

XULI
旭力科技

企业宣传册

Enterprise Brochure

杆动乾坤 传动世界

——以精工智造，驱动全球工业未来



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No. 9 Liantang Road, Economic Development Zone, Langxi County, Anhui Province

安徽旭力机械科技有限公司

ANHUI XULI MACHINERY TECHNOLOGY CO.,LTD



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About US» 关于我们

- **18000**
  1.8万㎡现代化智造基地
- **1000**
  盐雾试验1000小时
- **130+**
  汇集130+专业人才
- **50+**
  拥有50+技术专利池
- **20000+**
  年生产量20000+吨

安徽旭力机械科技有限公司位于皖东南产业创新高地（郎溪经开区莲塘路9号），以1.8万m现代化智造基地力依托，汇集130余名专业技术人员（其中工程技术人员48名），深耕精密活塞杆的研发与制造领域十余载。主要产品有:超耐磨活塞杆，高耐腐蚀活塞杆，高精密空心活塞杆，液压缸可定制化加工。作为国家级高新技术企业，公司以技术为矛、创新为盾，为国内外主机企业提供核心配套，产品远销欧美日，技术合作横跨洲际。作为一家拥有ISO9001认证并采用5S管理的企业，公司拥有雄厚的技术能力和严格的质量控制，是精密活塞杆领域的可靠合作伙伴，为全球客户提供优质的产品和服务。

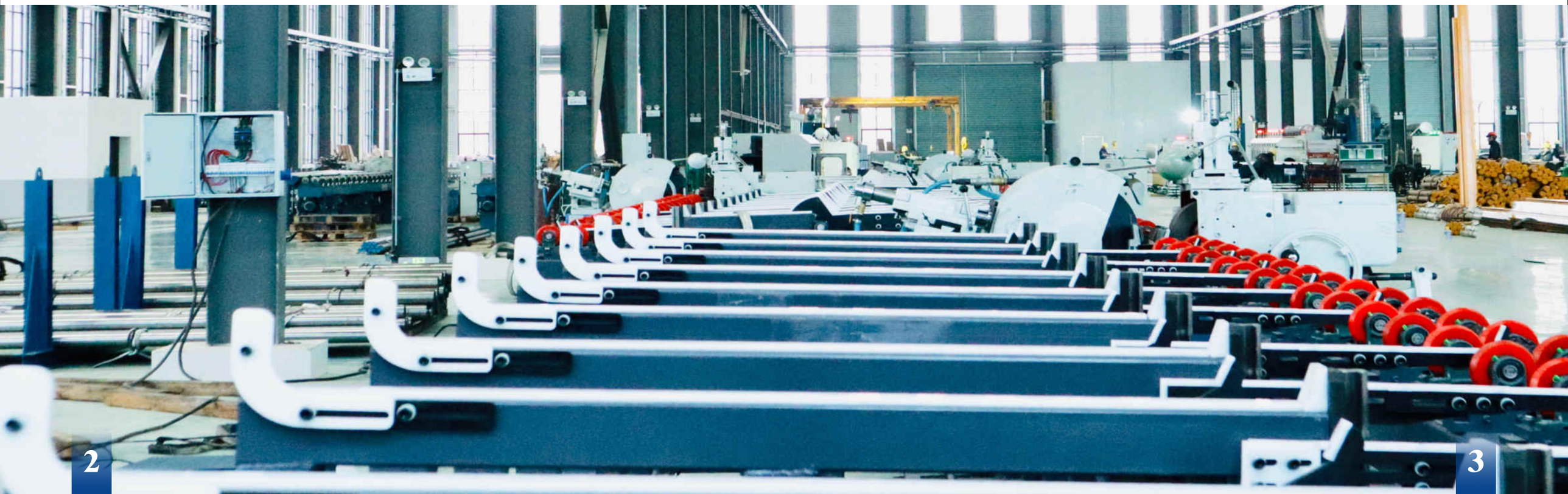
“旭日东升，力学笃行”不仅是旭力科技的企业精神，更是其不断攀登技术高峰、引领行业未来的坚定信念。在这个充满挑战与机遇的时代，旭力正以钢铁之躯承载创新之魂，以更加开放的姿态、更加坚定的步伐，向着液压传动，工程机械领域的更高峰迈进，在全球工业版图上刻下属于中国智造的璀璨坐标。

Anhui XULI Machinery Technology Co., Ltd. is headquartered in the innovation hub of South-eastern Anhui—located at No. 9 Liantang Road, Economic Development Zone, Langxi. Supported by an 18,000 m² modern intelligent manufacturing base, the company brings together more than 130 professionals, including 48 engineering technicians, each with over a decade of deep expertise in the research and manufacturing of precision piston rods.

Our core products include wear-resistant piston rods, high-corrosion-resistant piston rods, highprecision hollow piston rods, and hydraulic honed tubes. All can be customized for processing . As a national high-tech enterprise, XULI leverages technology as its spearhead and innovation as its shield, supplying key core components for OEM customers both in China and abroad. Our products are exported to Southeast Asia ,Europe, South America, Japan and so on. We engage in technical collaborations spanning multiple continents.

Certified with ISO9001and implementing 5S management, XULI combines strong technical capabilities with rigorous quality control. We stand as a trusted partner in the field of precision piston rods, committed to delivering high-quality products and services to clients worldwide.

"Rising Sun, Forging Strength" embodies not only the corporate spirit of XULI but also its steadfast commitment to scaling new technological heights and leading the industry's future. In an era full of challenges and opportunities, XULI carries forward the spirit of innovation with the resilience of steel. With an open mindset and determined strides, we are advancing to new frontiers in hydraulic ,transmission and engineering machinery and so on. imprinting the global industrial landscape with the brilliance of Chinese craftsmanship.



企业文化
CORPORATE CULTURE

企业使命
Corporate Mission

以精密传动技术赋能全球工业升级，
为世界注入澎湃动能。

Empower global industrial upgrading with precision transmission technology and inject surging momentum into the world.

企业致力于通过技术创新和产品升级，
推动全球工业的发展和进步。

The enterprise is committed to promoting the development and progress of global industry through technological innovation and product upgrading.

企业愿景
Corporate Vision

成为液压传动领域的技术标杆与生态构建者，
在全球工业版图刻下中国坐标。

Become a technical benchmark and ecosystem builder in the hydraulic transmission field, and engrave China's coordinate on the global industrial map.

企业将以卓越的技术和优质的产品，
树立行业标杆，引领行业发展。

The enterprise will set an industry benchmark and lead industry development with excellent technology and high-quality products.

核心价值观
Core values

精工至微

以微米级精度定义行业标准

每一根活塞杆都是对“中国智造”的匠心诠释

Precision to Micro

Define industry standards with micrometer level precision

Every piston rod is a testament to the ingenuity of 'Made in China'

创新永动

依托“研发一代、量产一代储备一代”三级创新

持续突破技术边界

Innovation Forever Moving

Relying on the three-level innovation of "research and development of the first generation, mass production of the first generation, and reserve of the first generation"

Continuously breaking through technological boundaries

价值共生

从全生命周期服务到定制化解决方案，

与客户、员工、社会共创共赢。

Value symbiosis

From full lifecycle services to customized solutions,

Create a win-win situation with customers, employees, and society.

企业精神
Enterprise spirit

“旭日东升，力学笃行”
Rising sun,Forging strength

以钢铁之躯承载创新之魂
的决心和信念。









经营理念
Business philosophy

技术为本

全球视野

开放协作



发展里程碑 Development milestones

2012年

【创立无锡旭力，专注液压传动】

标志着公司在液压传动领域的初步探索与布局

2014年

【首次与国内知名主机厂合作】

2016年

【常州旭力 成立】

公司拓展市 场、增强实力的又一重要 举措

2017年

【首次与外企合作】

与外企的合作为公司带来了先进的技术和管理经验，推动了公司的国际化进程

2018年

【产品首次出口】

标志着公司开始进军国际市场，为公司的发展注入了新的活力

2022年

【郎溪自建电镀厂投产】

进一步提升产能和质量，为发展提供有力保障

2024年

【安徽旭力智造工厂正式投产】

是公司智能制造战略的重要里程碑，为公司未来的发展奠定了坚实基础

以技术为锚、以创新为帆，在 液压传动的星辰大海中破浪前行

资质荣誉

QUALIFICATION CERTIFICATE













50+

拥有50+技术专利池，
通过CE/NFPA双认证体系，产品符合国际标准。
以技术为矛、创新为盾，
用匠心打造全球信赖的传动心脏，
获得多项荣誉和资质。











匠心锻造卓越，创新驱动前行，智慧点亮未来之路

Craftsmanship forges excellence, innovation drives progress, wisdom illuminates the path of the future

市场拓展 Market expansion

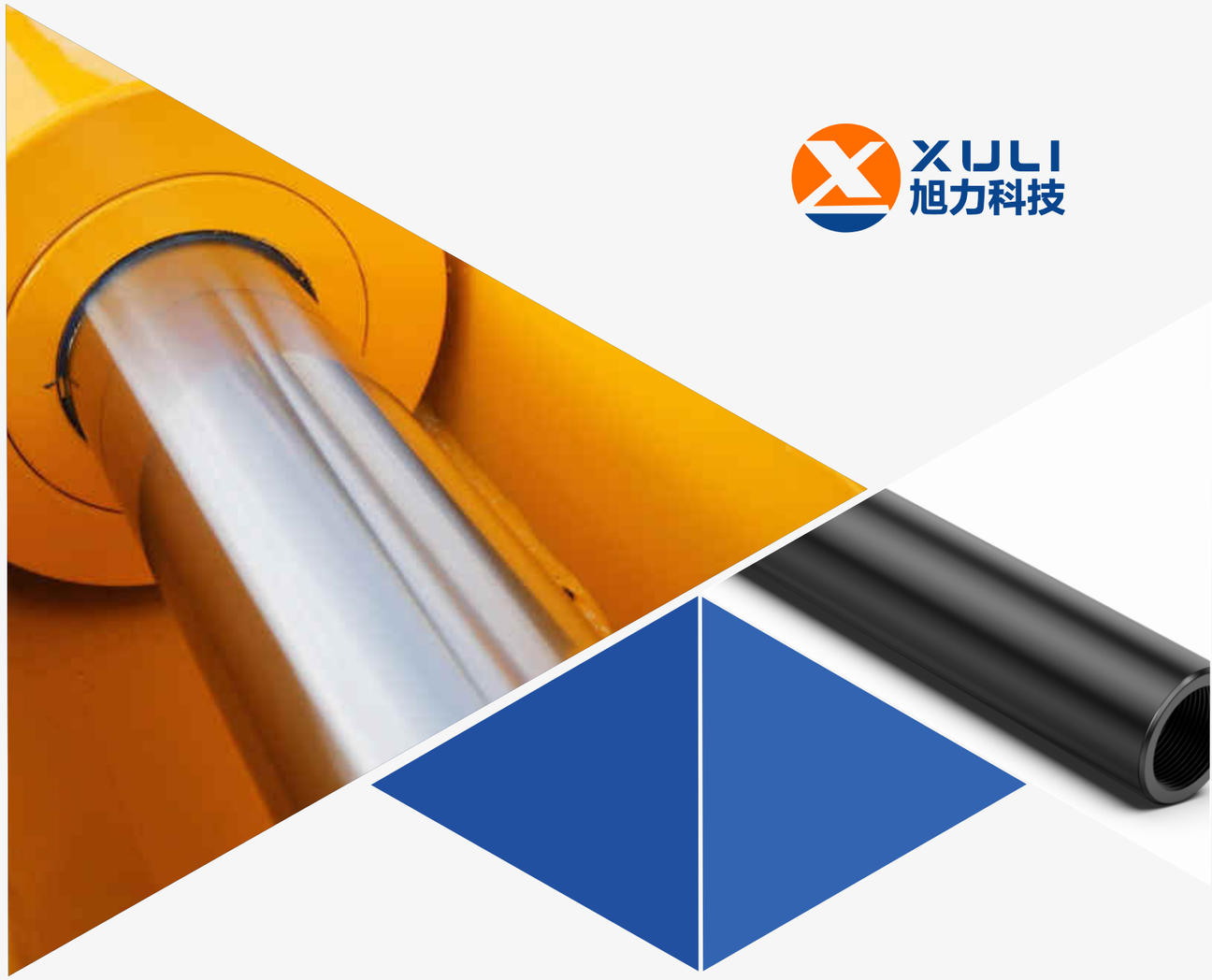


一次客户 一生朋友

成交只是开始 服务永无止境

产品出口欧美、东南亚、非洲等地区，
拥有50+技术专利池，
为国内外知名企业提供配套，
建立长期稳定的合作关系，
增强市场竞争力，提升企业国际影响力。

Our products are exported to Europe, America, Southeast Asia, Africa,and other regions,
Possessing a pool of over 50 technical patents,
Provide supporting services for well-known domestic and foreign enterprises,
Establish long-term and stable cooperative relationships,
Enhance market competitiveness and increase the international influence of enterprises.



XUJLI 旭力科技

Product display

产品展示

产品展示/Product display

用于油缸、液压气动、工程机械

Used for oil cylinders, hydraulic pneumatic, and construction machinery

提供精密活塞杆、导轴、导柱、导杆、成品轴等

Provide precision piston rods, guide shafts, guide pillars, guide rods, finished shafts, etc



液压活塞杆
Hydraulic psiton Rod



专业生产镀铬光轴、液压活塞杆；

主要产品风电节能活塞杆、海事油缸活塞杆、新能源汽车液压杆、工程机械液压杆等

Specializing in the production of chrome plated optical axes and hydraulic piston rods;
Main products include wind power energy-saving piston rods, maritime oil cylinder piston rods,
new energy vehicle hydraulic rods, engineering machinery hydraulic rods, etc



镀铬活塞杆
Hard chrome Piston Rod



技术特性 Technical Characteristics	
材质/Material quality	CK45. ST52. 25Mn. C20. 20MnV6. 42CrMo4. 40Cr. 304L, 316L
尺寸/Size	ф20-ф500mm:
长度/Length	L1-15meters
外径公差/Outer diameter tolerance	f7-f8 (其他可定制/Other custoimizable options)
镀铬层厚度/Chromium plating thickness	0. 02mm-0. 50mm
表面粗糙度/Surface roughness	<0. 05um
直线度/Straighiess	<0. 1mm/m
调质硬度/Quenching and tempering hardness	HB220-360
高频淬火/High-frequency quenching	HRC50-60
表面硬度/Surfacehardness	850-1100HV
表面处理/Surfacetreatment	镀铬、中高频感应淬火、调质、调质+中高频感应淬火 Chromium plating, medium and high freguency inducion hardeting, quenching and tempering, quenching and tempering+medium and high frequen'y inductilon hardening
盐雾试验/Salt spray test	10级120-1000小时/Level0 120-1000 hours
可焊接性/Weldability	好/good
包装/Packing	防锈油处理后每根套入防水纸管/木箱 After rust prevention oll treatment, each plece is wrapped in a waterproof paper tube / wooden box
证书/Certificate	提供产品质量报告、镀铬厚度报告、盐雾测试报告等 Proxide product quality reports, chromlum plating thickness reports, salt spray tast reports, etc

空心活塞杆
Hollow-piston rod

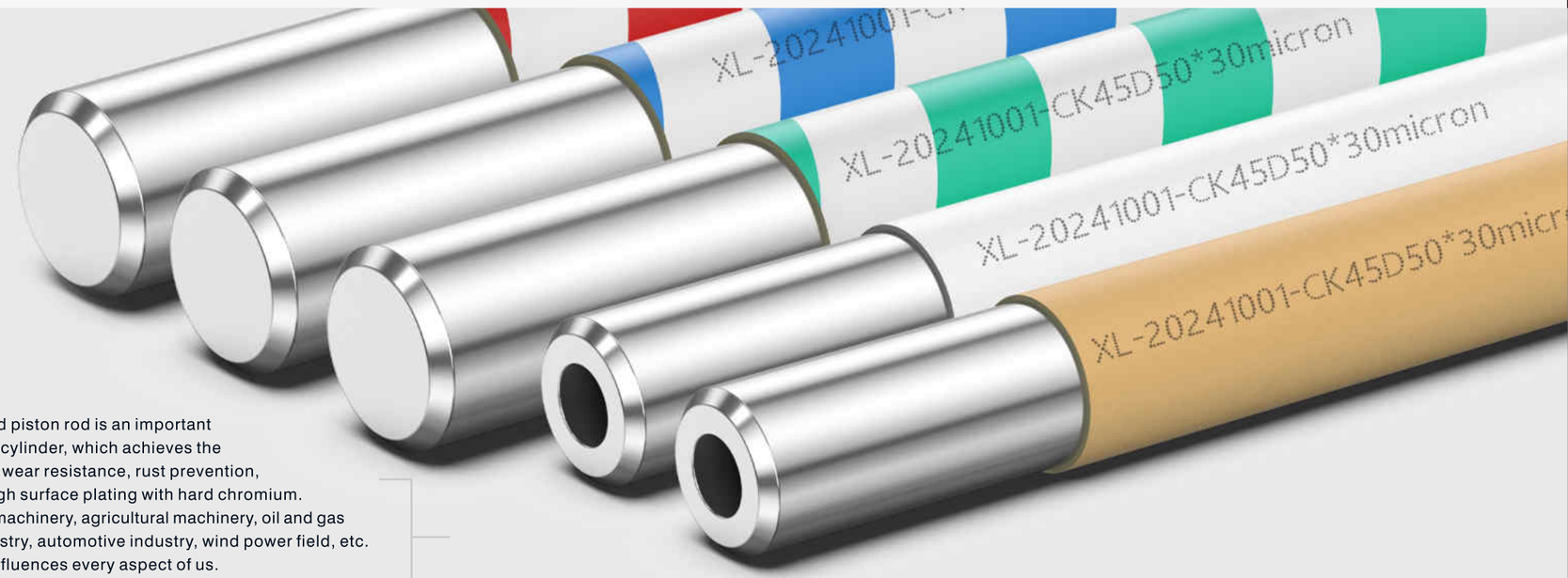




精密镀铬活塞杆

Precision Chrome Plated Piston Rod

活塞杆是液压油缸的重要组件，通过表面镀硬铬实现耐磨、防锈、减摩三位一体的性能。主要应用于：工程机械，农业机械，石油和天然气工业，冶金工业，汽车工业，风电领域等。它无处不在，潜移默化地影响我们的方方面面。



The Precision chrome plated piston rod is an important component of the hydraulic cylinder, which achieves the three in one performance of wear resistance, rust prevention, and friction reduction through surface plating with hard chromium. Mainly used in engineering machinery, agricultural machinery, oil and gas industry, metallurgical industry, automotive industry, wind power field, etc. It is ubiquitous and subtly influences every aspect of us.

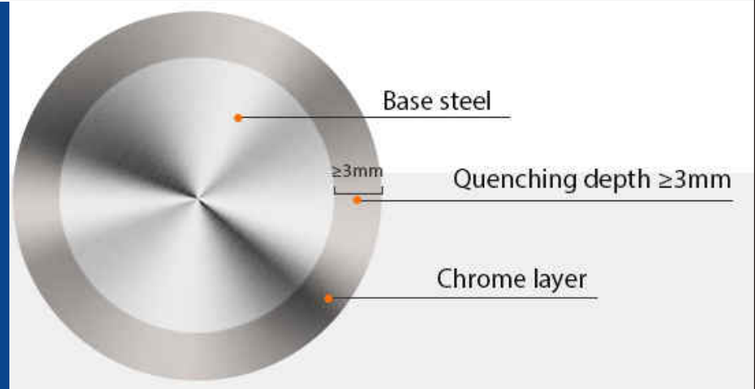
精密镀铬活塞杆Precision chrome plated piston rod	
原材料/Raw material	CK45,40Cr，42Crmo4，304，316不锈钢/stainless steel
公差/Tolerance	f7 or f8
圆度/Roundness	外径公差的1/2/1/2 of the outer diameter tolerance.
标准直径/Standard diameter	Φ6-Φ200
最大加工长度/Maximum processing length	13米/meters
标准长度/Standard length	Φ6-Φ31.75：3-4米/meters，　≥Φ32：6-7.5米/meters
镀层厚度/Chrome thickness	20-30 μm
镀层硬度/Chrome hardness	min HV850
直线度/Straightness	0.1mm/1000mm
粗糙度/Roughness	Ra≤0.1
热处理方式/Heat treatment methods	调质，淬火，调质+淬火/tempering, quenching, tempering+quenching

智造赋能
Intelligent Manufacturing Empowerment

智能质控
Intelligent quality control

主机配套
Host matching

INDUCTION HARDENED GHROME PISTON ROD



产品展示/Product display



调质活塞杆

QUENCHING AND TEMPERING PISTON ROD

调质活塞杆的表面硬度达到HB240-280，如采用42Crmo材质，可以达到HB280-320。
综合力学性能（抗拉强度、韧性、抗疲劳能力等）显著优于普通活塞杆。是重载，高精度或恶劣环境下的首选方案，如重型设备（挖掘机、装载机），冶金与矿山机械（矿山液压支柱）等。

QUENCHING AND TEMPERING PISTON ROD its surface hardness can reach HB240-280, and if 42CrMomaterial is used, it can reach HB280-320.
The comprehensive mechanical properties (tensile strength, toughness, fatigue resistance, etc.) can be significantly better than ordinary piston rods. It is the preferred solution for heavy-duty, high-precision or harsh environments, such as heavy equipment (excavators, loaders), metallurgical and mining machinery (mining hydraulic supports), etc

淬火活塞杆

INDUCTION HARDENED CHROME PISTON ROD

淬火活塞杆是一种高性能的活塞杆。它经过淬火处理，这一过程让活塞杆的表面硬度大幅提升至HRC 56-60。
其耐磨性增强，能够有效抵抗在工作过程中的摩擦损耗。而且淬火还可以使活塞杆的强度增加，在承受较大压力和冲击力时，依然可以稳定工作。

INDUCTION HARDENED CHROME PISTON ROD is a high-performance piston rod. After undergoing quenching treatment, the surface hardness of the piston rod is significantly increased to HRC 56-60.
Its wear resistance is enhanced, effectively resisting frictional losses during operation. Furthermore, quenching enhances the strength of thepiston rod, enabling it to operate stably even under high pressure and impact forces.



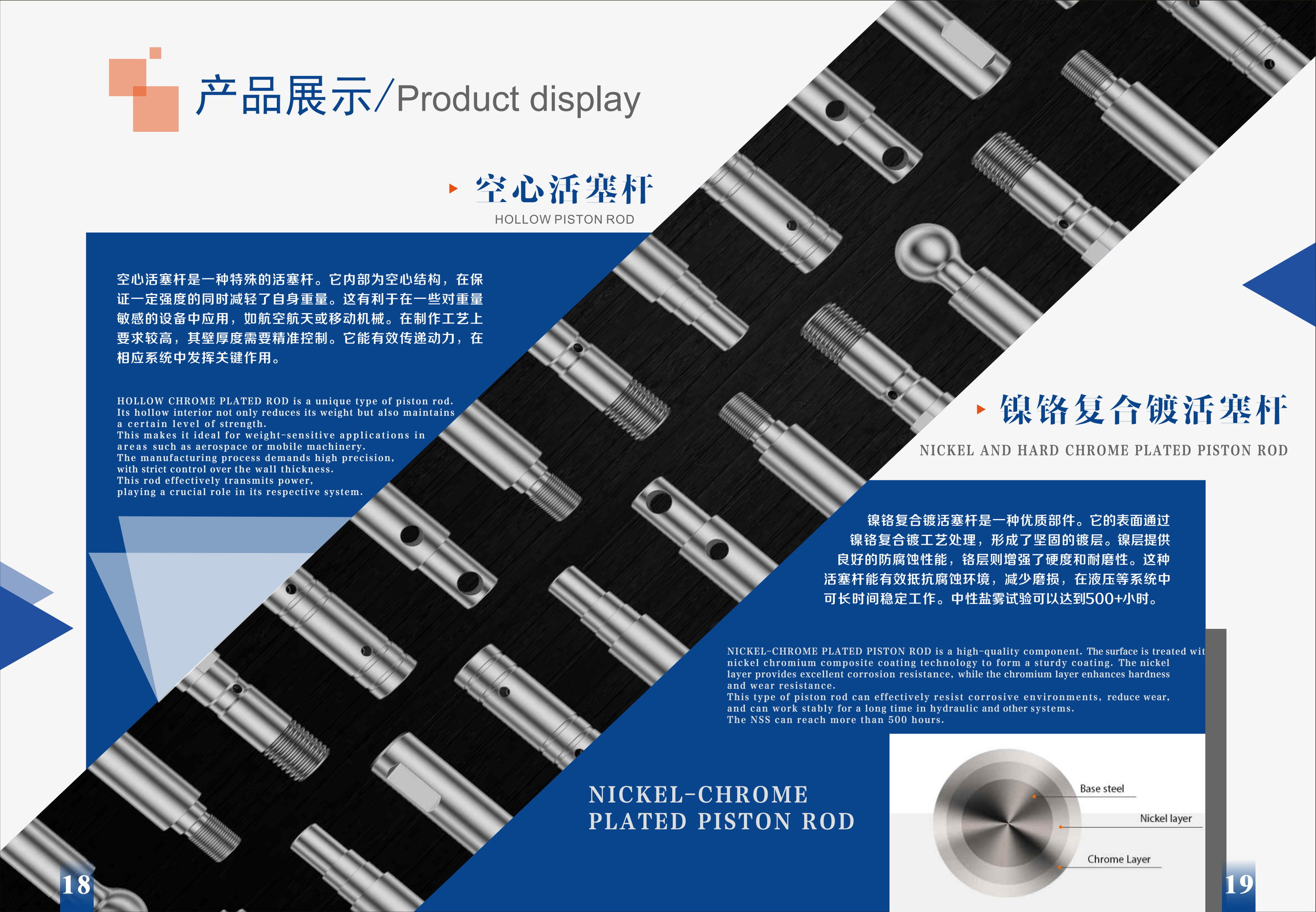
产品展示/Product display

空心活塞杆

HOLLOW PISTON ROD

空心活塞杆是一种特殊的活塞杆。它内部为空心结构，在保证一定强度的同时减轻了自身重量。这有利于在一些对重量敏感的设备中应用，如航空航天或移动机械。在制作工艺上要求较高，其壁厚度需要精准控制。它能有效传递动力，在相应系统中发挥关键作用。

HOLLOW CHROME PLATED ROD is a unique type of piston rod.
Its hollow interior not only reduces its weight but also maintains a certain level of strength.
This makes it ideal for weight-sensitive applications in areas such as aerospace or mobile machinery.
The manufacturing process demands high precision, with strict control over the wall thickness.
This rod effectively transmits power, playing a crucial role in its respective system.



镍铬复合镀活塞杆

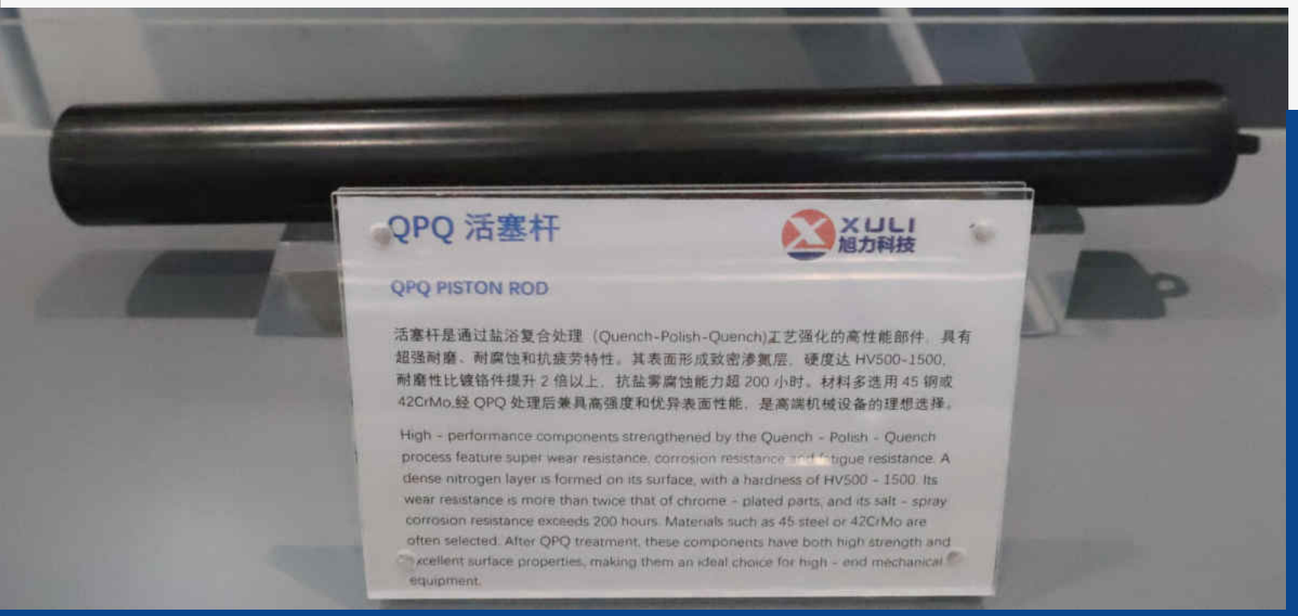
NICKEL AND HARD CHROME PLATED PISTON ROD

镍铬复合镀活塞杆是一种优质部件。它的表面通过镍铬复合镀工艺处理，形成了坚固的镀层。镍层提供良好的防腐蚀性能，铬层则增强了硬度和耐磨性。这种活塞杆能有效抵抗腐蚀环境，减少磨损，在液压等系统中可长时间稳定工作。中性盐雾试验可以达到500+小时。

NICKEL-CHROME PLATED PISTON ROD is a high-quality component. The surface is treated wit nickel chromium composite coating technology to form a sturdy coating. The nickel layer provides excellent corrosion resistance, while the chromium layer enhances hardness and wear resistance.
This type of piston rod can effectively resist corrosive environments, reduce wear, and can work stably for a long time in hydraulic and other systems.
The NSS can reach more than 500 hours.

NICKEL-CHROME PLATED PISTON ROD

产品展示/Product display



QPQ活塞杆

QUENCHING AND TEMPERING PISTON ROD

QPQ活塞杆是通过盐浴复合处理（Quench-Polish-Quench）工艺强化的高性能部件，具有超强耐磨、耐腐蚀和抗疲劳特性。其表面形成致密渗氮层，硬度达HV500-1500，耐磨性比镀铬件提升2倍以上，抗盐雾腐蚀能力超144小时。材料多选用45钢或42CrMo，经QPQ处理后兼具高强度和优异表面性能，是高端机械设备的理想选择。

QPQ piston rod is a high-performance component reinforced by the Quench Polish Quench process, which has super strong wear resistance, corrosion resistance, and fatigue resistance. A dense nitrogen layer is formed on its surface, with a hardness of HV500-1500. Its wear resistance is more than twice that of chrome plated parts, and its salt spray corrosion resistance exceeds 144 hours. Materials such as 45 steel or 42CrMo are commonly used, and after QPQ treatment, they have both high strength and excellent surface properties, making them an ideal choice for high-end mechanical equipment.

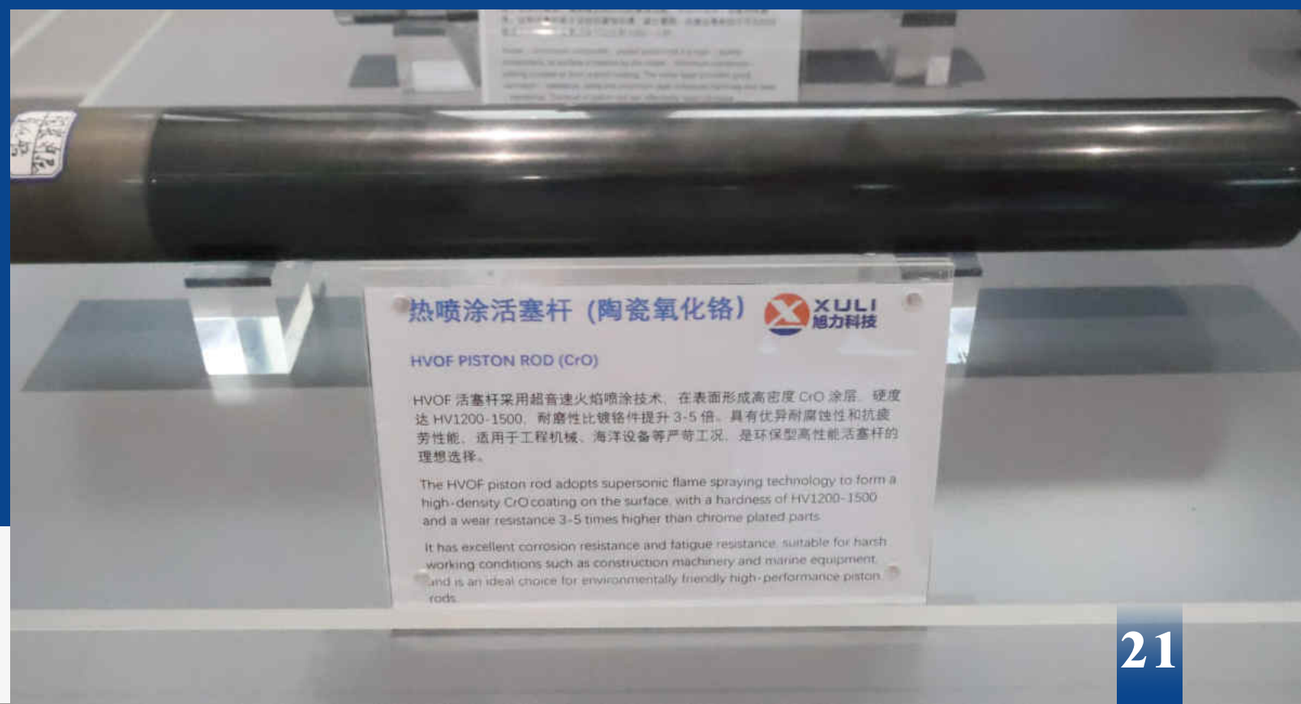


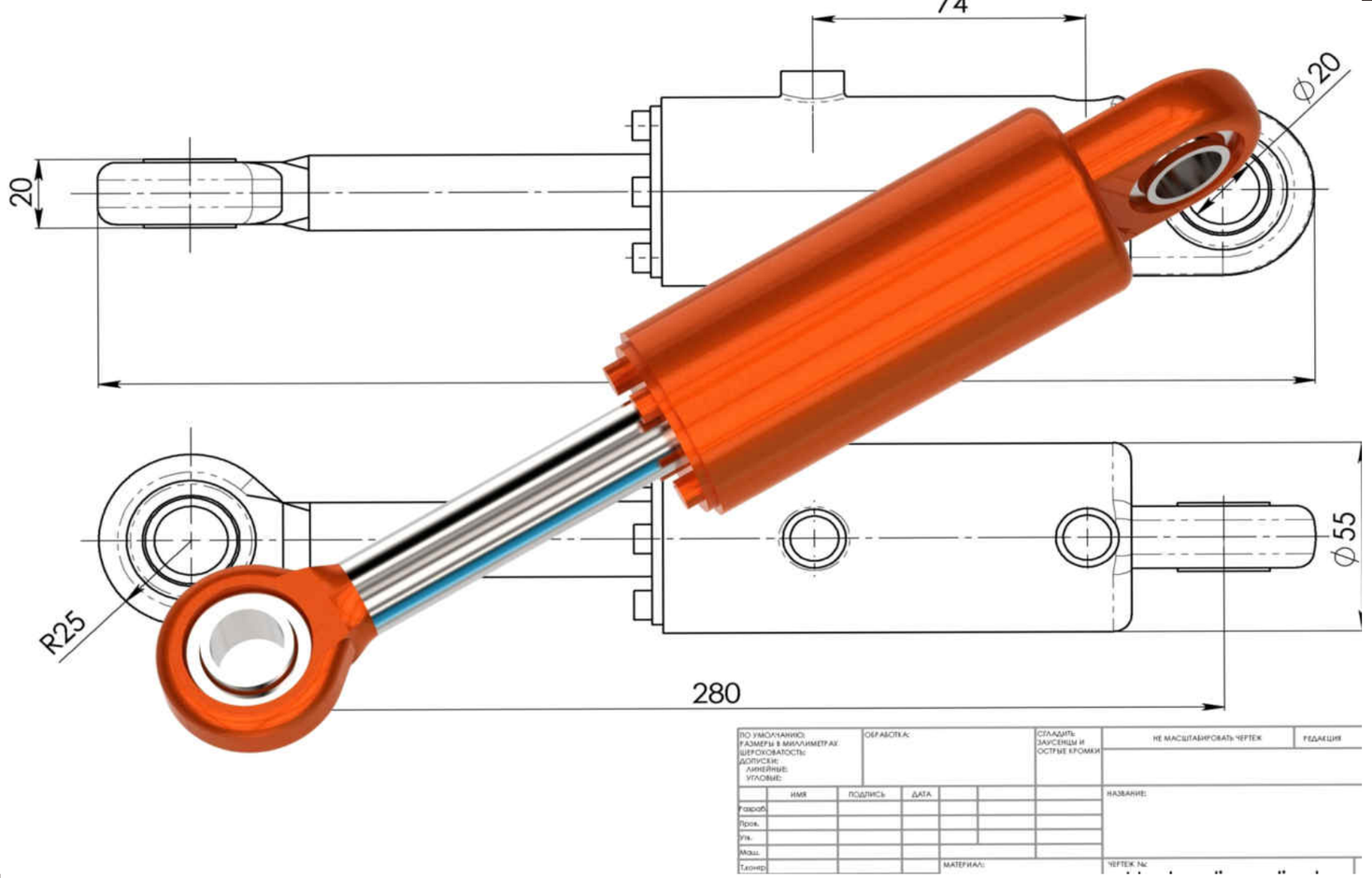
热喷涂活塞杆

HVOF-PISTON ROD

HVOF活塞杆采用超音速火焰喷涂技术，在表面形成高密度WC-Co或Cr3C2涂层，硬度达HV1200-1500，耐磨性比镀铬件提升3-5倍。具有优异耐腐蚀性和抗疲劳性能，适用于工程机械、海洋设备等严苛工况，是环保型高性能活塞杆的理想选择。

The HVOF piston rod adopts supersonic flame spraying technology to form a high-density WC Co or Cr3C2 coating on the surface, with a hardness of HV1200-1500 and a wear resistance 3-5 times higher than chrome plated parts.
It has excellent corrosion resistance and fatigue resistance, suitable for harsh working conditions such as construction machinery and marine equipment, and is an ideal choice for environmentally friendly high-performance piston rods.







根据图纸定制加工

Customize processing according to the drawings Meet the personalized needs of different customers

满足不同客户的个性化需求

以客户需求为导向，提供全方位的行业解决方案

Guided by customer needs, provide comprehensive industry solutions

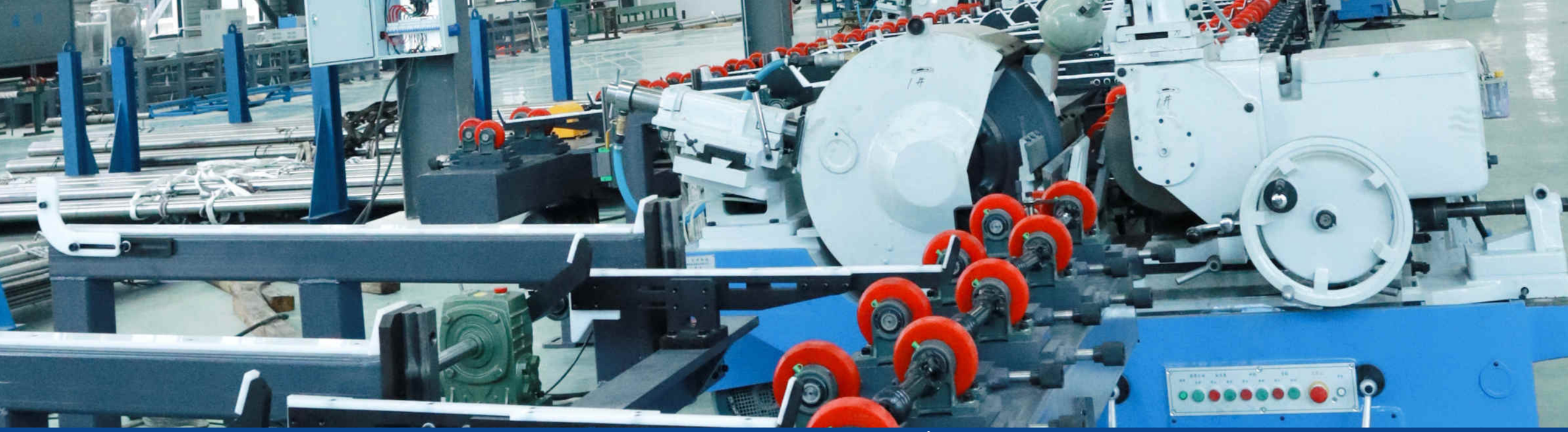
标准符合性：

按ISO 9001、AS9100（航空航天）等行业标准执行。

检验报告：

可提供尺寸报告、材料成分证书（如Mill Certificate）等。





核心优势
Core advantages

全自动高精度磨加工
Fully Automated High-Precision Grinding System

100米长连线设备，控制产品直线度0.03mm，椭圆度0.005mm以内；
确保产品精度和质量，满足高端市场需求。

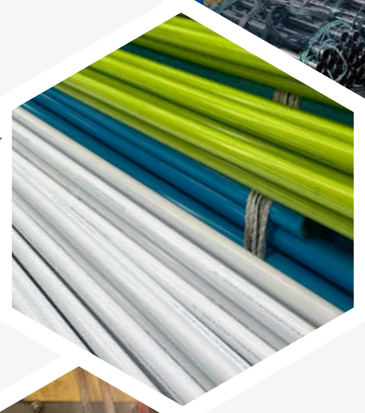
100-meter-long continuous processing equipment, ensuring product straightness ≤0.03mm and ovality ≤0.005mm.
Guarantees precision and quality to meet high-end market demands.

热处理高频感应淬火线
High-Frequency Induction Hardening Line

全自动10米热处理高频感应淬火线，可保证淬火硬度及深度。
提高产品表面硬度和耐磨性，确保产品性能稳定。

10-meter fully automated heat treatment line ensures consistent quenching hardness and depth.
Improves surface hardness and wear resistance for stable product performance.







全自动电镀生产线
Fully Automated Electroplating Lines

2条全自动10米电镀生产线，提升产品耐腐蚀性能，
延长产品使用寿命。
盐雾试验常规产品不低于120小时，
特殊定制品1000小时。

Two 10-meter fully automated electroplating lines enhance corrosion resistance and extend product lifespan.
Salt spray test standards: ≥120 hours for standard products;
≥1000 hours for custom orders.

包装革新
Packaging Innovation

全自动清洗、塑封、密闭包装机，
保持切割过程密闭性，增强抗腐蚀能力
构建品质溯源体系，提高产品包装质量，
实现一物一码“信息可追溯、生产可查询、品质有保障”。

Integrated automated cleaning, plastic sealing,
and hermetic packaging machines to maintain corrosion resistance during cutting.
Establishes a quality traceability system
with "one-code-per-product" tracking for full lifecycle visibility.

核心优势
Core advantages



全工序工厂内生产
In-House Full-Process Production

控制产品每个环节的成本和质量把控
提高生产效率，降低生产成本，
确保产品质量稳定。

End-to-end manufacturing control over costs and quality at every stage.
Boosts efficiency, reduces production costs, and stabilizes product quality.

全方位射线探伤室
Comprehensive X-ray Inspection Facility

行业内首家全方位射线探伤室，
对整支10米长产品做到无损检测，
保证产品质量

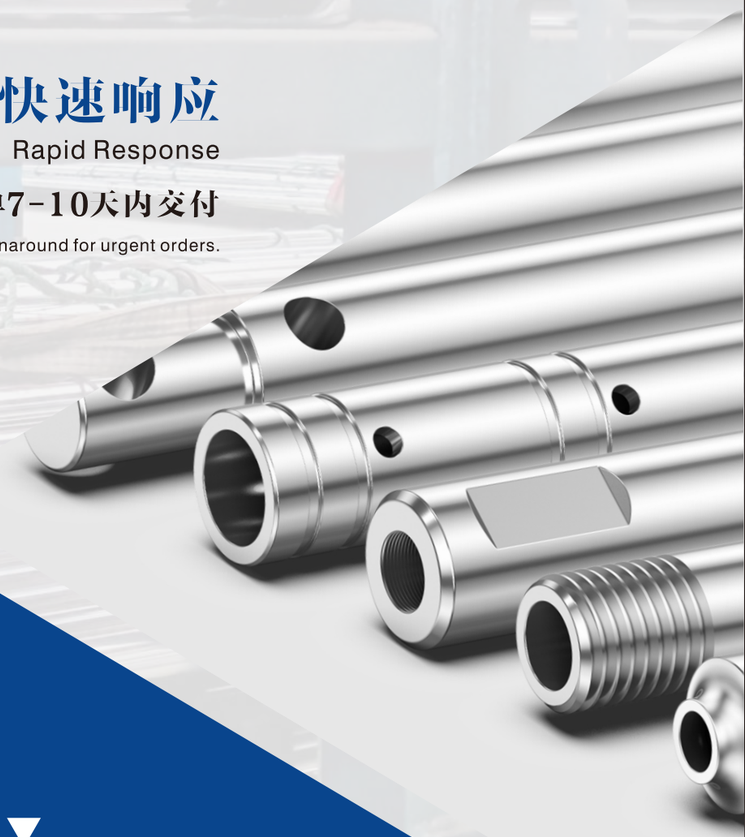
Industry-first full-coverage X-ray testing for 10-meter-long products, ensuring zero-defect quality via non-destructive testing.



快速响应
Rapid Response

根据要求制定生产计划，紧急订单7-10天内交付

Customized production planning with 7-10 day turnaround for urgent orders.



Ready Stock Availability
常规尺寸2000吨常备库存
提高客户满意度，保证供应速度
满足客户紧急订单需求

2,000 tons of standard-size inventory for rapid delivery.
Enhances customer satisfaction and fulfills urgent order requirements.

产业赋能

Industry Empowerment

用于油缸、液压气动、工程机械

Used for oil cylinders, hydraulic pneumatic, and construction machinery

提供精密活塞杆、导轴、导柱、导杆、成品轴等

Provide precision piston rods, guide shafts, guide pillars, guide rods, finished shafts, etc



工程机械 / Engineering Machinery

农业机械 / Agricultural Machinery

特种装备 / Special Equipment

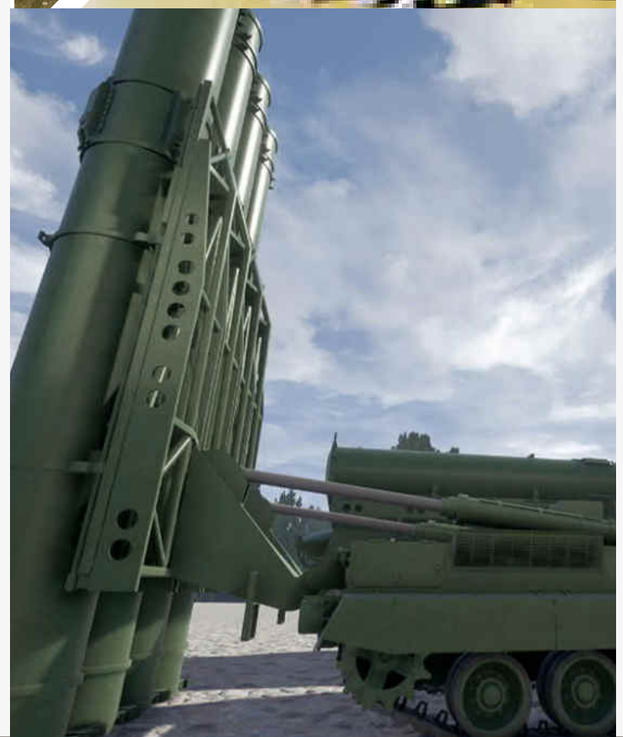
冶金工业 / Metallurgical Industry

港口设备 / Port Equipment

绿色能源 / Green Energy

















活塞杆工艺流程图

PISTON ROD PRODUCTION FLOW CHART



原材料接收
Raw Material Receiving



来料检验
Incoming material inspection



下料
Cutting



调制
Heat Treatment



淬火
Quenching



校直
Straightening



磨加工
Grinding



二次校直
Straightening



超精磨加工
Superfinishing



镀前抛光
Pre-plating Polishing



电镀
Electroplating



镀后检验
Post plating Inspection



镀后抛光
Post-plating Polishing



成品检验
Final Inspection



成品包装
Packaging



定尺锯切
Fixed-length saw cutting



装箱发货
Packing and shipping

Every production process and each quality control checkpoint embodies our solemn commitment to quality.
Every inspection reflects our zero tolerance for flaws.
XULI upholds strict quality standards, continuously improves quality control capabilities,
and delivers more superior and reliable products to customers.

每一道生产工序，每一个质控点，都是我们对质量的庄严承诺；

每一次检验，都是我们对瑕疵的零容忍。

旭力坚守质量底线，不断提升质量控制水平，为客户提供更加优质、可靠的产品。



Production Strength 生产实力



抛光车间
Polishing workshop

金工车间
machine shop

磨床车间
Grinding machine workshop

电镀车间
Electroplating workshop

100米连线精加工
100 meter precision machining of connecting wires

多功能会议室
Multi functional conference room

淬火线
Quenching wire

办公一角
Polishing workshop

检验中心
inspection center















创新驱动
Innovation Driven Engine



产学研融合
Integration of industry, academia and research

构建产学研用融合的创新生态，
与高校、科研机构联合攻关，
提升企业创新能力。

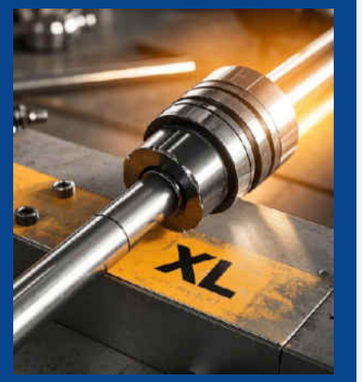
数字孪生平台
Digital Twin Platform

建立产品全生命周期质量管控
体系实现加工效率提升25%。

利用数字孪生技术优化生产流
程提高产品质量和生产效率。

三级研发架构
Three level R&D architecture

依托三级研发架构，
持续推动技术创新和产品升级，
保持行业领先地位。





研发一代
Reserve a generation

年研发投入强度7.2%，布局20项核心专利技术池
构建“基础研究+工程转化+产业应用”闭环创新链，
实现从研发到应用的无缝对接。

Annual R&D investment intensity of 7.2%, layout of 20 core patent technology poolsBuild a closed-loop innovation chain of "basic research+engineering transformation+industrial application",Realize seamless integration from research and development to application.

量产一代
Mass production of the first generation

智能生产线(工业4.0数字化车间)，实现高效生产。
提高生产效率，降低生产成本，提升产品质量。

Intelligent production line (Industry 4.0 digital workshop) to achieve efficient production.
Improve production efficiency, reduce production costs, and enhance product quality.

储备一代
Developing a new generation

产学研联合创新中心与高校、科研机构
联合创新，储备前沿技术。
加速科研成果转化，提升企业自主创新能力。

Industry university research joint innovation center and universities, research institutionsJoint innovation, reserve cutting-edge technologies.
Accelerate the transformation of scientific research achievements and enhance the independent innovation capability of enterprises.

检测设备
Inspection Equipment



金相分析仪
Metallographic analyzer



维氏硬度计
HV Vickers hardness tester

高精度、高效的检测设备

High precision and efficient detection equipment

拉力试验机
Tensile tester



盐雾试验机
Salt spray test machine



洛氏硬度计
Rockwell apparatus



粗糙度仪
Surfac Roughness Tester



镀层测厚仪
Chrome thickness test equipment

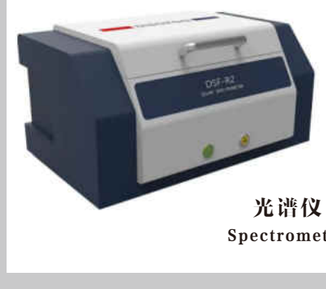


超声波探伤仪
Ultrasonic flaw detector





里氏硬度计
Leeb hardness tester



光谱仪
Spectrometer

依托现代化实验室
严格遵循ISO 9001/TS 16949等国际标准
对每批次活塞杆实施全流程质控

Relying on a modern laboratory,
Strictly following international standards such as ISO 9001/TS 16949,
Implement full-process quality control for each batch of piston rods.



