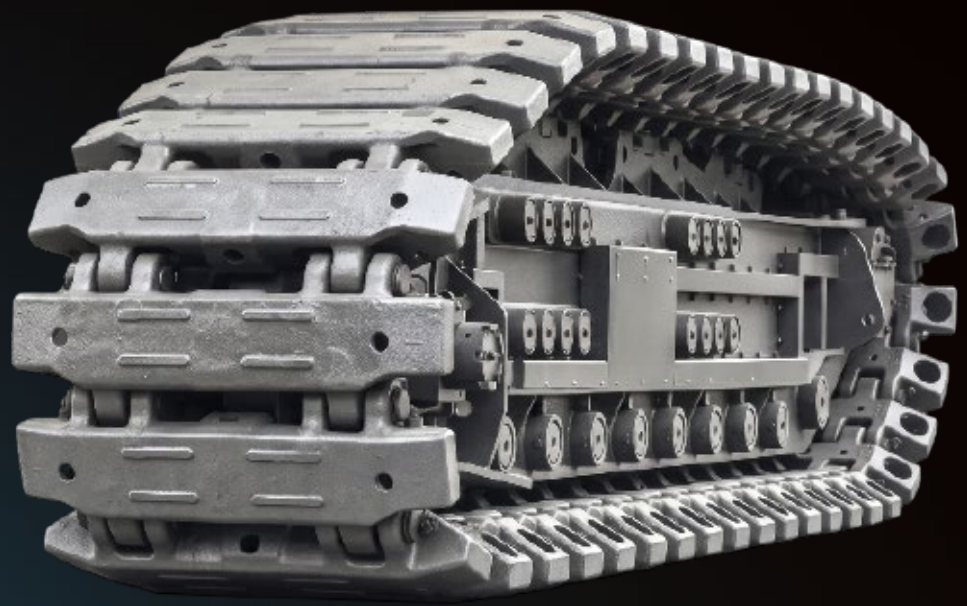
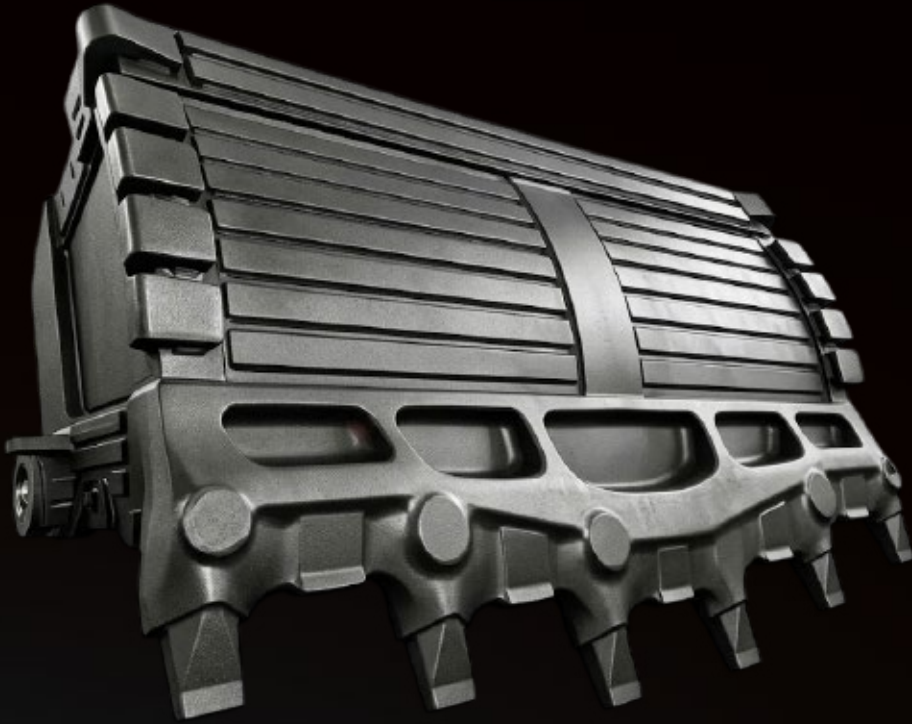




Strength Behind Mining

GLOBAL MINING PARTS MANUFACTURER

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Precision that
Powers Progress



Global Network Partner

Overview 公司概况

STRUMEX 全球化高强度矿山设备结构件制造商，成立于 2007 年，总部位于中国上海。

凭借深厚的冶金工程、精密铸造和数控加工专业积累，STRUMEX 向全球六大洲的矿山运营商提供世界级底盘件、挖掘机工作装置（GET）及结构铸件。

STRUMEX is a global manufacturer of high-strength structural components for mining equipment, founded in 2007 and headquartered in Shanghai, China.

With deep expertise in metallurgical engineering, precision casting, and CNC machining, STRUMEX delivers world-class undercarriage systems, ground engaging tools (GET), and structural castings to mining operations across 6 continents.

20+

年以上生产经验
Years of Manufacturing Excellence

6

大洲服务网络
Serving Across Continents

3

大露天矿山机械零件
Expertise in Open-Pit Mining Parts

5

大核心生产工艺
Core Manufacturing Processes

To be the manufacturer of mining structural components — chosen for ***Precision, Durability, and relentless Innovation.***

成为全球最受信赖的矿山结构件制造商——
以精准、耐久与持续创新赢得选择。





Mission

To deliver ***high-performance*** components — built with precision, engineered to endure in the most extreme environments.

为矿山运营提供高性能零件，
推动行业持续发展——
每一个零件均以精密工艺制造，
专为地球上的恶劣工况而设计。

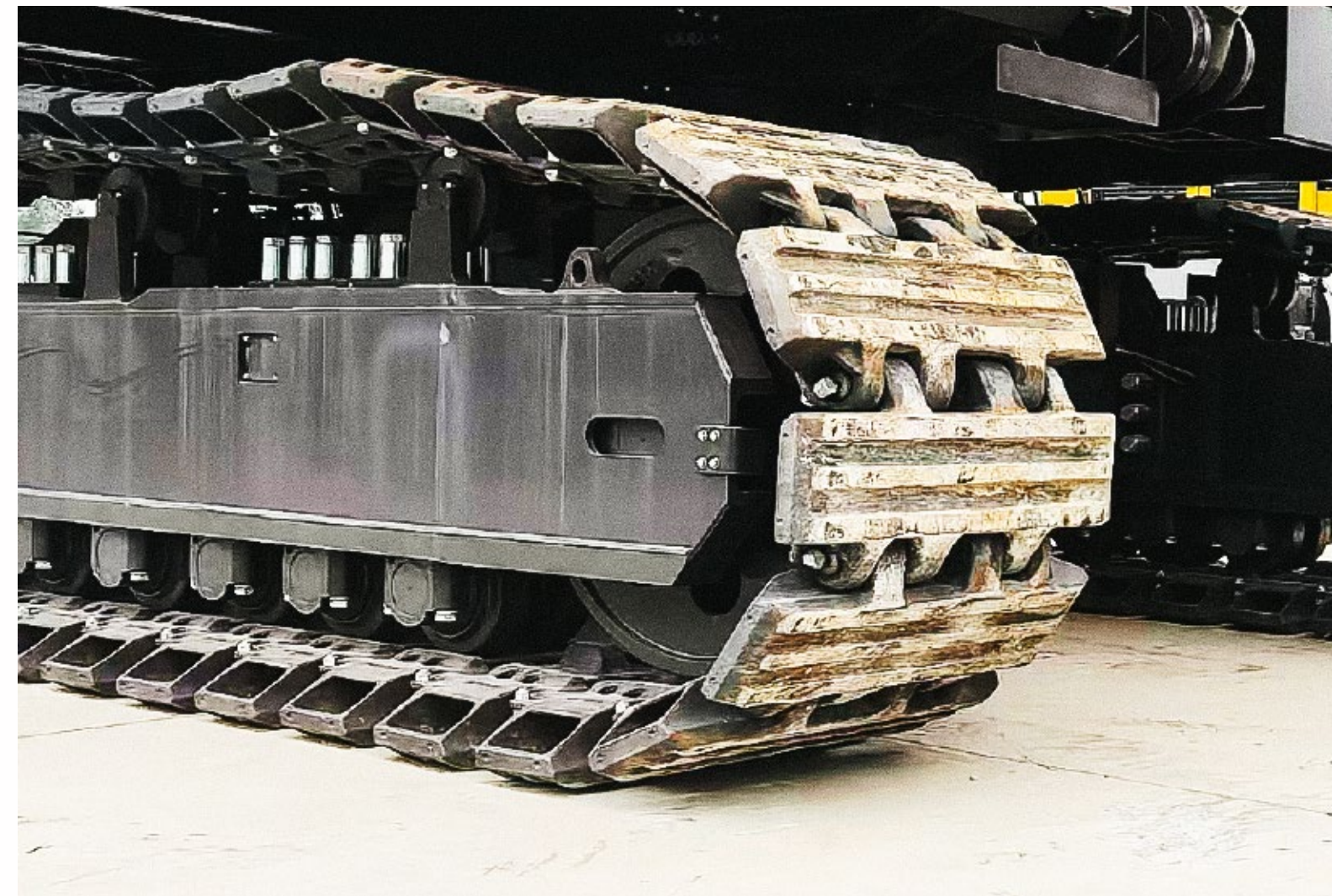
Engineered for Excellence ***Built for Trust***



Reliability

始终如一的长效性能，保障 24/7 全天候运营不间断。

Consistent long-life performance to keep operations running 24/7.



Strength

高等级合金钢，专为在严苛环境下运行而设计。

High-grade alloy steel, engineered to perform where others fail.



Precision

高水平精准，每件产品均能完美直接安装。

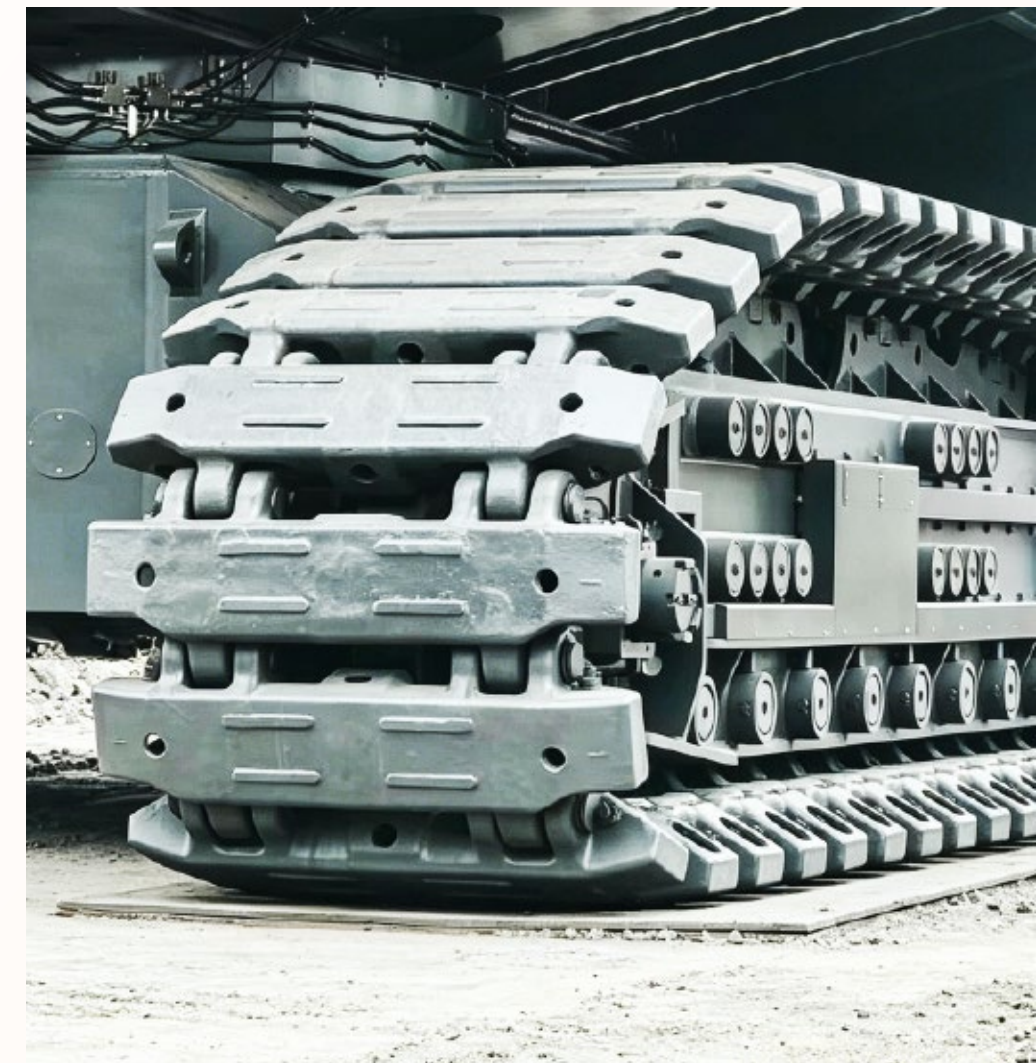
OEM-level dimensional tolerances, drop-in fitment on every part.



Innovation

在材料科学与制造工艺领域持续进行研发。

Continuous R&D in materials science and manufacturing processes.



Partnership

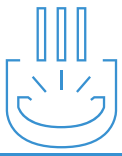
与全球矿业运营商建立长期合作伙伴关系。

Long-term relationships with mining operators worldwide.

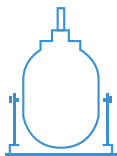
Manufacturing Processes 生产工艺

STRUMEX 拥有一体化制造工厂，集先进电弧炉炼钢、AOD 精炼、热处理、数控加工与总装于一体。每个环节均在 ISO 9001 、ISO14001, ISO45001 质量管理体系下严格管控，确保尺寸精度、材料可追溯性及稳定的力学性能。

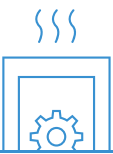
STRUMEX operates an integrated manufacturing facility combining advanced electric arc furnace steelmaking, AOD refining, heat treatment, CNC machining, and final assembly. Every step is controlled under ISO 9001, ISO14001, ISO45001 quality management to ensure dimensional accuracy, material traceability, and consistent mechanical performance.



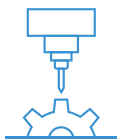
电弧炉
Electric Arc Furnace



精炼炉
AOD Refining Furnace



热处理
Heat Treatment



数控加工
CNC Machining



装配
Assembly

Electric Arc Furnace



电弧炉是 STRUMEX 炼钢工序的核心。废钢与合金料在高压电弧的作用下熔化，生产出化学成分精确可控的钢液。电弧炉工艺具有加热快速、批量灵活的特点，特别适合生产矿山耐磨件所需的高锰钢、铬钼合金钢等特种钢液。

The Electric Arc Furnace is the heart of STRUMEX's steelmaking operation. Steel scrap and alloy additions are melted by high-voltage electrical arcs, producing molten steel with precisely controlled chemistry. The EAF process enables rapid heat cycles and flexible batch production, making it ideal for high-manganese, chrome-molybdenum, and other specialty alloys used in mining wear parts.

设备	CAPACITY	Up to 30 tonnes per heat
检测	POWER INPUT	High-power UHP electrode system
适用材料	MATERIALS	High-Mn steel, Cr-Mo alloy, carbon steel
主要优势	KEY ADVANTAGE	Rapid melting, flexible alloy control

AOD Refining Furnace



钢液经电弧炉初炼后，转入氩氧精炼炉（AOD）进行二次冶金精炼。通过向炉内吹入氩气与氧气的混合气体，精确降低碳含量，去除硫、磷等有害杂质，实现严格的化学成分规格控制。AOD 精炼可获得超洁净钢液，提升力学性能，是高性能矿山零件的关键保障。

After primary melting in the EAF, molten steel is transferred to the Argon Oxygen Decarburization (AOD) furnace for secondary metallurgical refining. Argon and oxygen are injected to precisely reduce carbon content, remove sulfur and phosphorus impurities, and achieve tight chemical specifications. AOD refining delivers ultra-clean steel with superior mechanical properties, essential for high-performance mining components.



工艺	PROCESS	Removal of C, S, N, O, H, and non-metallic inclusions
品质	QUALITY	S < 0.005% N < 0.002% (20ppm) O < 0.002% (20ppm) H < 0.0001% (1ppm)
主要优势	KEY BENEFIT	High cleanliness, tight chemistry



热处理是实现各零件硬度、韧性与耐磨性的关键工序。STRUMEX 配备专用热处理炉，可进行淬火、回火、固溶处理及感应淬火。

Heat treatment is critical to achieving the target mechanical properties — hardness, toughness, and wear resistance — for each component. STRUMEX operates dedicated heat treatment furnaces capable of quenching, tempering, solution treatment, and induction hardening.



Heat Treatment

CNC Machining

铸造和热处理完成后，关键配合面及尺寸特征在多轴数控加工中心上进行精加工。数控加工确保所有配合尺寸——安装孔、销孔、密封面及斗齿座——均满足 OEM 图纸规格，保证现场免修直接安装。

After casting and heat treatment, critical mating surfaces and dimensional features are finished on multi-axis CNC machining centers. CNC machining ensures that all interface dimensions – mounting bores, pin holes, sealing surfaces, and tooth adapter seats – meet OEM drawing specifications to guarantee drop-in fitment without field modification.



设备	EQUIPMENT	Multi-axis CNC turning & machining centers
检测	INSPECTION	CMM dimensional verification
加工面	SURFACES	Bores, pins, seats, sealing faces

Assembly

所有零件在受控环境下进行总装，包括密封件安装、销轴压配、扭矩验证及功能尺寸检查。每件成品均附有批次号和材质证明书，实现完整可追溯。出厂检验包括外观、尺寸及硬度检测，符合相应产品标准。

All components undergo final assembly under controlled conditions, including seal installation, pin pressing, torque verification, and functional dimensional checks. Each finished unit is tagged with a batch number and material certificate for full traceability. Pre-delivery inspection includes visual, dimensional, and hardness verification against the relevant product standard or customer drawing.

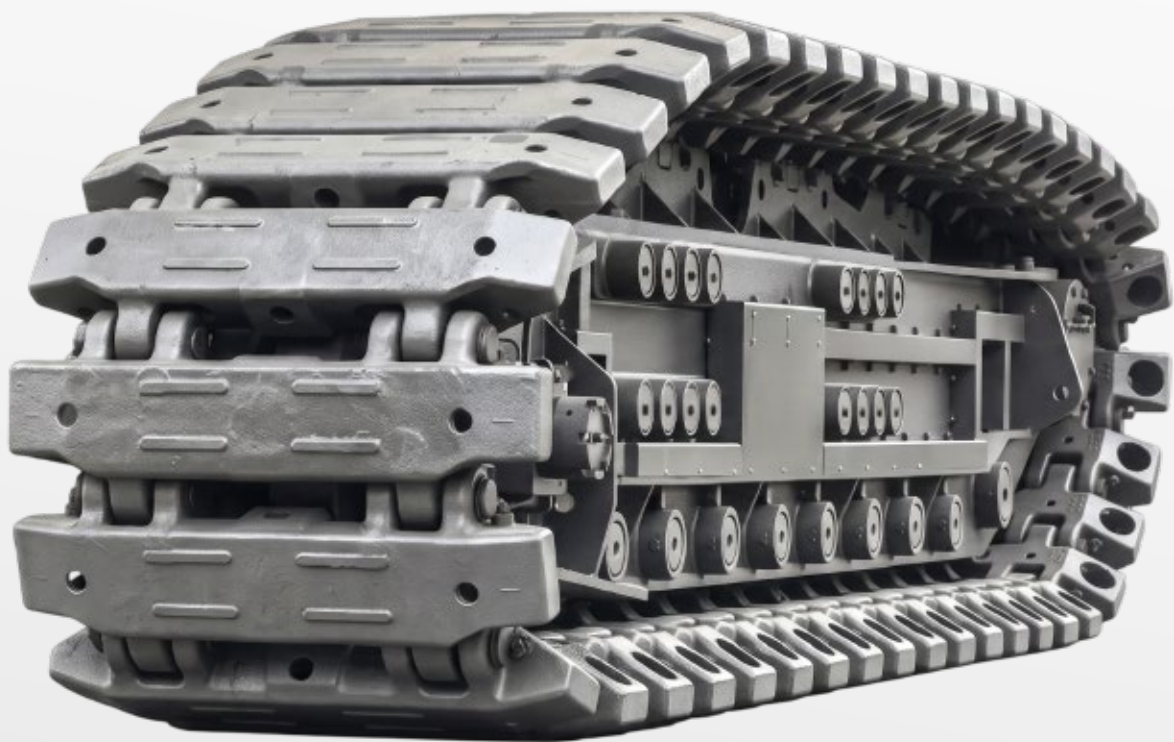


可追溯性	TRACEABILITY	Batch number + material certificate
出厂检验	FINAL INSPECTION	Visual + CMM + hardness
包装	PACKAGING	Export-grade crating & anti-rust

Products 产品目录

STRUMEX 面向全球矿山及工程设备市场，生产四大主要产品系列 (卡特，利勃海尔，小松，日立)。所有产品均提供标准 OEM 等效规格，亦可根据客户图纸或样件定制生产。

STRUMEX Manufactures four primary product lines: Caterpillar, Liebherr, Komatsu, and Hitachi. for the global mining and construction equipment market.



UNDERCARRIAGE 底盘件

Crawler Belt	履带板	22
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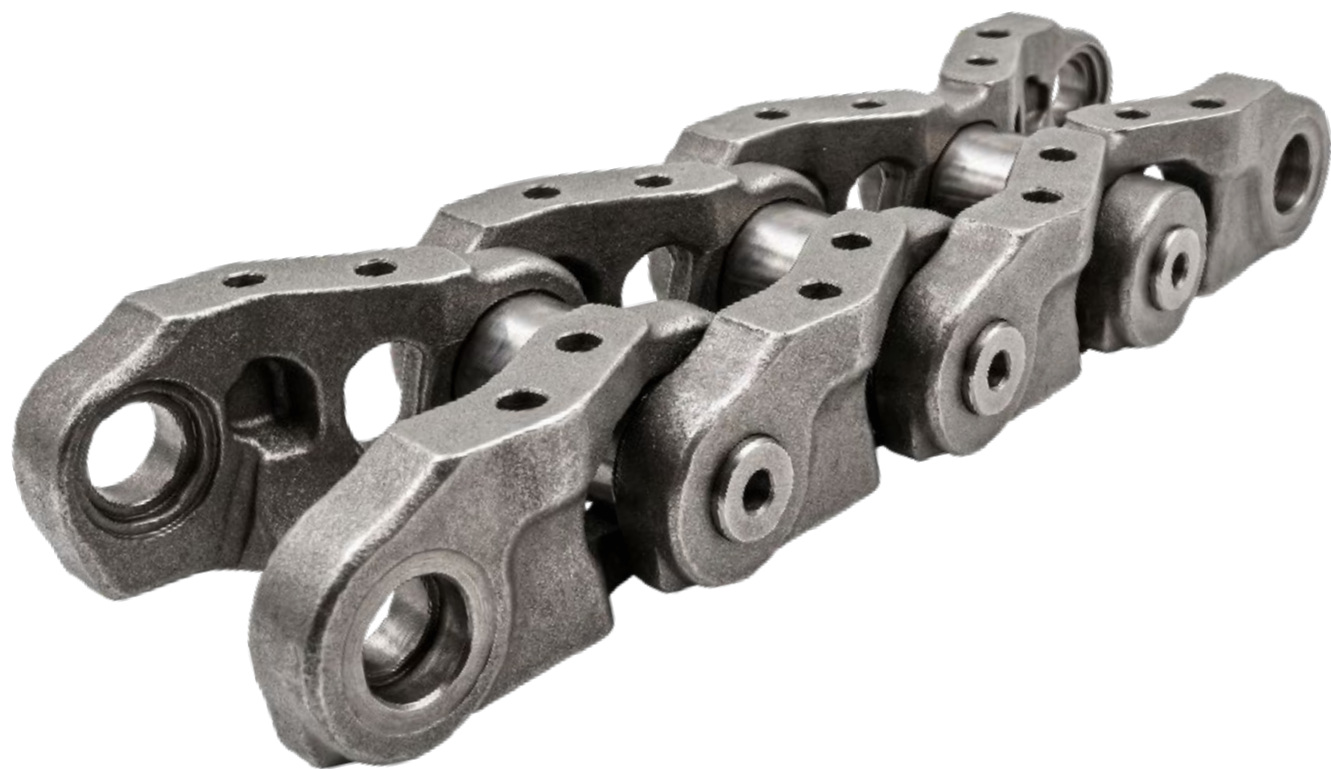


EXCAVATOR GET 挖掘机工作装置

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EXCAVATOR BUCKET 挖斗

Bucket	挖斗	36
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UNDERCARRIAGE 底盘件

CRAWLER BELT 履带板

履带板将牵引力传递至地面，构成支撑并驱动机器行走。
STRUMEX 履带板提供单筋、双筋和三筋型，以及平板型、凸筋型和沼泽型等变型，适应不同地面条件。

Crawler Belt transmit traction force to the ground and form the continuous track chain that supports and propels the machine. STRUMEX track shoes are available in single-bar, double-bar, and triple-bar configurations, in flat, grouser, and swamp pad variants to suit different ground conditions.

材质	MATERIAL	Cr-Mo alloy steel, Q&T treated
韧性	IMPACT VALUE	>34 J KV, - 40°C
表面硬度	SURFACE HARDNESS	48-55 HRC
最小订量	MOQ	Negotiable — contact sales





UNDERCARRIAGE 底盘件

TUMBLER

驱动轮

驱动轮与履带节啮合以驱动机器行走。由于承受高频次冲击与磨损，STRUMEX 驱动轮采用合金钢铸造，齿部接触面经感应淬火处理，保持芯部韧性的同时最大化耐磨性。

The drive tumbler engages with the track links to propel the machine. Subjected to high cyclical impact and wear, STRUMEX drive tumblers are cast from alloy steel and induction-hardened on the tooth contact surfaces to maximize wear resistance while retaining a tough core.



材质	MATERIAL	Alloy steel, induction hardened
齿面硬度	TOOTH HARDNESS	48-55 HRC
轨道面硬度	ROLLER PATH HARDNESS	48-55 HRC
标准	STANDARD	OEM dimensional equivalent

IDLER

引导轮



前引导轮引导履带运行并维持履带张力。STRUMEX 引导轮采用高强度合金钢铸造，经全淬或调质处理，抵抗转弯及复杂地形作业时履带侧向力引起的磨损。

The front idler guides the track and maintains track tension. STRUMEX idlers are cast from High-strength alloy steel and through-hardened or Q&T treated to resist the lateral wear forces imposed by track sideloading during turning and rough terrain operation.

材质	MATERIAL	High-strength alloy steel, Q&T
轨道面硬度	ROLLER PATH HARDNESS	48-55 HRC
密封	SEAL	Floating seal, grease-filled





UNDERCARRIAGE 底盘件

ROLLER

托链轮支撑履带上节，支重轮承载机器重量并将载荷传递至履带。两件产品均采用锻造成型，锻造完成后进行精密加工，严格保证孔径与轴径尺寸公差；轮体装配浮动密封结构与独立储脂腔体，能够有效阻挡泥沙、污水等杂质侵入内部配合位置，降低运动副磨损程度，从而提升备件使用寿命。

托链轮 / 支重轮

The carrier roller supports the upper section of the track, while the track roller bears the machine's weight and transfers the load to the tracks. Both components are forged and undergo precision machining after forging to strictly guarantee dimensional tolerances for the bore and shaft diameters. The roller body is assembled with a floating seal structure and an independent grease reservoir, which effectively block the intrusion of impurities like mud and wastewater into the internal mating components, reducing wear on the moving elements and thereby extending the service life of the spare parts.



材质	MATERIAL	Alloy steel, induction hardened tread
轨道面硬度	ROLLER PATH HARDNESS	48-55 HRC
密封	SEAL	Floating metal face seal
润滑	LUBRICATION	Lifetime-grease filled

BUCKET TOOTH斗齿



斗齿的材料是高强度合金钢，经过电弧炉 +AOD 精炼，经过整体硬化 + 时效处理。使得斗齿具备整体的高硬度，50-55HRC，同时芯部的保持高韧性，零下 40° C，V 型缺口冲击功大于 20 J。使得斗齿在露天矿山 高强度的作业环境下，保持高耐磨性，高韧性。

The bucket teeth are fabricated from high-strength alloy steel, refined via EAF paired with Argon Oxygen Decarburization (AOD), and subjected to through-hardening followed by aging treatment.

This metallurgical process imparts a high overall hardness of 50–55 HRC to the bucket teeth, while maintaining exceptional toughness in the core, characterized by a Charpy V-notch impact energy exceeding 20 J at -40°C.

This optimized balance of properties ensures excellent wear resistance and high fracture toughness, enabling the bucket teeth to withstand high-intensity operations in demanding open-pit mining environments.



材质	MATERIAL	high-strength alloy steel
齿面硬度	OVERALL HARDNESS	50–55 HRC
韧性	IMPACT VALUE	> 20J KV, - 40°C
齿形	PROFILES	Standard, HD, Penetration, Rock
应用	APPLICATION	Open-pit, hard rock, dredging

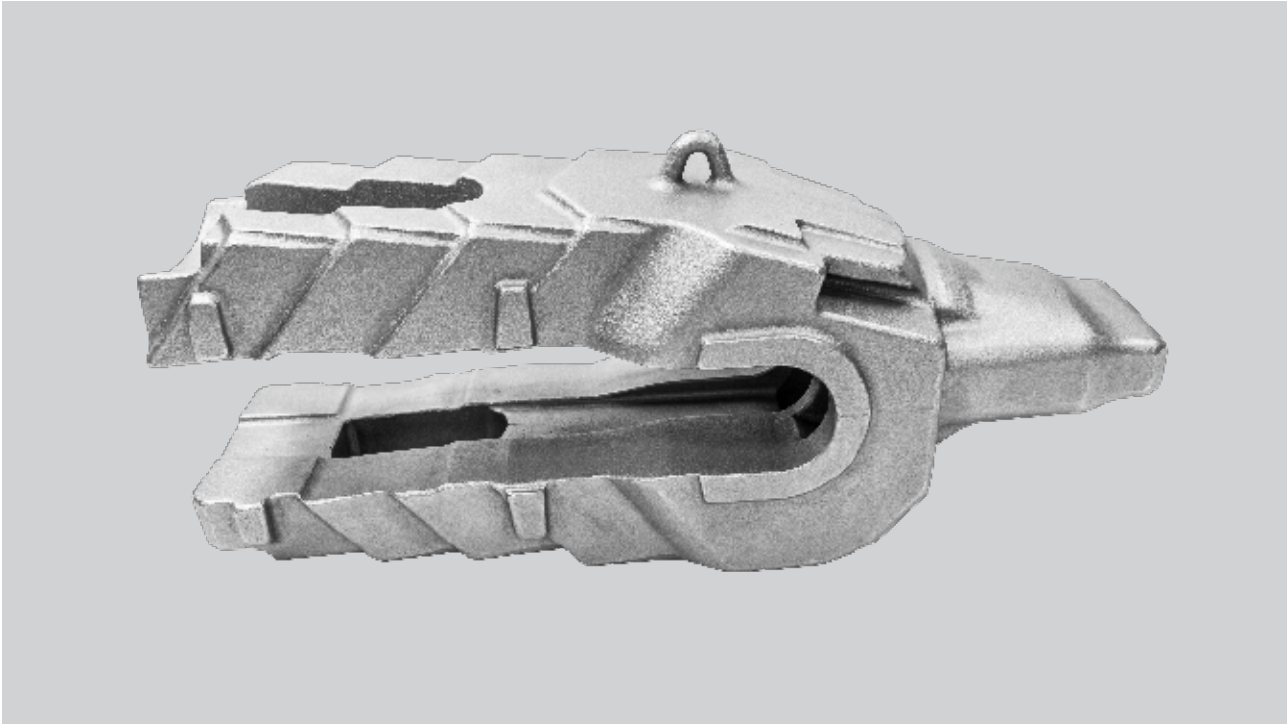
ADAPTOR

齿座



齿座是斗唇与可换斗齿之间的结构接口，需同时抵抗斗齿传来的弯曲、剪切载荷及物料流引起的磨损。STRUMEX 齿座采用合金耐磨钢铸造并热处理，外表面硬化、芯部保持韧性。

The adaptor is the structural interface between the bucket lip and the replaceable tooth. It must resist both the bending and shear forces transmitted from the digging tooth as well as the abrasive wear from the material flow. STRUMEX adaptors are cast from alloy wear steel and heat-treated to provide a hard wear surface with a tough structural core.



材质	MATERIAL	Alloy wear steel, Q&T treated
硬度	HARDNESS	260-300BHN, 50-80J KV, - 40°C
锁紧方式	RETENTION	Pin & retainer compatible



EXCAVATOR GET 挖掘机工作装置

CAST LIP

斗唇

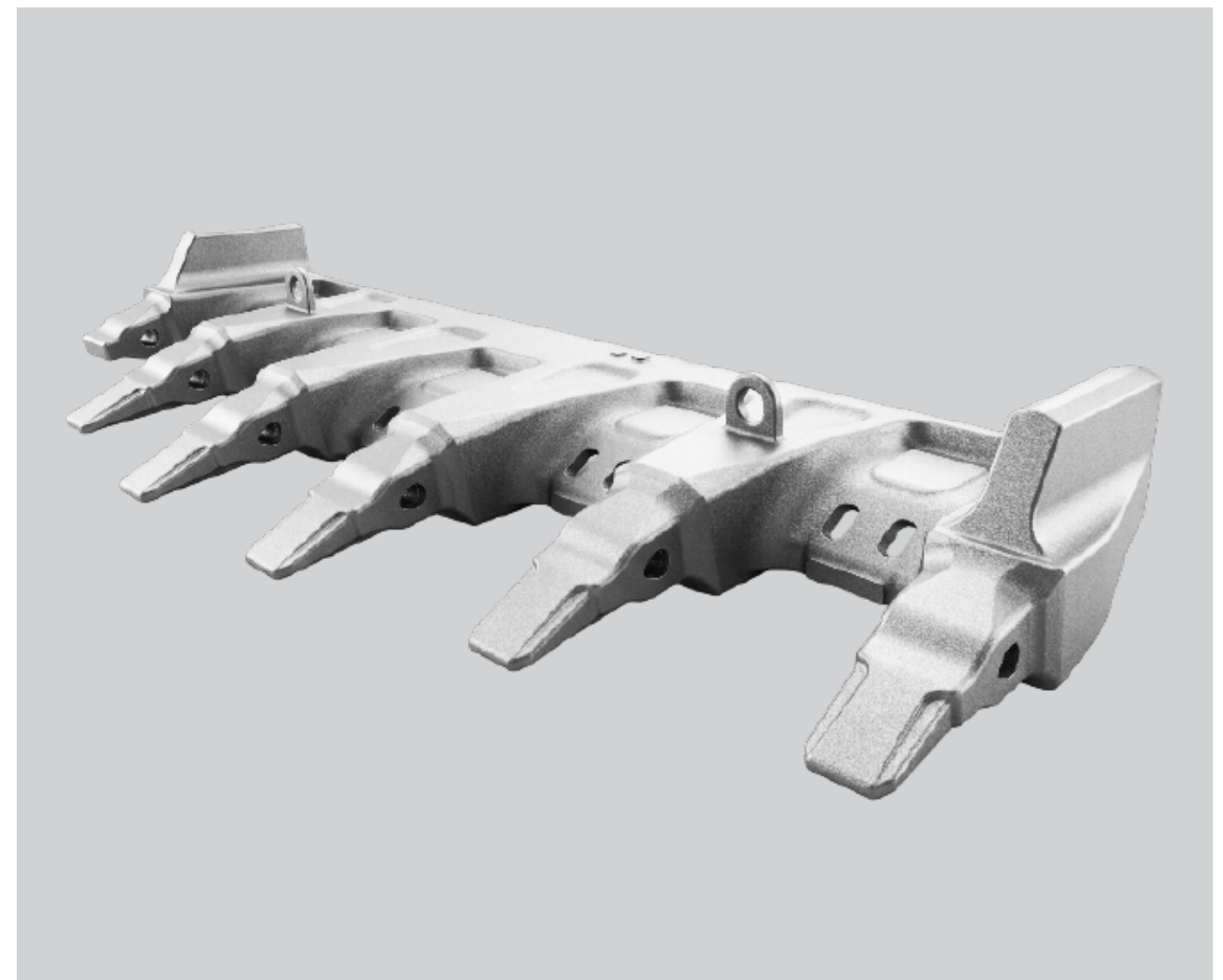
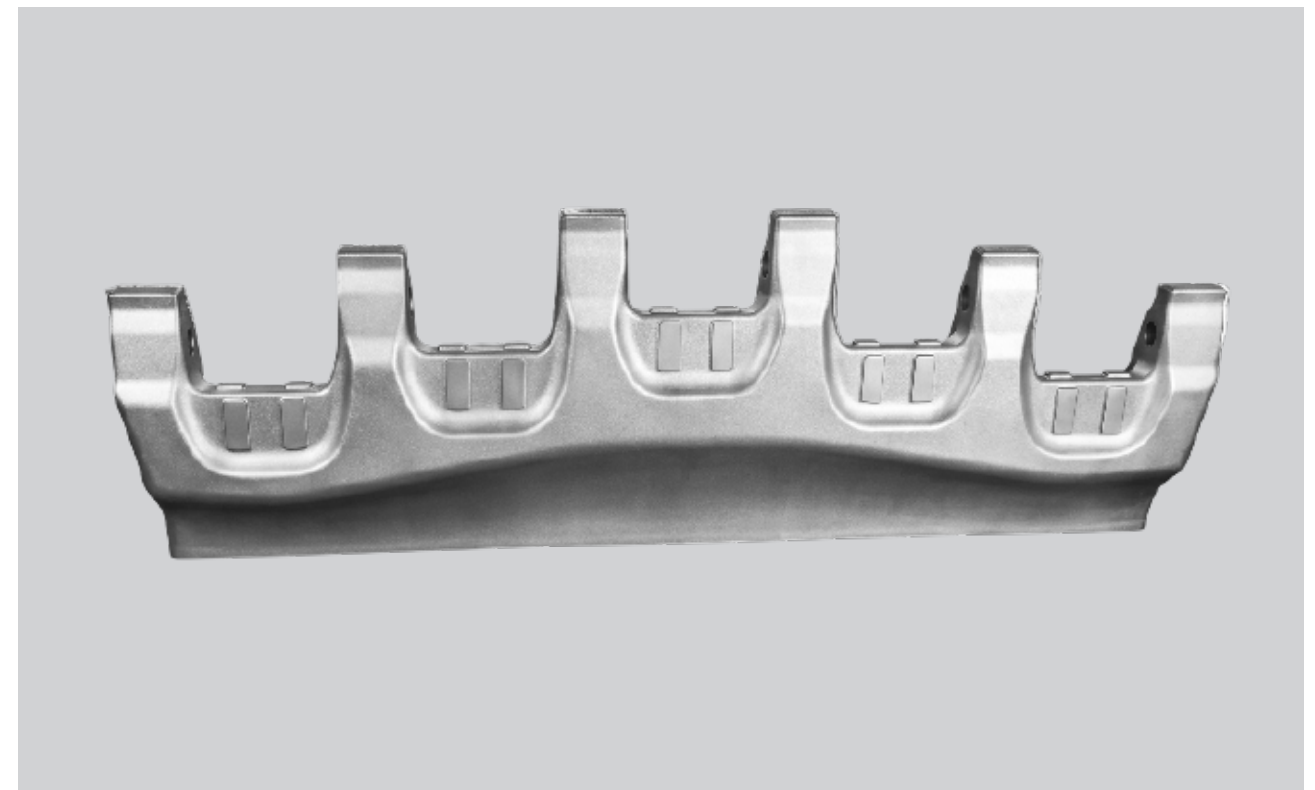
斗唇为一体铸造：一体铸造式整体成型无拼接焊缝，结构刚性更强、抗冲击耐重载，适配矿山等高强度恶劣作业工况。

我们可根据客户机型尺寸、作业工况、采购预算定制生产，适配各类挖掘机新机配套与旧件替换需求。

The lips are integrated cast. The integrated cast design features monolithic molding without any welded seams, providing superior structural rigidity, high impact resistance, and heavy-load capacity, making it perfectly suited for high-intensity, harsh operating conditions such as mining.

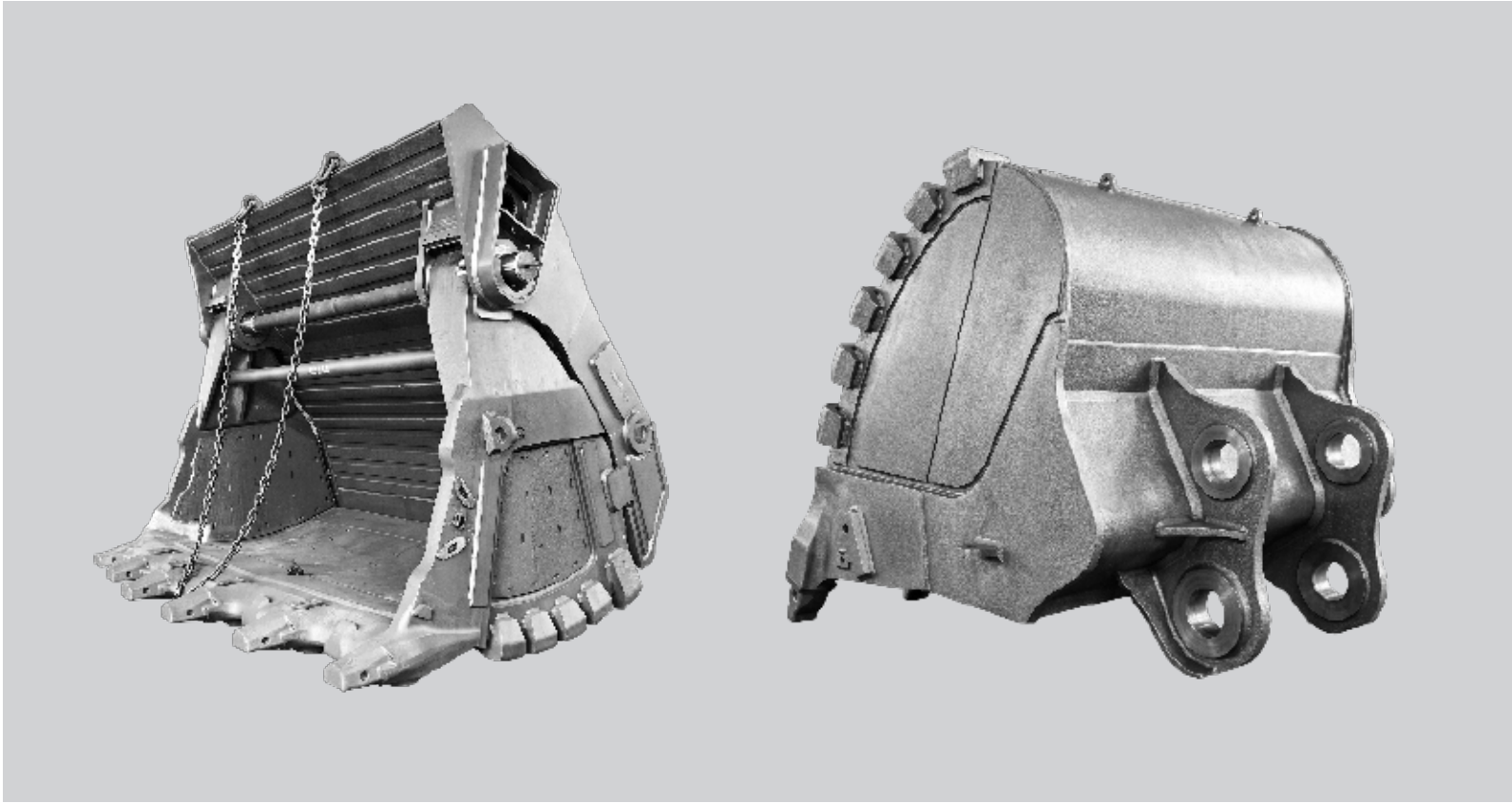
We can provide customized production based on the customer's machine dimensions, operating conditions, and procurement budgets, perfectly matching the requirements for both new excavator OEM fitments and aftermarket component replacements.

材质	MATERIAL	High-strength alloy steel casting
硬度	HARDNESS	260-300BHN
韧性	IMPACT VALUE	70-90 J KV, - 40°C
重量范围	WEIGHT RANGE	3000kg- 15000kg per piece
耐磨保护	WEAR PROTECTION	Integral wear inserts available



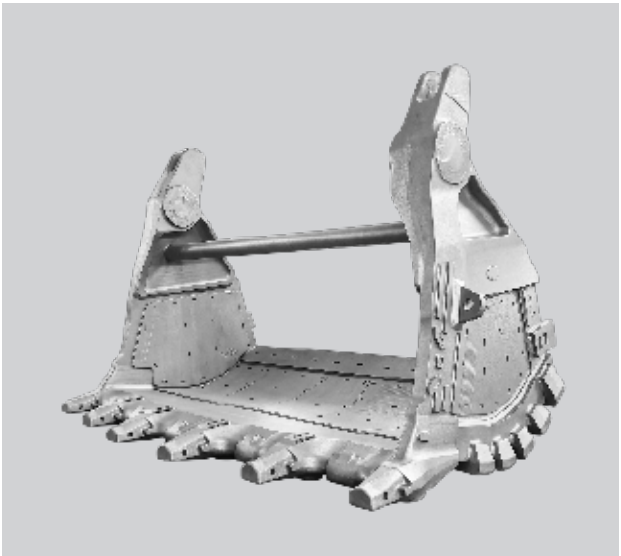
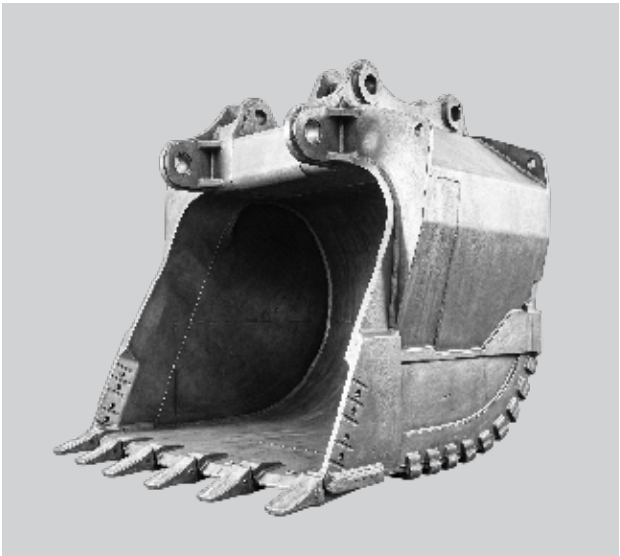
BUCKET

挖斗



挖斗组件，单台挖斗集成精密铸造斗唇、高强度结构侧板、背板与全套工作装配结构。斗体主材采用高牌号耐磨钢板打造，整体抗冲击、抗磨损性能优异，大幅延长铲斗在砂石、矿岩工况下的使用寿命；产品涵盖通用型、岩石型、重载型多款品类，适配 200 吨~ 1000 吨级挖掘机、电铲设备，重点配套 200 吨~ 900 吨露天矿开采装备。

The bucket assembly integrates a precision-cast bucket lip, high-strength structural side plates and back plates, along with a complete set of operational assembly structures into a single unit. The main body of the bucket is constructed from high-grade wear-resistant steel plates, delivering excellent overall impact resistance and wear performance, which significantly extends the bucket's service life under sand, gravel, and mining rock conditions. The product line covers multiple categories, including general-purpose, rock, and heavy-duty types, adapting to 200-ton to 1000-ton class excavators and electric shovels, with a primary focus on supporting 200-ton to 900-ton open-pit mining equipment.



结构材质	STRUCTURAL MATERIAL	NM400 / NM500 wear-resistant steel plate
斗唇材质	LIP MATERIAL	260-300 BHN, -40°C 冲击功 KV 50-80J
尺寸范围	SIZE RANGE	200t – 1000t class excavators/ Rope Shovel.
容量范围	CAPACITY RANGE	10m ³ – 55 m ³

CONTACT US

如需报价，请向我们的团队提供以下信息：
To request a quotation, please provide the following information to our team:

机器品牌、型号	Brand, Model
序列号	Serial number
所需数量	Required quantity
交货地点	Delivery location
任何特殊材质或检验要求	Any special material or inspection requirements

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