



石家庄市诚达耐磨材料有限公司

SHIJIAZHUANG CHENGDA WEAR RESISTANT
MATERIALS CO.,LTD

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RESISTANT
MATERIALS CO.LTD

石家庄市诚达耐磨材料有限公司



诚达耐磨公众号



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BEYOND LIMITS INDUSTRY LEADING

跨越极限|行业领先 以诚至达|信满天下



CATALOGUE 目录

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◎	服务领域	SERVICE FIELD
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◎	合作伙伴	BUSINESS PARTNER

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SHIJIAZHUANG CHENGDA WEAR RESISTANT
MATERIALS CO.,LTD

200 2024

01 公司简介 >>>

COMPANY PROFILE

石家庄市诚达耐磨材料有限公司创建于2004年，是一家集研发、设计、制造、销售、技术服务于一体的现代化制造企业。先后荣获：国家高新技术企业、河北省专精特新中小企业、河北省创新型中小企业、河北省科技型中小企业、国家创新基金支持项目等殊荣。

公司主营生产不同规格型号的铬合金耐磨钢球、钢锻、锤头、衬板等产品，年生产量60000余吨，我国北方地区规模最大的耐磨材料生产基地，产品远销二十多个国家及地区。

石家庄市诚达耐磨材料有限公司有着与世界矿企、建材、火力发电长期合作的实践经历，并在国内外大型矿山及大型磨机（φ7m以上）的应用中取得了卓越成绩和服务经验。为广大用户优化并选择最为完美的产品应用方案，使产品应用更具成本效益是我们的追求。

“诚信经营、质量至上、优质服务”是诚达人始终秉持的宗旨，我们愿以“一流的产品、合理的价格、周到

的服务”与海内外客户友好合作。

Shijiazhuang Chengda Wear-resistant Materials Co.,LTD., founded in 2004, is a modern manufacturing enterprise integrating R&D, design, manufacturing, sales and technical services. Our honors: National high-tech Enterprise, Hebei Province specialized and special new small and medium-sized enterprises, Hebei Province innovative small and medium-sized enterprises, Hebei Province science and technology small and medium-sized enterprises, National Innovation Fund support projects. Our main products are various of chromium alloy grinding balls, steel forging, hammer, lining plates etc, annual production capacity over 60,000 tons, is the largest production base of wear-resistant materials in northern China, and its products are exported to more than 20 countries and regions.

Shijiazhuang Chengda Wear-resistant Materials Co., Ltd. has obtained great experience of long-term cooperation with the world's mining enterprises, building materials products (mainly cement, clinker, etc.) and other industries. Our products are widely used in various types of ball mills (φ7m or more) at domestic and abroad. Our objective is to provide the perfect solution for our clients, make the product application more cost-effective is our pursuit. "integrity management, quality control, customer first, better service" is our goals. We are willing to establish a long-term business relationship with customers and clients through the world based on "better quality, competitive price, excellent service".

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发展历程 >>> DEVELOPMENT HISTORY

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携 / 手 / 同 / 行 再 / 创 / 辉 / 煌

JOIN HANDS TO CREATE NEW GLORY

企业文化 >>> CORPORATE CULTURE

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企业使命

ENTERPRISE MISSION

始终坚持以客户为中心，以感恩的心满足客户所需。

The sincere service,customer satisfaction

企业价值观

CORPORATE VALUES

造福员工、发展企业、贡献社会。

Benefit employees
Develop enterprises
Contribute to society

企业愿景

CORPORATE VISION

凝聚力量，为每一位奋进者提供成就自我的平台，打造国际一流研磨供应商。

Gather strength for every striving person,Providing a platform for self-achievement,Build a world-class grinding supplier

行为准则

CODE OF CONDUCT

严于律己 宽以待人 以身作则
Self-discipline,and lenient towards others Lead by example

客户所需

企业荣誉 >>> ENTERPRISE HONOR

荣誉证书 CERTIFICATE OF HONOR



专利证书 PATENT CERTIFICATE

与河北科技大学、石家庄铁道大学等高校合作，联合开发了一系列研究课题，完成了有效技术成果转化30余项。不断加大研发投入，公司研发中心获得河北省工业企业研发机构B级认证，与高校共同合作研发新工艺、新材料，推动科技成果转化。先后获得国家专利35项，其中发明专利15项，实用新型专利20项。

In cooperation with Hebei University of Science and Technology, Shijiazhuang Railway University and other universities, Blank has jointly developed a series of research topics, and completed more than 30 effective technological achievements transformation.

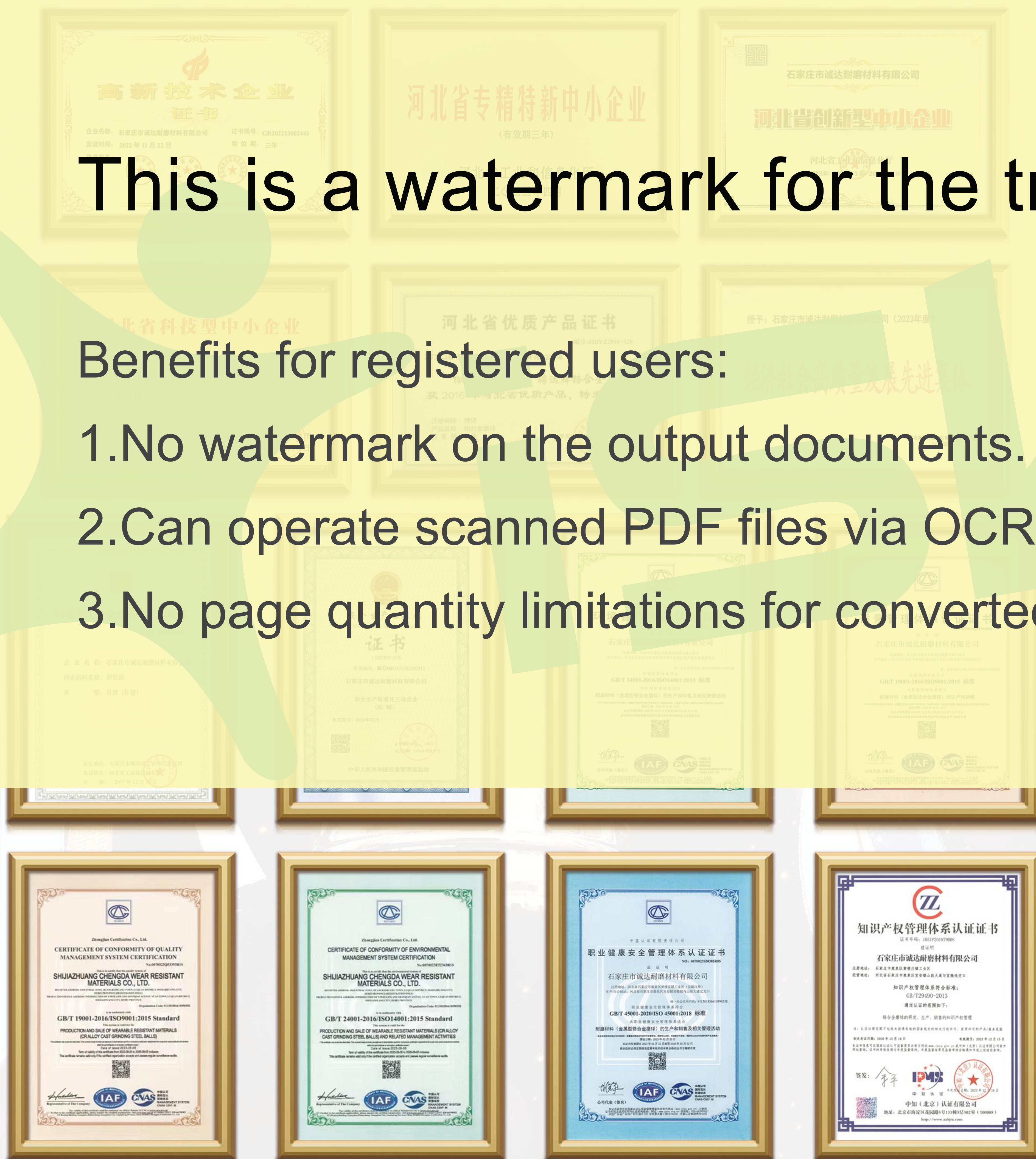
Through continuously increasing investment in research and development, the company's research and development center has obtained the B-level certification of industrial enterprise research and development institutions in Hebei Province, and has cooperated with colleges and universities to develop new processes and new materials to promote the transformation of scientific and technological achievements.

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2022年10月9日，石家庄市诚达耐磨材料有限公司接受了央视CCTV-13“朝闻天下”的专访。

石家庄市诚达耐磨材料有限公司利用旧水泥企业闲置土地，进行转型升级，贯彻绿色低碳发展理念，投资1.8亿

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生产设备 >>> PRODUCTION EQUIPMENT

◆ 石家庄总部全自动生产线 SHIJIAZHUANG HEADQUARTERS AUTOMATIC PRODUCTION LINE

◆ 辽宁鞍山全自动生产线 LIAONING ANSHAN AUTOMATIC PRODUCTION LINE



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射砂成型 SHOT SAND MOLDING



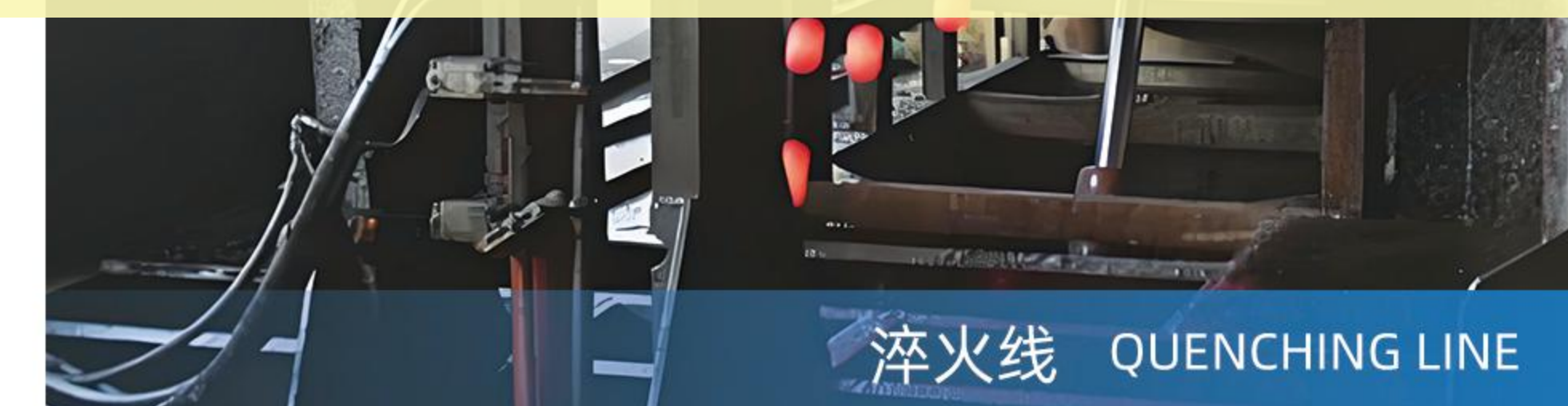
铁水转运系统
HOT METAL TRANSFER SYSTEM



全自动浇铸机
AUTOMATIC CASTING MACHINE



射砂造型 SHOT SAND MOLDING



淬火线
QUENCHING LINE



合箱机
CLOSING MACHINE

石家庄市诚达耐磨材料有限公司拥有“省级实验室”并配备行业的理、化检测检验设备。装备了全自动铸球生产线，生产线采用铁型覆砂工艺，延续了金属模激冷成型工艺的优点，晶粒细化，铸件精度高。

Shijiazhuang Chengda Wear-resistant Materials Co., Ltd. has a "provincial laboratory" and is equipped with the industry's physical and chemical testing equipment. Equipped with automatic casting ball production line, the production line adopts iron sand coating process, which continues the advantages of metal mold chill forming process, fine grain and high casting precision.

生产设备PRODUCTION EQUIPMENT

全自动四驱热处理生产线

AUTOMATIC FOUR-DRIVE HEAT TREATMENT PRODUCTION LINE

高铬系列研磨介质热处理工艺:

高铬合金白口铸铁铸态显微组织是过饱和的奥氏体+片状或块状含铬共晶碳化物，共晶碳化物较粗大呈断续网状分布，为了充分发挥高铬合金白口铸铁的抗磨性能，必须通过热处理来改变基体组织，将奥氏体转化成马氏体，以提高基体的硬度，从而提高耐磨性，目前常用的高铬系列研磨介质热处理工艺有以下三种：

高温淬火+回火

等温淬火工艺

亚临界处理工艺

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不同热处理工艺条件下残留奥氏体含量(文摘)THE CONTENT OF REMAINING AUSTENITE IN DIFFERENT HEAT-TREATING TECHNOLOGY CONDITIONS(ABSTRACT)

热处理工艺 Heat treatment process	HRC		ak	Ar%
	I	II		
950℃油淬 (Oil quenching)	63.4	62.9	2.0	11.5
950℃油淬 (Oil quenching) +350℃回火 (temper)	59.9	59.2	4.8	9.24
950℃油淬 (Oil quenching) +400℃回火 (temper)	59.3	56.9	4.0	10.7
950℃油淬 (Oil quenching) +450℃回火 (temper)	58.6	55.9	3.5	8.54
950℃油淬 (Oil quenching) +500℃回火 (temper)	54.6	51.8	2.0	1.9
950℃油淬 (Oil quenching) +600℃回火 (temper)	43.1		3.0	0.00

不同淬火温度条件下残留奥氏体含量 THE CONTENT OF REMAINING AUSTENITE IN DIFFERENT QUENCHING TEMPERATURE CONDITIONS.

淬火温度	950℃	980℃	1010℃	1050℃	1100℃
Ar%	11.5	18.8	31.7	61.4	78.7

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产品淬火PRODUCT QUENCHING

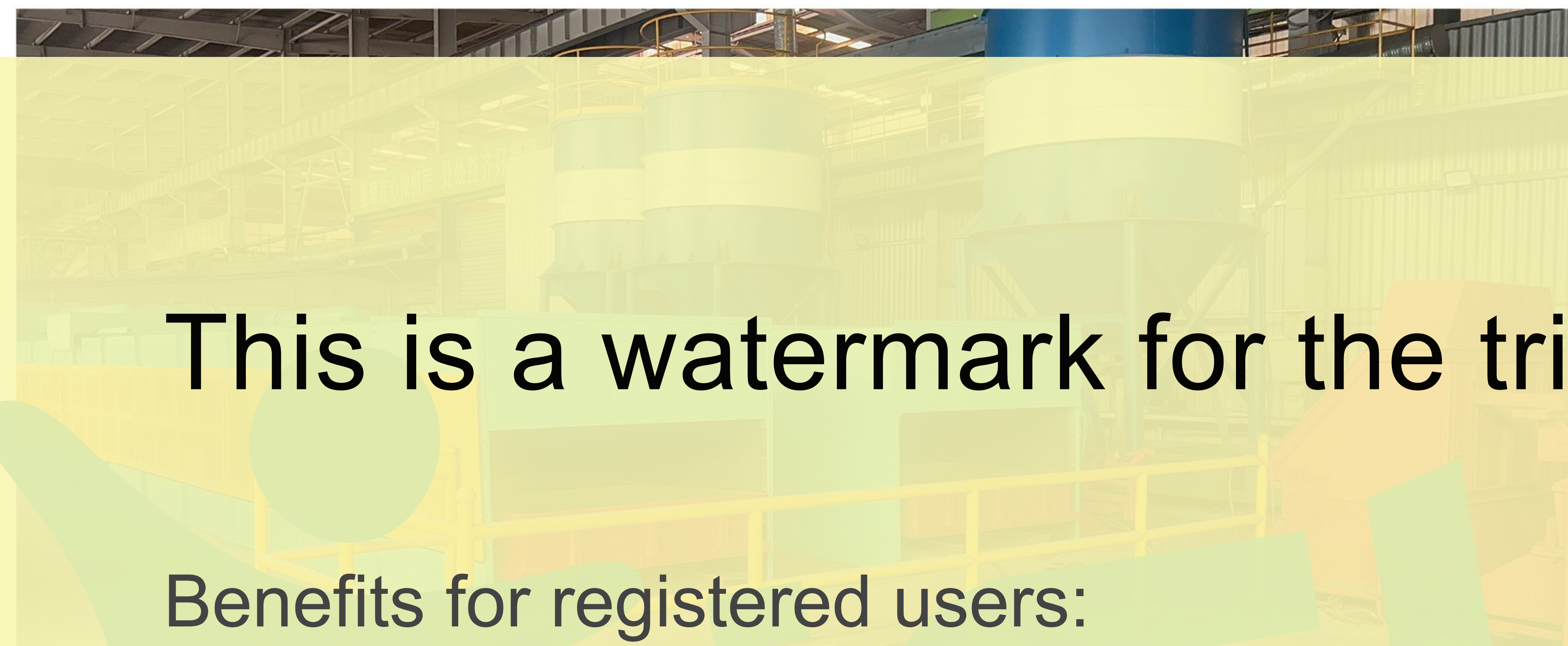
产品淬火PRODUCT QUENCHING

淬火线QUENCHING LINE

生产设备 PRODUCTION EQUIPMENT

全自动微球、微锻生产线

AUTOMATIC MICROSPHERE, MICRO-FORGING PRODUCTION LINE



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我司自主研发的“全自动微球、微锻生产线”在国内壳型微球、微锻生产行业属于首创，居国内领先水平。获得国内外多家矿山、建材企业的认可，节能降耗、增产增效方面成就突出。

Our self-developed "automatic microsphere, micro-forging production line" is the first in the domestic shell microsphere, micro-forging production industry, ranking in the domestic leading technology level. It has been recognized by many mining and building materials enterprises at home and abroad, and has made outstanding achievements in energy saving, consumption reduction, production increase and efficiency.

石家庄市诚达耐磨材料有限公司具备年产60000吨各类耐磨球锻及5000吨高性能耐磨铸件、耐磨锤头和矿山配件的生产能力，产品现拥有八大系列，100多个材质品种规格。主要产品有：多元合金铸球、高铬合金微球、高铬合金铸球(铸锻)、低铬合金钢球、低铬合金铸锻、合金钢衬板、耐磨衬板等，各种润磨机钢球、球磨机钢球、钢锻。并广泛应用于火电烟气脱硫、火电煤磨机、矿山、化工、水泥、磁性材料，润磨机、超细粉、粉煤灰、碳酸钙、矿渣等所有球磨机，用户遍及全国各个省、市、自治区，并出口美、日、韩、澳、俄等几十个国家和地区。以其优质高效、耐磨性能好，先后获得河北省质量管理奖、河北名牌产品和省优质产品等20多项大奖。

Shijiazhuang Chengda Wear-resistant Material Co., Ltd. has an annual output of 60,000 tons of various kinds of wear-resistant ball forging and 5,000 tons of high-performance wear-resistant castings, wear-resistant hammer and mining accessories production capacity, products now have eight series of more than 100 material varieties specifications, the main products are: Multi-component alloy casting ball, high chromium alloy microsphere, high chromium alloy casting ball (casting and forging), low chromium alloy steel ball, low chromium alloy casting and forging, alloy steel lining plate, wear-resistant lining plate etc., all kinds of moistening mill steel ball, ball mill steel ball, steel forging. And widely used in thermal power flue gas desulfurization, thermal power coal mill, mining, chemical industry, cement, magnetic material, water mill, ultrafine powder, fly ash, calcium carbonate, slag and other ball mill, for grinding various kinds of mineral powder, since the company's products have been exported to the United States, Russia and other dozens of countries and regions. With its high quality, high efficiency and good wear resistance, it has won more than 20 awards such as Hebei Quality Management Award, Hebei Famous Brand Product and Provincial Quality Product.

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成品待发 TEEMING

n7 工艺流程 TECHNOLOGICAL PROCESS

WITH SINCERITY TO THE
LETTER OF SUCCESS

以诚至信 飞黄腾达

◆ 工艺流程图 TECHNOLOGICAL PROCESS DIAGRAM

◆ 工艺实景图 PROCESS FLOWCHART

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HONESTY, PRAGMATISM
AND QUALITY WIN

诚信务实 以质取胜

nq

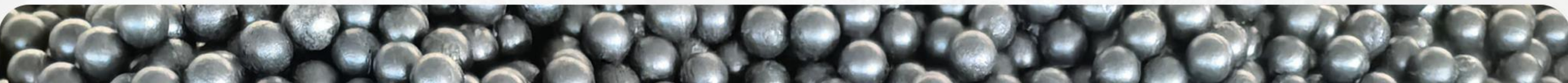
产品介绍

»»

PRODUCT INTRODUCTION

◆ 铬合金耐磨钢球

CHROMIUM ALLOY WEAR-RESISTANT STEEL BALL



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化学成份 CHEMICAL COMPOSITIONS(%)

牌号 Designation	C	Si	Mn	Cr	Mo	Cu	Ni	P	S
ZQCr26	2.0-2.6	≤1.0	0.3-1.5	23.0-27.0	≤1.0	≤1.0	≤1.0	≤0.06	≤0.06
ZQCr20	2.0-2.6	≤1.0	0.3-1.5	18.0-23.0	≤1.0	≤1.0	≤1.0	≤0.06	≤0.06
ZQCr15	2.0-2.6	≤1.0	0.3-1.5	14.0-18.0	≤1.0	≤1.0	≤1.0	≤0.06	≤0.06
ZQCr12	2.2-3.0	≤1.0	0.3-1.5	10.0-14.0	≤1.0	≤1.0	≤1.0	≤0.06	≤0.06
ZQCr8	2.2-3.0	≤1.0	0.3-1.5	7.0-10.0	≤1.0	≤0.8	≤1.0	≤0.06	≤0.06
ZQCr5	2.2-3.2	≤1.0	0.3-1.5	4.0-6.0	≤1.0	≤0.8	≤1.0	≤0.08	≤0.08
ZQCr2	2.2-3.2	≤1.0	0.3-1.5	1.0-3.0	≤1.0	≤0.8	≤1.0	≤0.10	≤0.10
ZQCADI	3.3-3.9	2.4-3.0	1.4-1.9	0.2-0.5	≤0.5	0.1-0.5	0.1-0.5	≤0.05	≤0.05

力学性能与金相组织 MECHANICAL PROPERTIES AND MICROSTRUCTURE

牌号 Designation	表面硬度 (HRC)	冲击值 AK(J/cm ²)	金相组织 Microstructure	落球次数 Falling Times
ZQCr28	≥58	≥4.8	M+C	≥18000
ZQCr26	≥58	≥4.8	M+C	≥18000
ZQCr20	≥60	≥4.8	M+C	≥18000
ZQCr15	≥60	≥4.8	M+C	≥18000
ZQCr12	≥60	≥4.5	M+C	≥18000
ZQCr8	50-65	≥3.5	P+C/M+C	≥12000
ZQCr5	49-62	≥3.0	P+C/M+C	≥12000
ZQCr2	≥48	≥3.0	P+C	≥10000
ZQCADI	55-60	≥10	B+Fe	≥25000
C-碳化物Carbide M-马氏体Martensite P-珠光体Pearlite B-贝氏体Bainite Fe-铁素体Ferrite				

规格 (mm) Specification	只重量(Kg) of Each	1000Kg个 Pcs/ton	堆密度 T/M ³
φ17	0.017	58824	4.94
φ20	0.024	41667	4.91
φ25	0.037	27027	4.89
φ30	0.050	20000	4.87
φ35	0.069	14494	4.85
φ40	0.087	11494	4.76
φ45	0.106	9434	4.70
φ50	0.125	8000	4.66
φ55	0.150	6667	4.62
φ60	0.177	5650	4.60
φ80	0.250	4000	4.58
φ90	0.300	3333	4.56
φ100	0.400	2500	4.55
φ110	0.500	2000	4.54
φ120	0.600	1667	4.52
φ125	0.775	1290	4.50
φ130	0.874	1144	4.50

◆ 奥贝耐磨钢球(CADI)

AUBE WEAR-RESISTANT
STEEL BALL (CADI)

CADI 磨球具有磨耗低、破碎率低、
节电、噪音低等优点。

CADI grinding ball has the advantages
of low wear, low crushing rate, power
saving and low noise.



产品介绍

PRODUCT INTRODUCTION

◆ 铬合金耐磨钢锻

CHROMIUM ALLOY WEAR-RESISTANT STEEL FORGING



化学成份 CHEMICAL COMPOSITIONS(%)

牌号 Designation	C	Si	Mn	P	S	Cr
ZDCr26	2.2-3.0	≤1.0	0.3-1.0	24.0-30.0	≤0.10	≤0.06
ZDCr23	2.2-3.0	≤1.0	0.3-1.0	22.0-24.0	≤0.10	≤0.06
ZDCr20	2.2-3.0	≤1.0	0.3-1.0	18.0-22.0	≤0.10	≤0.06
ZDCr17	2.2-3.0	≤1.0	0.3-1.0	14.0-18.0	≤0.10	≤0.06
ZDCr15	2.2-3.0	≤1.0	0.3-1.0	10.0-14.0	≤0.10	≤0.06
ZDCr12	2.2-3.0	≤1.0	0.3-1.0	8.0-10.0	≤0.10	≤0.06
ZDCr8	2.2-3.2	≤1.0	0.3-1.0	5.0-8.0	≤0.10	≤0.06
ZDCr5	2.2-3.2	≤1.0	0.3-1.0	3.0-5.0	≤0.10	≤0.06
ZDCr2	2.2-3.2	≤1.0	0.3-1.0	1.0-2.0	≤0.10	≤0.06

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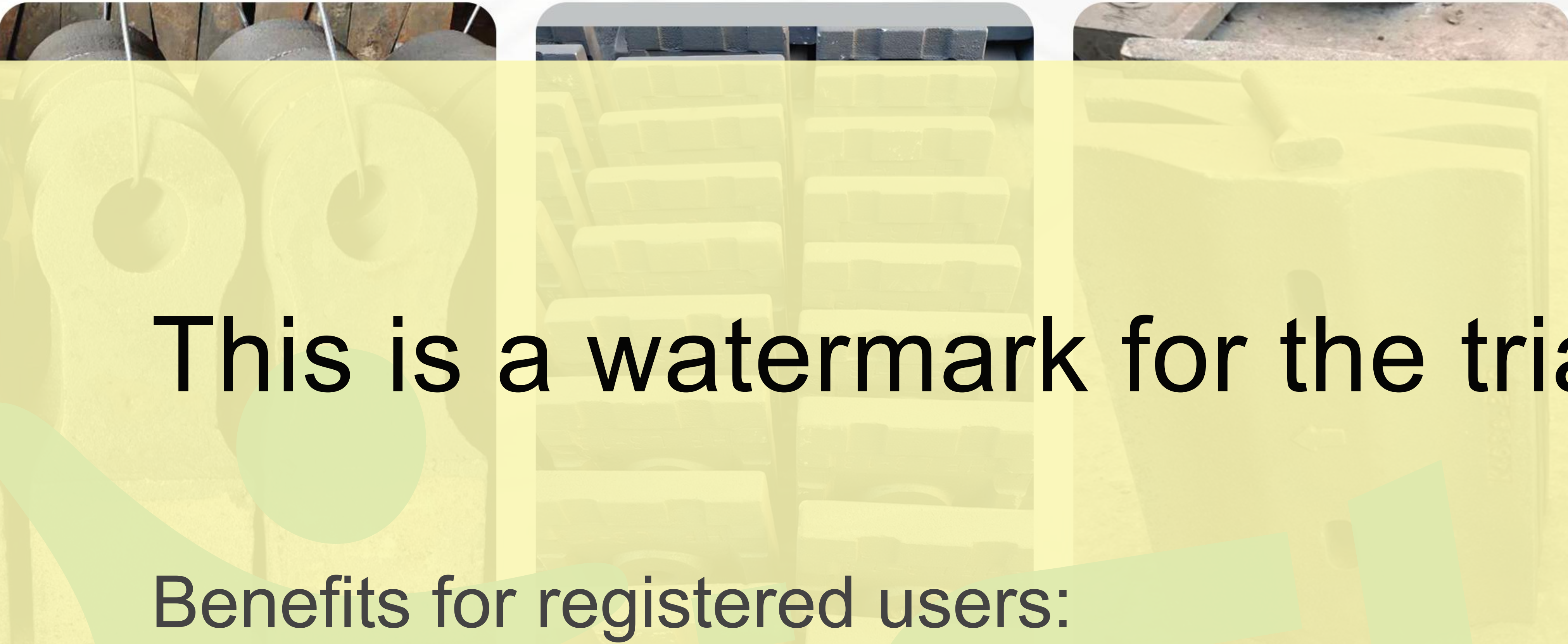
牌号 Designation	表面硬度 (HRC)	芯部硬度 (HRC)	金相组织 Microstructure
ZDCr28	≥62	≥62	M+C
ZDCr26	≥62	≥62	M+C
ZDCr23	≥62	≥62	M+C
ZDCr20	≥62	≥62	M+C
ZDCr17	≥62	≥62	M+C
ZDCr15	≥62	≥62	M+C
ZDCr12	≥62	≥62	M+C
ZDCr8	50-55	50-55	P+C/M+C
ZDCr5	50-55	50-55	P+C/M+C
ZDCr2	≥48	≥47	P+C
ZDCADI	55-60	55-60	B+Fe
C-碳化物Carbide M-马氏体Martensite P-珠光体Pearlite B-贝氏体Bainite Fe-铁素体Ferrite			

产品规格 SPECIFICATION

规格 (mm) Specification	每只重量(Kg) Weight of Each Ball	每1000Kg个数 Pcs/ton
Φ8×10	0.0039	255056
Φ10×12	0.0074	136030
Φ12×14	0.0120	80970
Φ14×16	0.0190	52052
Φ16×18	0.0280	35424
Φ18×20	0.0400	25191
Φ20×25	0.0610	16324
Φ25×30	0.1150	8706
Φ30×35	0.1930	5182
Φ35×40	0.3000	3331
Φ40×45	0.4400	2267
Φ45×55	0.5711	1751
Φ50×60	0.8611	1161

产品介绍 PRODUCT INTRODUCTION

衬板、锤头系列 LINER, HAMMER SERIES



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序号 NO.	种类 Kinds	牌号 Designation	化学成分 Chemical Compositions[%]					机械性能 Mechanical Properties		金相组织 Microstructure
			Cu	S	P	AK (J/cm²)	HRC			
1	中碳中铬I	ZG30Cr5MoRE		≤0.045	≤0.045	≥25	≥45			M+B+C
2	中碳中铬II	ZG40Cr5MoRE		≤0.045	≤0.045	≥20	≥48			M+B+C
3	中碳低合金	ZG40CrMoNiRE		≤0.04	≤0.04	≥30	≥40			M+Fe
4	低碳高合金	ZG20Cr9NiMo	≤0.1	≤0.045	≤0.045	≥40	≥40			M+C
5	铬钼镍合金钢	ZG45Cr3NiMoMnRE		≤0.04	≤0.04	≥20	≥50			M+C
6	90铬合金钢	ZG90Cr6MoMn		≤0.045	≤0.045	≥7	≥50			M+C
7	改性高锰钢	ZGMn13Cr2		≤0.06	≤0.06	≥80	≤240			A+C
8	超高锰钢	ZGMn17Cr2		≤0.06	≤0.06	≥50				
9	高铬铸铁	KmTBCr15Mo2	0-1.2	≤0.06	≤0.06					M+
10	高铬铸铁	KmTBCr20Mo2	0-1.2	≤0.06	≤0.06					M+
11	高铬铸钢	ZGCr12SiMn-GT	0-1.0	≤0.06	≤0.06	≥3.2				M+A+C
12	高铬铸钢	ZGCr15SiMn-GT	0-1.0	≤0.06	≤0.06	≥3.5				M+A+C

C-碳化物Carbide M-马氏体Martensite B-贝氏体Bainite Fe-铁素体Ferrite A-奥氏体Austenite

力学性能与金相组织 MECHANICAL PROPERTIES AND MICROSTRUCTURE

序号 NO.	种类 Kinds	牌号 Designation	化学成分 Chemical Compositions[%]			机械性能 Mechanical Properties		金相组织 Microstructure
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6	90铬合金钢	ZG90Cr6MoMn		≤0.045	≤0.045	≥7	≥50	M+C
7	改性高锰钢	ZGMn13Cr2		≤0.06	≤0.06	≥80	≤240	A+C
8	超高锰钢	ZGMn17Cr2		≤0.06	≤0.06	≥50		
9	高铬铸铁	KmTBCr15Mo2	0-1.2	≤0.06	≤0.06			M+
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C-碳化物Carbide M-马氏体Martensite B-贝氏体Bainite Fe-铁素体Ferrite A-奥氏体Austenite

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nq 质量把控 >>> QUALITYCONTROL

诚达拥有行业先进的全流程检验检测中心，从原材料采样到成品检测，由专业人员遵照国际质量管理体系标准实施操作，确保产品品质始终如一，满足客户实际需求。

Chengda has an industry-leading full-process inspection and testing center. From raw material sampling to finished product testing, professionals implement operations in accordance with international quality management system standards to ensure consistent product quality and meet the actual needs of customers.

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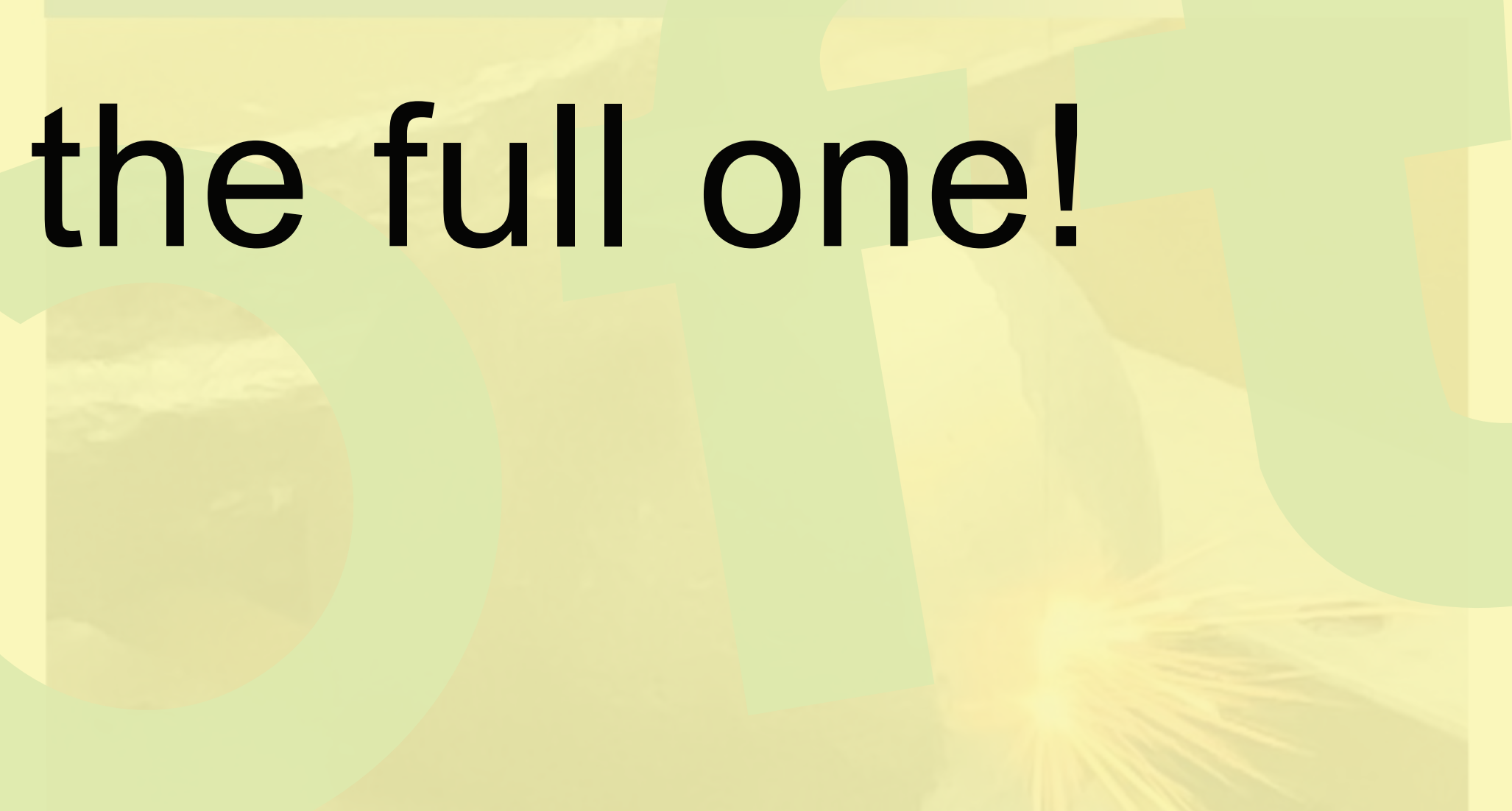
数控电火花切割机 CNC EDM CUTTING MACHINE



冲击试验机 IMPACT TESTING MACHINE



切割图场景 CUTTING MACHINE

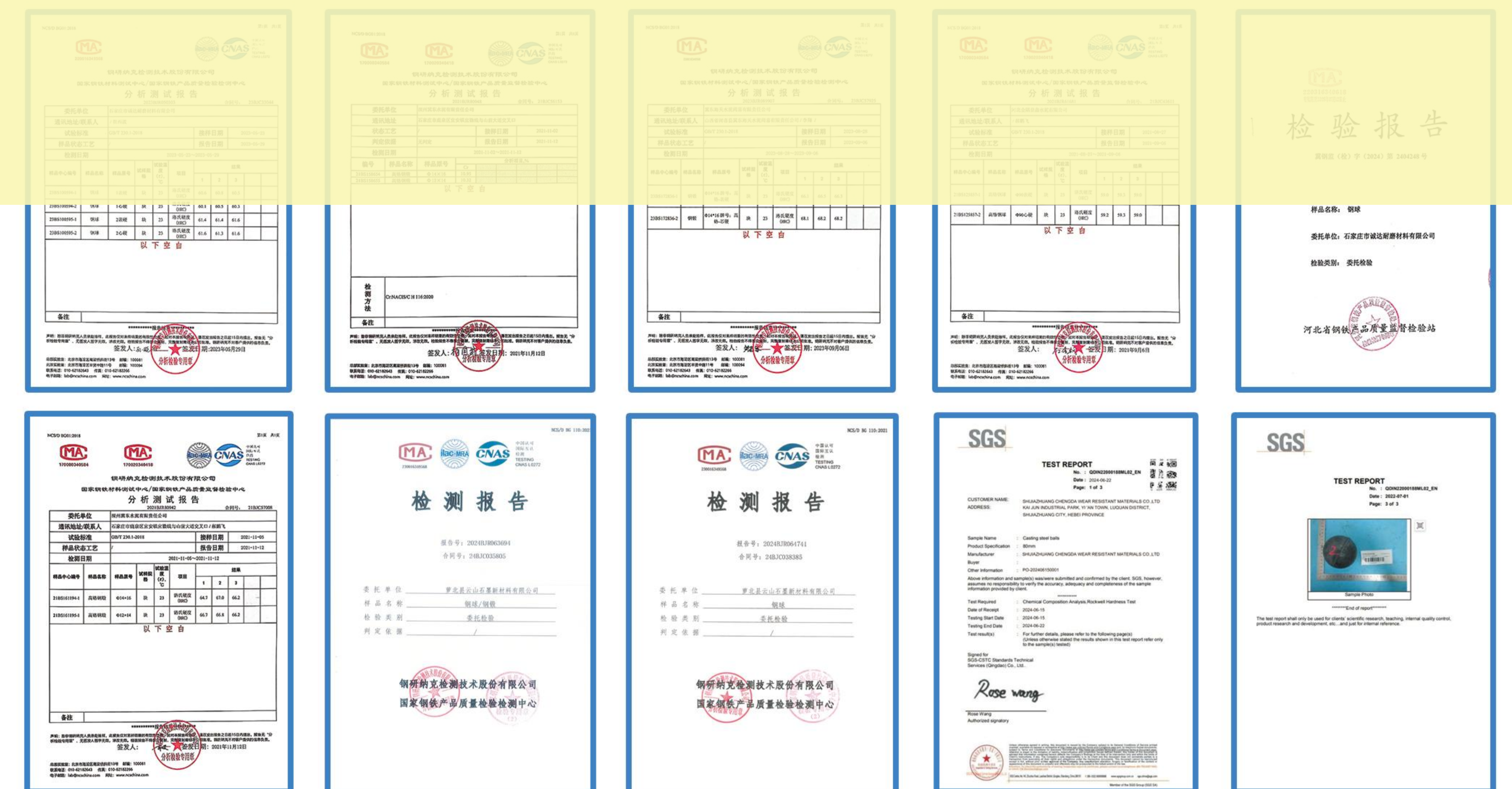


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大型金相显微镜
LARGE METALLOGRAPHIC MICROSCOPE



自动化碳硫分析仪
AUTOMATED CARBON AND SULFUR ANALYZER



1n 服务领域 >>> SERVICE FIELD



电力行业 THERMAL POWER PLANT

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矿山冶金行业 MINING METALLURGY INDUSTRY



建材行业 BUILDING MATERIALS INDUSTRY

在火力发电行业的应用主要为 $\phi 30-70\text{mm}$ 型号的钢球，主要用在为粉碎研磨火力发电大块原材料煤，通过球磨机把大块煤研磨成煤粉，使其充分燃烧。

The application in the thermal power generation industry is mainly $\phi 30-70\text{mm}$ grinding balls, used for crushing and grinding large coal into pulverized coal through the ball mill for the purpose of fully burned.



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在矿山行业中，铬合金耐磨钢球的使用尤为关键，它能够帮助研磨矿石，使其变得更细，满足后续加工和处理的需求。铸造铬合金钢球因其高硬度、低磨损和良好的韧性，能够在研磨物料过程中降低能耗，提高粉碎效率，提高磨机的生产能力，从而实现降本增效的目标。

In the mining industry, the function of chromium alloy grinding balls is particularly critical to help grind ore and make it finer to meet the needs of subsequent processing. Benefit by the balls' higher hardness, lower wear and better toughness, can reduce energy consumption, improve the efficiency, enhance the production capacity of the mill.

在水泥生产中主要是通过研磨物料，使物料达到更细的粒度，以满足使用标准。这种材料的使用，不仅提高了水泥生产的效率，还为水泥行业的持续发展提供了坚实的支撑。

In cement industry, the balls are mainly used for grinding materials to required fineness to meet the user's standards. By using our grinding balls can both improve the efficiency of cement production, and also provides great support for the sustainable development of the cement industry.



11 销售网络 >>> SALES NETWORK

诚达公司始终将客户需求作为企业发展的核心动能，从前期沟通到工艺精进，从产品规格到交付使用，每一个环节都有专业团队提供精诚服务。

空白目前，凭借卓越的品质、心动价格、极致的服务，诚达耐磨材料产品远销全球二十多个国家和地区，深受合作伙伴的认可与信赖，形成了触达不同领域、多个行业的跨国营销网络。

未来，诚达公司愿以如火的赤诚链接更多全球客户，与大家共同实现更高价值、创造无限可能。

Chengda always take the customer needs and satisfactions as our goal,with a professional team,pro-
viding sincere services for each step of customers requirements,including the communication,product
specifications,production,delivery and shipment.

空白At present,with excellent quality,exciting prices and ultimate service,our products are exported to
more than 20 countries and regions around the word,and are deeply recognized and rusted by partners,-
forming a network that reaches out to diferent fields and multiple industries.

空白In the future,chengda is willing to connect more global customers with enthusiasm and passion,and
work with everyone to achieve higher value and create infinite possibilities.

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12 合作伙伴 »» COOPERATIVE PARTNER

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