

CHOHO 征和 摩托车链系统



征和 链系统技术领导者

Choho, Chain Transmission Technology Leader

行业首家A股上市公司

证券代码 003033



CHOHO

KING
OF RACING CHAIN

征和链条 赛车之王



CHOHO sponsor FELO-GRESINI
2023 MotoE start a new journey!

11
FERRARI



冠军车手

2022 MotoGP-MotoE

**WORLD MotoGP-MotoE
CHAMPION 2022**

Matteo Ferrari #11

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为全球摩托车提供链系统解决方案
Chain transmission system solutions for global motorcycles

..... 36 years of CHOHO

征和 链系统技术领导者

Choho,Chain Transmission Technology Leader



征和总部

征和上海中心

征和青岛中心

征和泰国工厂

青岛征和工业股份有限公司 Brief Introduction

青岛征和工业股份有限公司，创建于 1987 年。创建以来，公司从小到大，从弱到强，始终保持高速、健康的发展，目前，征和已成为中国链传动行业首家 A 股上市公司、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和国家工信部专精特新“小巨人”企业。在工业自动化链传动系统、发动机链系统、车辆链条等领域，征和已成为行业领军企业。2022 年，征和产品为昆船、新松、青岛软控、沈飞、信源、海尔、中通等上百家知名厂家配套；车辆链系统已为本田、铃木、雅马哈、KTM R2R、宝马、大长江、比亚乔、隆鑫无极、哈雷戴维森、本田技研、吉利、比亚迪、江铃福特等五十多家企业提供产品和技术服务；农机链系统为 CLAAS、雷沃、爱科、迪尔、巨明等行业知名厂家配套。

目前，征和公司主导产品已达国际先进水平，承担多项国家级重大科研项目，并制修定了 32 项国家或行业标准，获得 230 余项国家发明和新型专利，为行业的技术进步起到了引领和指导作用。

Qingdao CHOHO Industrial Co., Ltd was founded in 1987. Since its establishment, the company has grown from small to large, weak to vigorous, and has maintained high-speed healthy development. At present, CHOHO has become the first A-share listed company in the Chinese chain transmission industry, the national certified enterprise technology center, the national technology innovation demonstration enterprise, the national high-tech enterprise, the national manufacturing individual champion demonstration enterprise, and The Ministry of Industry and Information Technology recognized new, specialized "Little Giant" enterprises. CHOHO has become the industry leader In industrial automation chain transmission and engine chain systems, vehicle chain, and other fields. In 2022, CHOHO's products supported over 100 well-known manufacturers such as KESC, SIASUN, MESNAC, AVIC, SIWUN, Haier, ZTO, and many others. The vehicle chain system has provided products and technical services to more than 50 enterprises, including Honda, Suzuki, Yamaha, KTM R2R, BMW, Dachangjiang, Piaggio, Loncin-Voge, Harley-Davidson, Honda Technology Research, Geely, BYD, and Jiangling Ford . The agricultural chain system supports well-known manufacturers in CLAAS, LOVOL, AGCO, JOHN DEERE, GIMIG, and others.

Now, CHOHO's leading product has reached the advanced international level. CHOHO is responsible for several nationally significant research and development projects, has amended 32 national or industrial standards, and obtained more than 230 national inventions and new model patents. CHOHO has performed the role of leading and instructing in the technology development of this industry.

「征和公司为一流摩托厂提供原装配套

CHOHO supply original chains for first-class motorcycle factories globally」

■ 五羊本田
WUYANG-HONDA

■ 建设雅马哈
JIANSHE-YAMAHA

■ 新大洲本田
SUNDIRO-HONDA

■ 轻骑铃木
QINGQI-SUZUKI

■ 钱江贝纳利
BENELLI-Q.J.

■ KTM R2R

■ 春风动力
CFMOTO

■ 豪爵铃木
HAOJUE-SUZUKI

■ 隆鑫宝马
LONCIN-BMW

■ 隆鑫无极
LONCIN-VOGE

■ 哈雷戴维森
HARLEY-DAVIDSON

■ 意大利比亚乔
PIAGGIO



征和链传动工厂



征和发动机链系统工厂



征和工业自动化部件工厂



征和工业（浙江）有限公司

经营范围

- ◆ 摩托车链系统
- ◆ 工业链系统
- ◆ 汽车链系统
- ◆ 农机链系统
- ◆ 舰船链
- ◆ 自行车链
- ◆ 锯链

Business Scope

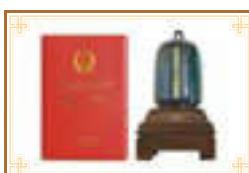
- ◆ Motorcycle chain system
- ◆ Industiral chain system
- ◆ Automotive chain system
- ◆ Agricultural Chain system
- ◆ Vessel chain
- ◆ Bicycle chain
- ◆ Saw chain

技术 / 专利

- ◆ 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
- ◆ 国家专精特新小巨人企业
- ◆ 首届中国机械工业优质品牌
- ◆ 首届青岛市市长质量奖
- ◆ 230 余项国家发明和新型专利

Honors

- ◆ National-Recognized Enterprise Technology Center
- ◆ National Technology Innovation Demonstration Enterprise
- ◆ National High-Tech Enterprise
- ◆ National Manufacturing Single Item Champion Demonstration Enterprises
- ◆ National Specialized New Small Giant Enterprise
- ◆ The first China Machinery Industry Quality Brand
- ◆ The first Qingdao Mayor Quality Award
- ◆ More than 230 national invention and new type patents



荣誉

2013年，春风动力“优秀供应商”、新大洲本田“优秀供应商”
2014年，五羊本田“免检供应商”、新大洲本田“优秀供应商”
2015年，五羊本田“优秀供应商”、新大洲本田“优秀供应商”、大长江“新产品开发奖”、轻骑铃木“优秀合作奖”、宗申“品质优秀奖”
2016年，新大洲本田“优秀供应商”
2017年，新大洲本田“优秀供应商”、钱江“优秀供应商”、五羊本田“品质卓越奖”
2018年，大长江“质量进步奖”、五羊本田“优质服务奖”、雅马哈“品质优秀奖”
2019年，春风动力“优秀协作奖”
2020年，新大洲本田“优秀供应商”
2021年，五羊本田“品质卓越奖”、大长江集团“成本改善奖”
2022年，五羊本田“优质服务奖”

Honors

In 2013, "Excellent Supplier" from CFmoto and Sundiro Honda.

In 2014, "Supplier Exempt from Inspection" from Wuyang Honda and "Excellent Supplier" from Sundiro Honda.

In 2015, "Excellent Supplier" from Wuyang Honda and Sundiro Honda, "New Product Development Award" from Dachangjiang, "Excellent Cooperation Award" from Qingqi Suzuki and "Quality Excellence Award" from Zongshen.

In 2016, Sundiro Honda "Excellent Supplier"

In 2017, "Excellent Supplier" from Sundiro Honda and Qianjiang , "Quality Excellence Award" from Wuyang Honda.

In 2018, "Quality Progress Award" from Grand River, Wuyang Honda "Excellent Service Award", Yamaha "Quality Excellence Award".

In 2019, "Excellent Collaboration Award" from CFmoto.

In 2020, Sundiro Honda "Excellent Supplier"

In 2021, "Quality Excellence Award" from Wuyang Honda and Grand River Group "Cost Improvement Award"

In 2022, "Service Excellence Award" from Wuyang Honda



认证

1999年，通过法国 BVQI ISO9002 质量管理体系认证
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年-2015年，通过德国 TUV 莱茵 ISO9001:2008 质量管理体系认证
2009年-2018年，通过德国 TUV 莱茵 TS16949:2009 质量管理体系认证
2015-2018年，通过青岛世通 ISO9001 质量管理体系认证
2018年，通过德国 TUV 莱茵 IATF16949:2016 质量管理体系认证
2018年，获得 CNAS 实验室认可证书
2021年，通过德国 TUV 莱茵 ISO9001:2015 质量管理体系认证
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

Certificates

In 1999, passed France BVQI ISO9001 Quality Management System Certification
In 2003, approved by DNV ISO9001-2000 Quality System certificate
In 2007, approved by TS 16949 Quality System certificate
2009 - 2015, passed the German TUV Rheinland ISO9001:2008 quality Quantity Management System Certification
2009 - 2018, passed the German TUV Rheinland TS16949: 2009 Quality Management System Certification
2015-2018, passed the ISO9001 Certification of Qingdao Stone
In 2018, passed the German TUV Rheinland IATF16949:2016 quality management System Certification
In 2018, obtained the CNAS laboratory accreditation certificate
In 2021, passed the German TUV Rheinland ISO9001:2015 quality management System Certification
In 2022, passed ISO14001:2015 Environmental Certification
In 2022, passed ISO45001:2018 Health and Safety Certification
In 2023, pass the product carbon footprint certification of Shandong Shitong

配套

2013年，意大利比亚乔，配套齿形链和套筒链
2014年，国宾车春风动力 650cc，配套链轮
2014年，钱江意大利 Benelli 600cc，配套 SX 驱动链，替代意大利进口链条
2015年，宝马摩托 BMW K8X，配套 25SH-52L，K8X 为宝马最畅销车型
2015年，印度铃木，配套 428HO 油封链条
2016年，国宾车春风动力 650cc，配套正时链系统
2016年，豪爵铃木丽驰 520X 链条
2017年，意大利比亚乔越野车链条，意大利雅马哈大排量链轮
2017年，宗申 500 车型链条，钱江 500 贝纳利链条，畅销欧洲
2021年，BENELLI 贝纳利 1200GT 发动机正时链条、整车 525EX 配套
2021年，摩托莫里尼 Moto Morini 赛文佐 6½ 整车链条 ,520SX2 链轮配套
2022年，本田 400 实现发动机正时链条、整车 520UX 配套
2022年，本田 NSS350 实现发动机正时链条配套

OEM

In 2013, silent chains and bushing chains OEM for Piaggio Italy
In 2014, sprockets OEM for "The Ambassador Motorcycle" CFMOTO 650cc
In 2014, SX drive chains OEM for QJ Benelli 600cc, replacing original Italian chains
In 2015, 25SH-52L OEM for BMW K8X, K8X is the best-seller model.
In 2015, oil-sealed chains OEM for India Suzuki
In 2016, timing chains OEM for "The Ambassador Motorcycle" CFMOTO 650cc
In 2016, X-Ring drive chain for Haojue Suzuki 250cc
In 2017, Off-road drive chain for Piaggio Italy, sprocket for Yamaha Europe 700cc
In 2017, drive chain for Zongshen 500cc and Benelli 500cc
In 2021, engine timing chain and 525EX OEM for BENELLI 1200GT
In 2021, 520SX2 chain and sprocket oem for Moto Morini Seven 6 ½
In 2022, engine timing chain and 520UX chain OEM for Honda 400
In 2022, Engine timing chain OEM for Honda NSS350



链传动系统 – 开发流程

Chain Drive System- Development Process

征和可为客户提供链传动系统设计开发的全流程服务。

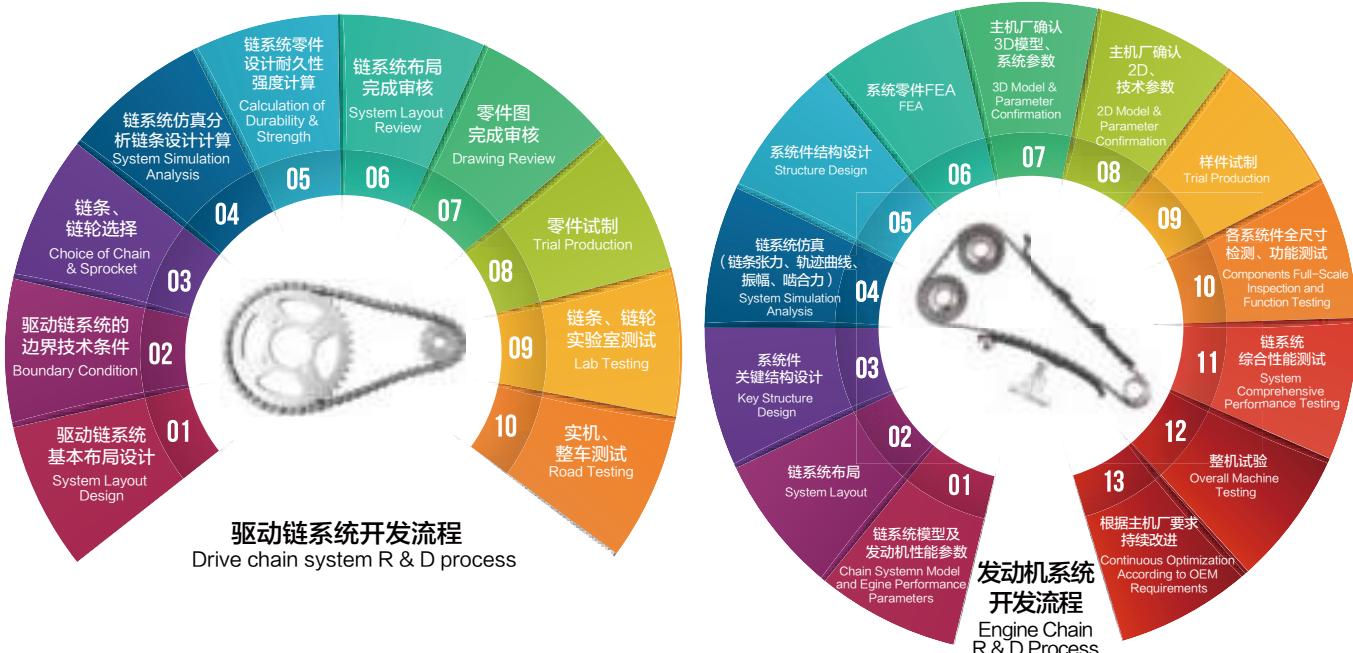
产品从摩托车后驱动链传动系统到发动机正时、油泵、启动链传动系统，设计开发从链系统的最初构想设计、布局设计、结构设计到系统的仿真分析和优化设计，再到链系统的试制、测试和再升级。在生产工艺和研发创新方面，征和拥有先进的专有技术，及快速灵活的造型和生产技术，能在短时间内完成各种链系统样品。做到了既能高效研发，又能达到最高质量标准。

征和的核心技术不仅仅针对单个产品，还延伸到了整个系统中。单个零部件除了进行台架试验外，也被安装到系统总成或整车 上进行测试，产品的优化、升级总是在考虑整个系统的前提下完成的。

Choho can provide customers with the whole process service of chain transmission system R & D.

Products range from motorcycle rear drive chain drive system to engine timing, oil pump, starting chain transmission system, and design and development from chain system initial concept design, layout design, structural design to system simulation analysis and optimization design, and then to the trial production, testing and upgrading. In terms of production technology and R&D innovation, Choho has advanced proprietary technology and fast and flexible modeling and production technology, can complete various chain system samples in a short time. It has achieved both high-efficiency research and development and the highest quality standards.

Choho's core technology is not only for a single product, but also extends to the entire system. In addition to bench testing, individual components are also installed on the system assembly or the vehicle for testing. Product optimization and upgrade are always done under the premise of considering the entire system.



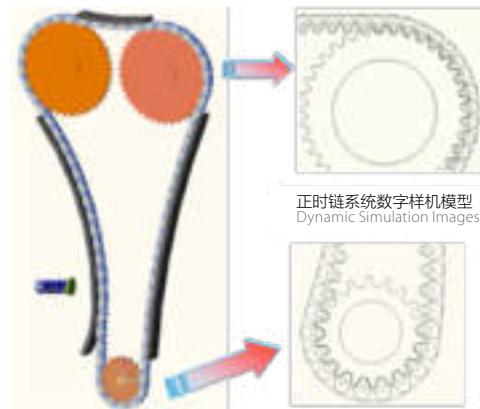
链传动系统 – 分析和优化设计 Chain Drive System- Analysis Process

摩托车链传动系统包括后驱动链传动系统和发动机正时链传动系统、油泵链传动系统等。

后驱动链传动系统主要由小链轮、大链轮（缓冲体）和驱动链条组成，主要作用是将发动机的动力连续有效的传动到机车后轮，实现机车的各种运行工况。驱动链系统传动可靠、耐久性好、且易维护。

发动机正时链系统主要由曲轴链轮、凸轮轴链轮、正时链条、导板、张紧板和张紧器组成，主要作用是在规定的曲轴转角时刻准确开启和关闭进排气门，实现发动机正常连续运行。

利用多体动力学仿真分析技术，研究摩托车链传动系统在具有多约束边界条件下不同转速工况的动态特性，得到链传动系统链节的运动轨迹、链节的张力、驱动链轮和负载链轮的传动比及张紧器、张紧板、导板等的接触力，分析出链系统的受力及其振动或位移，并进行优化。这对链系统的优化设计、样件制作和实际应用具有重要指导意义。



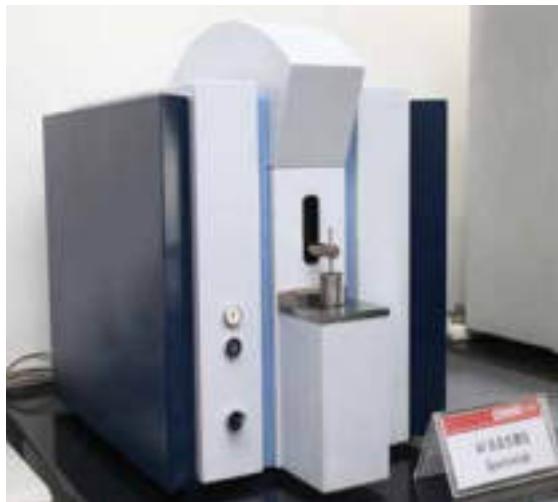
Motorcycle chain drive system includes rear drive chain drive system, engine timing chain drive system, oil pump chain drive system and so on. The rear drive chain drive system is mainly composed of small sprocket wheel, large sprocket wheel (buffer body) and drive chain. The main function is to continuously and effectively drive the engine power to the rear wheel of the locomotive, so as to realize various operating conditions of the locomotive. The drive chain system is reliable, durable and easy to maintain.

Engine timing chain system is mainly composed of crankshaft sprocket, camshaft sprocket, timing chain, guide plate, tensioner and tensioner. The main function is to accurately open and close the inlet and exhaust valve at the specified crankshaft turning time, so as to realize the normal continuous operation of the engine.

Using multi-body dynamics simulation analysis technology, the motorcycle chain drive system in the working condition of constraint boundary conditions with different speed of the dynamic nature of the trajectories of link chain drive system is obtained, the tension of chain link, drive chain and sprocket gear ratio and load tensioner, tensioning plate, guide the contact force, the stress of the analysis of the chain system and its vibration or displacement, and optimize it. This has important guiding significance to the optimization design, sample making and practical application of the chain system.







先进的生产和检测设备

青岛征和拥有高速冲床、连续式热处理网带炉、高精度线切割机、坐标磨床、喷丸机、高速管销切削机、全自动链条装配线和超声波自动清洗热浸油线等世界一流的生产制造设备，形成专业化大规模高品质稳定的生产方式。拥有金相、化验、链长、拉力、硬度、火花、扭曲、压出力等常规检测仪器和耐磨试验及高速疲劳试验机等性能测试设备，使每条链条和链条零件都经过严格的质量检测，确保销售的每条链条都具有可靠的优异质量。

Advanced Equipments

Qingdao Choho possesses advanced manufacture equipments such as high speed punching machines, continuous mesh belt heat treatment furnace, high accurate cutter, coordinate grinding machines, shot peening machine, high speed tube cutting machine, automatic chain assembling line, supersonic wave cleaning machines and inspection instruments such as metallographic test machine, chemical analysis machine, chain length, tensile and hardness test machine, fatigue test machine, spark test, twist test and push off force test equipments. The equipments guarantee the stable and reliable quality of every chain.

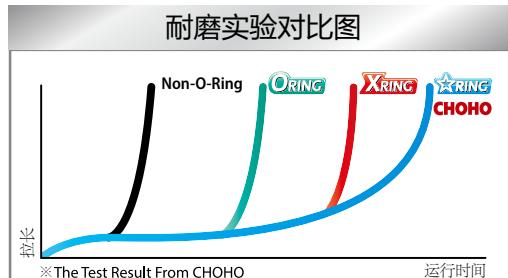
产品特性 Product Feature

1

O/X密封圈



征和采用“星型”密封圈



▲普通链条的润滑油容易溢出



▲O型圈封住润滑油出口的方式



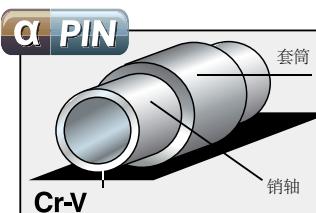
▲X型圈封住润滑油出口的方式



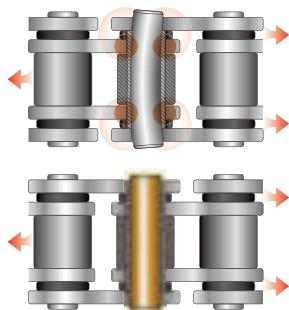
▲星型圈封住润滑油出口的方式

2

a处理销轴

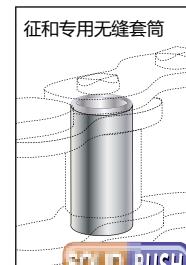
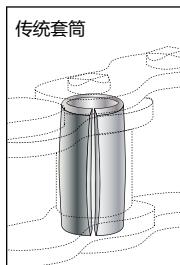


▲赛车激烈加速和刹车时，对链条冲击力极大。高强度的销轴可满足这一要求。



3

无缝套筒



无缝套筒，采用冷挤压技术使用成型，圆筒无缝隙，真圆度大大提高，不易变形。无缝套筒与销轴的配合是以面接触而不是以点接触，增加产品耐磨性能。

4

真空上油



真空上油技术：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，很好的提高了链条的耐磨性能和使用寿命。

5

高附着力的润滑脂



赛车级白色油脂，高附着力，耐磨，减噪，耐高温，适合250km/h以上的高速运动。

发动机链条产品特性

CRV处理技术

传统链条对销轴的处理工艺均采用传统的C-N处理。征和采用CRV处理技术和链条的强化预拉技术，增强了独家销轴表面强度和链条耐疲劳强度，使链条耐久性能大幅提升。



CRV硬化层▶



常规C-N硬化层▶

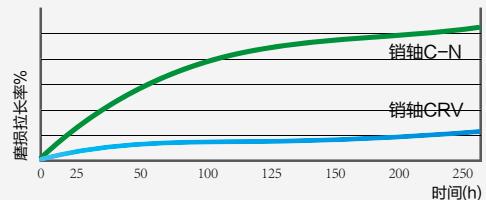
该技术主要应用于销轴表面强化处理，能够使销轴表面硬度达到2200HV，可使链条的耐磨性能提高100%以上。

欧洲宝马

原装配套



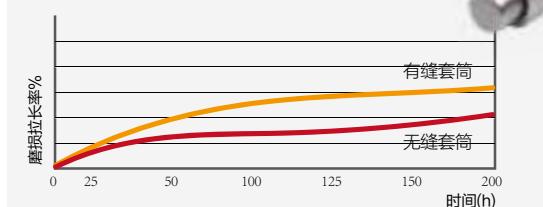
销轴CRV处理与C-N处理耐磨对比曲线



S25H无缝套筒新工艺

传统链条多采用卷制套筒，S25H引入冷墩工艺，无缝套筒大幅提高链条的耐磨性能。

有缝套筒与无缝套筒耐磨对比曲线



类型	系列	链条型号	适合排气量 CC
内外复合齿合齿形链	强化型	SCL04CF-5	50-300
		SCL04CF-7	200-800
		SCL04CF-9	400-1000
超强型 CrV	SSCL04CF-5	100-500	
	SSCL04CF-7	200-900	
	SSCL04CF-9	400-1300	
无缝套筒链	超强Cr	S25H	200-900

涨孔链扣

■ 大排量摩托车请采用涨孔链扣

■ 涨孔链扣安装工具



涨孔链扣与普通链扣链接强度比较

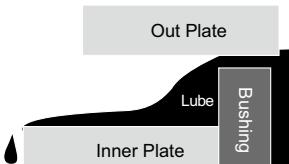
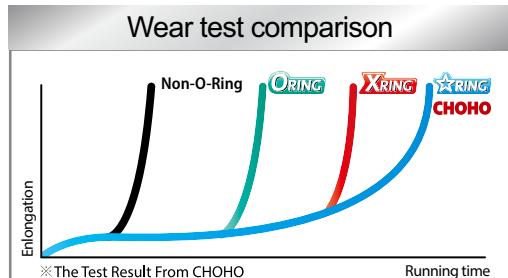
传统链接方式只能达到链条强度的70%，
涨孔式能提升至100%，
所以建议大排量摩托车使用涨孔式链扣。

链条强度对比图

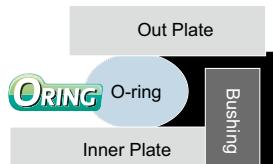


1

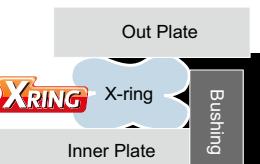
O/X Ring



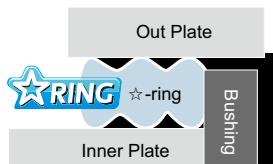
▲ The lubricating oil of ordinary chains is easy to overflow



▲ How O ring seals the outlet of lubrication oil



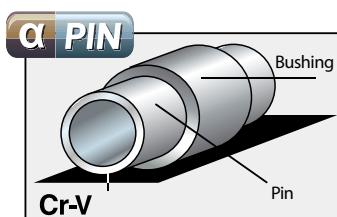
▲ How X ring seals the outlet of lubrication oil



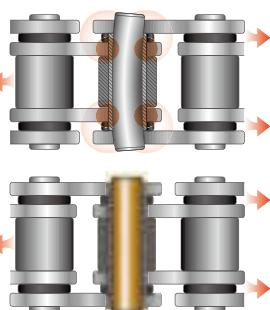
▲ How star-ring seals the outlet of lubrication oil

2

α Treated Pin

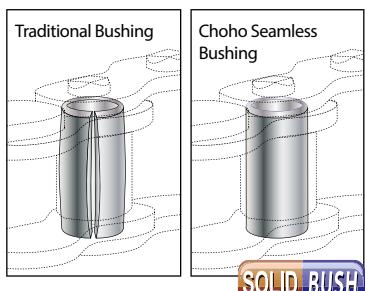


▲ When the car accelerates and brakes violently, the chain is struck with great force. High-strength pins can meet this requirement.



3

Seamless Bushing



Seamless bushing is molded by cold extrusion technology, the cylinder has no seam, the roundness is greatly improved, and it is not easy to deform. The fit of the seamless bushing and the pin is surface contact instead of point contact, which increases the wear resistance of the product.

4

Vacuum Oiling



A vacuum pump is used to extract air from the oiling container, so that the air inside the chain parts is drawn out, forming a negative pressure, and filling the gaps of the parts with wear-resistant grease. This technology makes the chain oil evenly and fully, good lubrication, improves the wear resistance of the chain, and extends the life by more than 30%

5

High Adhesion Grease

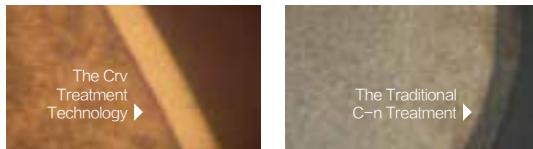


Racing grade white grease, high adhesion, wear resistance, noise reduction, high temperature resistance, suitable for high speed movement over 250km/h

Engine Chain Feature

CrV Treatment Technology

The traditional chain treatment process for the pin adopts the traditional C-N treatment, CHOHO enhance the surface strength of the pin and the fatigue strength by the CrV treatment technology and the strengthened pre-loading technology, which greatly improves the durability of the chain.

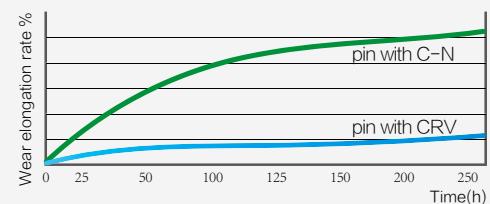


This technology is mainly used in the surface strengthening treatment of the pin shaft, which can make the surface hardness of the pin shaft reach 2200HV, and can improve the wear resistance of the chain by more than 100%

BWM Germany OEM

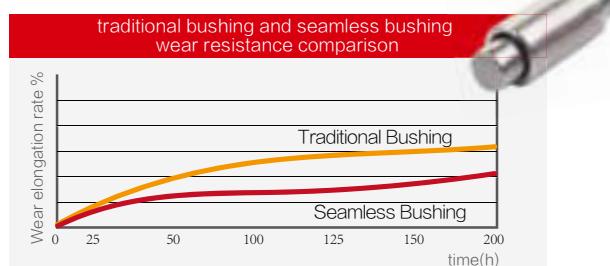


CrV Treatment And C-n Treatment Wear Resistance Comparison



S25H Seamless Bushing

Traditional chains mostly use formed bushings, S25H introduces cold forging technology, seamless bushing greatly improve the wear resistance of the chain



Type	Series	CHOHO NO.	Suitable Displacement CC
Silent Chain	Super Series	SCL04CF-5	50-300
		SCL04CF-7	200-800
	Professional Series Crv	SCL04CF-9	400-1000
Seamless Bush Chain	Professional Series Cr	SSCL04CF-5	100-500
		SSCL04CF-7	200-900
	Professional Series Cr	SSCL04CF-9	400-1300
Seamless Bush Chain	Professional Series Cr	S25H	200-900

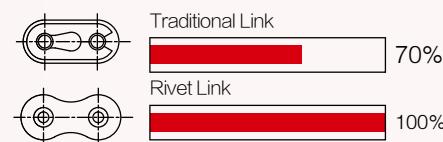
Rivet Chain Connecting Link

Please use rivet link for high power motorcycles Tools



Rivet Link Vs Normal Link

The chain strength of traditional linking is only 70% of the chain, rivet type can increase to 100%.



征和降噪链系统 Noise Reduction Chain System

长效降噪解决方案

Long-lasting noise reduction solution

征和一直致力于改善全球摩托车链轮、链条普遍的噪音痛点问题，通过我们长时间技术分析、研究与测试，推出了征和新一代降噪链系统，通过对链条、链轮的优化配置，经过试验，征和新一代降噪链系统能够有效降低噪音 **70%** 以上。征和公司
将把链系统噪音问题作为一个专项课题来攻克，我们将继续优化工艺，持续改进，为全球客户和消费者提供更好的链系统产品和解决方案。

We have been committing to reduce the noise problem of motorcycle sprockets and chains. Through long time analysis, research and test we launched the new generation of noise-reduction chain transmission system. The new generation of noise-reduction chain transmission system reduce noise more than **70%** by optimization of the chain and sprocket. CHOHO will devote themself to chain and sprocket noise-reduction. We will continue to optimize the processes and keep improving to provide better chain transmission system and solution for customers and consumers across the globe.



材料升级 Material upgrades

新一代降噪小链轮

A new generation of noise-reduction front sprocket

改变挂胶结构

Change the structure of the rubber

新型橡胶材料

New rubber material



优化设计 Optimize the design

高精度大链轮

High precision rear sprocket

提升精度

Improve accuracy

精确啮合

Accurately meshing



星型密封圈 Star seal

高强度轻量化链条

High-strength lightweight chain

专用密封圈

Special sealing rings

减阻降噪

Friction and noise reduction



全新升级
强效降噪

征和轻量化链条 Lightweight Chain

轻松舒适 骑行享受

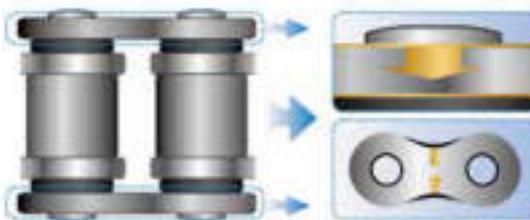
Easy and comfortable riding

1 链板片型优化

Upgrade shape of chain plate

链板采用轻量化片型设计，链片厚度变薄，腰部收窄，特别适用于包胶链轮。

Lightweight design of chain plate (inner chain plate thickness, narrow waist plate, especially suitable for sprockets with rubber)

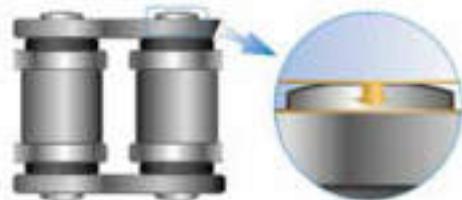


2 销轴头部优化

Pin head optimization

销轴轻量化设计，缩短链条整体宽度，实现整链轻量化。

The lightweight design of the pin reduce the overall width of the chain and reduce the weight of the whole chain.

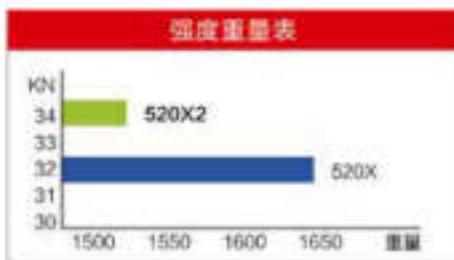


3 材料、工艺双升级

Upgrade both materials and processes

材料升级匹配高强度工艺，实现轻量化高强度。

Material upgrades match high-strength processes to achieve lightweight and high strength.



征和振明链系统 Zenming Chain System

无与伦比的动力体验

Unparalleled power experience

征和振明链系统，致力于引领摩托车驱动技术发展，提供更加优质、高性价比的产品，超出客户预期的传动解决方案。

Zenming Chain System is committed to leading the development of motorcycle drive technology and providing more high-quality, cost-effective products, transmission solutions that exceed customer expectations.



疾如风的爆发力 Explosive power

动力直接不损耗 加速迅猛 无顿挫感



徐如林般的静音 Silent like a bamboo forest

朗朗的悦耳声 塔塔的节奏感 骑行享受



侵掠如火的激情 Fiery passion

外形酷炫 材料科技 极具动感

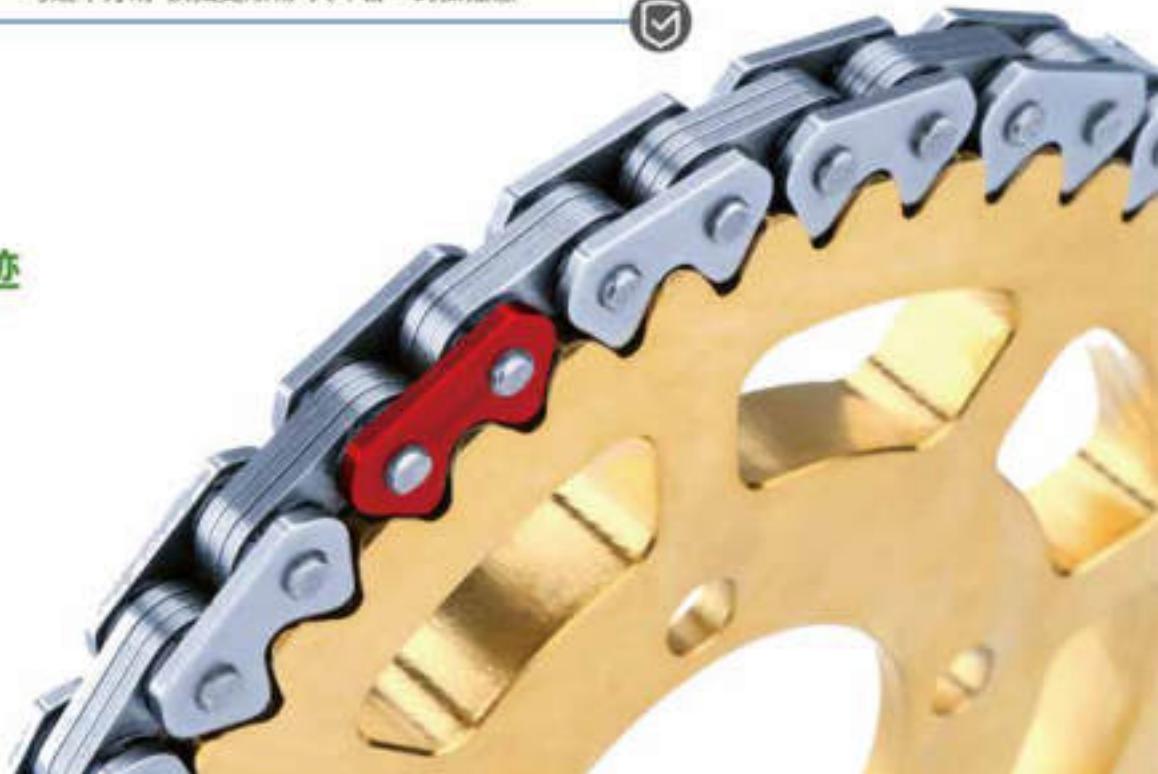


不动如山的稳定 Stable as a mountain

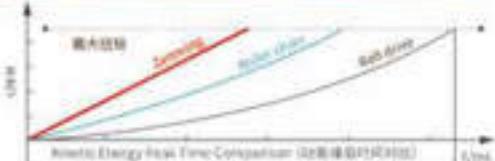
弯道不打滑 换挡更顺畅 人车合一的操控感



碳足迹
认证



动力扭矩测试 Power torque test



◎ 试验证明，装配齿形链的车辆可更快达到扭距峰值^①。精良的动力输出得益于齿形链独特的齿形啮合设计，相较于其它传动方式，优势明显！

^① Test shows that vehicles equipped with Zerring chain achieve peak torque faster than those power output comes from the unique tooth meshing design of Zerring chain, which has obvious advantages compared with other transmission methods.

传动效率测试 Transmission efficiency test



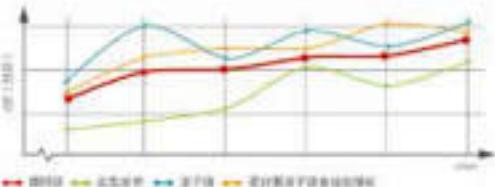
◎ 齿形链系统相比轮带系统（静态传动效率+动态传动效率）提升0.4%，动态传动效率（变速传动效率）提升高达0.6%！更有助于节能减排、提升续航能力。

Compared with the belt system, the Zerring chain system can increase the static transmission efficiency (constant speed and constant torque) by 0.4%, and the dynamic transmission efficiency (variable speed and variable torque) by up to 0.6%. It can effectively save energy and improve battery life.

◎ 强调越野性的抗扭性跟大幅提升^②，强度和其他传动方式有明显改善，最大程度的满足用户的个性化需求及骑行安全性！

^② The tensile performance of the Zerring chain system has been greatly improved^②, and the strength has been significantly improved compared with other transmission methods, which can meet the user's individual needs and riding safety to the greatest extent.

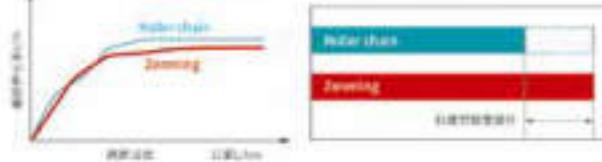
噪音测试 Noise test



◎ 测验试验结果^③表明，在静音方面，齿形链效果出众。

^③ Noise test result^③ shows that Zerring Chain is superior in terms of quietness.

台架及全地形测试 Bench and off-terrain test



◎ 600小时台架试验伸长率及4万公里全地形路试伸长率均小于1%，通过数据说明齿形链的耐用性和卓越，抗疲劳性的出众，能够应对各种路况及超长骑行。

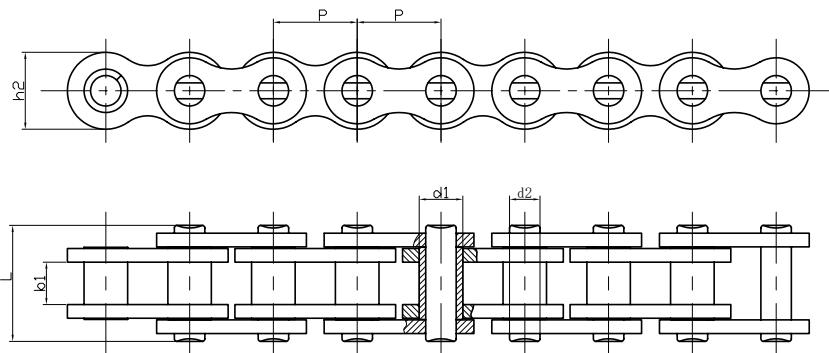
The elongation rate of the 600 hour bench test and the 40,000 kilometer off-road road test are both less than 1%. The data show that the Zerring chain has excellent wear resistance and fatigue resistance, and can cope with various road conditions and ultra-long rides OK.



适用于：

中大排量摩托车与大功率电摩
重型机车及有特殊强度要求的车型
特殊外观及个性化定制需求的车型

套筒链 Bushing Chain



标准型: 高性价比，满足普通发动机需求

Standard series: high cost performance, meeting the needs of ordinary engines

耐磨型: 销轴采用渗金属处理，耐久性能提升 1.5 倍

Anti-abrasion series: the pin is treated with metal infiltration, and the durability can be increased by 1.5 Times

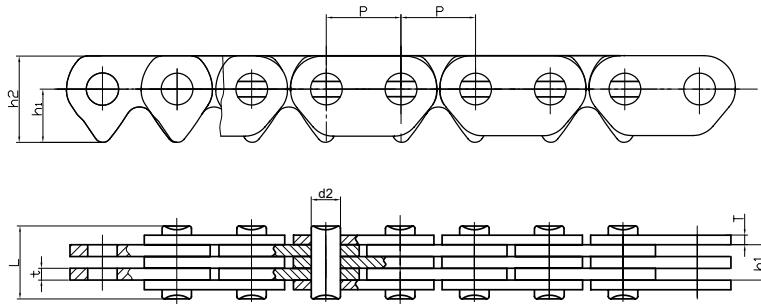
强化型: 套筒采用无缝工艺，耐久性能优于耐磨型

Super series: the sleeve adopts seamless technology, and its durability is better than wear-resistant type

超强型: 结合耐磨型和强化型特性，耐久性能提升 2.5 倍

Professional series: combining wear-resistant and reinforced features, durability can be increased by 2.5 Times

系列分类 Series classification	征和链号 CHOHO NO.	节距	套筒外径	内节内宽	销轴直径	链板高度	销轴长度	抗拉强度	每米重量
		Pitch	Bush Dia	Width Between Inner Plates	Pin Dia	Plate Height	Pin Length	Ultimate tensile strength	Weight per meter
		P	d1 max	b1 min	d2 max	h2 max	L max	Q min	q
		mm	mm	mm	mm	mm	mm	KN	kg/m
标准系列 Standard Series	A25H	6.35	3.3	3.18	2.31	5.9	8.9	5.5	0.17
	AF25H	6.35	3.3	3.18	2.31	5.9	8.9	5	0.21
	A25HT	6.35	3.3	3.18	2.31	5.9	9.2	6.2	0.2
耐磨系列 Anti-Abrasion Series	25	6.35	3.3	3.18	2.31	6	7.9	3.63	0.15
	25H	6.35	3.3	3.18	2.31	5.9	8.9	5.5	0.17
	25HT	6.35	3.3	3.18	2.31	5.9	9.2	6.2	0.2
	25SH	6.35	3.3	3.18	2.00	5.9	8.9	3.9	0.18
	F25H	6.35	3.3	3.18	2.31	5.9	8.9	5	0.21
强化系列 Super Series	S25H	6.35	3.3	3.18	2.31	5.9	8.9	5.5	0.17
	219H1	7.774	4.6	5	3.01	7.43	11.5	6.5	0.28
超强系列 professional Series	S25H-R	6.35	3.3	3.18	2.31	5.9	8.9	5.5	0.17
	S25HT-R	6.35	3.3	3.18	2.31	5.9	9.2	6.2	0.2
	S25SH	6.35	3.3	3.18	2.00	5.9	8.9	3.9	0.18
	SF25H-R	6.35	3.3	3.18	2.31	5.9	8.9	5	0.21
	SF219H	7.774	4.6	4.90	2.65	7.40	12.20	9.00	0.33



82Rh 标准型链条: 适合传递功率大, 无噪音要求的发动机

82Rh Standard type: suitable for high-power engines with no noise requirements

82Rh 耐磨型链条: 销轴采用渗金属处理, 耐磨性能提升 1.5 倍

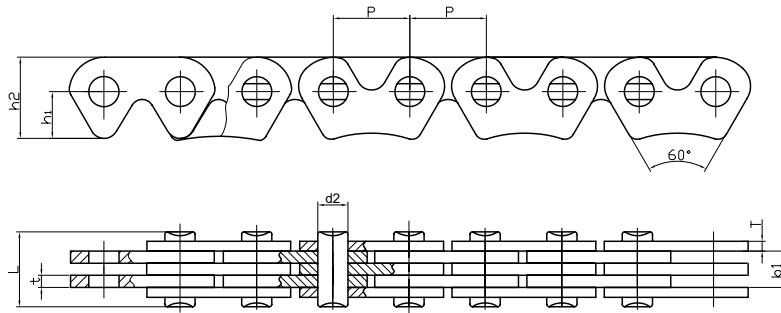
82Rh Anti-abrasion series: the pin shaft is treated with metal infiltration, and the durability can be increased by 1.5 Times

98Rh 强化型链条: 采用外啮合形式, 传递功率大, 抗拉强度大

98Rh Super series: adopts external meshing, high power transmission and high tensile strength

系列分类 Series classification	征和链号 CHOHO NO.	节距	片数组合	链宽	销轴直径	销轴长度	链板厚度	链板高度	孔心到齿尖距离	抗拉强度	每米重量
		Pitch	Number of Plates	Chain Width	Pin Dia	Pin Length	Plate Thickness	Plate Height	Distance from hole center to tooth tip	Ultimate tensile strength	Weight per meter
		P	G	b1 min	d2 max	L max	t	T	h2 max	h1	q
		mm		mm	mm	mm	mm	mm	mm	KN	kg/m
标准系列 Standard Series	82RH-5	6.35	2×3	3.15	2.51	6.20	1.00	0.80	6.72	3.92	5.20
	82RH-7	6.35	3×4	5.20	2.51	9.00	1.00	0.80	6.72	3.92	7.30
	82RH-9	6.35	4×5	7.25	2.51	11.00	1.00	0.80	6.72	3.92	9.30
耐磨系列 Anti-Abrasion Series	S82RH-5	6.35	2×3	3.15	2.51	6.20	1.00	1.00	6.72	3.92	5.20
	S82RH-7	6.35	3×4	5.20	2.51	9.00	1.00	1.00	6.72	3.92	7.30
	S82RH-9	6.35	4×5	7.25	2.51	11.00	1.00	1.00	6.72	3.92	9.30
强化系列 Super Series	98RH-5	6.35	2×3	3.15	2.71	6.50	1.00	1.00	6.72	3.92	5.50
	98RH-7	6.35	3×4	5.20	2.71	8.80	1.00	1.00	6.72	3.92	9.10
	98RH-9	6.35	4×5	7.25	2.71	11.00	1.00	1.00	6.72	3.92	11.80

齿形链 Silent Chain



标准型: 采用内外复合啮合形式，高性价比

Standard series: adopts internal and external compound meshing form, high cost performance

耐磨型: 通过材料提升，疲劳性能提升 3 倍

Anti-abrasion series: through the improvement of materials, the fatigue performance is increased by 3 times

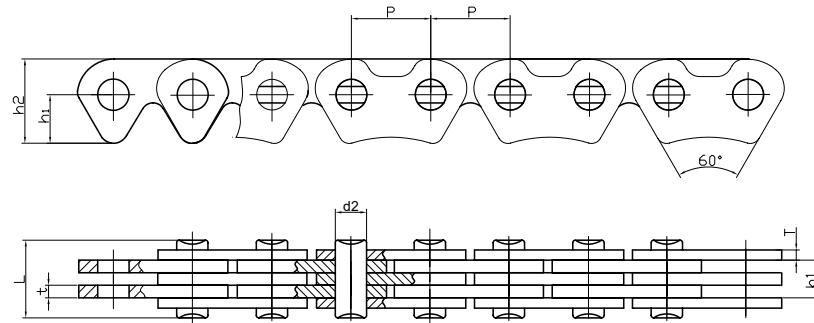
强化型: 采用进口材料，疲劳、耐久性能高于耐磨型

Super series: imported materials, fatigue and durability are higher than wear-resistant type

超强型: 销轴采用渗金属处理，耐久性能提升 2 倍

Professional series: the pin shaft is treated with metal infiltration, and the durability can be increased by 2 times

系列分类 Series classification	征和链号 CHOHO NO.	节距	片数组合	链宽	销轴直径	销轴长度	链板厚度		链板高度	孔心到齿尖距离	抗拉强度	每米重量
		Pitch	Number of Plates	Chain Width	Pin Dia	Pin Length	Plate Thickness		Plate Height	Distance from hole center to tooth tip	Ultimate tensile strength	Weight per meter
		P	G	b1 min	d2 max	L max	t	T	h2 max	h1	Q min	q
		mm		mm	mm	mm	mm	mm	mm	mm	KN	kg/m
标准系列 Standard Series	CL04CF-5	6.35	2×3	3.15	2.41	6.1	1	0.8	6.7	3.9	5.2	0.165
	CL04CF-7	6.35	3×4	5.2	2.41	8.2	1	0.8	6.7	3.9	7.3	0.24
	CL04CF-9	6.35	4×5	7.25	2.41	10.3	1	0.8	6.7	3.9	9.3	0.312
耐磨系列 Anti-Abrasion Series	CL04CF-5-W	6.35	2×3	3.15	2.41	6.1	1	0.8	6.7	3.9	5.5	0.165
	CL04CF-7-W	6.35	3×4	5.2	2.41	8.2	1	0.8	6.7	3.9	9.1	0.24
	CL04CF-9-W	6.35	4×5	7.25	2.41	10.3	1	0.8	6.7	3.9	11.8	0.312
强化系列 Super Series	SCL04CF-5	6.35	2×3	3.15	2.41	6.1	1	0.8	6.7	3.9	5.5	0.165
	SCL04CF-7	6.35	3×4	5.2	2.41	8.2	1	0.8	6.7	3.9	9.1	0.24
	SCL04CF-9	6.35	4×5	7.25	2.41	10.3	1	0.8	6.7	3.9	11.8	0.312
超强系列 professional Series	SSCL04CF-5	6.35	2×3	3.15	2.41	6.1	1	0.8	6.7	3.9	5.5	0.165
	SSCL04CF-7	6.35	3×4	5.2	2.41	8.2	1	0.8	6.7	3.9	9.1	0.24
	SSCL04CF-9	6.35	4×5	7.25	2.41	10.3	1	0.8	6.7	3.9	11.8	0.312



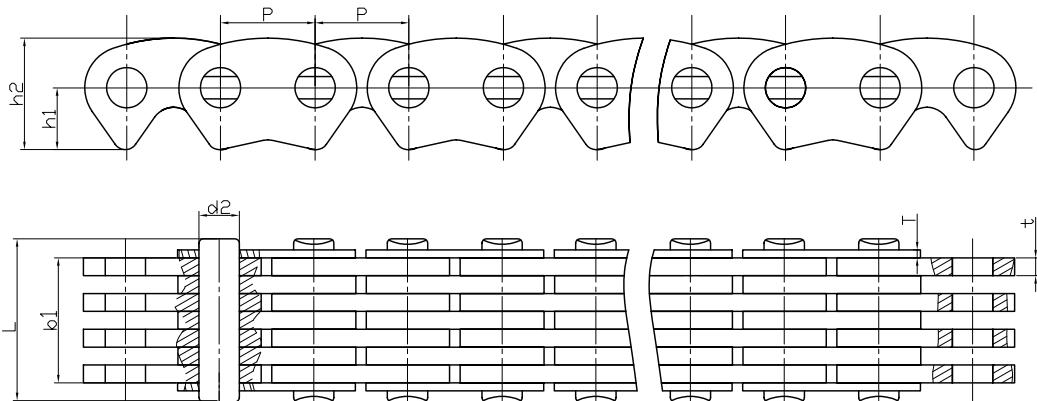
强化型: 采用进口材料, 疲劳、耐久性能高于 CL04CF 型

Super series: imported materials, fatigue and durability are higher than cl04cf type

超强型: 销轴采用渗金属处理, 耐久性能提升 2 倍

Professional series: the pin shaft is treated with metal infiltration, and the durability can be increased by 2 times

系列分类 Series classification	征和链号 CHOHO NO.	节距	片数组合	链宽	销轴直径	销轴长度	链板厚度		链板高度	孔心到齿尖距离	抗拉强度	每米重量
		Pitch	Number of Plates	Chain Width	Pin Dia	Pin Length	Plate Thickness		Plate Height	Distance from hole center to tooth tip	Ultimate tensile strength	Weight per meter
		P	G	b1 min	d2 max	L max	t	T	h2 max	h1	Q min	q
		mm		mm	mm	mm	mm	mm	mm	mm	KN	kg/m
强化系列 Super Series	CL04CF5-5	6.35	2×3	3.15	2.51	6.1	1	0.8	6.7	3.9	5.5	0.165
	CL04CF5-7	6.35	3×4	5.2	2.51	8.2	1	0.8	6.7	3.9	9.1	0.24
	CL04CF5-9	6.35	4×5	7.25	2.51	10.3	1	0.8	6.7	3.9	11.8	0.312
超强系列 professional Series	SSCL04CF5-5	6.35	2×3	3.15	2.51	6.1	1	0.8	6.7	3.9	5.5	0.165
	SSCL04CF5-7	6.35	3×4	5.2	2.51	8.2	1	0.8	6.7	3.9	9.1	0.24
	SSCL04CF5-9	6.35	4×5	7.25	2.51	10.3	1	0.8	6.7	3.9	11.8	0.312



系列分类 Series classification	征和链号 CHOHO NO.	节距	片数组合	链宽	销轴直径	销轴长度	链板厚度		链板高度	孔心到齿尖距离	抗拉强度	每米重量
		Pitch	Number of Plates	Chain Width	Pin Dia	Pin Length	Plate Thickness		Plate Height	Distance from hole center to tooth tip	Ultimate tensile strength	Weight per meter
		P	G	b1 min	d2 max	L max	t	T	h2 max	h1	Q min	q
		mm		mm	mm	mm	mm	mm	mm	mm	KN	kg/m
标准系列 Standard Series	CL06CF5-9	9.525	4×5	12.53	4.06	16.61	1.80	0.80	11.25	6.30	33.10	0.91
	CL06CF5-13	9.525	6×7	19.69	4.06	23.95	1.80	0.80	11.25	6.30	45.60	1.30

品种和特性 Varieties And Characteristics

加工方式和材质分类 Processing Method And Material Classification

机加工钢制链轮

Machined Steel Sprocket

- ◆ 高精度滚齿、插齿技术
- ◆ 平整度精度高，齿部精度高
- ◆ 强度高、表面光洁度高
- ◆ High-precision hobbing and gear shaping technology
- ◆ High flatness accuracy and high precision of teeth
- ◆ High strength, and high surface finish



精冲链轮

Fine-Blanking Sprocket

- ◆ 采用优质原材料
- ◆ 采用先进精密冲压设备和模具
- ◆ 生产效率高、尺寸精度高、光亮带好
- ◆ Quality raw materials
- ◆ Advanced press equipment and molds
- ◆ High production efficiency, high dimensional accuracy and bright shearing surface



粉末冶金链轮

Powder Metallurgy Sprocket

- ◆ 采用粉末冶金工艺，性价比高
- ◆ 一体成型，加工位置度精度高
- ◆ Powder metallurgy technology, high cost performance
- ◆ One-piece molding, high precision



功能分类 Function Classification

从动链轮

Driven sprocket

- ◆ 适用于低承载
- ◆ 应用实例：春风动力 650（国宾车）
- ◆ Suitable for low load
- ◆ Application: CFMOTO 650cc



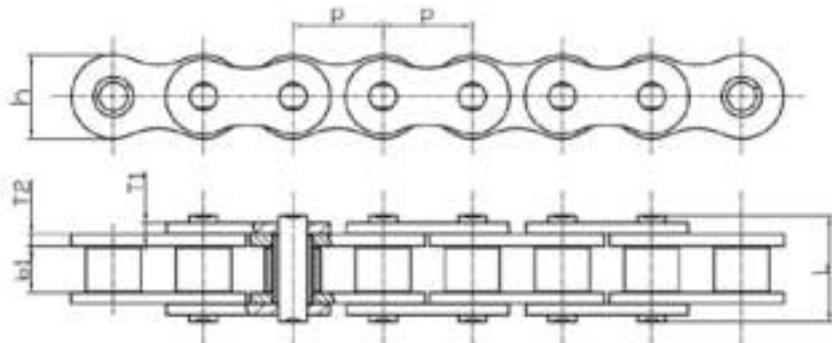
主动链轮

Drive sprocket

- ◆ 适用于曲轴端
- ◆ 应用实例：春风动力 650（国宾车）
- ◆ Suitable for crankshaft
- ◆ Application: CFMOTO 650cc



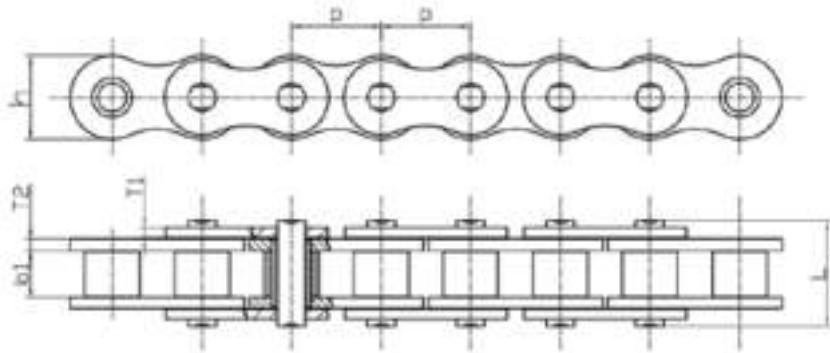
产品参数 Product Parameters



耐磨系列: 引入合金材料，套筒为卷制套筒，提升产品强度和耐磨损。

Wear-resistant series: Made by alloy materials, formed bushing, improving product strength and wear resistance.

规格及大类 Specifications and Series		主要特点 Features								主要特性 Performance	推荐排量 cc Application By cc
产品大类 Series	规格 Model	规格 Model	内节内宽 Inner width	链板厚度 Plate Thickness	滚子直径 Roller Diameter	套筒 Bushing	销轴 Pin length	密封圈 状态 Ring Type	接头形态 Connecting Link	拉力 kN ≥ Tensile Strength	
		P	b1	T1/T2		L					
耐磨系列 Wear-resistant series	415H	12.7	4.8	1.5/1.5	7.77	有缝 Curved	13.3	无 N/A	环接 Connecting	16	≤70
	420	12.7	6.35	1.5/1.5	7.77	有缝 Curved	14.9	无 N/A	环接 Connecting	16	70-90
	420H	12.7	6.35	1.8/1.8	7.77	有缝 Curved	16.2	无 N/A	环接 Connecting	18	70-110
	428	12.7	7.85	1.6/1.6	8.51	有缝 Curved	16.7	无 N/A	环接 Connecting	17.8	90-125
	428H	12.7	7.85	2.0/2.0	8.51	有缝 Curved	18.5	无 N/A	环接 Connecting	20.6	100-150
	520	15.875	6.35	2.0/2.0	10.16	有缝 Curved	17.2	无 N/A	环接 Connecting	26.5	150-200
	520H	15.875	6.35	2.42/2.42	10.16	有缝 Curved	18.9	无 N/A	环接 Connecting	30.5	150-200
	525H	15.875	7.94	2.42/2.42	10.16	有缝 Curved	20.5	无 N/A	环接 Connecting	31	150-250

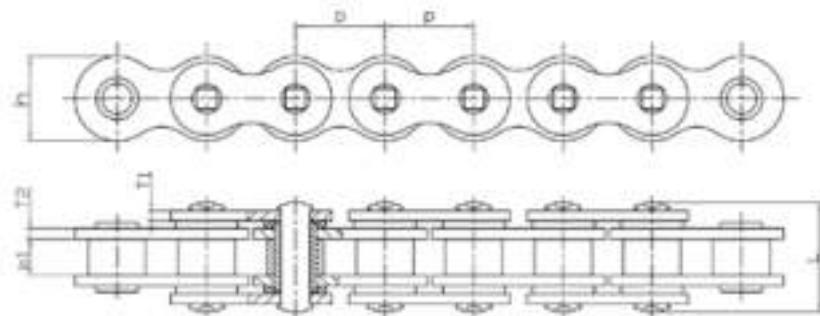


强化系列: 引入无缝套筒、O型密封圈技术，确保更长的使用寿命最低限度的维护。

Super series: seamless bushing and O-ring seal ensure longer service life and minimum maintenance.

规格及大类 Specifications and Series		主要特点 Features								主要特性 Performance	推荐排量 cc Application By cc	
产品大类 Series	规格 Model	规格 Model	内节内宽 Inner width	链板厚度 Plate Thickness	滚子直径 Roller Diameter	套筒 Bush	销轴 长度 Pin length	密封圈 状态 Ring Type	接头形态 Connecting Link	拉力 kN ≥ Tensile Strength		
		P	b1	T1/T2	L							
强化系列 Super Series	420HS	12.7	6.35	1.8/1.8	7.77	无缝 Solid	16.2	无 N/A	环接 Connecting	17	70-110	
	428HS	12.7	7.85	2.0/2.0	8.51	无缝 Solid	18.5	无 N/A	环接 Connecting	20.6	100-150	
	428HDS	12.7	7.85	2.0/2.0	8.51	无缝 Solid	19	无 N/A	环接 Connecting	21	125-190	
	520HDS	15.875	6.35	2.42/2.42	10.16	无缝 Solid	19.3	无 N/A	环接 Connecting	31	150-250	
	520HS	15.875	6.35	2.42/2.42	10.16	无缝 Solid	18.9	无 N/A	环接 Connecting	30.5	150-200	
	530HS	15.875	9.4	2.42/2.42	10.16	无缝 Solid	22.2	无 N/A	环接 Connecting	30.5	150-250	
	415UO	12.7	4.8	1.5/1.5	7.77	无缝 Solid	15.9	O型 O Ring	环铆 / 打孔 Connecting/ Split	17.8	100-150	
	420O	12.7	6.35	1.5/1.5	7.77	无缝 Solid	17.5	O型 O Ring	环铆 / 打孔 Connecting/ Split	16	25KW 电摩 electric motorcycle	
	428HO	12.7	7.9	2.0/2.0	8.51	无缝 Solid	21.9	O型 O Ring	环铆 / 打孔 Connecting/ Split	21	150-200	
	520O2	15.875	6.35	1.8/1.8	10.22	无缝 Solid	19.4	O型 O Ring	环铆 / 打孔 Connecting/ Split	31	250-450	
	525HO	15.875	7.94	2.42/2.42	10.16	无缝 Solid	23.6	O型 O Ring	环铆 / 打孔 Connecting/ Split	33	150-300	

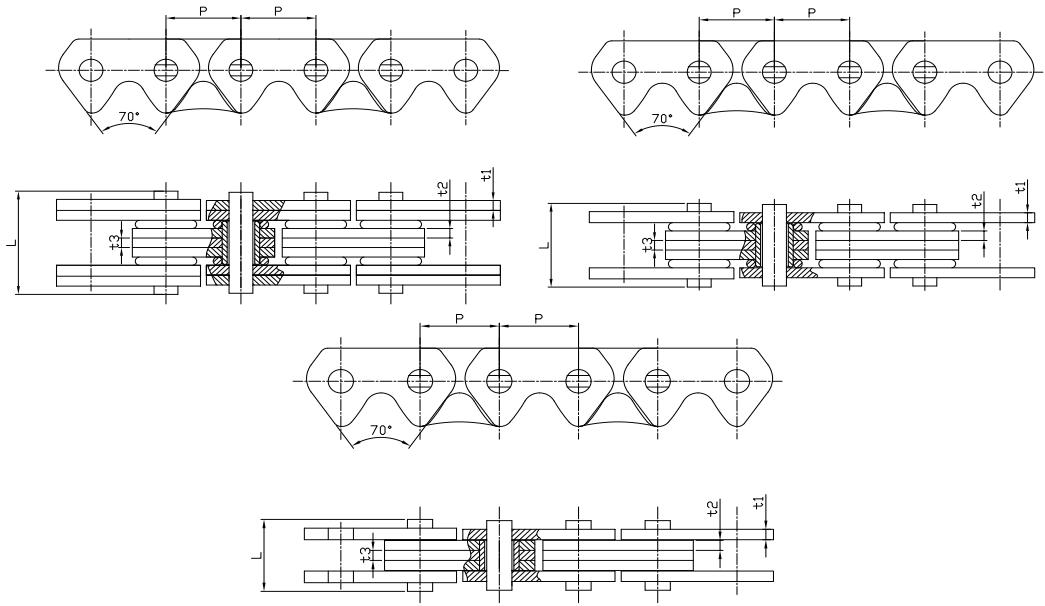
产品参数 Product Parameters



超强系列：引入4唇密封圈的专利X型密封圈，具有低摩擦阻力、高耐磨特点，显著增加了链条的使用寿命。

Professional Series: The patented X-shaped ring with 4-lip sealing ring, which has the characteristics of low friction and high wear resistance, significantly increases the service life of the chain.

规格及大类 Specifications and Series		主要特点 Features								主要特性 Performance	推荐排量 cc Application By cc
产品大类 Series	规格 Model	规格 Model	内节内宽 Inner width	链板厚度 Plate Thickness	滚子直径 Roller Diameter	套筒 Bushing	销轴 Pin length	密封圈 Ring Type	接头形态 Connecting Link	拉力 kN ≥ Tensile Strength	
		P	b1	T1/T2			L				
超强系列 professional Series	420D	12.7	6.35	1.8/1.8	7.77	无缝 Solid	16.2	无 N/A	环接 Connecting	21	100-150
	520ND	15.875	6.35	2.0/2.0	10.22	无缝 Solid	17.7	无 N/A	环接 Connecting	33	200-400
	428UX	12.7	7.9	1.8/1.8	8.51	无缝 Solid	20.7	X型 X Ring	环铆 / 打孔 Connecting/ Split	21	150-200
	520X2	15.875	6.35	2.0/2.0	10.22	无缝 Solid	19.9	X型 X Ring	环铆 / 打孔 Connecting/ Split	33	300-600
	520UX	15.875	6.35	2.2/2.2	10.16	无缝 Solid	20.7	X型 X Ring	环铆 / 打孔 Connecting/ Split	34	300-650
	520SX2	15.875	6.35	2.2/2.4	10.22	无缝 Solid	21	X型 X Ring	环铆 / 打孔 Connecting/ Split	38	600-900
	525SX2	15.875	7.94	2.2/2.4	10.22	无缝 Solid	22.6	X型 X Ring	环铆 / 打孔 Connecting/ Split	38	600-1000
	530SX2	15.875	9.4	2.2/2.4	10.22	无缝 Solid	24.1	X型 X Ring	环铆 / 打孔 Connecting/ Split	38	600-1100
	520EX	15.875	6.35	2.52/2.52	10.22	无缝 Solid	22	X型 X Ring	环铆 / 打孔 Connecting/ Split	42	800-1000
	525EX	15.875	7.94	2.52/2.52	10.22	无缝 Solid	23.5	X型 X Ring	环铆 / 打孔 Connecting/ Split	42	800-1200
	530EX	15.875	9.4	2.52/2.52	10.22	无缝 Solid	25	X型 X Ring	环铆 / 打孔 Connecting/ Split	42	800-1300
	525VZ	15.875	7.94	2.2/2.2	10.32	无缝 Solid	22.5	X型 X Ring	环铆 / 打孔 Connecting/ Split	42	1000-1300
	530VZ	15.875	9.4	2.2/2.2	10.32	无缝 Solid	24	X型 X Ring	环铆 / 打孔 Connecting/ Split	42	1000-1300



振明链: 基于齿形链啮合原理，融合了滚子套筒链的结构，振明链是集“快、静、炫、稳”于一身的真正的静音链条。

Zenming Chain: Based on the meshing principle of tooth shaped chains, combined with the structure of roller sleeve chains, the vibrating chain is a true silent chain that combines "fast, quiet, dazzling, and stable".

系列分类 Series classification	征和链号 CHOHO NO.	节距	片数组合	链宽	抗拉强度	每米重量	链板厚度			密封圈 Seal ring	适用排量 / 功率	
		Pitch	Number of Plates	Width of Chain	Tensile Strength	Weight per Meter	Chain plate thickness				Suitable Displacement/ Power	
		P	pcs	L	Q min	W	t1	t2	t3		cc/KW	
		mm		mm	KN	Kg/m						
振明链 Zenming	CL08CFM-5	12.7	5	14.8	22.5	0.76	2.0	1.8	1.8	X型 X Ring	5KW-20KW	
	CL08CFM-7	12.7	7	18.8	22.5	1.04	2.0	1.8	1.8	X型 X Ring	100CC-200CC	
	CL08CFS-5	12.7	5	12.8	22.5	0.74	2.0	1.8	1.8	无 N/A	100CC-150CC	
	CL09CFM-5	14.29	5	16.8	30.5	1.03	2.3	2.5	2.0	X型 X Ring	200CC-400CC	
	CL09CFM-7	14.29	7	21.4	30.5	1.41	2.3	2.5	2.0	X型 X Ring	250CC-600CC	
	CL09CFS-5	14.29	5	13.3	30.5	0.99	2.3	2.5	2.0	无 N/A	100CC-350CC	
	CL10CFM-5	15.875	5	17.4	42.0	1.12	2.5	2.5	2.0	X型 X Ring	500CC-1900CC	

产品应用 Product Applications

规格 Model	主要配套客户 Main OEM Clients	车型 Motorcycle
420O	虬龙 SURRON 探骊 TALARIA	轻蜂 毒刺
428HS	新大洲本田 SUNDIRO HONDA 五羊本田 WUYANG HONDA 浙江春风动力 CFMOTO 钱江摩托 QJiang MOTOR 比亚乔 PIAGGIO	CBF190R CB190R CF125-2 CF150-3 QJ150-19
428HO	新大洲本田 SUNDIRO HONDA 雅马哈 YAMAHA 钱江摩托 QJiang MOTOR	SDH-150 JYM250
520HO	钱江摩托 QJiang MOTOR 宗申摩托 ZONGSHEN MOTOR 鑫源摩托 SHINERAY MOTOR 飞肯 FEKON MOTOR	BJ250 ZS250 XY250 赛科龙 RX3 CYCLO RX3
525HO	钱江摩托 QJiang MOTOR	QJ250-J BJ300
530HO	钱江摩托 QJiang MOTOR 鑫源摩托 SHINERAY MOTOR	QJ350 XY300
520O2	浙江春风动力 CFMOTO	300

产品应用 Product Applications

规格 Model	主要配套客户 Main OEM Clients	车型 Motorcycle
520HX	金城摩托 JINCHENG MOTOR 浙江春风动力 CFMOTO 比亚乔 PIAGGIO	JC250 250 250
520X2	隆鑫 LONCIN	350 RR525
520UX	本田 HONDA 豪爵 HAOJUE 隆鑫 LONCIN	400 500 650
520SX2	鑫源摩托 SHINERAY MOTOR 宗申摩托 ZONGSHEN MOTOR 莫里尼 MOTO MORINI	SR400 SR500 SR600 R23 R24 文佐 650
525SX2	钱江摩托 QIANG MOTOR	Benelli-BJ600GS 黄龙 BN600i 黄龙 BJ600GS TNT 600 500cc 车型
525EX	宝马摩托 BMW MOTOR 摩瑞机车 MOTRAC	K08 800

产品种类 Product Categories

机加工链轮

- ◆ 高精度滚齿技术
- ◆ 符合国家、国际链轮标准，产品性价比高
- ◆ 适合公路和越野车、泥沙等恶劣工况

Machining Sprocket

- ◆ High-precision gear hobbing technique
- ◆ Meet national and international sprockets standard, high cost performance
- ◆ Suitable to on-road and off-road motorcycles



精冲链轮

- ◆ 采用优质的原材料
- ◆ 采用先进精密冲压设备和模具
- ◆ 采用独特的齿部硬化处理技术
- ◆ 适合长距离行驶及传动平稳、噪声低的工况

Fine-Blanking Sprocket

- ◆ High quality raw material
- ◆ Advanced fine-blanking equipment and mould.
- ◆ Unique tooth hardening processing technique
- ◆ Suitable to long distance drive, smooth transmission and low noise condition

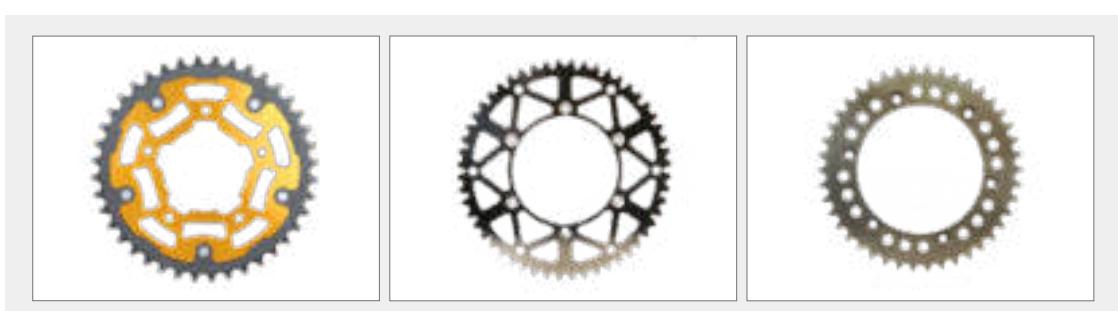


高强度轻质链轮

- ◆ 采用高强度轻质合金材料
- ◆ 采用高精度精密加工技术
- ◆ 适用于中大排量赛车

High Strength Light Sprocket

- ◆ High Strength light alloy material
- ◆ High-precision machining technique
- ◆ Suitable to large and medium displacement bikes.



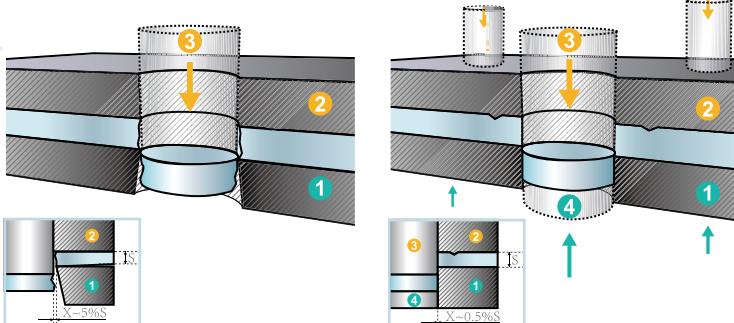
产品系列 Product Series

产品系列 Product Series

		标准系列 Standard Series		强化系列 Super Series		超强系列 Professional Series	
		机加工链轮 Hobbing Sprocket	精冲链轮 Fine Blanking Sprocket	机加工链轮 Hobbing Sprocket	精冲链轮 Fine Blanking Sprocket	机加工链轮 Hobbing Sprocket	精冲链轮 Fine Blanking Sprocket
加工工艺 Processing Technique	精密加工 Precision Finishing	★		★★		★★★	
	精密冲压 Precision Stamping		★		★★		★★★
大链轮材质 Material of Rear Sprocket	Q235	●	●				
	45#			●	●	●	●
小链轮材质 Material of Front Sprocket	Q235	●	●				
	20CrMnTi			●		●	
	20Cr				●		●
大轮热处理状态 Heat Treatment of Rear Sprocket	渗碳淬火 Carburizing and Quenching	●					
	齿部硬化处理 Hardening for Teeth			●			
	调质处理 Quenching and Tempering					●	●
小轮热处理状态 Heat Treatment of Front Sprocket	渗碳淬火 Carburizing and Quenching	●	●	●	●	●	●
特点 Features	加工精度 Process Precision		●		●		●
	特殊材质 Special Material				●		●

精冲是一种依托特殊结构的精密模具和专用的精冲压力机，在强力的压力使材料处于三向应力状态下实现小间隙精密冲裁的工艺。

Fine Blanking is a kind of technology, with special-structured precision mould and customized fine blanking press machine, to realize small clearance precision punching, making the materials under three to compressive stress state with strong pressure.



送料机 Feeding Machine

国际先进的送料机，送料精准；校平后平面度好。

Advanced machine, on time feeding; high surface flatness after flattening.



抛光机 Polishing Machine

清除链轮毛刺，避免锐角伤害，提高产品表面质量，传动平稳。

Removing burrs on sprockets, avoiding acute injury, improving the surface quality and smooth drive.



多用途炉 Multi-Purpose Furnace

台湾产多用途炉，配以碳氮共渗的热处理工艺，可控气氛保证产品质量的稳定性，改善产品内在组织，提高抗冲击强度和耐磨性

Furnace,Made in Taiwan, do heat treatment by carbonitriding with controllable atmosphere, guarantee the stable quality, improve the micro-structure of the product, and provide anti-impact strength and wear resistance.



**数控车床
CNC Lathe**

组合刀头技术，换刀频率少。

With rack cutting, small tool carrier, high efficiency and precision, it guarantees the chain and sprockets in perfect engagement



**精冲机
Fine Blanking Press Machine**

国际先进的 1000 吨数控精密冲裁机，定位精度在 0.02MM 以内，一次性完成所有尺寸加工，产品精度偏差 < 0.05MM，效率高、质量稳定。

1000tons International advanced numerical control precision machine , 0.02mm positioning accuracy, can finish all-sized processing in one time, with product tolerance less than 0.05mm .



**精冲模
Fine Blanking Press Mould**

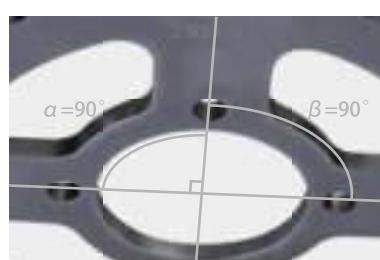
国际先进的冲压模具，冲头采用独特的涂层技术，冲压光亮带 100%，确保齿部及安装孔的精度，提高了运行过程的啮合性能，提高了产品的寿命。

International advanced press mould,punch with unique coating technology,Creates 100% sheared edges. guarantee the high precision of teeth and mounting holes, which will improve the performance of meshing, and product life.



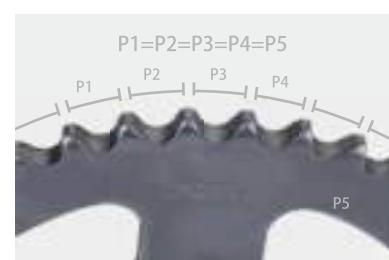
▲完美的齿形设计，使链轮与链条更好的啮合，传动平稳，噪声低。

The perfect tooth profile design makes the chain and sprockets in perfect engagement, stable driving, and low noise.



▲尺寸精度高、形位公差小，保证链轮的安装精度，容易安装。

High-precision dimension, small geometric tolerance, can guarantee the sprockets installation accuracy and easier to install.



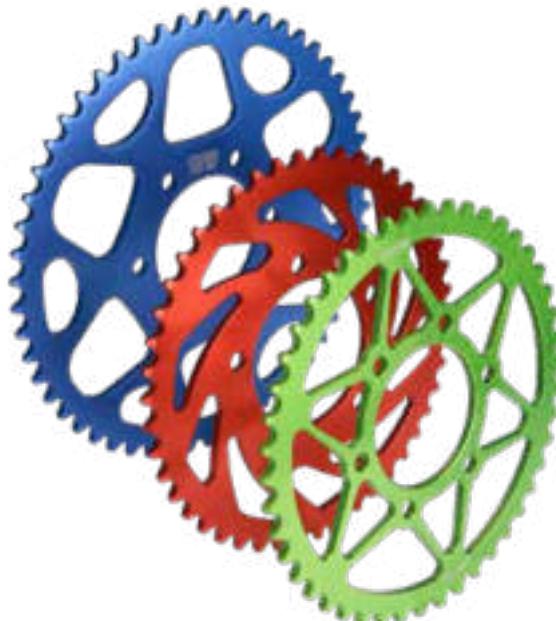
▲最小的节距散差，保证与链条节距的一致性，不跳齿。

The minimum pitch divergence ensures the consistency between chain and sprockets and chain is not easy to jump.

高强度轻质链轮 High Strength Lightweight Sprocket

铝合金链轮 Aluminum Alloy Sprocket

- 采用优质高强度航空用铝合金
 - 采用 CNC 加工减轻孔
 - 着色氧化，色彩绚烂多样
 - 硬质氧化工艺，耐磨性及抗拉强度提高
 - 适用于赛车、改装车使用
-
- High quality high strength aerospace aluminum alloy
 - CNC machining the light-weighting holes, a variety of patterns, style switching is quick and convenient, to meet individual customization needs
 - The surface treatment uses a hard oxidation process, which improves the wear resistance and tensile strength of the conventional oxidation process.
 - Suitable for racing or modify motorcycles



钢包铝链轮 Aluminum Sprocket With Alloy Steel Teeth

- 外齿圈采用优质 45# 钢高频淬火
 - 内嵌件采用航空用铝合金，质量轻
 - 阳极氧化工艺，色彩绚烂多样
 - 既耐磨，又较整体钢制链轮质量轻
 - 适用于赛车、越野车、街车、改装车等各类车型
-
- The teeth are made of high-quality 45# steel with high-frequency quenching.
 - The inner is made of high-quality high-strength aerospace aluminum alloy, which is light;
 - Using anodizing process, the color is gorgeous
 - Better wear resistance, lighter than steel sprocket.
 - diverse, satisfying the different needs.



单摇臂链轮 Single Rocker Sprocket

单摇臂链轮 Single-sided swingarm Sprocket

- 锻造工艺，精度高
- 采用优质 45# 钢，高频淬火
- 轻量化设计，减重花孔

- Forging process, high accuracy
- High quality 45 # steel, high-frequency quenching
- Lightweight design with weight reducing holes



单摇臂分体链轮 Single-sided swingarm Split Sprocket

- 外齿采用优质 45# 钢，高频淬火，维护保养方便
- 内嵌件采用航空用铝合金，质量轻，硬度高
- 着色氧化工艺，色彩绚丽多彩
- 耐磨，重量比钢制轻 18 %
- 个性化彩色压盖，钛合金螺母

- The outer teeth are made of high-quality 45 # steel, high-frequency quenching, and convenient for maintenance
- The embedded parts are made of aviation aluminum alloy, with light weight and high hardness
- Colored oxidation process with colorful colors
- Wear-resistant, 18% lighter than steel
- Personalized color case, titanium alloy nut



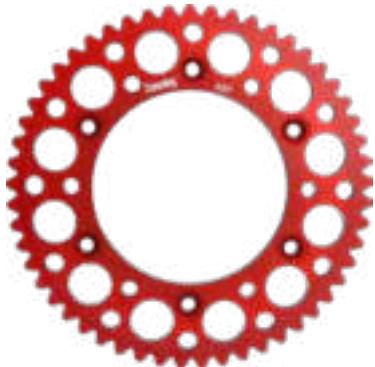
钢制链轮

Steel sprocket



铝合金链轮

Aluminum Alloy



钢包铝链轮

Aluminum Sprocket With Alloy Steel Teeth



缓冲体链轮

Buffer sprocket



大排量摩托车缓冲体 Sprocket Wheel Seat Set For Large Displacement

500Cc 摩托车链轮毂总成 Sprocket Wheel Seat Set

- 图例为某 500CC 摩托车链轮毂总成，45# 钢高精度 520-46 链轮、YL112 压铸铝链轮座。
 - 采用高精度加工技术，最大程度的减少链轮端面和径向跳动
 - 轴承采用进口 NSK 轴承
 - 油封采用优质丁腈橡胶
 - 精加工链轮座，表面电泳处理，代替烤漆工艺。外观美观，防腐性能优越
- The picture shows a 500cc motorcycle sprocket wheel seat set , 45# steel high precision 520-46 sprocket, YL112 die-cast aluminum sprocket seat
 - High-precision processing technology to minimize the end face and radial runout
 - NSK bearing
 - The oil seal is made of high-quality nitrile rubber
 - Finished sprocket seat, electrophoresis surface treatment, instead of baking paint process. Beautiful appearance, superior anti-corrosion performance



125CC 摩托车链轮毂总成 Sprocket Wheel Seat Set

- 图例为某跨骑摩托车缓冲体总成，45# 钢链轮、YL112 压铸铝链轮座，组装后供货
 - 适用 100/110/125 排量，常规搭配 38T 等齿数的链轮
- The picture shows a normal NK motorcycle sprocket wheel seat set , 45# steel sprocket, YL112 die-cast aluminum sprocket seat
 - Applicable to 100/110/125 cc, conventionally matched with 38T sprockets



110CC 摩托车链轮毂总成 Sprocket Wheel Seat Set

- 图例为某弯梁摩托车车系列缓冲体总成，45# 钢链轮、YL112 压铸铝链轮座，组装后供货
 - 适用 100/110 排量，常规搭配 36T、38T 等齿数的链轮
- The picture shows an underbone motorcycle sprocket wheel seat set , 45# steel sprocket, YL112 die-cast aluminum sprocket seat
 - Applicable to 100/110 cc, conventionally matched with 36T/38T sprockets



主要规格 Models

型号 CHOHO NO.	规格 Model	尺寸 Dimension	安装高度 Installation Height
CHOHO-01	DY100	54-70-4*Φ8	31
CHOHO-02	DY100	54-70-4*M8	36.4
CHOHO-03	GS125	58-78-4*Φ8	40
CHOHO-04	QJ125/JD100	64-80-4*Φ8	31
CHOHO-05	DY100	54-70-4*M8	31
CHOHO-06	QJ125/JD100	64-80-4*Φ8	31
CHOHO-07	LF500	112-138-5*M12	32.7

表面处理

Surface Treatment

链条可选的颜色及表面处理

Chain optional color and surface treatment



镀铜
Copper plated



镀镍
Nickel plated



发黄
Yellowing



发蓝
Blueing



发黑
Blacking



红色
Red



绿色
Green



蓝色
Blue



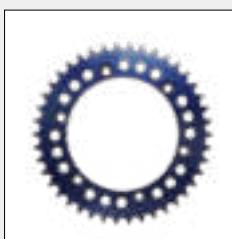
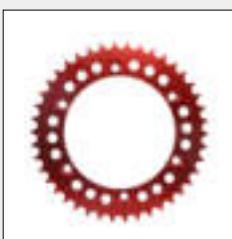
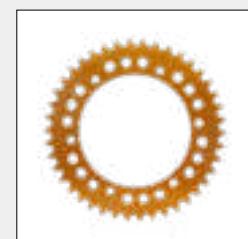
紫色
Purple



黄色
Yellow

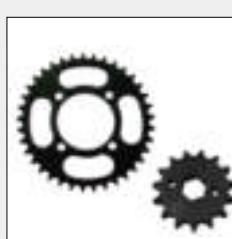
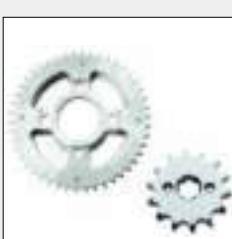
轻质链轮可选的颜色及表面处理

Light Sprockets optional color and surface treatment



机加工链轮可选的颜色及表面处理

Machining Sprockets optional color and surface treatment



链节的选择 Connecting Type

	非密封圈链条用 For No-ring Chain	密封圈链条用 For Seal-ring Chain
卡簧式 (开口) CL Clip (open)CL	A photograph of a metal connecting link with an open U-shaped clip at both ends, designed for non-sealed chains.	A photograph of a metal connecting link with a closed U-shaped clip at both ends, designed for sealed chains.
卡簧式 (封闭) SCL Clip (closed)SCL	A photograph of a metal connecting link with a closed U-shaped clip at both ends, designed for sealed chains.	A photograph of a metal connecting link with two rivets through the top and bottom plates, designed for riveted chains.
铆接式 Rivet PL	A photograph of a metal connecting link with two rivets through the top and bottom plates, designed for riveted chains.	A photograph of a metal connecting link with a central pin and two split plates, designed for split connecting links.
涨孔式 EPL Split Connecting Link EPL		A photograph of a metal connecting link with a central pin and two split plates, designed for split connecting links.

部分配套车型适配产品 OEM Models

本田 HONDA 400cc



520UX 密封圈链条

X-Ring Drive Chain



SCL04CF-7 发动机链条

Silent Chain



本田 HONDA NSS350



ZSSCL04CF-5 发动机链条

Silent Chain



本田 HONDA 190cc



428HS 链条

Drive Chain



SCL04CF-7 发动机链条

Silent Chain



豪爵铃木 HAOJUE SUZUKI GSX250



520O2 密封圈链条

X-Ring Drive Chain



520 链轮 Sprocket



SCL04CF-7 发动机链条

Silent Chain



■ 链条采用轻量化设计理念，链板选用优质合金弹簧钢。

■ 链条选用新款 X 型密封圈封油性能更佳。

■ 选用进口白色润滑脂，耐磨效果更佳。

■ 链条特点：高强度、高耐磨、轻量化。

■ Designed by ultralight concept, plates made of S45C material guarantees good strengths.

■ X-Ring seals oil more efficient.

■ Original Japanese lubricating grease provides better abrasion resistance performance.

■ Features: High Strengths, wear resistance and light.

KTM790



520 链轮 Sprocket



挂胶小轮 Sprocket



摩托莫里尼 MOTO MORINI 赛文佐 6½ 650cc



520SX2 密封圈链条
X-Ring Drive Chain



520 链轮 Sprocket



部分配套车型适配产品 OEM Models

雅马哈 YAMAHA 900cc



525SX2 密封圈链条

X-Ring Drive Chain



525 链轮 Sprocket



雅马哈 YAMAHA 700cc



525SX2 密封圈链条

X-Ring Drive Chain



525 链轮 Sprocket



雅马哈 YAMAHA 125cc



428HO 密封圈链条

O-Ring Drive Chain



428 链轮 Sprocket



重庆雅马哈 YAMAHA 250cc



428HO 密封圈链条

O-Ring Drive Chain



SCL04CF-5 发动机链条

Silent Chain



部分配套车型适配产品 OEM Models

贝纳利 BENELLI 1200cc



525EX 密封圈链条

X-Ring Drive Chain



SSCL04CF-9 发动机链条

Silent Chain



贝纳利 BENELLI 800cc



525SX2 密封圈链条

X-Ring Drive Chain



219H 发动机链条

Bushing Chain



贝纳利 BENELLI 750cc



525SX2 密封圈链条

X-Ring Drive Chain



219H 发动机链条

Bushing Chain



贝纳利 BENELLI 600cc



525SX2 密封圈链条

X-Ring Drive Chain



SCL04CF-9 发动机链条

Silent Chain



贝纳利 BENELLI 500cc



525SX2 密封圈链条

X-Ring Drive Chain



SCL04CF-9 发动机链条

Silent Chain



部分配套车型适配产品 OEM Models

无极 VOGUE 650cc



520UX 密封圈链条

X-Ring Drive Chain



SCL04CF-9 发动机链条

Silent Chain



无极 VOGUE 500cc



520UX 密封圈链条

X-Ring Drive Chain



SCL04CF-9 发动机链条

Silent Chain



无极 VOGE 300cc



520UX 密封圈链条

X-Ring Drive Chain



SCL04CF-7 发动机链条

Silent Chain



阿普利亚 Aprilia RSV4



520HX 密封圈链条

X-Ring Drive Chain



7M250 Sprocket



阿普利亚 Aprilia CR150



428HX 密封圈链条

X-Ring Drive Chain



SCL04CF-5 发动机链条

Silent Chain



7M250 Sprocket



春风国宾 CFMOTO 650



- 发动机链条链板采用等温处理，强度高。
- 发动机链条销轴采用 C-N 共渗处理。
- 链轮端面跳动和径向跳动都控制在 0.15 以内，传动平稳。
- 链条特点：高强度、高耐磨性、重载。

■ Isothermal heat treated plates of engine chains provide higher Strengths.
■ Pins of engine chains adopt carbonitriding processing.
■ Both Axial and radial run-out of sprockets are under 0.15, transmitting smoothly.
■ Features: High Strengths, high abrasion resistance and overload.

520SX2 密封圈链条
X-Ring Drive Chain



520 链轮 Sprocket



正时链轮
Drive sprocket



SCL04CF-9 发动机链条
Silent Chain



春风国宾 CFMOTO NK/SR250



520HX 密封圈链条

X-Ring Drive Chain



SCL04CF-7 发动机链条

Silent Chain



520 链轮 Sprocket



宝马 BMW K8X



525EX 密封圈链条

X-Ring Drive Chain



25SH 油泵链条

Bushing Chain



98RH 发动机链条

Silent Chain



部分配套车型适配产品 OEM Models

哈雷戴维森 Harley-Davidson X350



525HO 密封圈链条

O-Ring Drive Chain



虬龙 轻蜂 Surron



420O 链条

O-Ring Drive Chain



420 链轮 Sprocket



TINBOT RS1



CL08CFM-5-138L 振明链

Zenming Chian



20T/67T 链轮 Sprocket



TINBOT ES1



CL08CFM-5-134L 振明链

Zenming Chian



15T/51T 链轮 Sprocket



雪地摩托车 Snowmobile



CL06CF5-9、CL06CF5-13 发动机链条
Silent Chain



- 发动机链条链板采用等温处理，强度高。
- 发动机链条销轴采用 C-N 共渗处理。
- 链轮端面跳动和径向跳动都控制在 0.15 以内，传动平稳。
- 链条特点：高强度、高耐磨性、重载。

■ Isothermal heat treated plates of engine chains provide higher Strengths.
■ Pins of engine chains adopt carbonitriding processing.
■ Both axial and radial run-out of sprockets are under 0.15, transmitting smoothly.
■ Features: High Strengths, wear resistance and heavy-duty.

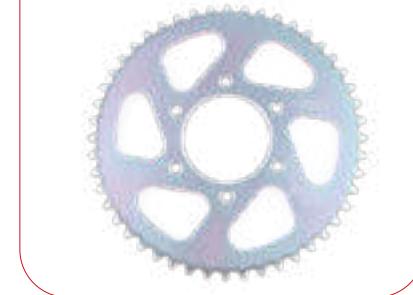
长江 CHANGJIANG 650 BOBBIE



520SX2 密封圈链条
X-Ring Drive Chain



520 链轮 Sprocket



春风 CFMOTO ATV/UTV



SCL04CF-9 发动机链条
Silent Chain



部分配套车型适配产品 OEM Models

新感觉 元图 GP250



520X2 密封圈链条
X-Ring Drive Chain



单摇臂链轮总成 Sprockets



隆鑫 无极 VOGE 350AC



520X2 密封圈链条
X-Ring Drive Chain



降噪链轮 Sprockets

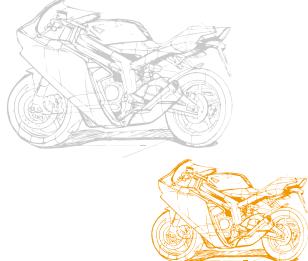


配色方案 Coloring Scheme

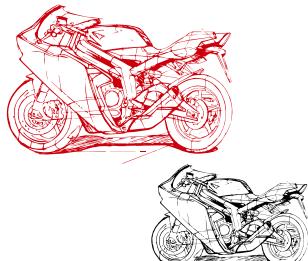
征和链轮配色参考 CHOHO Sprocket Reference



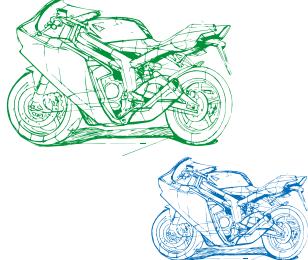
白色与黄色为主基调的摩托车



红色与黑色为主基调的摩托车



绿色与蓝色为主基调的摩托车



此链轮为实物拍摄，也可以搭配镀镍、发黑、发蓝链条使用



征和链条配色参考 CHOHO Chain Reference



CHOHO

KING
OF RACING CHAIN

征和链条 赛车之王



11
FERRARI

MotoGP
MotoE

冠军车手

2022 MotoGP-MotoE

**WORLD MotoGP-MotoE
CHAMPION 2022**

Matteo Ferrari #11



1999年-至今
持续通过ISO9001
质量体系认证

CHOHO

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<http://www.chohogroup.com>



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