机(Kw) Motor-radial	45	160	250	280	2×220	2×250	2×280	2×315	2×355	2×500	2×630	2×730	2×900	2×1200	2×1800
	轴向主电机(Kw) Motor-axial	2×22	2×75	2×110	2×160	2×220	2×250	2×280	2×315	2×355	2×500	2×630	2×730	2×800	2×1000	2×1300
外形尺寸 Overall size	长度L(mm)	6850	8500	9000	11000	13000	14000	17000	18000	20000	24000	26000	30000	36000	40000	48000
	宽度W(mm)	2200	2200	2400	2500	3000	3500	3800	4200	5300	6800	7500	8500	9000	9500	12000
	地面上高(mm) H..above floor	3680	3300	3500	3600	3800	4300	4500	4600	4700	6500	7200	8000	8500	10000	11000

注：①可根据用户的特殊要求改型。②产品不断改进，参数如有变动，恕不另行通知。

Note: ①Can be modified according to the special requirements of users. ② Continuous improvement, the parameters are subject to change without notice.



D53KS数控径-轴向辗环机
D53KS CNC RADIAL AXIAL RING ROLLING MACHINE



D53KS数控径-轴向辗环机
D53KS CNC RADIAL AXIAL RING ROLLING MACHINE

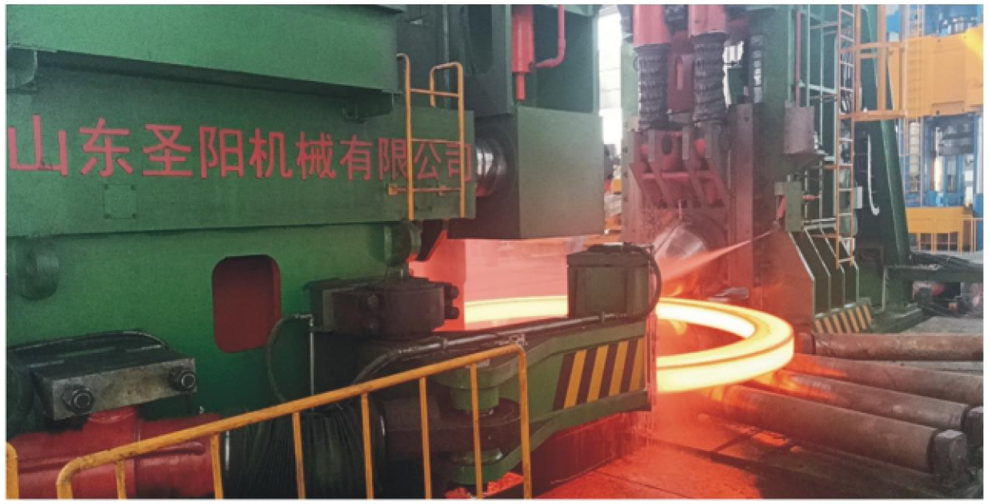
D53KS系列辗环机数控系统具有如下特点：

1、采用电子手轮进行操作。

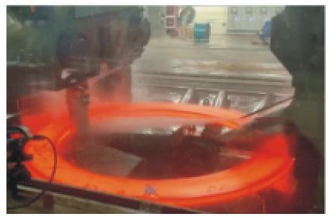
2、采用数字化操作台操作简单，只需2个电子手轮即可完成整个轧制过程。

D53KS series ring rolling machine control system have advantages of:
1. Adopt electronic wheels for the operation.
2. It is easy to operate with digital operation table, and only two electronic handwheels can complete the whole rolling process.

环件辗制及环件概览
OVERVIEW OF RING ROLLING AND RING PARTS



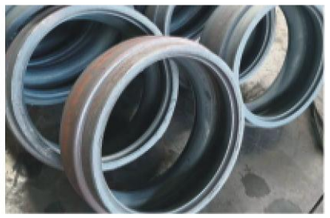


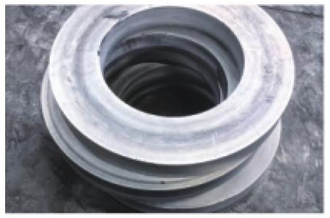










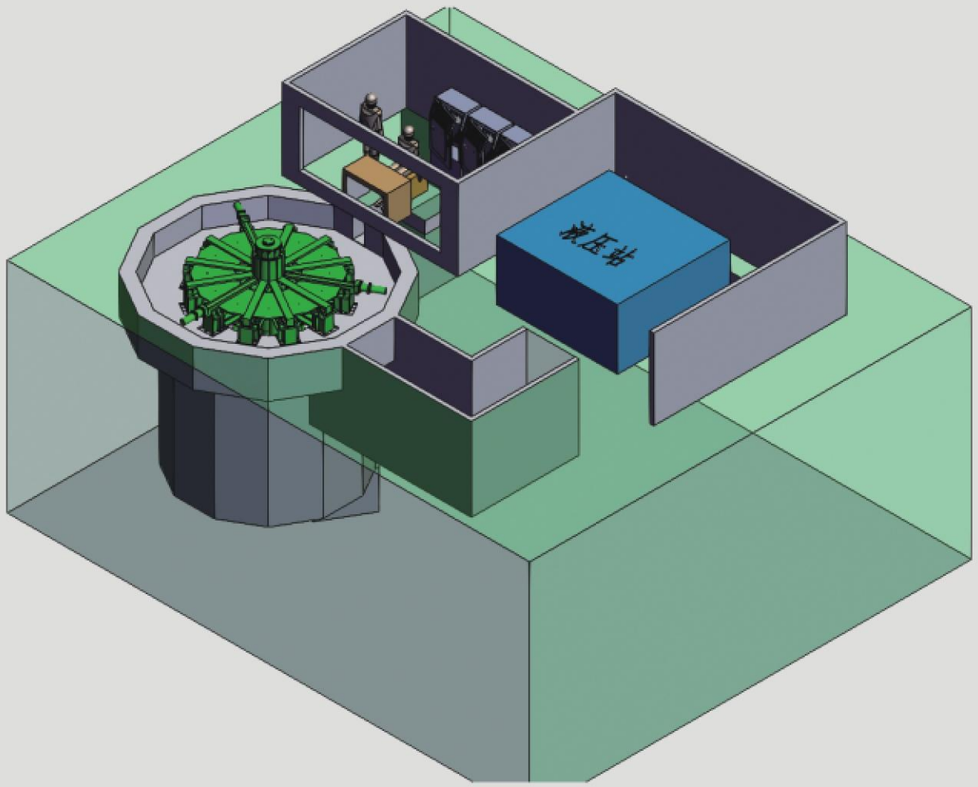






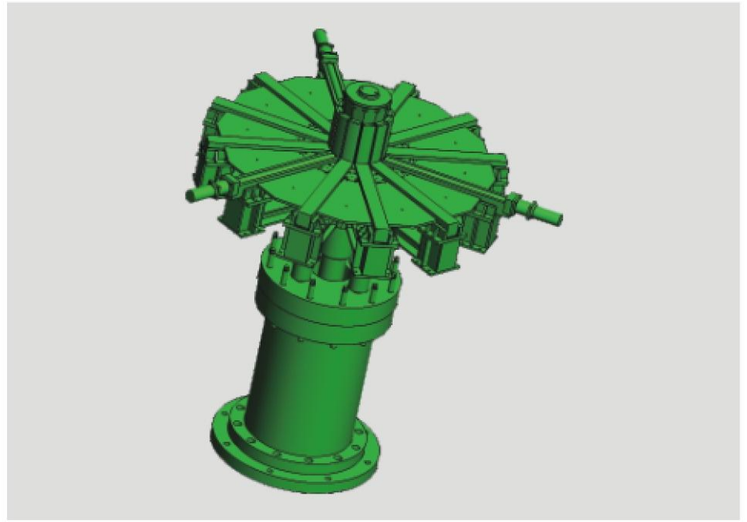
ZXJ

系列数控胀形机
SERIES BULGING MACHINE

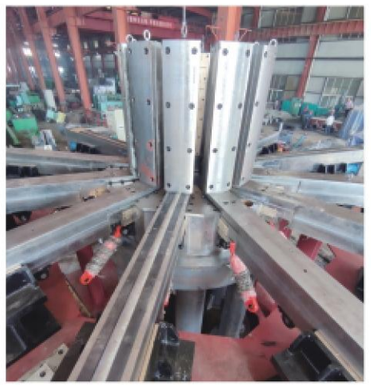


数控胀形机主要用于碳钢、合金钢、铝合金、钛合金、高温合金等材质环形锻件的胀形、校圆功能。
数控胀形机属于定制产品，设备具体规格、参数需根据环形锻件的尺寸、材质性能、工况环境等因素选定。
公司现有规格：600T、1000T、1250T、1500T、2000T、2500T、3500T、5000T。

The numerical control bulging machine is mainly used for the bulging and rounding functions of ring forgings made of carbon steel, alloy steel, aluminum alloy, titanium alloy, superalloy and other materials.
The CNC bulging machine is a customized product. The specific specifications and parameters of the equipment should be selected according to the size, material performance, working environment and other factors of the ring forgings.
The company's existing specifications: 600T, 1000T, 1250T, 1500T, 2000T, 2500T, 3500T, 5000T.

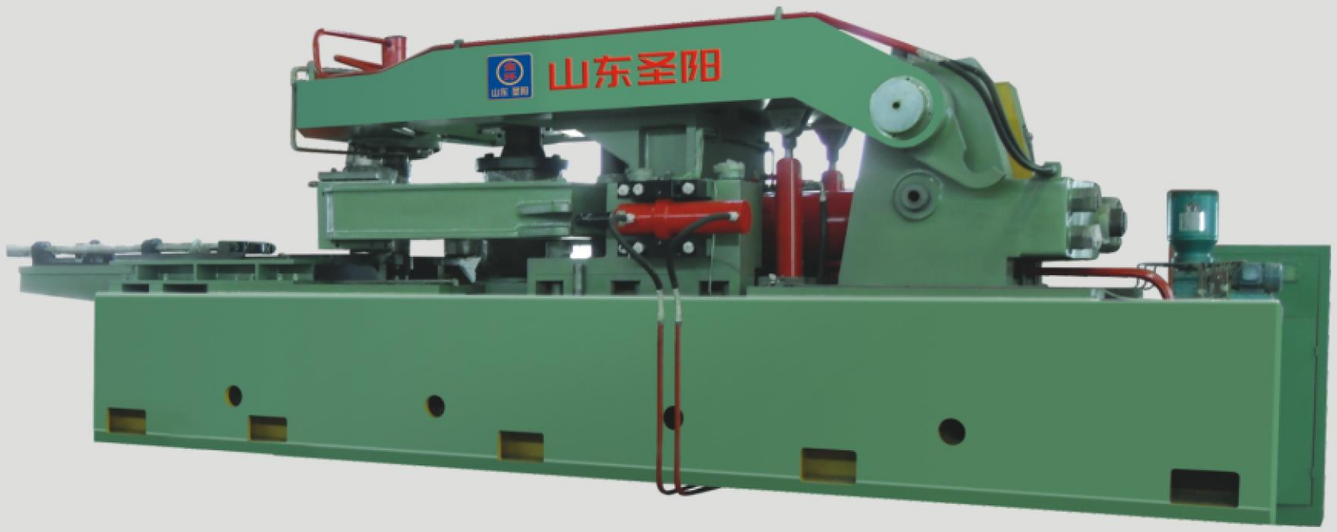






D52K

系列卧式辗环机
HORIZONTAL RING ROLLING MACHINE



型号 Model		D52K-400	D52K-630	D52K-800	D52K-1250	D52K-1600	D52K-2000	D52K-3000
环尺寸 Ring sizes	外径O-D(mm) Outer diameter	200-400	220-630	300-800	400-1250	400-1600	450-2000	500-3000
	高度(mm) Height	200	160	200	250	300	350	400
机器参数 Machine parameters	径向轧制力 Radial Rolling	500	500	630	800	1000	1250	2000
	辗压线速度 Linear rolling speed	1.3	1.3	1.3	1.3	1.3	1.3	1.3
	驱动功率 Driving Power	110	110	132	200	280	355	500
平面尺寸 Overall size	长度(mm) Length	3350	5230	5500	7000	7500	8000	9200
	宽度(mm) Width	1920	1900	2200	2400	2600	3000	3500
	地面上高H(mm) Height above floor	2580	2530	3000	3200	3500	3600	4000

D52K系列卧式辗环机，采用PLC控制，环的端面不轧制，轧制时采用开式轧辗或闭式轧辊，环的尺寸在数显表上显示。

D52K Series horizontal of Radial Ring Rolling Machine, PLC control, the ring height is not rolling, using open roller or a closed roller, the size of the ring displayed on the digital display.



D52K－400 卧式辗环机
HORIZONTAL RING ROLLING MACHINE





BN

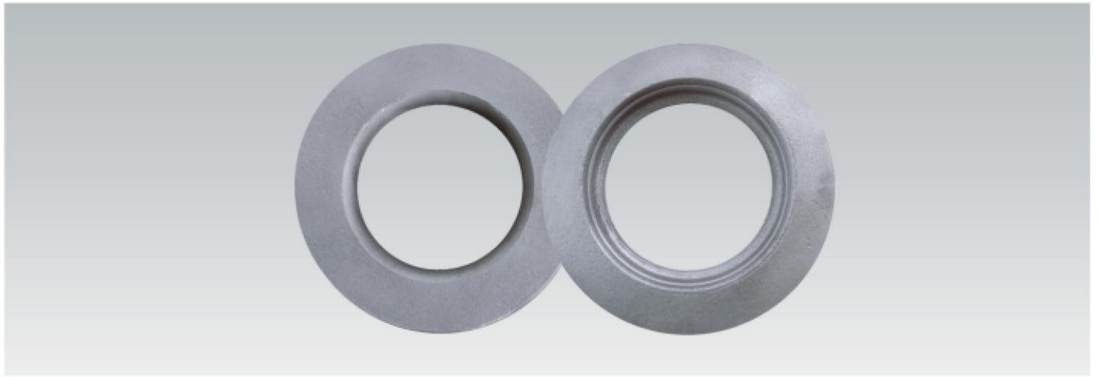
系列立/卧式摆辗机
VERTICAL AND HORIZONTAL CLOSED-DIE ROLLING MACHINE



BN系列立式摆辗机
BN AXIAL CLOSED-DIE ROLLING MACHINE

该系列摆辗机采用PLC控制，带触摸屏，能实现调整、自动操作方式。摆头具有可靠的水、油密封，寿命长。工作时机器无冲击力，无噪声。经本摆辗机辗制的成品、半成品，精度高，表面光洁，锻件尺寸精确。该系列摆辗机适用于齿轮、法兰等饼盘类零件的热辗压成型工艺。

Axial closed-die rolling machine controlled by PLC, equip touch screen, can achieve adjust and automatic operation. Water sealing and oil sealing in rotary head, long operating life. No ram pressure and no noisy while working. Its products high accuracy, surface bright and clean, size accurate. It used to produce small thickness products such as gear production, flange production, and so on.







BN系列立式摆辗机参数表
BN AXIAL CLOSED-DIE ROLLING MACHINE SPECIFICATION

项目	单位	BN-200	BN-300	BN-400	BN-630	BN-800	BN-1000	BN-1250	BN-1600	BN-2000
公称力	KN	2000	3000	4000	6300	8000	10000	12500	16000	20000
最大热辗工件尺寸	mm	Φ200	Φ300	Φ350	Φ420	Φ500	Φ600	Φ800	Φ1000	Φ1200
顶出力	KN	250	400	600	800	1000	1200	1600	1600	1600
主缸行程	mm	300	300	400	400	400	600	800	800	800
主电机功率	KW	55	75	90	110	132(160)	160(200)	2×160	2×200	2×250
每转进给量	mm	2-4	2-4	2-4	3-5	3-5	3-5	3-5	3-5	3-5

ZDYJ-B

系列自由锻造液压机
FREE FORGING HYDRAULIC PRESS



ZDYJ-B系列自由锻造液压机主要用于金属材料锻造的各种工艺加工，包括将钢坯拔长、墩粗、冲孔、马杠扩孔、错移、粗转、弯曲等。
主机结构为三梁四柱式，主要由机身、油缸、移动工作台等部件和液压传动系统、电控系统、润滑系统等部分组成，通过管路及电器装置联系起来构成一个整体。
本机根据需要可配置压机与操作机联动预留接口，用以实现压机和操作机的联动，提高锻造效率。

ZDYJ-B series, free forging hydraulic press is mainly used for the forging of metal materials processing technology, including billet stretching, upsetting, punching, horse bars reaming, shift, rough turning, bend, etc.
The frame structure TS three beam four-couimn style, the main part of the fuselage, fuel tanks, mobile workstations and other parts and hydraulic drive system, electric control system, lubrication system, linked to form a whole through the piping and electrical installations.
The native interface reserved according to need can be configured to press and manipulator linkage to the linkage of the press and operating machines to improve the forging efficiency.

规格 Model	800T	1000T	1250T	1600T	2000T	3000T	4000T	5000T
系统压力Mpa Hydraulic pressure	25	25	25	25	25	28	26	26
净空距mm Daylight	2100	2200	2300	2500	3000	3500	4000	5000
滑块行程mm Slide stroke	1000	1100	1200	1400	1600	1800	2000	2200
立柱中心距mm Column center distance	2000×1000	1850×1300	2200×1100	2400×1200	2600×1400	3200×1600	4000×1900	4500×2100
立柱直径mm Column diameter	Φ250	Φ280	Φ300	Φ360	Φ360	Φ470	Φ550	Φ600
最大偏心距mm Max. Eccentric distance	70	70	70	100	120	150	200	200
回程速度mm/s Return speed	0-300	0-300	0-300	0-300	0-300	0-250	0-250	0-250
工作速度mm/s Working speed	50	45	45	45	45	45	40	40
快下速度mm/s Fast down speed	0-300	0-300	0-300	0-300	0-300	0-250	0-250	0-250
快锻次数次/分 Forging frequency	45	45	45	40	40	40	35	35
移动台尺寸mm Working table size	3000×1250	3000×1250	3500×1250	4000×1500	5000×1800	5000×2000	7000×2500	8000×3000
移动台速度mm/s Working table speed	0-200	0-200	0-200	0-200	0-200	0-200	0-200	0-200
移动台行程mm Working table stroke	1500	1500	1600	2000	2×1500	2×1800	2×2000	2×2500
电机功率Kw Motor power	440	550	660	880	1100	1760	2200	2640
地上高度mm Height above floor	6500	7200	7500	8000	9000	10500	11500	12500
镦粗钢锭 T Upsetting capactity	3	4	5	10	15	25	35	50
配备操作机 T Matchen manipulator	5	5	10	15	15	20	40	50
移动工作台载重T Working table capacity	10	10	10	20	30	40	40	50

ZQJ

系列装取料机
CHARGING MANIPLULATOR



有轨全液压混合式锻造装出料机，可以通过七种动作：大车行走、小车行走、小车回转、钳杆升、钳杆降、钳口夹持和钳头旋转来完成工作。

Rail bound charging manipulator can achieve seven actions,rail carriage moving along the rails wheal carriage moving along the travle and turning on the slewing bearing, tong moving upper and down,clamp holding and rotating.





型号 Model	ZQJ0.5	ZQJ1	ZQJ1.5	ZQJ2	ZQJ3	ZQJ5	ZQJ10	ZQJ15	ZQJ20
公称载重量T Norminal capacity	0.5	1	1.5	2	3	5	10	15	20
夹料范围 mm Ingot size	0-500	50-600	50-700	50-700	80-800	50-900	150-1000	200-1400	260-1500
钳头中心高 mm Tong center height	1000	1000	1200	1200	1300	1350	1550	1700	1750
钳口控制高度 mm Clamp height	0-1400	0-1600	0-1700	0-1800	0-2000	0-2000	0-2200	0-2200	0-2200
大车行走速度 m/min Rail- car speed	50	50	40	40	45	45	40	35	35
小车行走速度 m/min Wheel- car speed	30	30	30	25	30	30	30	30	30
轨道中心距 mm Rail clearance	2.5	2.7	4	4	5	6	7	7	7
系统油压 Mpa Hydraulic pressure	10	10	10	12	12	12	12	15	15
最小装机容量KW Min, power	10	11	22	25.5	30	32	77	108	142
外形尺寸m Measurement	5.3×2×2	6×2.2×2.1	6×2.8×.2	6×3×2.1	7.6×3×2	8×3×2.5	9×4.4×2.6	11×5×2.75	11×4.9×3.6

ZQJL

系列轮式全液压装出料机
FULL-HYDRAULIC WHEEL TYPE CHARGING MANIPULATOR





技术特点

适用于装/出炉空间较宽敞，地面平整的锻造车间；
小吨位取料机采用标准叉车改装后安装机械手；
大吨位取料机采用自驱动无轨装出料车；
结构合理，技术成熟；
采用实心橡胶轮胎、加防护罩等有效防护措施；
将所有液压元件装有隔热装置；
采用国际名牌液压元件；
人性化设计，使操作、维护更加简单容易。

Technical characteristics

Used in smooth forging workshop with large charging space.
Charging Manipulator of small capacity is re-constructed from a forklift.
Charging Manipulator of large capacity is designed as a Self-motivated type.
Reliable performance with mature technics.
Solid tire with protecting shield.
All electrical and hydraulic parts in international brands and well protected.
Humanized design for easy operation and maintenance.

叉车式装出料机标准参数表
PARAMETERS FOR FORK TYPE CHARGING MANIPULATOR

型号 Model	0.6T	1T	2T	3T	5T	6T
公称载荷(KN) Rated Capacity	6	10	20	30	50	60
额定载荷力矩(KN.M) Rated Loading Moment	29.6	36.9	71.4	104	165.2	227.5
夹持范围(mm) Tong Clamping Range	Φ80-Φ400	Φ80-Φ500	Φ80-Φ600	Φ80-Φ750	Φ80-Φ900	Φ80-Φ900
钳杆最低中心高(mm) Peel Min. Horizontal position	500	500	700	800	1000	1000
钳杆升降高度(mm) Claw beam lifting height	1500	1500	1650	1500	2000	2000
夹钳前端距前轴中心(mm) tong front end to the front axis	3150	2500	2870	2870	2860	3350
夹钳前端距门架前端(mm) tong front end to the fork	2660	2000	2280	2150	2060	2550
钳杆旋转角度(°) Claw beam Rotating Angle	360	360	360	360	360	360
钳杆旋转速度(rpm) Claw beam Rotating Speed	4	4	4	3.8	3.2	3.2
钳杆上仰下俯角度(°) Claw beam tilting Angle	6/12	6/12	6/12	6/12	6/12	6/12
最小前转弯半径(mm) Min. Turning Radius	2380	2400	3300	3700	4150	5000
叉车轴距(mm) Wheel Base	1700	1700	2250	2500	2800	3500
前轮胎(实心) front tire(solid)	2	2	2	4	4	4
后轮胎(实心) Rear tire(solid)	2	2	2	2	2	2
设备外形(mm) LxWxH	5.3×1.3×2.1	6.3×1.2×2.2	6.5×11.2×2.2	7.5×2.0×2.65	8.2×2.4×2.9	9.0×2.5×3.2
行驶速度(km/h) Traveling Speed	18	19	26	26	28	28
选配叉车/发动机 Matched Forklift/Engine	CPCD-30	CPCD-35	CPCD-60	CPCD-80	CPCD-135	CPCD-150

自驱动无轨装出料车标准参数表
PARAMETERS FOR SELF-MOTIVATED TRACKLESS CHARGING MANIPULATOR

3T	5T	8T	10T	15T
30	50	80	100	150
120	165	322	430	520
Φ60-Φ1650	Φ200-Φ2000	Φ300-Φ2200	Φ400-Φ2200	/
700	900	855	900	1000
1500	1500	2330	2500	2500
4000	3300	4020	4500	4500
3500	3000	3460	3900	3900
360	360	360	/	/
5.2	5.2	4.6	4.2	3.7
10/10	10/10	10/10	10/10	10/10
3300	3860	4400	4900	4900
2400	2400	3050	3500	3500
2	2	4	2	4
2	2	2	2	2
7.4×2.78×3.2	6.72×2.48×3.4	8.35×2.74×3.2	9.5×3.2×3	10.5×3.2×3
0-9.6	0-9.6	0-9.6	0-9.6	0-9.6
德国道依茨 Germany Deutz	德国道依茨 Germany Deutz	德国道依茨 Germany Deutz	德国道依茨 Germany Deutz	德国道依茨 Germany Deutz

CHJ

热处理装取料机（淬火机）
HEAT TREATMENT CHARGING AND RECLAIMING MACHINE (QUENCHING MACHINE)









技术特点

热处理专用装取料机，采用数控伺服控制，
能自动根据设定程序参数完成热处理（淬火）
工作，节省人工提高淬火质量。
可根据用户需求设计制造。

Technical characteristics

The special charging and reclaiming machine for heat treatment adopts NC servo control, which can automatically complete the heat treatment (quenching) according to the set program parameters, save manpower and improve the quenching quality.
It can be designed and manufactured according to user needs.

DCZ

系列锻造操作机

FORGING MANIPULATOR

技术特点

山东圣阳锻造操作机，按机构形势分为四边杆式和框架式，按运动形式分为直移式和回转式，该设备可以完成五种动作：大车轨道行走，钳架前后上升、下降、倾斜，钳头夹持、松开和旋转。

Technical characteristics

Shandong Shengyang forging operation by agency situation is divided into four sides of the rod and frame form of exercise is divided into a straight shift and rotary, the device can be completed five movements: walking cart track around the clamp frame up, down, tilt, the clamp head clamp, release and rotation.



DCZ系列锻造操作机参数表

DCZ FORGING MANIPULATOR SPECIFICATION

型号 Model	DCZ-1	DCZ-2	DCZ-3	DCZ-5	DCZ-10	DCZ-20	DCZ-30	DCZ-40	DCZ-50
公称载重量T Rated capacity	1	2	3	5	10	20	30	40	50
最大夹持力矩T.m Tong clamping moment	2	4	6	12.5	25	60	90	120	150
夹料范围 mm Tong clamping range	120-400	150-500	200-600	270-650	270-1000	300-1400	300-1600	300-1600	300-1800
钳杆中心高度mm Tong center clearance	810-1560	650-1350	770-1370	1200-1800	900-2100	1200-2500	1250-260	1250-2600	1570-3000
钳杆伸出量 mm Tong forward distance	1300	1400	1500	1850	2000	2500	2800	3200	3500
钳头最小回转直径 mm Clamp tuning diameter	650	850	950	1200	1500	1500	1520	1520	1650
钳头转速 rpm Clamp tuning speed	30	30	22	22	22	10	8	8	8
大车行走速度 m/min Carriage speed	26	26	26	32	25	20	20	15	10
前升降速度 m/min Front lifting speed	5.5	5.5	5.5	5.5	5.5	4.6	4.6	4.6	4.6
后升降速度 m/min Rear lifting speed	6.5	5.6	6.5	6.5	6.5	4.8	4.8	4.8	4.8
轨距 mm Rail clearance	2000	2000	2400	3000	3000	3500	4000	4500	4800
系统工作压力 MPa Working pressure	12	12	12	12	12	14	15	15	15
整机安装功率 KW Total power	45.5	47	71.5	80.5	115	215	322	280	280
整机重量T Weight	14.6	21	30	42	55	118	162	240	300
机器外型尺寸m Measurement	5×2.4×3	5.6×2.9×2.5	5.7×3×3.2	7.4×3.6×3.5	8.5×3.6×5.4	12.5×4.5×6.1	13×5.1×6.2	13×5.5×6	13×5.5×6



机械液压混合回转式锻造操作机

MECHANICAL HYDRAULIC HYBRID ROTARY FORGING MANIPULATOR

YDCZ

系列全液压锻造操作机

FULL HYDRAULIC FORGING MANIPULATOR

技术特点

采用全液压驱动，液压系统设计先进，合理；
机械部分经设计优化，结构合理而简单；
大功率实现各动作快速运行；
人性化设计，使操作、维护更加简单容易。

操作及控制方式

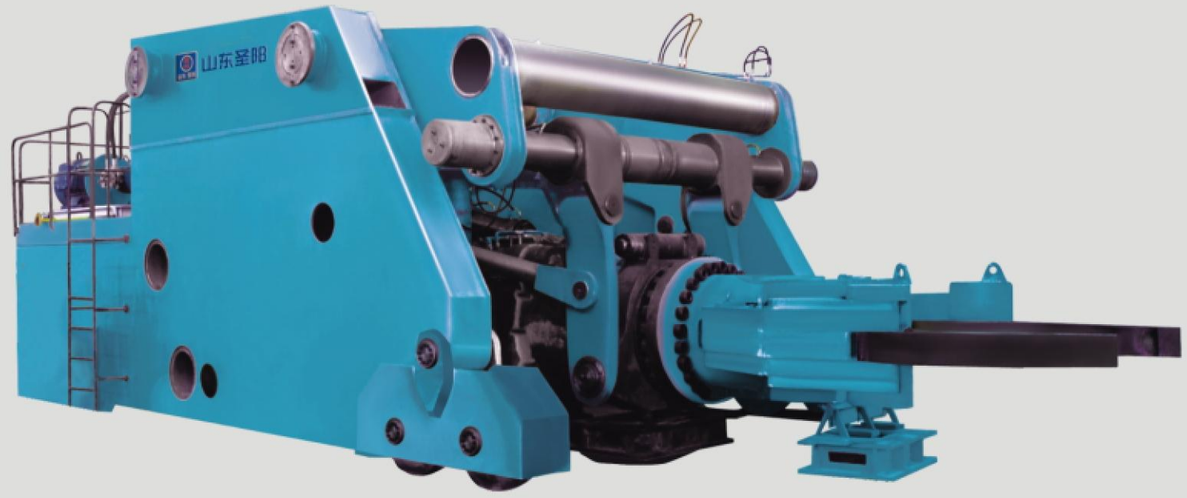
手动、半自动、自动。

Technical characteristics

Fwl-hydraulic drive, hydraulic system design is advanced and reasonable;
The mechanical parts of the design optimization, reasonable structure and easy;
The high power of the action to run fast;
User-friendly design, operation and maintenance simple and easy.

Operation and control methods

Manual, semi automatic, automatic linkage with forging presses.



YDCZ系列全液压锻造操作机参数表

YDCZ FULL HYDRAULIC FORGING MANIPULATOR SPECIFICATION

型号 Model	1T	2T	3T	5T	8T	10T	15T	20T	30T	40T	50T
公称载荷 KN Rated capacity	10	20	30	50	80	100	150	200	300	400	500
最大夹持力矩 KN.M Tong clamping moment	25	50	75	125	200	250	400	500	800	1000	1250
夹持范围 mm Tong clamping range	Φ50-Φ550	Φ50-Φ650	Φ80-Φ750	Φ95-Φ810	Φ110-Φ320	Φ120-Φ1000	Φ120-Φ1200	Φ165-Φ1300	Φ165-Φ1450	Φ165-Φ1600	Φ175-Φ1700
钳头净伸出量mm Distance from tong ent to frane face	1150	1430	1580	1740	1770	1929	2350	2170	2200	2270	2490
钳头最大回转直径mm Max. Tong rotating	890	1050	1170	1280	1480	1600	1950	2120	2260	2530	2650
钳头旋转速度 mm Tong rotating speed	25	25	25	22	20	20	18	18	16	16	14
钳身最低水平高 mm Paralle horizontal position	450	500	550	580	620	685	815	900	915	900	1090
钳身升降行程 mm Paralle vertival stroke	750	850	950	1100	1280	1440	1655	1800	1800	1800	1900
钳身上仰/下俯角度 ° Vertival tilt of peel	7/9	7/9	7/9	7/9	7/9	7/9	7/9	7/9	7/9	7/9	7/9
钳身水平侧移距离 mm Parallel side shift	±100	±100	±120	±120	±150	±150	±180	±200	±200	±225	±250
钳身水平侧摆角度 ° Angular side shift	±8	±8	±8	±8	±8	±8	±8	±8	±8	±8	±8
车体行走速度 m/min Travel speed	42	48	42	36	36	36	36	36	36	36	30
车体起动、停止加速度m/s Travel acceleration	3	3	3	2.5	2.5	2.5	2	2	2	2	1.8
轨距 mm Wheel base	1800	1800	2000	2200	2500	2800	3000	3300	3600	3600	4000
装机功率 KW Total power	40/22	50/22	60/22	73/55	115/55	130/65	130/65	157/125	175	175	179
设备外形（长×宽×高）mm L×W×H	4500×1740×1800	5500×2140×2000	6150×2380×2200	6780×3500×2440	7650×3080×2700	8580×3600×3500	9585×4600×3800	10430×5370×3900	10780×4500×3900	10760×4500×3840	11500×5560×4300
推荐配套主机MN Accompanying press	3.2/4	4/5	5/6.3	6.3/8	8/10	10/12.5	12.5/16	16/20	25/31.5	31.5/40	40/45