

期待您的合作

Looking Forward to Joining hands with You



您的一站式耐磨商店

这里拥有您对抗耐磨所需的一切

Your one-stop wear shop
Everything you need to fight wear



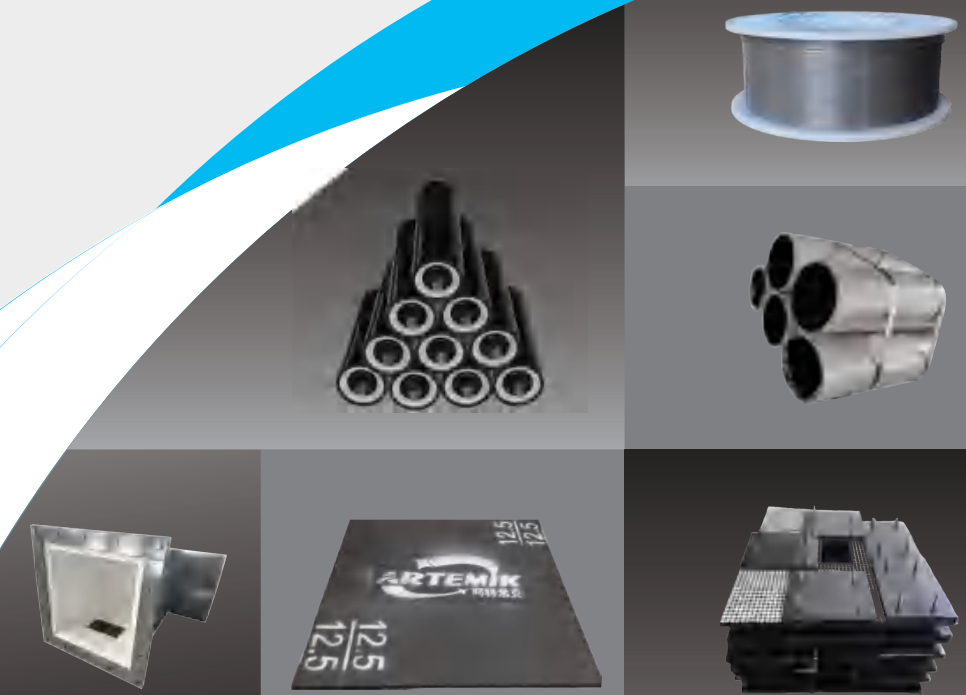
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日照阿特米克新材料有限公司
Rizhao Artemik New Materials Co., Ltd

ARTEMIK

公司简介

日照阿特米克新材料有限公司位于山东省日照市市北经济开发区，是一家综合性高科技技术企业，从事耐磨损、耐高温、耐腐蚀等堆焊材料的研发、生产、销售和维修施工。公司主要生产耐磨药芯焊丝、双金属复合耐磨板、无裂纹熔覆耐磨板、耐磨衬板、耐磨管道、耐磨陶瓷衬板、耐磨陶瓷管道、耐磨铲斗及抓斗、耐磨溜槽、耐磨料仓、各种耐磨加工件等。

在耐磨材料领域，阿特米克拥有专业的团队，为客户提供现场恶劣工况下的磨损解决方案，生产的耐磨产品具有抗冲击、易加工、易安装等特点，并可采取焊接、塞焊、螺栓等方式与其它结构件连接。主要服务于煤炭矿山、机械设备、电力、港口码头、钢铁、疏浚等行业。未来公司将向着更先进，更专业，更优质的发展方向努力奋进！

Rizhao Artemik New Materials Co., Ltd. is located in Rizhao Economic Development Zone, Shandong Province. As a high-tech enterprise specialized in manufacturing wear-resistant, heat-resistant and corrosion-resistant hardfacing material, it also produces wear-resistant flux-cored welding wire, bimetallic wear-resistant plates and pipes, wear-resistant ceramic liners, and pipes, crack-free wear plate wear-resistant buckets and grabs, chutes, silos, and various fabricated parts.

ARTEMIK has a professional team that provides reliable solutions for harsh operating conditions on your job site. Our wear-resistant products are characterized with improved impact resistance, easy handling and installation to the existing structure by plug welding, bolting, etc. The industries served are coal mining, machinery, power generation, ports, iron and steel and dredging.

创立时间
Established In

2018 年

国家级发明专利
National Invention Patent

30 项

注册资金
Registered capital

1000 万元



荣誉资质

Honors and Qualifications



Our Vision

企业愿景

成为耐磨行业技术创新领先企业

Becoming a leading enterprise in technological innovation.

Our Culture

企业精神

担当、责任、合规、创新、价值

Responsibility Accountability Compliance Innovation Values

Our Mission

使命和宗旨

为客户解决一切磨损难题

为客户提供全面有效的抗磨损解决方案

打造一流企业,坚持以人为本

始于客户需求,忠于客户满意

- 1.Solving wear problems.
- 2.Providing comprehensive and efficient wear-resistant solutions.
- 3.Building first-class enterprise.
- 4.Satisfying customer's expectation.

Our Values

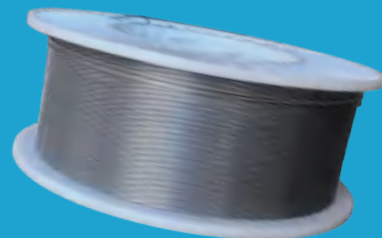
核心价值观

服务客户、造福员工

发展企业、贡献社会

Customers Service、Employee's Well-being、Corporate Development、Social Commitment

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ARTEMIK 检验设备

Laboratory Testing Apparatus



洛氏硬度计
Rockwell Hardness Tester



手持光谱仪
Handheld Spectrometer



直读光谱仪
OES



金相显微镜
Metallurgical Microscope



金相试样磨抛机
Test Sample Grinder



碳硫分析仪
Carbon & Sulfur Analyzer



干砂橡胶轮式磨损试验机
Rubber Wheel Abrasion Tester

ARTEMIK 焊接过程

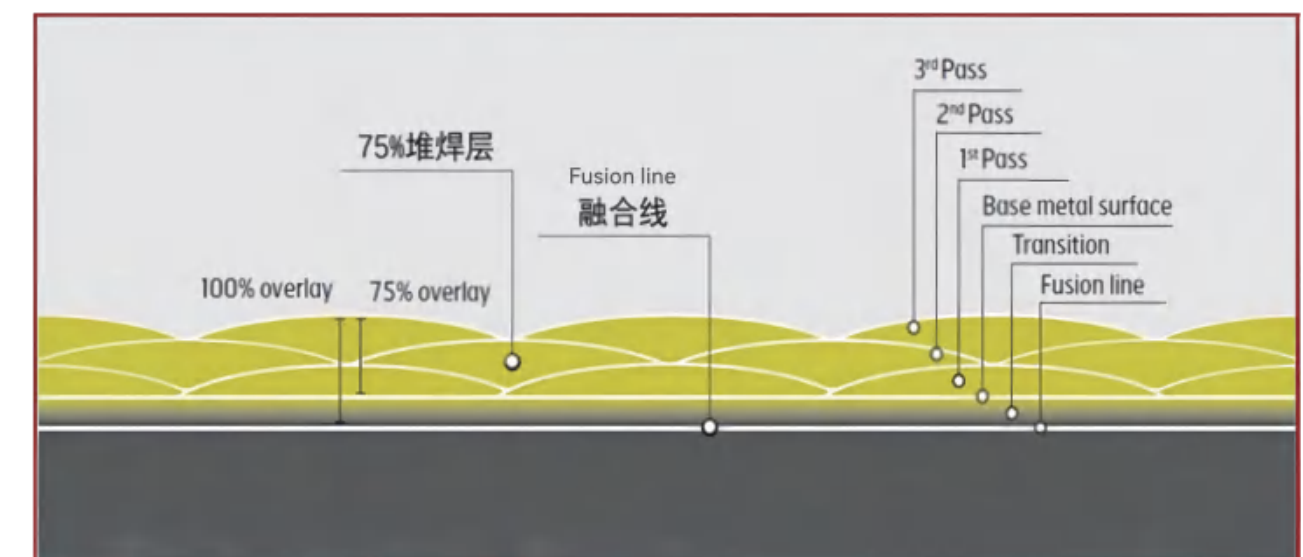
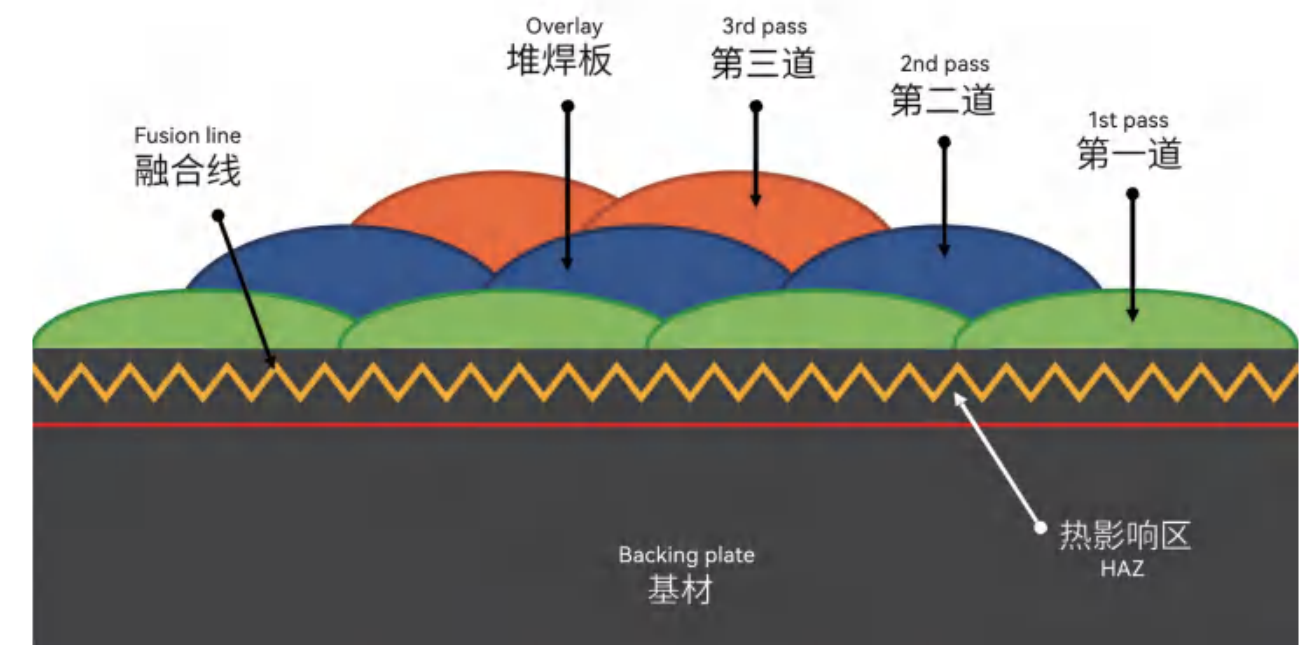
Welding Processes

1、从表面到深度75%的耐磨性保持一致。

The wear resistance remains consistent from the surface to 75% of the depth.

2、25%与基材融合，硬度有所降低，可以保证良好的结合强度。

25% is fused with the substrate, resulting in a decrease in hardness. This ensures excellent bonding strength.



ARTEMIK 技术对比

Technical Comparisons

显微镜下如图所示，显微结构为奥氏体基材镶嵌许多细小碳化铬而成，奥氏体并不耐磨但碳化铬(Cr7C3)硬度可高达HV690~775，故产生非常好的耐性能。

As shown under the microscope, the microstructure consists of an austenitic matrix embedded with plenty of fine chromium carbides. The hardness of chromium carbide (Cr7C3) can reach HV690~775 to produce excellent wear resistance.



不同耐磨材料性价比分析表
Wear Resistance by Different Materials

性价比 Material Grade	普通钢板 Q235 Mild Steel Q235	锰板16 锰 Mn Steel 16Mn	耐磨钢板 HARDOX400 AR Steel HARDOX 400	普通复合钢板 CCO Plate	阿特米克复合钢板 Artemik Plate
材质/工艺 Mfg. Process	普通轧制钢板 Hot-rolled	轧制高锰板 Hot-rolled	热处理钢板 Quenched and Tempered	普通堆焊板 CrC Cladding	堆焊补偿智能控制 Precisely-controlled Cladding
特性 Feature	N/A	冲击硬化 Work-hardened	整板硬化 Thru-hardened	铬含量小于20 Cr < 20% CrC < 30%	铬含量大于26 CrC > 50% Cr > 26 CrC > 50%
对比厚度 Starting THK /MM	12	12	12	6+6	6+6
耐磨耗度测试 Abrasion Test	1	1	1.3	5	14.8
换算普通钢板厚度 Carbon Steel Equivalent THK/MM	12	12	15.6	36	94.8
预期耐磨寿命 Service Life Factor	1	1	1.3	3	7.9
不含税单位成本 Cost (RMB/Ton)	4000	4500	16000	11000	12000

本表引用“耐磨耗度”数据是依据 ASTMG65 干砂试验实验而得
The above abrasion resistance data are obtained by the ASTM G65 dry sand rubber wheel test.

本公司生产的ARTEMIK-PLATE系列耐磨板，是以本公司自行研发之第五代制程全计算机自动生产而成。在制程中自动充填稀释补偿及晶粒细化处理，所以耐磨耗特性依ASTMG65试验约为普通钢板的14.8倍。有别于国内大多厂家第一代传统制程生产的复合板(约~4~6 倍)。硬面层硬度分布情况图示如下：

The ARTEMIK-PLATE is manufactured by our self-developed, the fifth-generation welding process, fully automated with the help of PLC. Automatic dilution compensation and grain refinement treatment are used to promote wear resistance by approx. 14.8 times that of mild steel as per ASTM G65 test, which outperforms other commercial CCO plates by approx. 4 to 6 times.

阿特米克耐磨 ARTEMIK-PLATE	
材料密度：≥7.8g/cm3 Density	材料熔点：≥1000℃ Melting point
弹性模量：≥380GPa Elastic Modulus	热导率：≥18.85W/(m.K) Thermal conductivity
热膨胀系数：≥7.2E-6m/K Thermal expansion	相对磨损量：≤0.051G(JB/T 7705) Relative wear volume
冲击韧性：≥6 (J/cm2) Impact toughness	高温硬度：600℃时超过高速钢的常温硬度1000℃以上超过碳钢的常温硬度 Special C-Cr-Mo-Nb-V-W-Fe carbides withstand high temperature not exceeding 750℃



参考标准：金属洛氏硬度试验国家标准GB/T230.2-2002 BSEN10109-2 欧洲标准 ASTME18 美国标准
Reference: GB/T230.2-2002 BS EN10109-2 ASTM E 18

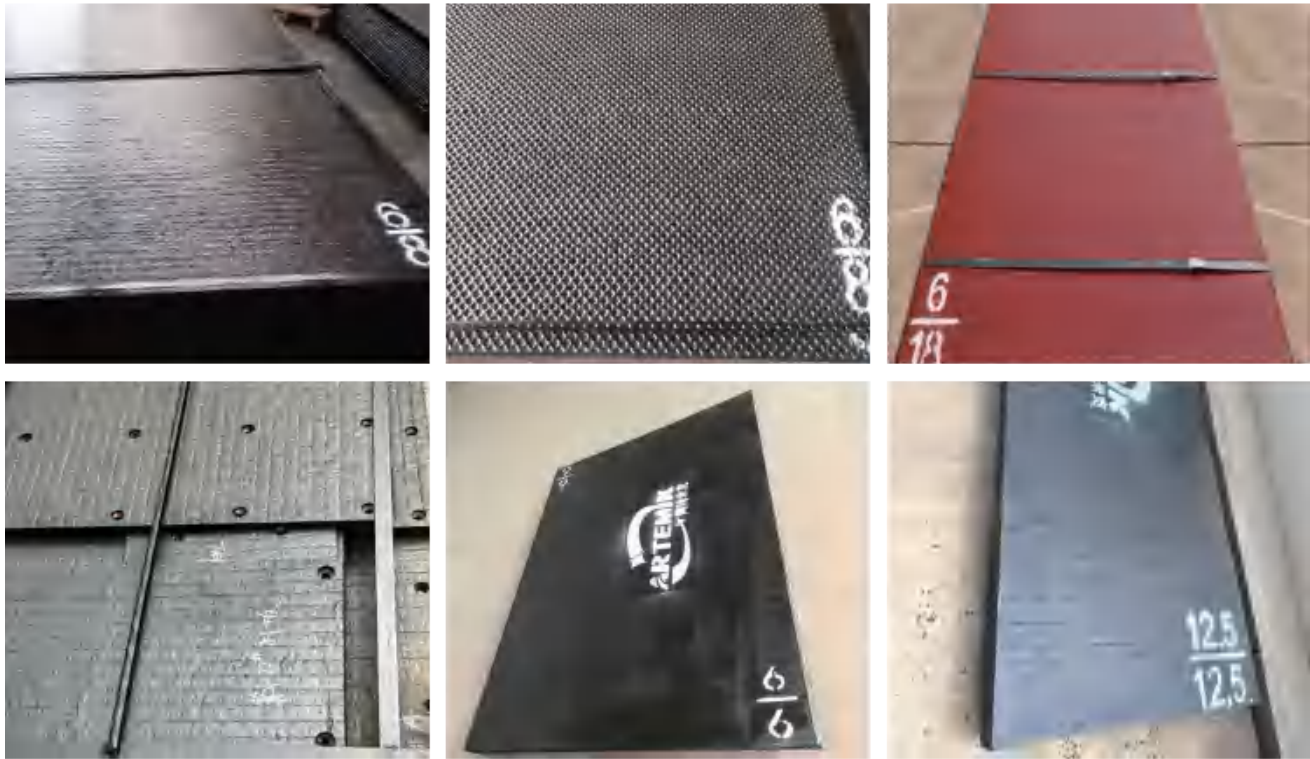
ARTEMIK 堆焊耐磨板性能和优势

WEAR PLATE - Features & Advantages

可供货尺寸

Plate sizes available

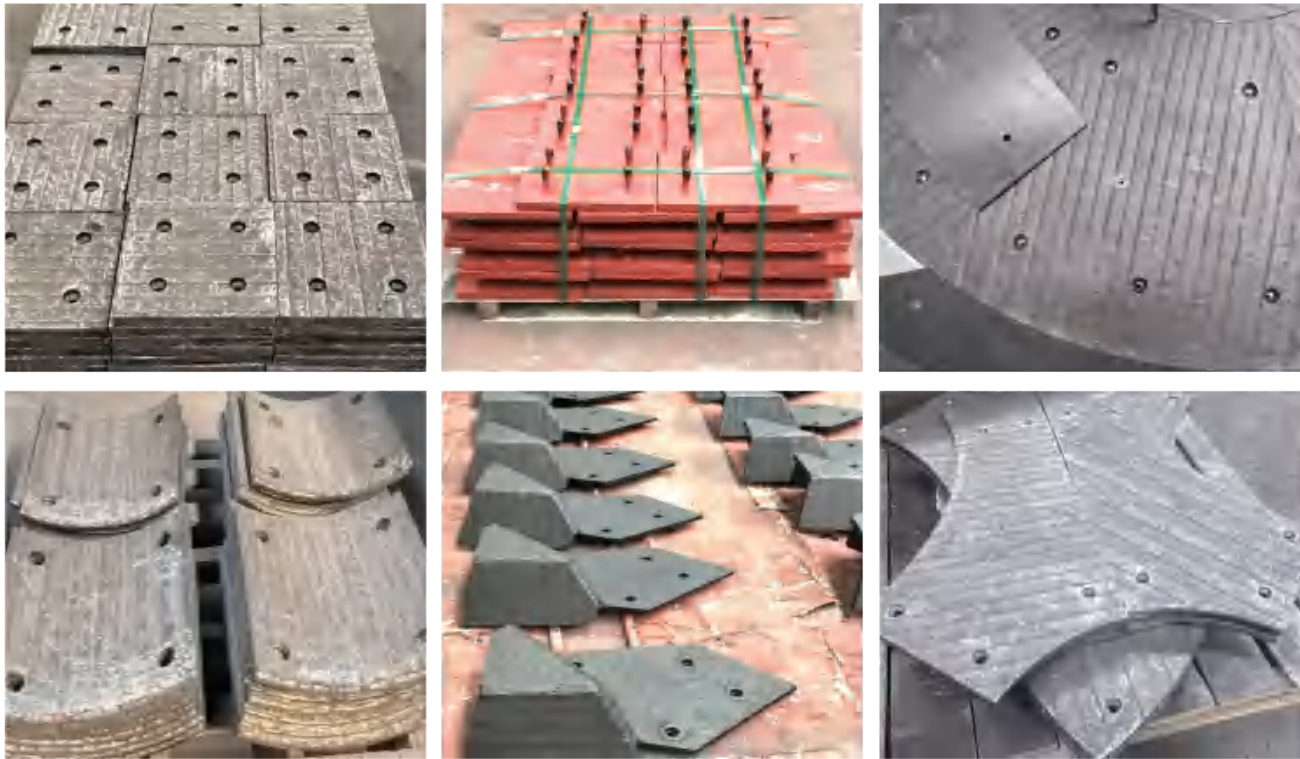
常用规格尺寸标准 Standard sizes in stock		
长*宽 (mm) Length * Width	厚度 (基材+硬面层) mm thickness (base material+Hard surface layer)	焊 道 Weld Bead Pattern
1400*3400	3+3 5+3 4+4 6+5 8+5 6+6 8+6 8+8 10+10 12+12 12+20 12+25	网格型 Grid
1500*3000		W 型 Wave
2200*3000		横竖条纹型 Straight
可以根据客户需求生产特殊板面尺寸的耐磨板 Custom-made sizes and thickness are available upon request		



ARTEMIK 堆焊耐磨板加工件

WEAR PLATE - Features & Advantages

- 具有普通碳钢20倍，高锰钢8倍，合金钢6倍，调制耐磨钢5倍以上的耐磨性。
Has 20 times the wear resistance of carbon steel, 8 times of high Manganese steel, 6 times of alloy steel and 5 times of AR steel.
- 基材具有良好的延展性而耐磨层具有良好的抗冲击性。
Backing plate shows good ductility and anti-wear overlay provides excellent impact resistance.
- 可以用等离子切割，用卷板机卷制成各种形状，具有良好的加工性和可焊性。
Can be cut by plasma, laser and water jet. Rolled & Formed with overlay both inside and outside.
- 耐磨板易与其他部件连接，可通过螺柱，沉孔，通孔，塞焊等方式。
Easy installation by perimeter weld, plug weld, stud bolts and countersunk inserts.



ARTEMIK 无裂纹熔覆耐磨板

Crack-free abrasion-resistant plate

在Q345B中碳钢板上一次性铺敷一定厚度(厚度由客户实际需求决定)含有大量高铬铁粉及碳、钼、锰、钨、铌、硼等各类硬质颗粒的耐磨合金高温熔渗而成，属冶金式结合。

A wear-resistant fused alloy composite plate with a smooth, chromium carbide rich overlay manufactured by a specially-designed production process enhancing abrasion resistance and reducing material hang up, especially when added in Tungsten, Niobium, Molybdenum, etc.

产品规格

Product Specification

标准板尺寸(mm) Standard Plate Sizes (mm)	1000*3000	1200*3000
堆焊层厚度(mm) Overlay Thickness (mm)	4-25	
基板厚度(mm) Base Plate Thickness (mm)	6-25	
可根据客户需求定制 Custom-made plates are available upon request.		

化学成份(耐磨层) wt%

Chemical Composition (Overlay)

C	Cr	Cr7C3体积分数	Ni、Mo、Nb、V、W等
3.0-5.1	28-40	35-50	Ni、Mo、Nb、V、W等 As per request by clients
含量因板材厚度而异 Alloy content varies per plate thickness.			



耐磨性 Abrasion Resistance

ARTEMIK耐磨层通过磨耗实验，耐磨性是AR400/500的2.5倍，是Q345B的28-30倍，是铸钢耐磨板及国内堆焊板的3-3.5倍。

The in-house lab abrasion tests show its abrasion resistance outperforms AR plate by 2.5 times and wear-resistant castings by 3 times.

表面硬度和工况温度 Hardness & Service Temp.

耐磨层硬度的宏观范围为55-66HRC，公司可根据客户需求产品耐磨层最高硬度可达HRC68，耐磨层使用温度550-1200° C正常使用。

Bulk hardness 55 – 65 HRC and service temperature from 350°C up to 1200°C.

表面平整度及误差 Flatness & Tolerances

表面光滑平整，500mm≤耐磨板长度<10000mm,平整误差±1mm，厚度误差+0.5mm.

Flatness ± 1mm / 1.5m plate length Thickness ± 0.5mm



冲击磨损性能
ABRASION RESISTANCE UNDER IMPACT

01

实验材料:

EXPERIMENTAL MATERIALS:

ARTEMIK-B.AR400.AR500.美国信铬钢SA1750CR，对磨冲击材料为轴承钢GCr15

ARTEMIK-B.AR400.AR500. American Xin Chromium Steel SA1750CR uses bearing steel GCr15 as the impact material for grinding

02

试验设备:

Experimental equipment:

M-200型多功能摩擦磨损试验机

M-200 Multi functional Friction and Wear Testing Machine

03

试验参数:

TEST PARAMETERS:

上试样的转速为180转/分钟，下试样的转速为200转/分钟，冲击频率230次/分钟，冲击载荷200N，冲击接触力为40Mpa。介质:标准石英砂，粒度:100-150目，石英砂流速1.5-2kg/h，试样周期9万转。

The rotational speed of the upper sample is 180 revolutions per minute, the rotational speed of the lower sample is 200 revolutions per minute, the impact frequency is 230 times per minute, the impact load is 200N, and the impact contact force is 40Mpa. Medium: Standard quartz sand, particle size: 100-150 mesh, quartz sand flow rate: 1.5-2kg/h, sample period: 90000 revolutions.

04

试验结果:

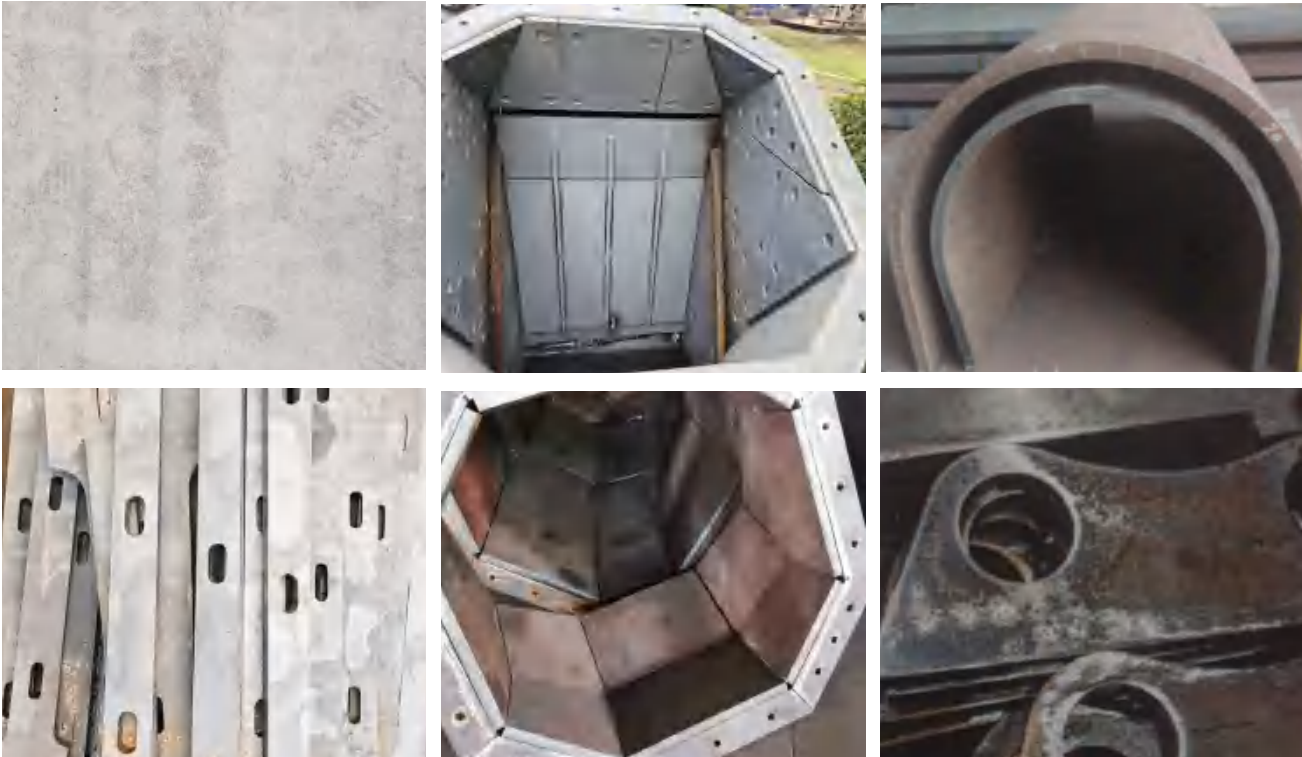
EXPERIMENTAL RESULTS:

如表中所示，ARTEMIK-B冲击耐磨性能与美国信铬钢相当，较AR400,AR500提高约80%左右。

As shown in the table, the impact wear resistance of ARTEMIK-B is comparable to that of American chromium steel, and is better than AR400,AR500 has increased by about 80%.

样品编号 Test Sample Number	材料 Material	磨损失重 (mg) Weight loss (mg)	体积磨损率(10 ⁻⁶ mm ³ /Nm) Volume loss(10 ⁻⁶ mm ³ /Nm)
1	ARTEMIK-B	109.25	5.34
2	SA1750CR - CCO	108.97	5.32
3	Mn-13 - Casting	215.25	9.67
4	AR 400	210.38	9.41
5	AR 500	192.61	8.72

*The test were carried out in our own in-house lab.



ARTEMIK 耐磨抓斗、铲斗性能和优势

Grab Bucket - Features & Advantages

- 

耐磨抓斗铲斗耐磨层不脱落、耐冲击，增加单斗连续作业时间，提高生产效率。
Improves your productivity with spalling-free and impact-resistant weld overlay buckets.
- 

应用范围广，遍及矿山、港口、冶金、火力发电、钢铁及垃圾处理等散货物料储运等。
Wide range of applications, incl. mining, port, metallurgy, thermal power plant, iron and steel works, re-cycling and various bulk material handling industries.
- 

减少停机时间和设备维护，实现了抓斗寿命最大化。
Reduces downtime and maintenance for maximizing service life.
- 

更换方便，可以根据不同的工况及尺寸要求进行切割，安装成型。
Cut-to-size wear plates for easy replacement on site.



ARTEMIK 耐磨斗齿性能和优势

Bucket Teeth - Features & Advantages

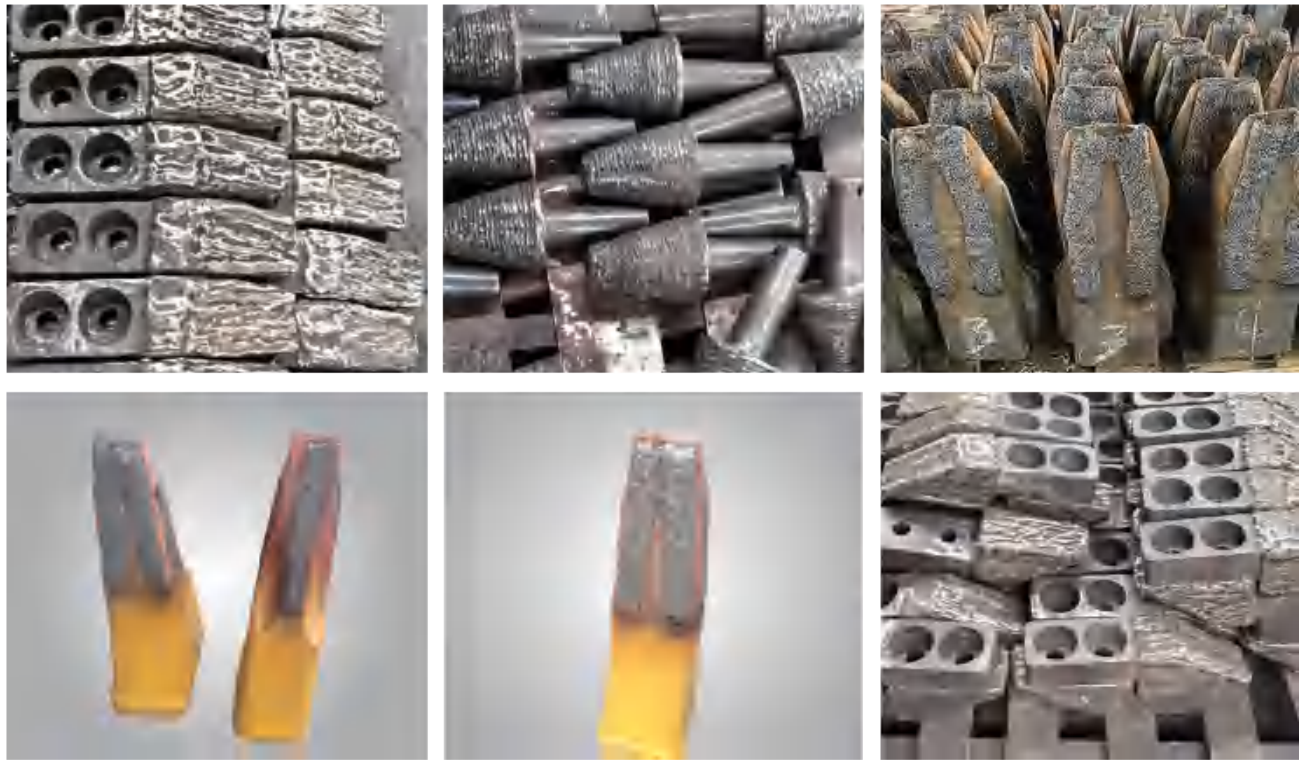
- 

采用先进的堆焊工艺和熔覆工艺，在各种型号、尺寸、材质的斗齿表面堆焊或熔覆一层或者多层耐磨合金层。
Uses advanced surfacing welding technology and cladding process, one or multiple layers of wear-resistant alloys are welded onto the surface of bucket teeth of various types, sizes and materials.
- 

延长使用寿命，减少斗齿更换的频率，提高工作效率。
Extends the service life by reducing the frequency of bucket teeth replacement, improving your productivity.

增强设备稳定性，降低运营成本。
Enhances equipment stability and reduces operating costs.
- 

可根据不同工况选择不同耐磨工艺，堆焊耐磨斗齿耐磨损，碳化钨耐冲击。
Various materials and processes available per different working conditions. Hardfacing bucket teeth, tungsten carbide for ultimate impact resistance.



ARTEMIK NM400/500耐磨板加工

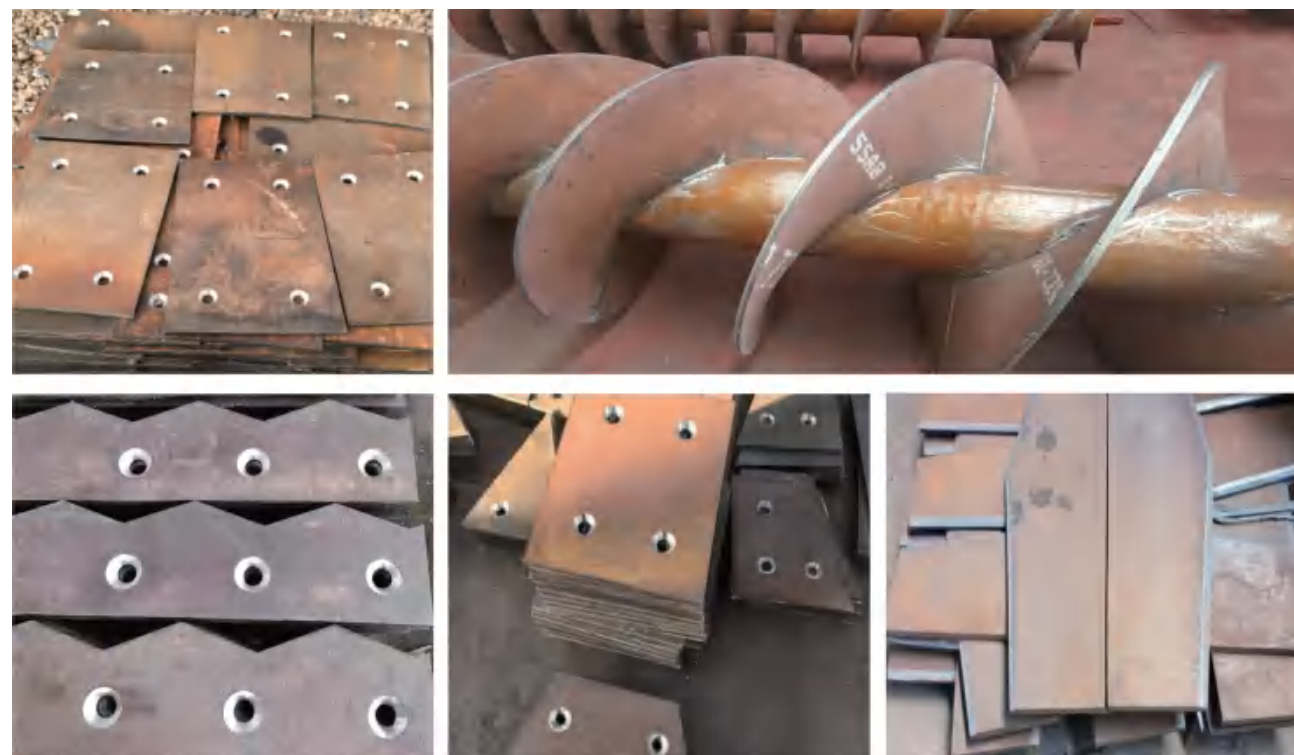
AR400/500 Wear-resistant Plate Fabrication

零割下料加工，采用精密等离子或激光切割下料。焊接各种耐磨件，专业作业人员进行产品加工。

Uses precision plasma or laser for cutting blank plates. Welding various kinds of wear-resistant parts and components by a well-experienced team.

支持产品定制服务，拥有专业技术团队进行图纸分析。

Custom-made products are available as per client's drawings and specification.



ARTEMIK 中部槽堆焊性能和优势

Scraper Conveyor Trough - Features & Advantages

由于堆焊合金层的存在，变刮板、链条与中部槽的直接接触磨损为刮板、链条与熔覆层的磨损，保护了中部槽，延长了中部槽的使用寿命。

Prevents direct contact between scraper and trough by depositing abrasion-resistant materials on the working surface, protecting trough from abrasion and extending its service life.

采用夹具定位，使得工件之间保持了良好的对齐和稳定性，从而确保了焊接过程中产生精确且均匀分布的热量，避免因传统焊接方式引起的变形问题。

Maintains good alignment between each section and avoids heat-input deformation by employing special fixture during hardfacing process.

堆焊层摩擦系数低，运行阻力减少，节省了电力消耗，延长使用寿命。

Reduces electric power consumption thanks to the low friction coefficient of weld overlay.

可以根据需要选用合适堆焊材料，并且可以按要求定制厚度。

Custom-made overlay material and thickness are available upon request.



ARTEMIK 耐磨管道性能和优势

Wear Pipes & Fittings - Features & Advantages

耐磨层具有良好的冶金结合性及优秀的抗冲刷能力，不易脱落掉块。

Metallurgical bonding provides excellent resistance to spalling and erosion caused during conveying slurry and fine particles.

基材管在线自动堆焊，焊接成型好，焊接后表面平整。

Automated welding process ensures uniform weld profiles and weld beads.

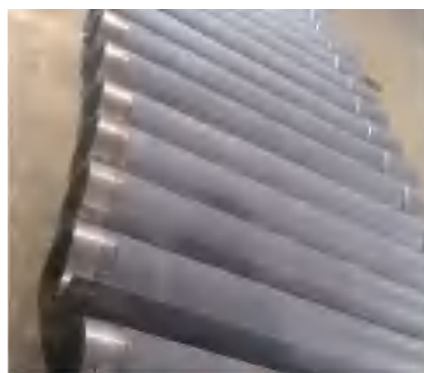


全自动堆焊，冶金结合，堆焊最小管道直径80mm,最大管长度6000mm。

Min. Diameter 80mm and max length up to 6000mm.

加工方便，可制成虾米节形式的耐磨弯头，天圆地方及溜槽。

Various fabricated products, incl. Mitre bend, square-to-round transition and chutes, etc.



ARTEMIK 耐磨陶瓷性能和优势

Wear-resistant Ceramics - Features & Advantages

有良好的耐腐蚀性，有效抵御腐蚀性介质的侵蚀，保证设备的正常运行。

Has good corrosion resistance, effectively withstand the erosion of corrosive media, and ensures the continuous operation of your equipment.

具有较高的熔点和良好的热稳定性，不易变形和损坏。

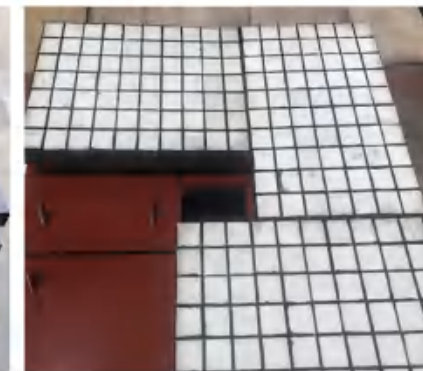
Has a higher melting point and good thermal stability, not easy to deform or damage.

表面光滑，不易粘料，适用于湿料、粉末颗粒等物料输送。

Smooth surface to minimize buildup of sticky materials, suitable for conveying wet materials, powder and other particle-sized materials.

可以通过粘贴、镶嵌等方式安装，可以节省时间和成本。

Can be installed by pasting, embedding, etc., saving your time and cost.



ARTEMIK 耐磨焊丝性能和优势

Wear-resistant welding wire - Features & Advantages

	焊接飞溅小，烟尘小，焊接后不用清渣。 Fewer spatters, slag-free and less welding fume.
	焊接后板面平整，简化焊接工艺，节省焊接辅料，焊接效率高，焊丝熔敷率90%以上。 Uniform and even overlay surface, user-friendly welding process, saving your welding materials and improving welding productivity. Recovery up to 90%.
	应用范围广，能够满足多种不同的工况，可以应用单层、双层及多层堆焊。 Suitable for Single-pass, double-pass and multi-pass welding per your demand.
	基材与耐磨层为冶金结合，焊接后无脱落，焊接后应力释放均匀。 Metallurgical bonding between backing plate and overlay, preventing spalling and breaking. Overlay shows stress-relief cracks.



ARTEMIK 堆焊修复

Hardface Repairing

- 适应性广泛，可根据不同的形状和工况选择不同的修复方式。

Custom-made solutions for different shapes and working conditions.
- 堆焊修复过的零部件，比原零件还要耐磨、耐腐蚀耐冲击，不易磨损，大幅度延长使用寿命，减少更换频率。

Longer service life after repairing than original parts and bring down your overall cost.
- 堆焊修复成本低于购买新零件，大大节约维修维护成本。

Lower maintenance cost by repairing than purchasing new parts.



ARTEMIK 高分子聚乙烯托辊性能优势

UHMWPE Conveyor Roller - Features & Advantages

高分子聚乙烯材料密度比金属小，所以托辊重量轻，便于安装和维护，也能减轻皮带的负荷，延长皮带使用寿命。

UHMWPE conveyor roller are lighter in weight than metallic ones, making them easier to install and replace, reducing the loads on the belt and extending the belt service life.

具有较好的韧性和抗冲击性，能承受物料的冲击和振动，不易破裂或损坏。

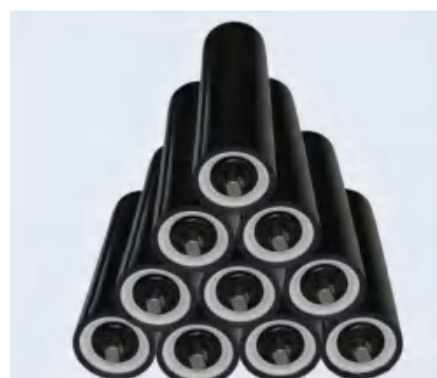
绝缘性好，避免托辊产生静电，减少安全隐患，运行时噪音小，降低噪声污染。

Has good toughness and impact resistance, withstanding impacts and vibrations and not easy to break or damage.

Has good insulation to prevent static electricity on the roller, reducing safety risks and lowering noise level during operation.

具有优异的耐磨性，对酸、碱、盐等化学物质有良好的耐受性，不易生锈和腐蚀，减少更换托辊的频率，降低维修成本和停机时间。

Has excellent wear resistance and good resistance to chemicals such as acids, alkalies, and salts, not easy to be rusted or corroded, reducing the frequency of replacing idlers, and lowering maintenance costs and downtime.

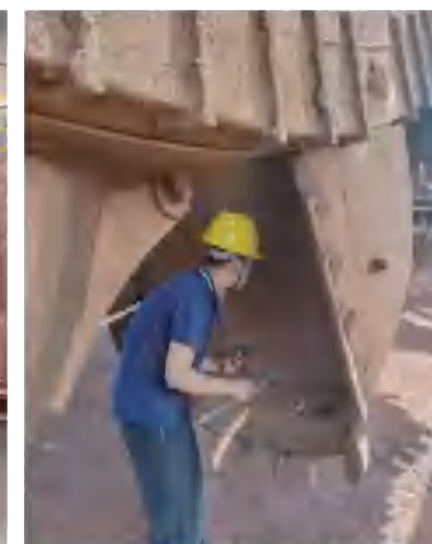


ARTEMIK 加工件现场安装

On-site Installation

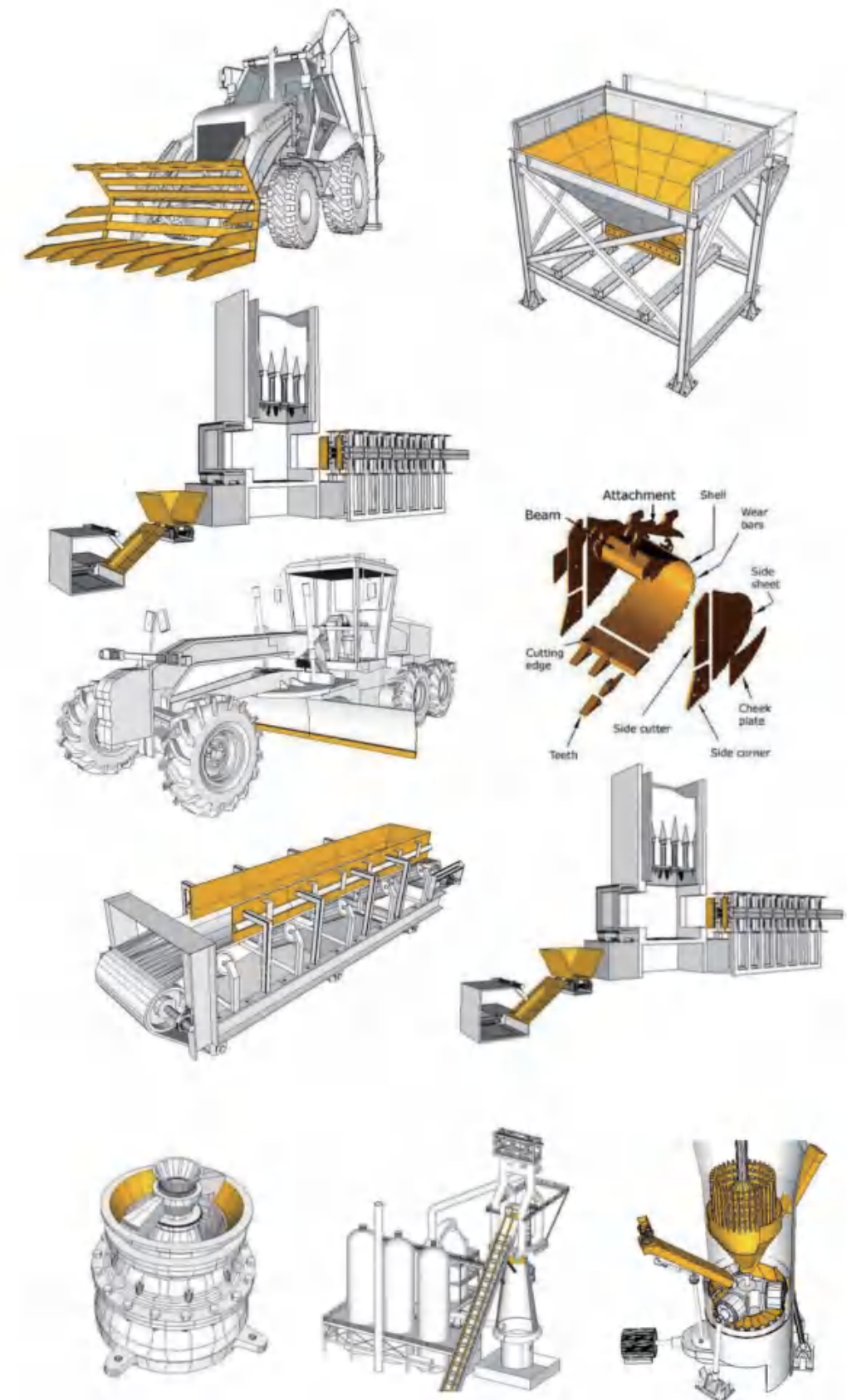
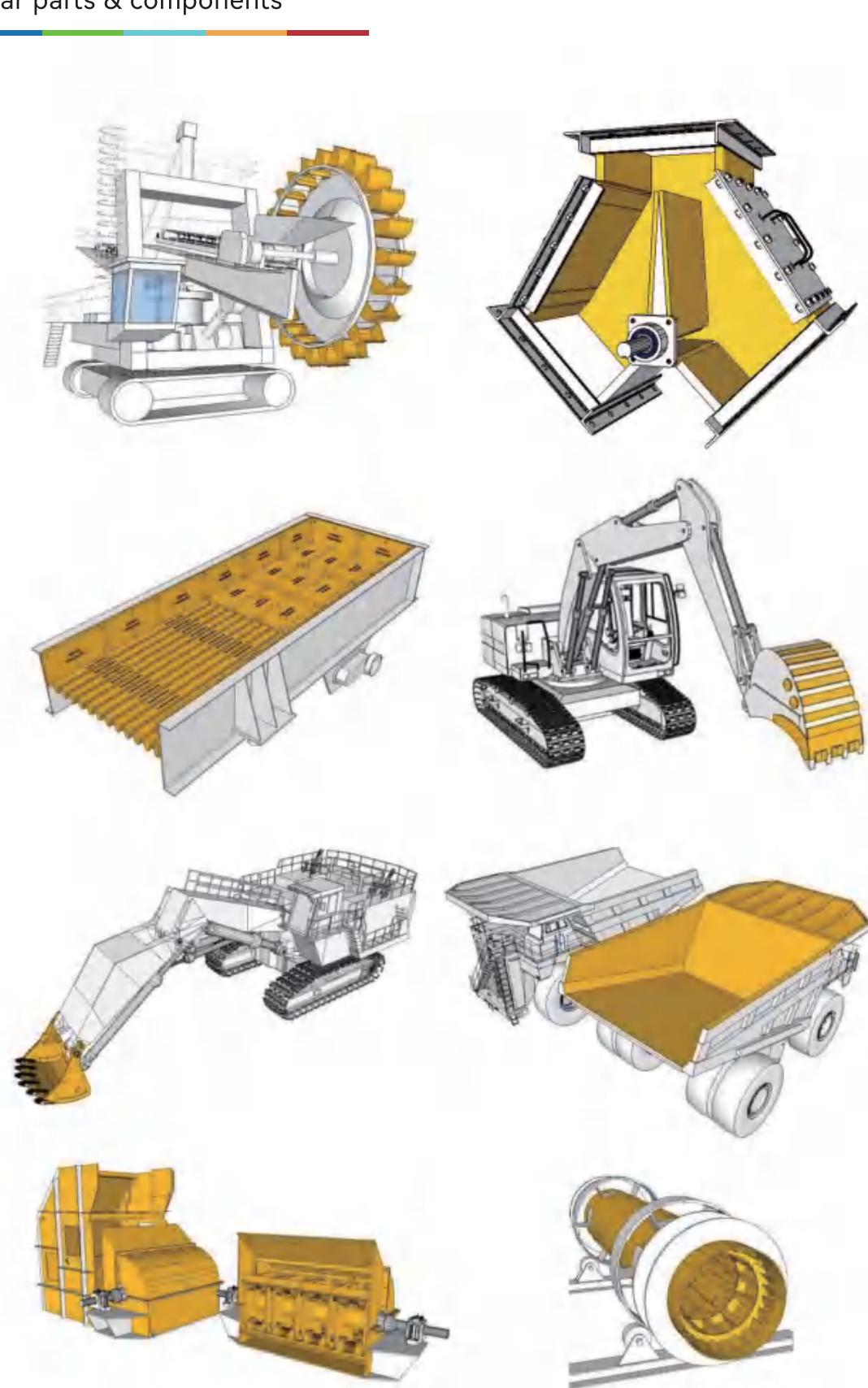
优质的技术团队，提供现场测量、现场施工、售后维修等服务

Professional technical team with engineering services.



ARTEMIK 部分示意图

Wear parts & components

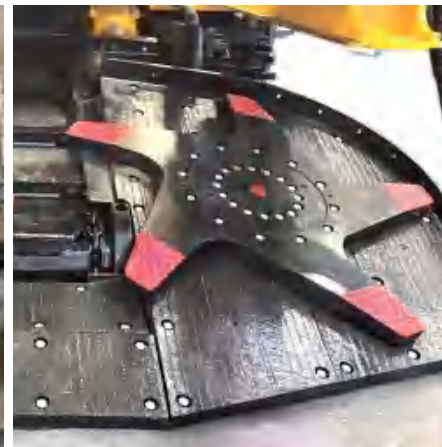


ARTEMIK 耐磨加工件展示

Gallery - Fabrication & Application



耐磨格栅
Wear-resistant Grille



掘进机铲板
Roadheader Shovel



耐磨衬板
Plate Wear-resistant Lining Plate



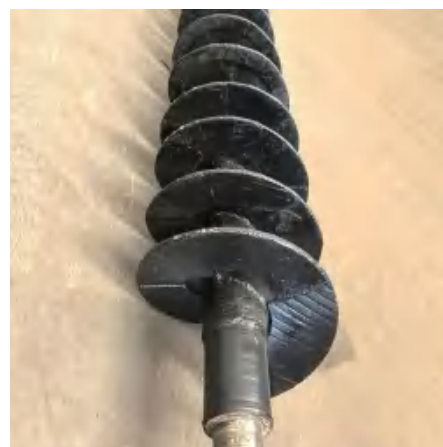
斗轮机
Bucket Wheel Excavator



耐磨护套
Wear-resistant Cover



叶轮
Impeller



螺旋铰刀
Screw Auger Flight



盾构机耐磨板
Tunnel Boring Machine



耐磨衬板
Wear-resistant Lining Plate



掘进机
Tunnel Boring Machine



耐磨弯头
Wear-resisting Bend



旋风回收器
Cyclone



耐磨格栅
Wear-resistant Grate



光面板
Polished-surface Wear Plate



耐磨叶片
Classifier Blade



耐磨壳体
Wear-resistant Casing



旋风回收器
Cyclone