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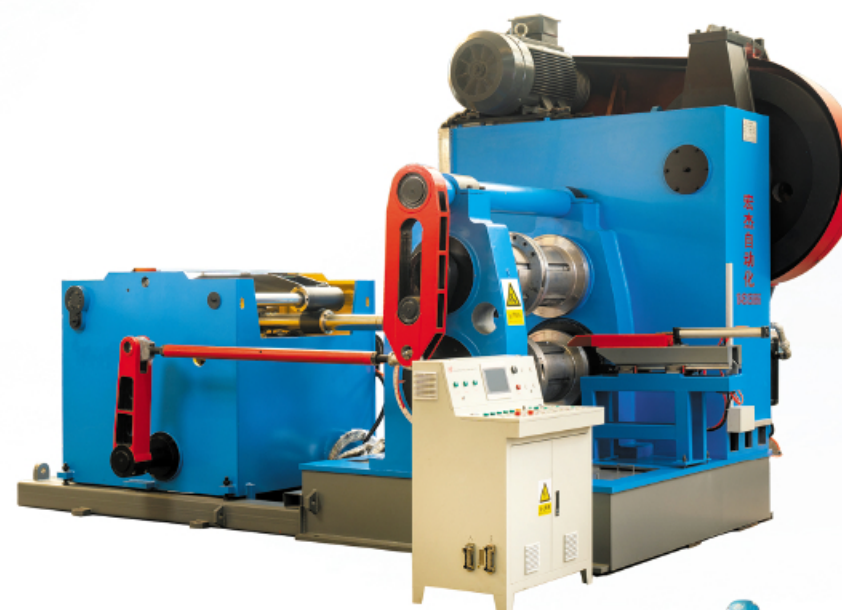
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合作共赢 永恒诚信



山东宏杰自动化设备有限公司

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为世界节约能源 为客户降低成本

Save energy for the world Reduce costs for customers

C COMPANY PROFILE

公司简介



山东宏杰自动化设备有限公司始建于2010年，固定资产8500万元人民币。公司坐落于“世界短篇小说之王”蒲松龄的故乡——山东省淄博市淄川区。公司宗旨“为社会节约能源，为客户降低生产成本”，专业研发、制造、销售辊锻机、楔横轧机及相关配套锻造设备，是中国锻压协会会员单位、“山东省装备制造业协会锻压分会”会长单位，曾荣获两项“山东省首台（套）技术装备奖，并荣获“瞪羚企业”、高新技术企业、专精特新企业等称号，被行业评选为“中国锻造技术装备二十强企业”。

Located in Zichuan, Zibo, Shandong Province, the hometown of Pu Songling- king of short stories of the world, Shandong Hongjie Automation Equipment Co., Ltd. was founded in 2010 with fixed assets of 85 million yuan. Aiming at "Saving energy for the society! Reducing cost for our customers!", Hongjie specializes in developing, manufacturing and selling roll forging machine, cross wedge rolling machine and other related support equipment. As the chairman of the Forging Branch of Shandong Equipment Manufacturing Industry Association and the member of Confederation of Chinese Metalforming Industry, Hongjie has achieved "the first major technical equipment in Shandong" titles for two times. Besides, the company has also won the title of "Top 20 of China Forging Equipment & Technology", "Gazelle Company", "High-tech Enterprise" and "Specialized and New Enterprise".

公司下设辊锻机研发部、楔横轧机研发部和锻造生产线研发中心，并与吉林大学辊锻研究所、山东理工大学以及科研院所产学研长期合作，取得了18项发明专利和实用新型专利。

With roll forging machine R & D department, cross wedge rolling machine R & D department, forging production line R & D center, the company carries out industry-university-institute cooperation with Shandong University of Technology, Roll Forging Research Institute of Jilin University and other colleges and institutes and obtains 18 patents for invention and patents for utility model.

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公司秉承“高效、精密、节能、环保”的经营理念，采用行业领先技术及管理体制，攻克生产过程中的技术难题，研发锻造生产线，填补了行业空白，在国内外享有较高知名度。近几年，公司又研发了ZGD850/ZGD1000/ZGD1250大型辊锻机和D46-1000/D46-1200/D46-1400大型楔横轧机，满足了航天、核电、风电、海运、矿山等行业对大型锻件预制坯的需求。迄今，宏杰已为全球提供1000余套高效节能锻造设备，设备锻造出的产品被广泛应用于汽车配件、五金工具、电力金具、农机配件、吊装索具、工程机械等行业。此外，宏杰与中国能源建设集团、中国重汽、河北巨力集团、河南矿山集团、芜湖三联集团、湖北三环、东风锻造、株洲齿轮、重庆建设集团、龙城精锻、长春一汽、万里扬股份、罡阳集团等国内大型企业有着长期的战略合作关系，设备还出口到韩国、日本、俄罗斯、墨西哥、匈牙利、伊朗、巴基斯坦、埃及、土耳其、尼泊尔等国家，得到了国外客商高度赞誉。为企业取得了明显的节能效果，降低了企业的生产成本，提高了企业的经营利润，提升了企业的市场竞争力，为国内外锻造行业节能减排开启了新的篇章。

Adhering to the business philosophy "Saving energy for the society! Reducing cost for our customers!", adopting industry-leading forging technology and management system, Hongjie has overcome the technical problems in the production process and developed solutions for forging production line, which fills the gap in the industry and enjoys a high reputation at home and abroad. In recent years, the company has developed roll forging machine in large models like ZGD850, ZGD1000, ZGD1250 and cross wedge rolling machine in large models like D46-1000, D46-1200, D46-1400 to meet the needs of aerospace, nuclear power, wind power, shipping, mining and other industries for large preforged billets. So far, it has provided more than 1000 sets of energy-saving forging equipment for the world, which are widely used in auto part, tools & hardware, electric power fitting, rigging, construction machinery and other industries. The company has long-term strategic cooperation with many large enterprises, such as China Energy Engineering Group Co., Ltd, China National Heavy Duty Truck Group Co., Ltd, Juli Group, Heenan Mine Group, Sanlian Forging, Tri-Ring Group, Dongfeng Forging Co., Ltd, Zhuzhou Gear, Chongqing Construction Engineering Group Cooperation Limited, Jiangsu Longcheng Precision Forging Co., Ltd, China FAW Group Cooperation, Zhejiang Wanliyang Co., Ltd, Gangyang Co., Ltd, Jiangsu. Its products, roll forging machine and cross wedge rolling machine, have been exported to South Korea, Japan, Russia, Mexico, Hungary, Iran, Pakistan, Egypt, Turkey, Nepal and other countries, and have been highly praised by foreign merchants. The company has achieved obvious energy-saving effects, effectively reduced production costs, increased corporate profits, and greatly improved the competitiveness of enterprises. It opens a new chapter for energy conservation and emission reduction of forging industry at home and abroad.



QUALIFICATION AND HONOR

资质荣誉



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ZGD系列全自动辊锻机

AUTOMATIC ROLL FORGING MACHINE ZGD SERIES



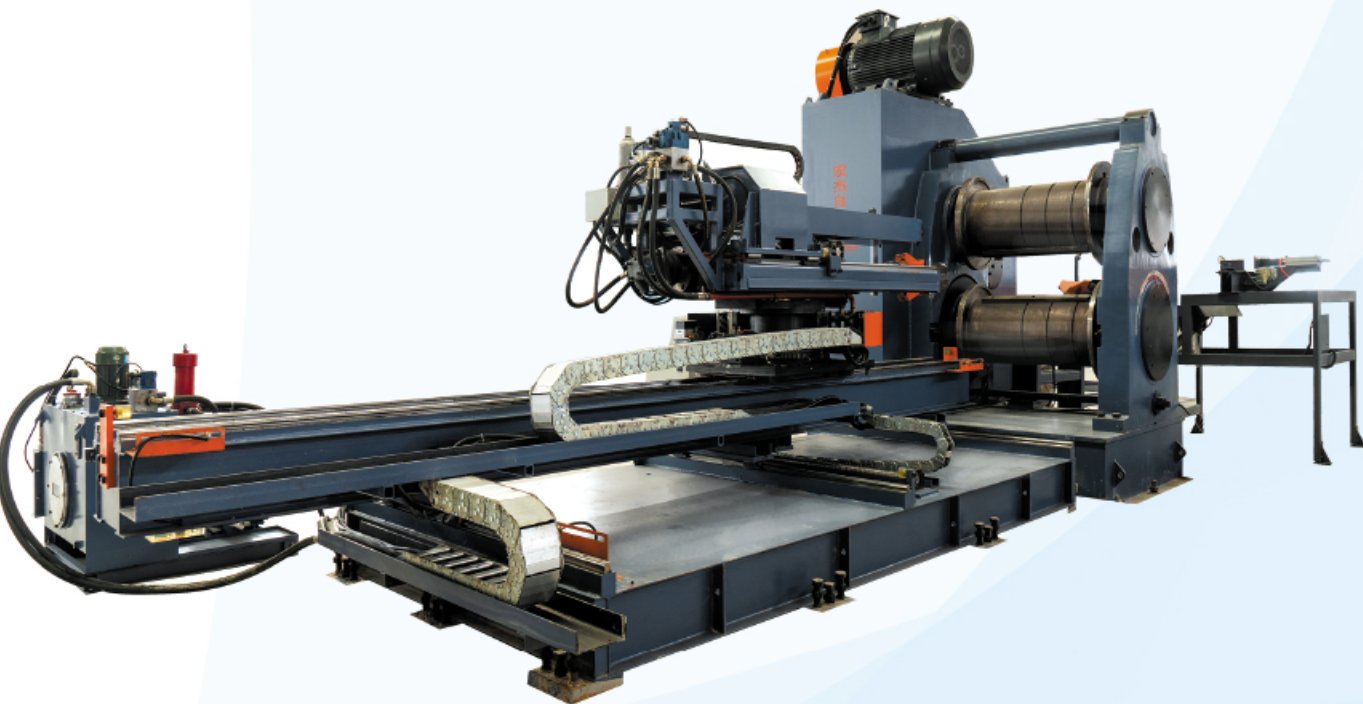
产品介绍 Product Introduction

辊锻是回转锻造的一种，属于回旋压缩成形类的范畴。上下锻辊同步反向旋转，带动扇形模具向内咬合，通过多道次型腔挤压使毛坯成形。辊锻的扇形模具为工作部分，锻辊为承载部分，通过改变模具型腔可以辊锻不同的工件。辊锻机可辊锻周期断面及各种几何形状断面的零件，如：圆形、椭圆形、方形、菱形、锥形、工字形及板坯碾长辊形等等。

Roll forging is a type of rotary forging, which belongs to spin forming. The upper and lower rollers rotate synchronously in the opposite direction, driving the fan-shaped die to rotate inward, and forming the billet through cavity's extrusion. The fan-shaped die is the working part, and the roller is the bearing part. Different workpieces can be roll forged by changing the die cavity. Roll forging machine can forge parts with periodic section or all kinds of geometric shape section, such as: round, oval, square, rhombus, cone, I-shaped, slab and so on.

大型辊锻机

LARGE MODEL ROLL FORGING MACHINE



技术参数

Technical Specification

技术参数 Technical Specification		辊锻模外径 Outer Diameter of Roll Forging Die	锻辊直径 Diameter of Roller	模具有效 宽度 Effective Width of Roller/Die	锻辊转速 RPM of Roller	辊锻变形 长度 Length of Forged Part Max.	锻辊中心距 调整量 Adjustment of Gap Between Center of Rollers	主电机 功率 Main Motor Power	辊锻毛坯 最大直径 Diameter of Billet	机械手最大 纵向行程 Longitudinal Stroke of Manipulator Max.	机械手最大 横向行程 Horizontal Stroke of Manipulator Max.	纵向位置 调节量 Adjustment of Longitudinal Position	垂直水平方向 可调性 Adjustability of Vertical & Horizontal	单道次 横向行程 Single Horizontal Distance	机械手 夹持旋转 角度 Rotation Angle of Manipulator
单位 Unit		mm	mm	mm	r/min	mm	mm	kW	mm	mm	mm	mm	-	mm	°
型号 Model	ZGD-260	260	165	320	80	≤260	260±6	15	≤40	330	330	150	可调 Adjustable	60-90	90
	ZGD-300	300	200	390	80	≤350	300±8	18.5	≤55	390	400	150	可调 Adjustable	60-90	90
	ZGD-370	368	240	500	66	≤500	368±8	22	≤65	490	520	200	可调 Adjustable	70-100	90
	ZGD-460	454	300	550	58	≤600	458±8	30	≤85	630	560	200	可调 Adjustable	70-130	90
	ZGD-560	560	360	610	52	≤700	560±10	75	≤110	758	620	300	可调 Adjustable	80-140	90
	ZGD-680	680	440	900	40	≤800	680±10	132	≤140	890	910	300	可调 Adjustable	90-160	90
	ZGD-850	850	550	1150	17	≤950	850±12	200	≤160	1090	1200	300	可调 Adjustable	100-180	90
	ZGD-1000	995	600	1250	10	≤1500	990±12.5	250	≤180	5000	1250	定制 Customized	可调 Adjustable	可调 Adjustable	90
	ZGD-1250	1250	800	1400	8	≤1850	1250±15	315	≤210	5000	1450	定制 Customized	可调 Adjustable	可调 Adjustable	90

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辊锻特点及优点 ADVANTAGES OF ROLL FORGING

- ✓ **工作载荷较小:** 辊锻机在锻造过程中所需的工作载荷较小, 这有助于降低设备成本和能耗。
Low Working Loads: Roll forging machine requires low working loads during the forging process, which helps to reduce costs and energy consumption.
- ✓ **生产效率高:** 辊锻机具有较高的生产效率, 能够快速完成预成型, 提高生产线的整体效率。
High Production Efficiency: Roll forging machine can quickly complete the pre-forming, improving the overall efficiency of the production line.
- ✓ **降低材料成本:** 辊锻工艺能够有效地减少材料的消耗, 提高材料的利用率, 从而降低生产成本。
Low Material Cost: Roll forging process can effectively reduce the consumption and improve the utilization rate of materials, thereby reducing production costs.
- ✓ **质量优越:** 通过辊锻工艺得到的锻件质量优越, 具有良好的金属流线和较高的力学性能。
Superior Quality: The parts made through roll forging process are of superior quality, with good metal flow and high mechanical properties.
- ✓ **实现自动化制坯, 降低人力成本:** 辊锻机通过与加热设备连接可以实现自动送料自动辊锻成型无需人工操作, 降低人力成本。
Automatic Billet Making, Labor Cost Reducing: Roll forging machine connected with heating equipment can realize automatic feeding and automatic forging without manual operation, reducing labor costs.
- ✓ **节能高效:** 辊锻机的主电机功率小、整机装机功率小, 具有节能高效的优点。
Energy Saving & High Efficiency: The main motor power and the installed power of the roll forging machine is small, which has the advantages of energy saving and high efficiency.
- ✓ **适合连续生产:** 辊锻机适合配置在多工位生产线进行连续生产, 提高生产效率和模具寿命。
Suitable for Continuous Production: Roll forging machine is suitable to be installed in multi-station production line, which improves the production efficiency and die life.

D46系列楔横轧机

CROSS WEDGE ROLLING MACHINE D46 SERIES



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产品介绍

Product Introduction

D46整体式楔横轧机

楔横轧是指圆柱形坯料在两轧辊的模具之间发生连续的局部变形，轧制的工件形状与模具底部型槽的形状一致。模具安装在轧辊上，在轧辊带动下向相同方向旋转，使坯料向相反方向旋转，坯料在楔形中径向压缩、变形。

Integrated Cross Wedge Rolling Machine D46

Cross wedge rolling refers to the process that the barstock's continuous local deformation between dies on the two rollers, which makes the shape of workpiece same as the shape of the die groove. The dies are installed on the roller, and rotates in the same direction, so that the barstock is compressed and deformed in the wedge, rotating in the opposite direction.

楔横轧特点及优点

FEATURES AND ADVANTAGES OF CROSS WEDGE ROLLING

- ✓ **材料利用率高：**轧制工件形状与模具底部型槽形状一致，工件尺寸得以控制，材料利用率大大提升。
High Material Utilization: The shape of the rolled workpiece is same as the shape of the die groove so that the size of the workpiece can be controlled, which effectively improves the material utilization. Compared with other traditional technologies, the material utilization of cross wedge rolling can be improved by 10%-30%.
- ✓ **产品合格率精度高：**楔横轧件金属纤维流线沿产品外观连续分布，晶粒进一步细化，综合机械性能好。
High Pass Rate & High Precision: The cross wedge rolled workpieces' metal flow line is distributed continuously along the appearance of the product, the grain is further refined, and the general mechanical property is good.
- ✓ **实现智能化生产：**进料、成型、表面精整、轧制成型均由机器完成，各过程均不需人工操作。
Intelligence in Production: Completed by machine, process including feeding, forming, surface finishing and rolling need no manual operation.
- ✓ **生产效率高：**通常为其它工艺的2-5倍。根据工件不同可以设计出一出一件或是一出两件。
High Efficiency: The production efficiency usually can be 2-5 times of other processes. According to the different pieces, it can be designed to produce one piece or two pieces at one time.
- ✓ **节能环保：**楔横轧成型过程无冲击、噪声小，可以大大改善工作环境。
Environmental Friendly & Energy Saving: Cross wedge rolling effectively improves the working environment with low noise and no impact.
- ✓ **提高模具使用寿命：**一般精度可以控制在 $\pm 1\text{mm}$ 左右，且工件一致性高。工件规整、锻模受力均匀能够有效提高模具使用寿命。
Service Time of Die Increasing: The general precision can be controlled around $\pm 1\text{mm}$, and the workpiece has high consistency. Regular workpiece and stable force can effectively improve the service life of the die.

大型楔横轧机

LARGE MODEL CROSS WEDGE ROLLING MACHINE



技术参数
Technical Specification

技术参数 Technical Specification	单位 Unit	型号 Model								
		D46-300	D46-400	D46-500	D46-630	D46-800	D46-1000	D46-1200	D46-1400	D46-1600
轧制毛坯最大直径 Diameter of Billet Max	mm	35	45	55	65	85	110	130	150	180
轧制变形长度 Length of Rolled Part	mm	260	300	400	500	600	800	950	1100	1200
模具外径 Outside Diameter of Die	mm	320	400	500	630	800	1000	1200	1440	1650
轧辊直径 Diameter of Roller	mm	240	320	400	500	640	800	1000	1200	1350
轧辊长度 Length of Roller	mm	450	500	500	600	900	1000	1200	1400	1500
轧辊中心距调整量 Adjustment of Gap Between Center of Rollers	mm	±15	±15	±25	±30	±35	±50	±55	±80	±80
主电机功率 Main Motor Power	kW	15	22	30	37	55	110	132	185	250
轧辊转速 RPM of Roller	r/min	28	25	22	12	8.5	6	4.5	4	2.5
轧辊相位调整角度 Adjustment of Roller's Relative Position	°	3	3	3	3	3	3	3	3	3

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产品展示

DISPLAY OF PRODUCTS



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