











## 青岛征和工业股份有限公司

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## QINGDAO CHOHO INDUSTRIAL CO.LTD.

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征和官方公众号



征和官网



征和官方抖音



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公司介绍 Company Introduction
公司简介 Company Profile
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■研发与技术 R&D and Technology
生产设备 Production Equipment
核心技术 Core Technology

■ 产品介绍 Product Introduction

变速自行车链条 Variable Speed Bicycle Chain

6-7 speed	
8 speed	• • • • • • • • • • • • • • • • • • • •
9 speed	
10 speed	
11 speed	•••••
12 speed	••••••
13 speed	•••••••••••••••••••••••••••••••••••••••

## 电助力自行车链条 E-BIKE Chain

7	speed
~	The second

- 8 speed
- 9 speed
- 10 speed .....

## 单速自行车链条 Single Speed Bicycle Chain

Z1S	
E1S	

个性化产品 Personalized Product

炫彩链条 Colorful chain ………………

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LIVE UP TO EVERY RIDE 征和自行车链「不辜负私



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ОН**СНОНО**НОНОН**СНОНО**НОН**СНОНО**НОНОНОНС**НОНО**НОНОНСНОНОНСНОНОНОНСНОНОНСНОНОНО

## 青岛征和工业股份有限公司 Qingdao CHOHO Industrial Co., Ltd.

## 征和-链系统技术领导者

青岛征和工业股份有限公司是国内链传动行业的领军企业,中国机械通用零部件工业协会链传动 分会理事长单位,同时也是中国链传动行业首家A股上市公司,证券代码:003033。

征和E-Bike链系统事业部创立于2021年,依托雄厚的技术实力与产品优势,不断做大做强,积极开 拓市场,获得了良好的口碑与关注。目前与五羊本田、爱玛、九号、云通达、轮翼等知名自行车主机厂建立 了配套关系。征和拥有完善、先进的自行车链系统生产设备及强大的E-Bike链系统研发团队,始终坚持 自主研发的道路,不断创新、改进设计方案和工艺流程,力求为客户提供更加可靠、性价比更优的产品! 征和商标已在120多个国家完成注册,产品远销欧美、东南亚、非洲等数十个国家及地区。

经过四年多时间的迭代研发,征和自行车链条现已包括6-7速、8速、9速、10速、11速,12速,13速等 产品,以及E-Bike专用链条,常规电动车链条和高端电摩专用链条,可以满足通勤、竞技、越野、骑行爱好 者等不同客户群体的使用需求,为客户提供更加高效及轻量化的自行车链系统解决方案,为客户创造价 值,让客户"骑"乐无穷!

## CHOHO, Chain Transmission Technology Leader

Qingdao CHOHO Industrial Co., Ltd. is the leading enterprise in the domestic chain drive industry, the chairman unit of the chain drive branch of China Machinery General Parts Industry Association, and the first A-share listed company in the chain drive industry in China, stock code: 003033.

CHOHO E-Bike chain system division was founded in 2021, relying on strong technical strength and product advantages, constantly bigger and stronger, actively explore the market, and won a good reputation and attention. At present, it has established a supporting relationship with famous bicycle Oems such as Wuyang Honda, AIMA, Ninebot, YUNTONGDA and PROMADE. We have perfect and advanced bicycle chain system production equipment and strong E-Bike chain system research and development team, always adhere to the road of independent research and development, constantly innovate and improve the design scheme and process flow, and strive to provide customers with more reliable and cost-effective products! CHOHO trademark has been registered in more than 120 countries, products are exported to Europe, America, Southeast Asia, Africa and other dozens of countries and regions.

After more than four years of iterative research and development, CHOHO bicycle chain products now include 7-speed, 8-speed, 9-speed, 10-speed, 11-speed, 12-speed, 13-speed as well as E-Bike dedicated chains, regular electric vehicle chains and high-end electric motorcycle dedicated chains, can meet the needs of different customer groups such as commuting, competitive, off-road, cycling enthusiasts, etc., to provide customers with more efficient and lightweight bicycle chain system solutions, create value for customers, let customers "ride" fun!

## 国家技术创新示范企业

## 工业和信息化部

2017年获得行业首批国家技术创新示范企业 2017 The First Batch of National Technology Innovation Demonstration Enterprise



2021 年获得国家制造业单项冠军示范企业 2021 The National Manufacturing Individual Champion Demonstration Enterprise

## 荣誉及认证 Honors and Certifications

国家认定企业技术中心 国家技术创新示范企业 国家高新技术企业 国家制造业单项冠军示范企业 国家工信部专精特新"小巨人"企业 国家级博士后科研工作站 国家及行业标准起草与制修定单位 国家绿色工厂 CMCA 链传动分会理事长单位 中国链传动行业重点出口基地 中国驰名商标 首届青岛市市长质量奖

The National Certified Enterprise Technology Center The National High-tech Enterprise The National Postdoctoral Research Station National and Industry Standards Drafting and Revision Units National Green Factory CMCA Chain Drive Branch President Enterprise The Key Export Base of Chain Drive Industry in China China Famous Trademark First-session Qingdao Mayor Quality Award

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1999年,通过法国 BVQI ISO9002 质量体系认证
2003年,通过挪威 DNV ISO9001 质量体系认证
2007年,通过 TS16949 质量管理体系认证
2009-2015 年,通过德国 TUV 莱茵 ISO9001:2008 质量体系认证
2009-2018 年,通过德国 TUV 莱茵 TS16949:2009 质量体系认证
2015年,通过山东世通 ISO9001:2008 质量体系认证
2018年,通过山东世通 ISO9001:2015 质量体系认证
2018年,通过德国 TUV 莱茵 IATF16949:2016 质量体系认证
2018 年,获得 CNAS 实验室认可证书
2021年,通过德国 TUV 莱茵 ISO9001:2015 质量体系认证
2022年,通过 ISO14001:2015 环境管理体系认证
2022年,通过 ISO45001:2018 职业健康安全管理体系认证
2023年,通过山东世通产品碳足迹认证
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- The National Technology Innovation Demonstration Enterprise
- The National Manufacturing Individual Champion Demonstration Enterprise
- The Ministry of Industry and Information Technology Recognized New, Specialized "Little Giant" Enterprises

- 1999, passed the French BVQI ISO9002 quality management system certification
- 2003, passed the Norwegian DNV ISO9001 quality management system certification
- 2007, passed TS16949 quality management system certification
- 2009-2015, passed the German TUV Rhein ISO9001:2008 quality certification
- 2009-2018, passed the German TUV Rhine TS16949:2009 quality certification
- 2015, passed the Shandong Shitong ISO9001:2008 quality system certification
- 2018, passed the Shandong Shitong ISO9001:2015 quality system certification
- 2018, passed the TUV Rhein IATF16949:2016 quality management certification
- 2018, obtained CNAS laboratory accreditation certificate
- 2021, passed the TUV Rhein ISO9001:2015 quality management system certification
- 2022, passed ISO14001:2015 Environmental management system certification
- 2022, passed the ISO45001:2018 Occupational Health and safety certification
- 2023, passed the Shandong Shitong product carbon footprint certification



## 高效的生产技术 Efficient Production Technology



征和从全球引进高端链条生产和检测设备,保证了产品的高品质。同时,从产品的研发到生产,征和也非常关注生产工艺的优化。作为全球化 运作的供应商,我们拥有优秀员工、先进技术和生产设备,确保了全球范围内批量生产的经济性、高品质和及时供货。高效的生产方式是精密产品 大批量生产的前提。生产的高效率要归功于征和的专有技术,征和公司在冷成形技术、锻造技术、加工和装配等方面均处于行业的一流地位。高质 量和高性价比的产品是我们对客户的承诺和回馈。

截至目前,征和拥有主要生产设备2700多台套,高精尖设备600多台套,包括:高精度冲床、高端切轴机、卷管机、滚筒抛丸机、渗碳网带炉、等 温网带炉、数控车床、链条自动环节机、激光切割机、慢走丝、真空上油线等。拥有各类试验设备100多台套,包括:耐磨试验机、高低频疲劳试验机、 三坐标测量仪、粗糙度轮廓仪、自动影像仪、光谱分析仪、维氏硬度计、金相显微镜等。凭借着国内先进的产品实验室和链条生产组装线,征和具备 了强大的高端链条产品研发及试验能力。

CHOHO imports high-end chain production and testing equipment to ensure the high quality of the products. Meanwhile, from development to production, choho is very concerned about the process optimization. As a global supplier, CHOHO has excellent staff, advanced technology and production equipment to make sure the efficiency, high quality and in-time delivery of mass production globally.

Efficient production mode is the precondition of mass production for precision products. High production efficiency comes from unique proprietary technology. CHOHO group is in the leading position of this industry from cold forming technology, forging, machining and assemlying etc. High quality and cost-effective product is our commitment and feedback to the customers.

Up to now, CHOHO has more than 2700 sets of main production equipments, more than 600 sets of highly sophisticated and advanced equipments, including: high precision punch, high-end shaft cutting machine, pipe winding machine, roller shot blasting machine, carburizing net belt furnace, isothermal net belt furnace, CNC lathe, chain automatic link machine, laser cutting machine, low speed wire cut, vacuum oiling line, etc. We have more than 100 sets of various testing equipments, including: wear tester, high and low frequency fatigue tester, coordinate measuring instrument, roughness profiler, automatic imaging instrument, spectrum analyzer, Vickers hardness tester, metallographic microscope, etc. With the domestic advanced product laboratory and chain production and assembly line, CHOHO has a strong ability of high-end chain product development and testing.







Heat Treatment Technology





Strong Pre-tensioning









Variety of Riveting Methods



征和自主研发升级的销轴渗铬工艺可以使销轴具有耐磨损、抗腐蚀、 抗氧化、抗疲劳、耐高温等优势,提高了链条的强度,使其可以承载 较大的载荷,有效的延长链条的使用寿命。

The Cr-V technology can make the pin have the advantages of abrasion resistance, corrosion resistance, oxidation resistance, fatigue resistance, high temperature resistance and so on.

征和研发升级的网带炉等温盐浴工艺,材料品质高,稳定性好, 保证了链条卓越的力学性能。

Developed and upgraded mesh belt Isothermal salt bath technology process, high quality material, good stability, to ensure the excellent mechanical properties of the chain.

强力预拉是对装配好的整条链条施加约2/3Q(Q为链条的极限拉伸载 荷)预拉载荷,使链板孔边缘产生残余压应力。当链条工作受到拉力作 用后,残余压应力抵消掉部分拉应力,使得链板的最大应力下降,从而 提高链板的疲劳强度。

The chain is strongly pre-tensioned before sell, which can reduce the initial elongation and improve anti-fatigue strength.

利用真空泵对上油容器抽出空气,使链条零件内部空气被抽出,形成负压,使各零件缝隙中充满耐磨油脂。该项技术使链条上油均匀充分,润滑良好,提高链条耐磨性能,寿命延长30%以上。

The vacuum pump is used to extract air from the oil container, so that the air inside the chain parts is extracted, forming negative pressure, so that the cracks in the parts are filled with wear-resistant grease.

征和E-bike链条配备四角、两角、圆铆、平铆等接头方式, 不仅兼顾了强度,更能适应顾客的不同需求。

CHOHO bicycle chain is equipped with Four-corners, Two-corners, Roundriveting, Flat-riveting and other joint modes. It not only takes into account the strength, but also adapts to the different needs of customers.





































性能指数



超耐磨 SUPER WEAR-RESISTAN



LIGHTWEIGHT

兼容性 COMPATIBLE

静音性 NOISELESS





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## СНОНО

































### \*快速组装工具也可用

Quick assembly tools are also available

\*新的台阶式销轴,更具静谧性

New stepped pin, more restful





兼容性 COMPATIBLE













- \*可重复使用 Recyclable
- \*快速组装工具可用 Quick assembly tools available
- \*兼容同速别其他系列 Compatible with the same speed other series







高耐磨 HIGH WEAR-RESISTANT







生化产品 Personalized Product





















## СНОНО



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产品 类别	应用 车型	速别及型号 Speed & Model							
Product Category	Application Model	6/7 speed	8 speed	9 speed	10 speed	11 speed	12 speed	13 speed	1 speed
<b>变速</b> 自行车 Variable Speed Bicycle	山地车 MTB	●Z7 ●Z7S ●Z7-B	●Z8 ●Z8S ●Z8-B	●Z9 ●Z9S ●Z9-B	●Z10 ●Z10-B	●Z11 ●Z11-C			
	<mark>公路车</mark> ROAD/GRVAL		●Z8 ●Z8S ●Z8-B	●Z9 ●Z9S ●Z9-B	●Z10 ●Z10-B	●Z11-C	•Z12 •Z12DS	•Z13	
	LIFESTYLE		●Z8 ●Z8S ●Z8-B	●Z9 ●Z9S ●Z9-B	●Z10 ●Z10-B	•Z11-C	•Z12 •Z12DS	•Z13	
	轻量化 Light-weight				●Z10-L	●Z11-L1	●Z12-L ●Z12-DSL	●Z13-L	
E-Bike	500W 以下 Below 500W			•E9S	●E10S				
	500W 以上 More than 500W	•E7S	•E8S						
电动 自行车 Electric Bicycle	国际电动车 International Electric Bicycle								•Z1S
	<b>高端电摩</b> High-end Electric Motorcycle								•E1S

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