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EBZ系列掘进机

EBZ SERIES ROADHEADER



2016年3月印刷

徐州徐工基础工程机械有限公司
XUZHOU XUGONG FOUNDATION CONSTRUCTION MACHINERY CO.,LTD.

公司简介

Brief introduction of the company

徐州徐工基础工程机械有限公司（简称“徐工基础”）成立于2010年1月，是徐工集团专业化发展桩工机械、非开挖机械、煤矿机械的全资子公司。公司位于徐州市金山桥经济开发区，占地150亩，厂房面积30000平方米，拥有员工近千人，其中包括省、市级专家、技术能手在内的工程技术人员、高技能人才逾百名，营业规模近15亿。目前拥有水平定向钻机、旋挖钻机、煤炭掘进机以及连续墙抓斗四类高新技术产品，其中多项产品获国家、省机械工业科技进步奖，2011年公司顺利通过省高新技术企业认定，“大型智能化非开挖定向钻机研发及产业化”顺利通过国家火炬项目立项，公司技术中心被认定为徐州市基础工程机械工程技术研究中心，产品先后出口至南美、中亚、非洲等近20个国家。

作为非开挖行业中唯一一家大型工程机械生产厂家，徐工基础一方面推进国际领先的高智能化水平定向钻机的自主研发，一方面加强适应国内施工现状的水平定向钻机的生产、制造能力，现已具有推拉力自16吨到660吨满足全方位非开挖施工的XZ系列水平定向钻机产品，可以满足各类开挖施工的需求，实现订单式生产。

作为国内首家实现旋挖钻机自主研发、生产的厂家，徐工自1999年起始终高度重视桩工产品的发展，在巩固自身旋挖钻机市场地位的同时，不断扩展型谱、适应不同的工况要求。目前，徐工桩工产品已形成XR系列旋挖钻机，动力头扭矩涵盖25KN·M至460KN·M、XG系列连续墙抓斗，提升力涵盖360、450KN，并在行业内率先推出采用单排绳主卷扬机构的“D”系列旋挖钻机，全面提升产品作业能力、延长钢丝绳使用寿命。2011年，徐工基础公司旋挖钻机一次性出口委内瑞拉70台，亚洲最大吨位专用底盘旋挖钻机XR460D诞生在徐工基础。

作为徐工集团“十二五”重点规划项目，由徐工集团研发、徐工基础生产的EBZ系列掘进机顺利下线，是业内唯一一家当年研发、试制、投产、并顺利通过煤安认证、实现销售的企业。经过技术改进、井下试验调试，EBZ系列掘进机已完全满足了煤矿恶劣施工环境，并工作稳定，目前徐工EBZ系列掘进机已经形成功率75kW至320kW常规型号的产品型谱，具备批量生产、销售、作业的条件。

在徐工集团“成为全球著名的、极具国际竞争力、让国人为之骄傲的世界顶级企业”愿景的感召下，徐工基础秉承“担大任、行大道、成大器”的核心价值观，以“满足超值需求，效力社会进步”为宗旨，致力于“打造中国最好的基础工程机械、煤矿机械产品”，在加强自主研发力量的同时，注重与中国矿业大学、中国地质大学（武汉）、东南大学及长安大学等国内知名高校以及相关科研院所、国际著名公司合作，不断追求技术进步和创新，时刻走在技术的最前沿，质量、环境和职业健康安全一体化管理体系获得ISO9001国际认证，多型号产品成功取得了欧盟标准推行产品CE认证、俄罗斯GOST认证等，产品已被广泛应用于高速公路、高速铁路、桥梁、房屋建筑、市政建设、煤炭开采等工程项目，并得到国内外用户的一致好评。

Founded in January 2010, Xuzhou Xugong Foundation Construction Machinery Co., Ltd. (Xugong Foundation) is a wholly-owned subsidiary of XCMG Group specialized in developing and manufacturing piling machinery, non-excavation machinery and coal machinery. Located at Xuzhou Jinshanqiao Economic Development Zone, a national economic and technological development zone, the company covers with an area of over 150 mu and a floor area of 30,000 square meters, has nearly 1,000 employees, including over 100 engineering technologists and skilled talents composed of provincial and municipal experts and technical masters, and owns four types of high-tech products including horizontal directional driller, rotary drilling rig, coal tunneling machine and diaphragm wall grab, several of which won national and provincial prizes for progress in machinery science and technology. The company was accredited as a provincial high-tech enterprise and Xuzhou's foundation construction machinery engineering technology research center in 2011, and has exported products to nearly 20 countries in South America, Central Asia and Africa.

As the only construction machinery manufacturer in the non-excavation industry, Xugong Foundation has been pressing ahead with the independent R & D of world leading high-intelligence horizontal directional drillers, and improving the manufacturing capacity in line with the actualities of domestic construction, has owned XZ horizontal directional drillers for all-round non-excavation construction with a push-pull force of ranging from 16 tonnages to 600 tonnages, can meet diverse excavation demands and accomplish customized production.

As the first domestic manufacturer that has accomplished the independent R & D and manufacturing of rotary drilling rigs, Xugong Foundation has attached great importance to the development of piling products since 1999. While consolidating its role in the rotary drilling rig market, the company has been extending its product spectrum to adapt to different working conditions. So far, the company has developed piling products including XR rotary drilling rigs with a power head torque of ranging from 2.5KN·M to 460KN·M and XG diaphragm wall grabs with a lifting force of 360KN and 450KN, and has taken the lead in the industry to introduce D rotary drilling rigs using single-rope main hoisting mechanism, to comprehensively improve the operating capacity of products and extend the useful life of steel wire rope. In 2011, the company exported 70 rotary drilling rigs to Venezuela and developed Asia's largest-tonnage rotary drilling rigs with special chassis.

As a key project in the "twelfth five-year" period of XCMG Group, EBZ tunneling machine was developed and turned out within a year, passed the coal safety certification, was manufactured in volume and sold. After technical renovation and underground commissioning, the series has fully met the requirements of coal construction with high stability. Currently, the series has formed a spectrum of conventional models from 75kW to 320kW, and has met the conditions for volume production, sale and operation.

Inspired by XCMG's vision of "becoming an internationally renowned and competitive enterprise making Chinese proud", Xugong Foundation upholds the core values of "assuming heavy task, growing vigorously and achieving success", aims to "meet value demands and serving social progress", is committed to "building China's best foundation construction machinery and coal machinery", pays attention to cooperating with renowned domestic institutions of higher learning including China University of Mining and Technology, China University of Geosciences (Wuhan), Southeast University and Chang'an University, as well as relevant research institutes and world-famous companies, constantly pursues technical progress and innovation, and remains at the forefront of technology while increasing the strength of independent R & D. The company's quality system, environmental system and occupational health and safety system have passed ISO9001 international certifications, several models have passed EU CE certification and Russia GOST certification, and products have been extensively used in projects such as highways, high-speed railways, bridges, buildings, municipal construction and coal mining, receiving unanimous praise from domestic and overseas customers.



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领导关怀



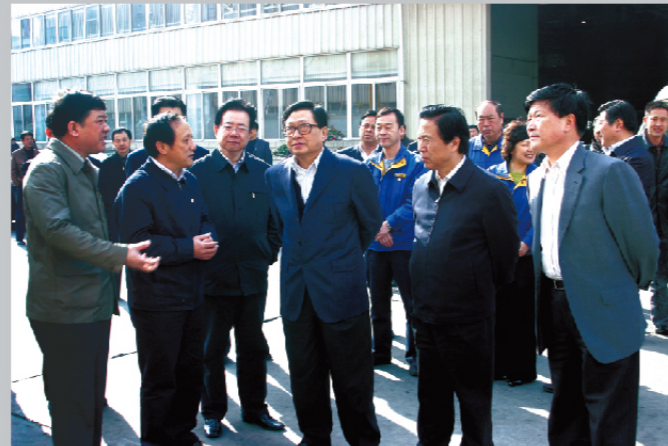
2009年2月21日，李克强同志在梁保华、罗志军、徐鸣、曹新平等同志陪同下视察徐工集团
21th, Feb. 2009, Li Keqiang visits XCMG accompanied by Liang Baohua, Luo Zhijun, Xu Ming, and Cao Xinping.



2009年1月9日，温家宝同志亲切接见徐工集团董事长、党委书记王民
9th, Jan. 2009 Wen Jiabao meets the chairman of the board and party Secretary of XCMG Wang Min.



2008年10月3日，吴官正同志在梁保华、王国胜、赵克志同志陪同下视察徐工集团
3rd, Oct. 2008 Wu Guanzheng visits XCMG accompanied by Liang Baohua, Wang Guosheng, and Zhao Kezhi.



2009年3月24日，华建敏同志视察徐工集团
24th, March 2009 Hua Jianmin visits XCMG.

Love&Give 爱的奉献



2008年5月12日四川汶川大地震后，徐工集团在央视“爱的奉献”晚会现场宣布为灾区捐款1372万元
XCMG donated 2,280,000USD to Wenchuan, Sichuan province for the violent earthquake on 12th, May, 2008.



徐工集团被授予“慈善大奖”
XCMG was awarded as "Charity"

世界选择徐工
XCMG, be an ideal choice worldwide.

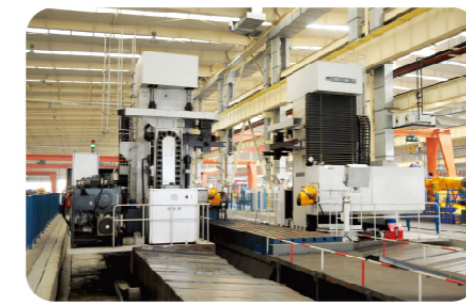


气势宏伟的徐工展区 Impressive XCMG exhibition area

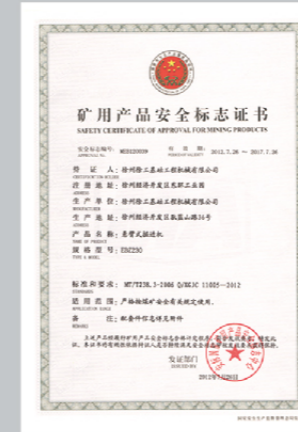


与徐工合作共赢的海外经销商 Win-win overseas distributors

现代化的生产制造基地
Modern manufacturing factory



资信证书



EBZ75 掘进机

SERIES ROADHEADER

使用范围

产品主要作业对象为煤系地层中各种煤岩、半煤岩，岩石的硬度 $\leq f5$ 。掘进机单齿截割力约达2000N，截割线速度1.67m/s。

特点

该机的主要特点是：结构紧凑、机身矮、重心低、操作方便、工作平稳。切割头采用电机驱动过载能力强。所有部件合理设计成小部件组合，便于井下运输和安装。有内喷雾，防尘效果好。液压系统简单，元件国产，便于维护。

电控系统

EBZ75掘进机采用隔爆及本质安全型开关箱和本质安全型操作箱，体积小、重量轻、操作灵活、安全可靠；主要控制器安装在一个封闭的壳体内，有效屏蔽电磁干扰；液晶屏幕工况显示，操作界面菜单式，参数设置灵活安全；具有过压、电机过载、缺相、短路、超温、漏电闭锁等功能。

液压系统

EBZ75型掘进机液压系统采用分动箱传输、多泵定量控制，主要液压元件均采用国内外知名品牌。

切割头

切割头采用仿真技术进行优化，采用先进的高强度截齿，布置合理，破岩能力强。

喷雾系统

EBZ75型掘进机喷雾系统具有内外喷雾，内喷雾为齿后喷雾，强化外喷雾，外喷雾形式设计合理，内喷雾具有漏水检测功能。

第一运输机

第一运输机采用平直结构，与铲板搭接顺畅，运输通畅。

行走机构

行走驱动系统采用国内先进技术的马达和减速机的高度集成，输出扭矩大，适应大倾角作业。

如果运输中重量或总高有限制，可拆解运输。

Applications

The machine mainly work in coal, coal-rock, and rock when the hardness $\leq f5$. Cutting force for each tooth would be 2000N, speed of cutting line would be 1.67m/s.

Features

Main features: compact structure, low body, low center of gravity, easy operation, good working performance. The cutting head is driven by electric motor with good overload ability. All components are designed as small as possible to be easily transported and assembled in the mine. Inner water spray system is assembled to get better anti dusting. The hydraulic system is relatively simple with domestic components and convenient maintenance.

Electric control system

EBZ75 roadheader adopts flame proof and intrinsically safe switch box and control box with small size, light weight, flexible operation, which is safety and reliable; main controller is installed in a closed casing that can effectively block out electromagnetic interference; working condition is shown with LCD screen, menu mode is used for operating interface with flexible and safe parameter setting; it is equipped with functions such as overvoltage, motor overload, open-phase, short circuit, over temperature and earth leakage lockout.

Hydraulic system

The hydraulic system of EBZ75 roadheader adopts transfer case, several pumps control, with main hydraulic components coming from international brands.

Cutting head

The cutting head is optimized by utilizing simulation technique and picks come from Kennametal Co., Ltd. with reasonable layout and strong rock breaking capacity.

Spraying system

Spraying system of EBZ75 roadheader include inside and outside spray systems, of which the front is after-pick spraying which is used to strength outside spraying, the latter is reasonable in design and equipped with leakage detection function.

First freighter

Straight structure is adopted for first freighter, which can achieve smooth lapping with hauler bed and transportation.

Traveling mechanism

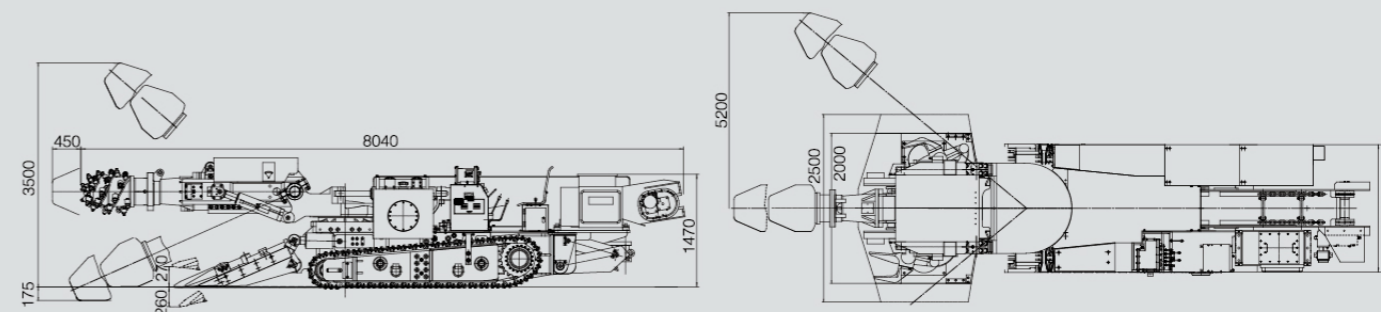
The traveling mechanism is a high integration of internationally advanced motor and reducer, whose big output torque can adapt to operations with large dip angle. If there is limit for weight or total weight during transportation, it can be disassembled for transportation.



主要技术参数

Main Technical Specification

项目 Items		参数 Parameter	
整机质量 Overall weight		23t	
外形尺寸 Overall dimension	长 length	8040mm	
	宽 Width	铲板 Hauler bed 机身 Main body	2000/2500mm 1700mm
	高 Height	截割头水平放置最高点 Cutting head is laid horizontally on the highest point. 机身 Main body	1720mm 1470mm
	卧底深度 Dinting undercut	175mm	
	地隙 Ground clearance of machine	170mm	
	定位切割范围 Range of positioning cutting	高度 Height	3500mm
		宽度 Width	5200mm
		面积 Area	17m ²
	龙门高度 mm gantry height (mm)	300mm	
	切割煤岩抗压强度 Compressure strength of coal petrography to be cut	$\leq 50\text{MPa}$	
爬坡能力 Climbing capacity	$\pm 16^\circ$		
行走速度 Travelling speed	7m/min		
接地比压 Grounding pressure	0.133MPa		
总功率 Gross power	141kW		
切割电机功率 Power of Cutting motor	75kW		
泵站电机功率 Power of pumping stations motor	55kW		
供电电压 Supply voltage	AC660/1140V		
供电频率 Frequency of supply	50Hz		
切割头转速 Rotation speed of cutting head	50r/min		
装载能力 Loading capacity	蟹爪式 Crab claw type/1m ³ /min		
履带宽度 Crawler width	400mm		
履带外宽 Out. width of crawlers	1700mm		
涨紧形式 Tensioning style	油缸涨紧、卡板锁紧 Cylinder tensioning and snap-gauge locking		
喷雾水压 Water pressure of spraying	外喷雾水压 Water pressure of outside spraying	$\geq 1.5\text{MPa}$	
	内喷雾水压 Water pressure of inside spraying	$\geq 3\text{MPa}$	
最大不可拆卸件尺寸 Max. non-removable parts size	2065 × 960 × 615mm		
最大不可拆卸件质量 Max. non-removable parts mass	4225kg		



EBZ90 掘进机

SERIES ROADHEADER

使用范围

产品主要作业对象为煤系地层中各种煤岩、半煤岩，岩石的硬度 $\leq f5$ 。掘进机单齿截割力约达2700N，截割线速度1.67m/s。

特点

该机的主要特点是：结构紧凑、机身矮、重心低、操作方便、工作平稳。切割头采用电机驱动过载能力强。所有部件合理设计成小部件组合，便于井下运输和安装。有内喷雾，防尘效果好。液压系统简单，元件国产，便于维护。

电控系统

EBZ90掘进机采用防爆及本质安全型开关箱和本质安全型操作箱，体积小、重量轻、操作灵活、安全可靠；主要控制器安装在一个封闭的壳体内，有效屏蔽电磁干扰；液晶屏幕工况显示，操作界面菜单式，参数设置灵活安全；具有过压、电机过载、缺相、短路、超温、漏电闭锁等功能。

液压系统

EBZ90型掘进机液压系统采用分动箱传输、多泵定量控制，主要液压元件均采用国内外知名品牌。

切割头

切割头采用仿真技术进行优化，采用先进的高强度截齿，布置合理，破岩能力强。

喷雾系统

EBZ90型掘进机喷雾系统具有内外喷雾，内喷雾为齿后喷雾，强化外喷雾，外喷雾形式设计合理，内喷雾具有漏水检测功能。

第一运输机

第一运输机采用平直结构，与铲板搭接顺畅，运输通畅。

行走机构

行走驱动系统采用国内先进技术的马达和减速机的高度集成，输出扭矩大，适应大倾角作业。如果运输中重量或总高有限制，可拆解运输。

Applications

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Features

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Electric control system

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Hydraulic system

The hydraulic system of EBZ90 roadheader adopts transfer case, several pumps control, with main hydraulic components coming from international brands.

Cutting head

The cutting head is optimized by utilizing simulation technique and picks come from Kennametal Co., Ltd. with reasonable layout and strong rock breaking capacity.

Spraying system

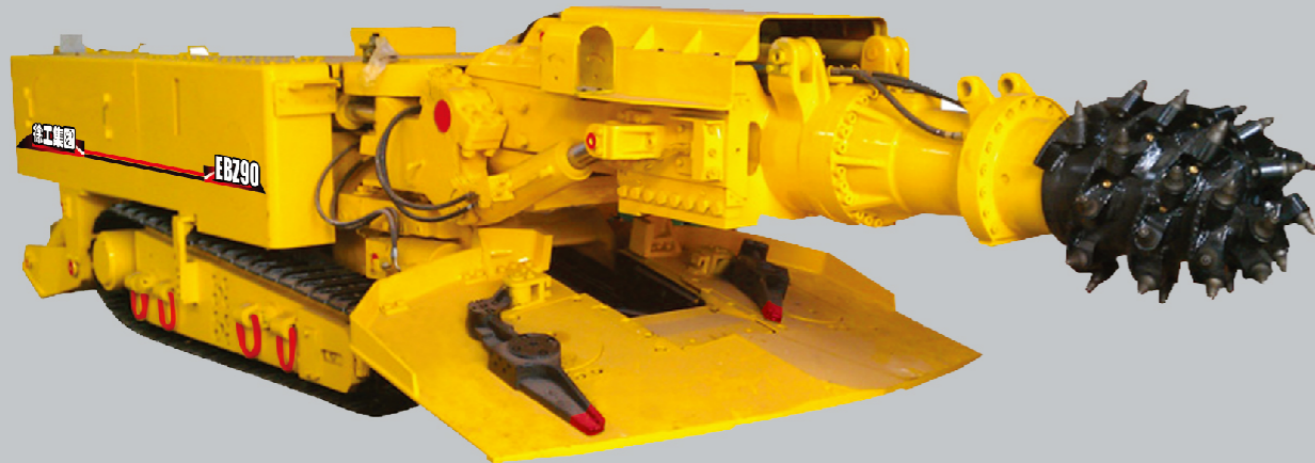
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First freighter

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Traveling mechanism

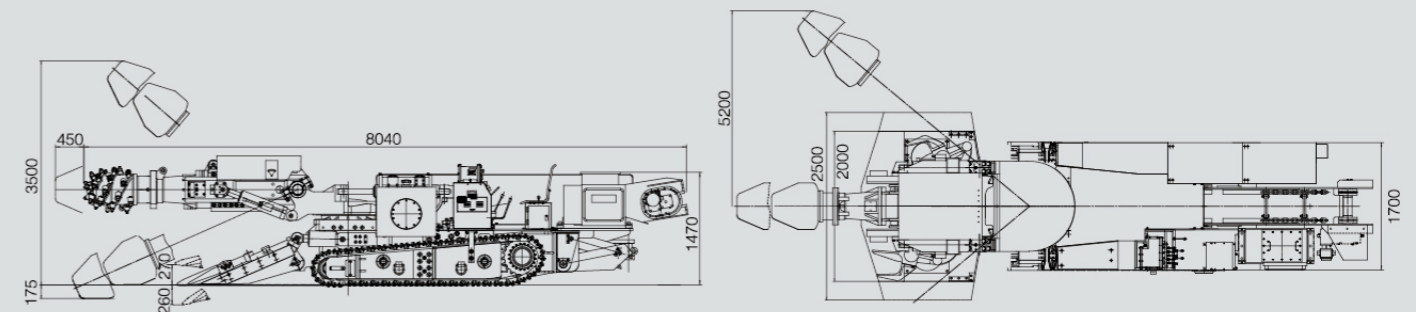
The traveling mechanism is a high integration of internationally advanced motor and reducer, whose big output torque can adapt to operations with large dip angle. If there is limit for weight or total weight during transportation, it can be disassembled for transportation.



主要技术参数

Main Technical Specification

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	宽 Width	铲板 Hauler bed	2000/2500mm
		机身 Main body	1700mm
	高 Height	切割头水平放置最高点 Cutting head is laid horizontally on the highest point	1720mm
		机身 Main body	1470mm
	卧底深度 Dinting undercut	175mm	
	地隙 Ground clearance of machine	170mm	
	定位切割范围 Range of positioning cutting	高度 Height	3500mm
		宽度 Width	5200mm
		面积 Area	17m ²
龙门高度 mm gantry height (mm)	300mm		
切割煤岩抗压强度 Compressure strength of coal petrography to be cut	$\leq 50\text{MPa}$		
爬坡能力 Climbing capacity	$\pm 16^\circ$		
行走速度 Travelling speed	7m/min		
接地比压 Grounding pressure	0.133MPa		
总功率 Gross power	156kW		
切割电机功率 Power of Cutting motor	90kW		
泵站电机功率 Power of pumping stations motor	55kW		
供电电压 Supply voltage	AC660/1140V		
供电频率 Frequency of supply	50Hz		
切割头转速 Rotation speed of cutting head	50r/min		
装载能力 Loading capacity	蟹爪式 Crab claw type/2.8m ³ /min		
履带宽度 Crawler width	400mm		
履带外宽 Out. width of crawlers	1700mm		
涨紧形式 Tensioning style	油缸涨紧、卡板锁紧 Cylinder tensioning and snap-gauge locking		
喷雾水压 Water pressure of spraying	外喷雾水压 Water pressure of outside spraying $\geq 1.5\text{MPa}$ 内喷雾水压 Water pressure of inside spraying $\geq 3\text{MPa}$		
最大不可拆卸件尺寸 Max. non-removable parts size	2065 × 960 × 615mm		
最大不可拆卸件质量 Max. non-removable parts mass	4225kg		



EBZ120 掘进机

SERIES ROADHEADER

使用范围

产品主要作业对象为中硬度岩石。掘进机单齿截割力约3300N，截割线速度2m/s。

特点

该机的主要特点是：结构紧凑、机身矮、重心低、操作方便、工作平稳。切割头采用电机驱动过裁能力强。有内喷雾，防尘效果好。液压系统简单，元件国产，便于维护。

电控系统

EBZ120掘进机采用隔爆及本质安全型开关箱和本质安全型操作箱，体积小、重量轻、操作灵活、安全可靠；主要控制器安装在一个封闭的壳体内，有效屏蔽电磁干扰；液晶屏幕工况显示，操作界面菜单式，参数设置灵活安全；具有过压、电机过载、缺相、短路、超温、漏电闭锁等功能。

液压系统

EBZ120型掘进机液压系统采用分动箱传输、多泵定量控制，主要液压元件均采用国内外知名品牌。

切割头

切割头采用仿真技术进行优化，采用先进的高强度截齿，布置合理，破岩能力强。

喷雾系统

EBZ120型掘进机喷雾系统具有内外喷雾，内喷雾为齿后喷雾，强化外喷雾，外喷雾形式设计合理，内喷雾具有漏水检测功能。

第一运输机

第一运输机采用平直结构，与铲板搭接顺畅，运输通畅。

行走机构

行走驱动系统采用国内先进技术的马达和减速机的高度集成，输出扭矩大，适应大倾角作业。

如果运输中重量或总高有限制，可拆解运输。

Applications

The machine mainly works in medium hard and hard rock. Cutting force for each tooth would be 3300N, speed of cutting line would be 2m/s.

Features

Main features: compact structure, low body, low center of gravity, easy operation, good working performance. The cutting head is driven by electric motor with good overload ability. All components are designed as small as possible to be easily transported and assembled in the mine. Inner water spray system is assembled to get better anti dusting. The hydraulic system is relatively simple with domestic components and convenient maintenance.

Electric control system

EBZ120 roadheader adopts flame proof and intrinsically safe switch box and control box with small size, light weight, flexible operation, which is safety and reliable; main controller is installed in a closed casing that can effectively block out electromagnetic interference; working condition is shown with LCD screen, menu mode is used for operating interface with flexible and safe parameter setting; it is equipped with functions such as overvoltage, motor overload, open-phase, short circuit, over temperature and earth leakage lockout.

Hydraulic system

The hydraulic system of EBZ120 roadheader adopts transfer case, several pumps control, with main hydraulic components coming from international brands.

Cutting head

The cutting head is optimized by utilizing simulation technique and picks come from Kennametal Co., Ltd. with reasonable layout and strong rock breaking capacity.

Spraying system

Spraying system of EBZ120 roadheader include inside and outside spray systems, of which the front is after-pick spraying which is used to strength outside spraying, the latter is reasonable in design and equipped with leakage detection

First freighter

Straight structure is adopted for first freighter, which can achieve smooth lapping with hauler bed and transportation.

Traveling mechanism

The traveling mechanism is a high integration of internationally advanced motor and reducer, whose big output torque can adapt to operations with large dip angle.

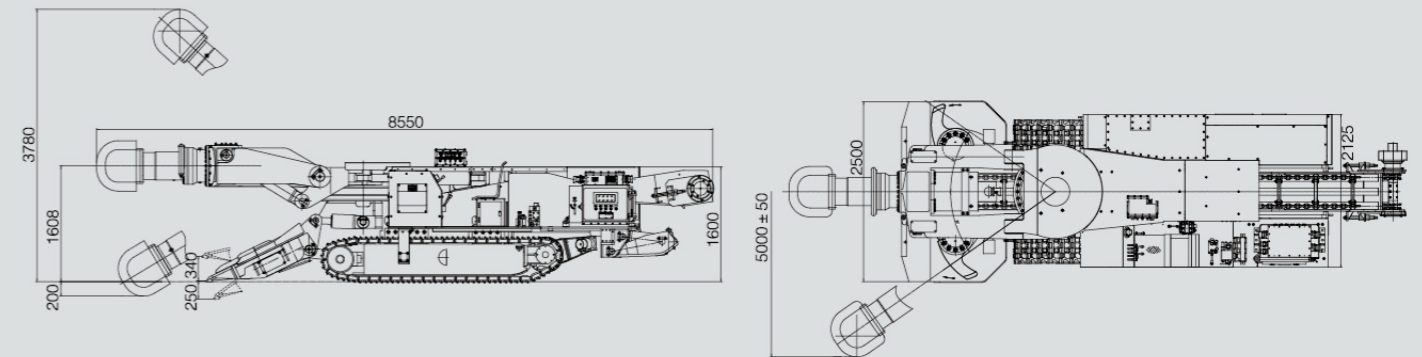
If there is limit for weight or total weight during transportation, it can be disassembled for transportation.



主要技术参数

Main Technical Specification

项目 Items		参数 Parameter	
整机质量 Overall weight		36t	
外形尺寸 Overall dimension	长 length	8550mm	
	宽 Width	铲板 Hauler bed 机身 Main body	2500mm 2125mm
	高 Height	截割头水平放置最高点 Cutting head is laid horizontally on the highest point 机身 Main body	1920mm 1600mm
	卧底深度 Dinting undercut		200mm
	地隙 Ground clearance of machine		250mm
	定位切割范围 Range of positioning cutting	高度 Height	3780mm
		宽度 Width	5000mm
		面积 Area	18m ²
		龙门高度 mm gantry height(mm)	350mm
	切割煤岩抗压强度 Compressure strength of coal petrography to be cut		≤60MPa
爬坡能力 Climbing capacity		±16°	
行走速度 Travelling speed		7m/min	
接地比压 Grounding pressure		0.14MPa	
总功率 Gross power		206kW	
切割电机功率 Power of Cutting motor		120kW	
泵站电机功率 Power of pumping stations motor		75kW	
供电电压 Supply voltage		AC660/1140V	
供电频率 Frequency of supply		50Hz	
切割头转速 Rotation speed of cutting head		54r/min	
装载能力 Loading capacity		星轮式/3m ³ /min	
履带宽度 Crawler width		500mm	
履带外宽 Out. width of crawlers		2125mm	
涨紧形式 Tensioning style		油缸涨紧、卡板锁紧 Cylinder tensioning and snap-gauge locking	
喷雾水压 Water pressure of spraying	外喷雾水压 Water pressure of outside spraying	≥1.5MPa	
	内喷雾水压 Water pressure of inside spraying	≥3MPa	
最大不可拆卸件尺寸 Max. non-removable parts size		2965 × 1336 × 1305mm	
最大不可拆卸件质量 Max. non-removable parts mass		4300kg	



EBH120 掘进机

SERIES ROADHEADER

该机的主要特点是：结构紧凑、机身矮、重心低、操作方便、工作平稳。切割头可采用液压马达驱动也可采用电机驱动，并可任意选择横轴或纵轴式。本掘进机与传统掘进机不同之处在于：切割臂采用两节组合的形式，两节之间用销轴联接，分别由两对油缸控制其升降，一对油缸控制其水平回转。

本掘进机的优点体现在：

——由于臂体窄，司机视野开阔，工作时大小臂相互配合，增加了切割臂的灵活性；

——切割前臂折转后，切割头在中间位置时离铲板仅180mm，而在两侧时只有100mm，大大缩小了切割头与铲板间的距离；

——由于切割头的旋转，截落的煤被抛向铲板，辅助装煤效果好，解决了落煤快、装煤慢的矛盾。

电控系统

EBH120掘进机采用隔爆及本质安全型开关箱和本质安全型操作箱，体积小、重量轻、操作灵活、安全可靠；主要控制器安装在一个封闭的壳体内，有效屏蔽电磁干扰；液晶屏幕工况显示，操作界面菜单式，参数设置灵活安全；具有过压、电机过载、缺相、短路、超温、漏电闭锁等功能。

液压系统

EBH120型掘进机液压系统采用分动箱传输、多泵定量控制，主要液压元件均采用国内外知名品牌。

切割头

切割头采用仿真技术进行优化，采用先进的高强度截齿，布置合理，破岩能力强。

喷雾系统

EBH120型掘进机喷雾系统具有外喷雾，形式设计合理，除尘效果良好。

第一运输机

第一运输机采用平直结构，与铲板搭接顺畅，运输通畅。

行走机构

行走驱动系统采用国内先进技术的马达和减速机的高度集成，输出扭矩大，适应大倾角作业。

如果运输中重量或总高有限制，可拆解运输。

Main features: compact structure, low body, low center of gravity, easy operation, good working performance. The cutting head can be hydraulic driven or electric motor driven with horizontal axis or vertical axis. The difference between this machine and regular roadheader is: the cutting arm is composed of two sections and connected by spin, and it is up/down direction controlled by two pairs of cylinders, horizontal rotation is controlled by a pair of cylinders.

Advantages:

- Narrow cutting arm gives better operating vision. Flexibility can be improved by the cooperation between big and small arm.

- After the cutting arm is folded, the distance to the shovel plate is only 180mm while the cutting head is in the middle, 100mm while the cutting head is at either ends. This has greatly shortened the distance between the cutting head and the shovel plate.

- Coal can be thrown to the shovel plate with the rotation of cutting head, which helps to ship coal efficiently.

Electric control system
EBH120 roadheader adopts flame proof and intrinsically safe switch box and control box with small size, light weight, flexible operation, which is safety and reliable; main controller is installed in a closed casing that can effectively block out electromagnetic interference; working condition is shown with LCD screen, menu mode is used for operating interface with flexible and safe parameter

Hydraulic system
The hydraulic system of EBH120 roadheader adopts transfer case, several pumps control, with main hydraulic components coming from international brands.

Cutting head
The cutting head is optimized by utilizing simulation technique and picks come from Kennametal Co., Ltd. with reasonable layout and strong rock breaking capacity.

Spraying system
Spraying system of EBH120 roadheader includes inside and outside spray systems with reasonable design and good performance.

First freighter
Straight structure is adopted for first freighter, which can achieve smooth lapping with hauler bed and transportation.

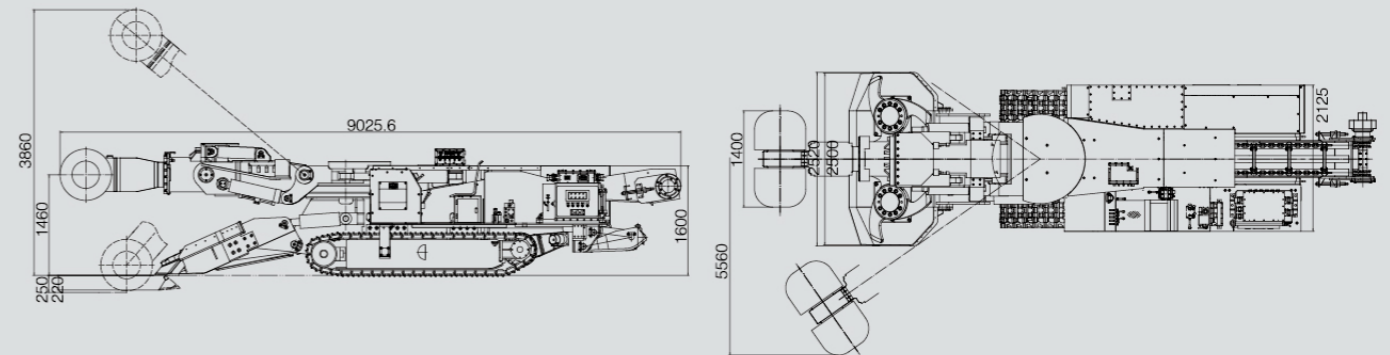
Traveling mechanism
The traveling mechanism is a high integration of internationally advanced motor and reducer, whose big output torque can adapt to operations with large dip angle.

If there is limit for weight or total weight during transportation, it can be disassembled for transportation.

主要技术参数

Main Technical Specification

项目 Items		参数parameter	
整机质量 Overall weight		38t	
外形尺寸 Overall dimension	长 length	9025mm	
	宽 Width	铲板 Hauler bed 机身 Main body	2500mm 2125mm
	高 Height	截割头水平放置最高点 Cutting head is laid horizontally on the highest point 机身 Main body	1900mm 1600mm
	卧底深度 Dinting undercut		220mm
	地隙 Ground clearance of machine		250mm
	定位切割范围 positioning cutting	高度 Height	3860mm
		宽度 Width	5560mm
		面积 Area	22m ²
		龙门高度 mm gantry height(mm)	350mm
		切割煤岩抗压强度 Compressure strength of coal petrography to be cut	≤60MPa
爬坡能力 Climbing capacity		±16°	
行走速度 Travelling speed		7m/min	
接地比压 Grounding pressure		0.14MPa	
总功率 Gross power		206kW	
切割电机功率 Power of Cutting motor		120kW	
泵站电机功率 Power of pumping stations motor		75kW	
供电电压 Supply voltage		AC660/1140V	
供电频率 Frequency of supply		50Hz	
切割头转速 Rotation speed of cutting head		73r/min	
装载能力 Loading capacity		星轮式 star wheel type/3m ³ /min	
履带宽度 Crawler width		500mm	
履带外宽 Out. width of crawlers		2125mm	
涨紧形式 Tensioning style		油缸涨紧、卡板锁紧 Cylinder tensioning and snap-gauge locking	
喷雾水压 Water pressure of spraying		外喷雾水压 Water pressure of outside spraying ≥1.5MPa	
最大不可拆卸件尺寸 Max. non-removable parts size		2965 × 1336 × 1305mm	
最大不可拆卸件质量 Max. non-removable parts mass		4300kg	



EBZ135 掘进机

SERIES ROADHEADER

EBZ135型掘进机机身矮、重心低，爬坡能力强，整机结构刚性好，强度高，稳定性强。

电控系统

EBZ135掘进机采用隔爆及本质安全型开关箱和本质安全型操作箱，体积小、重量轻、操作灵活、安全可靠；主要控制器安装在一个封闭的壳体内，有效屏蔽电磁干扰；液晶屏幕工况显示，操作界面菜单式，参数设置灵活安全；具有过压、电机过载、缺相、短路、超温、漏电闭锁等功能。

液压系统

EBZ135型掘进机液压系统采用恒功率、压力切断、负载敏感控制，主要液压元件均采用国际知名品牌。

切割头

切割头采用仿真技术进行优化，截齿采用美国凯南麦特公司的产品，布置合理，破岩能力强。

喷雾系统

EBZ135型掘进机喷雾系统具有内外喷雾，强化外喷雾，外喷雾形式设计合理。

第一运输机

第一运输机采用平直结构，与铲板搭接顺畅，运输通畅。

行走机构

行走驱动系统采用国际先进技术的马达和减速机的高度集成，输出扭矩大，适应大倾角作业。

如果运输中重量或总高有限制，可拆解运输。

EBZ135 roadheader is designed as compact structure, low body, low center of gravity, easy operation, good working performance.

Electric control system

EBZ135 roadheader adopts flame proof and intrinsically safe switch box and control box with small size, light weight, flexible operation, which is safety and reliable; main controller is installed in a closed casing that can effectively block out electromagnetic interference; working condition is shown with LCD screen, menu mode is used for operating interface with flexible and safe parameter setting; it is equipped with functions such as overvoltage, motor overload, open-phase, short circuit, over temperature and earth leakage lockout.

Hydraulic system

The hydraulic system of EBZ75 roadheader adopts transfer case, several pumps control, with main hydraulic components coming from international brands.

Cutting head

The cutting head is optimized by utilizing simulation technique and picks come from Kennametal Co., Ltd. with reasonable layout and strong rock breaking capacity.

Spraying system

Spraying system of EBZ135 roadheader include inside and outside spray systems, of which the front is after-pick spraying which is used to strength outside spraying, the latter is reasonable in design and equipped with leakage detection function.

First freighter

Straight structure is adopted for first freighter, which can achieve smooth lapping with hauler bed and transportation.

Traveling mechanism

The traveling mechanism is a high integration of internationally advanced motor and reducer, whose big output torque can adapt to operations with large dip angle.

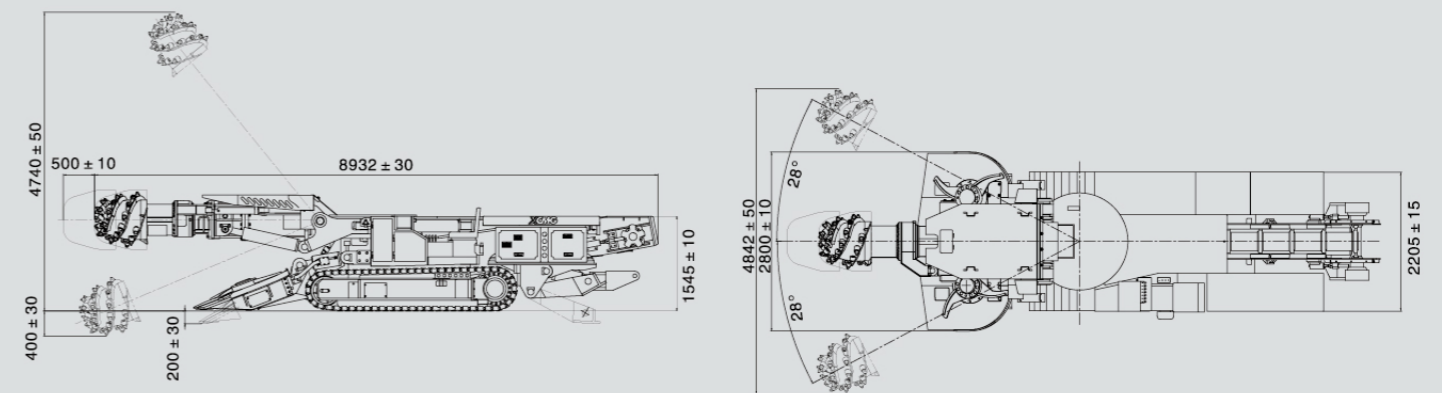
If there is limit for weight or total weight during transportation, it can be disassembled for transportation.



主要技术参数

Main Technical Specification

项目 Items		参数 parameter	
整机质量 Overall weight		43t	
外形尺寸 Overall dimension	长 length	8932mm	
	宽 Width	铲板 Hauler bed	2800/2400mm
		机身 Main body	2205mm
	高 Height	截割头水平放置最高点 Cutting head is laid horizontally on the highest point	1862mm
		机身 Main body	1545mm
	卧底深度(伸缩/不伸缩) Dinting undercut	400/200mm	
	地隙 Ground clearance of machine	180mm	
	定位切割范围 Range of positioning cutting	高度(伸缩/不伸缩) Height	4740/4350mm
		宽度(伸缩/不伸缩) Width	4842/4670mm
		面积(伸缩/不伸缩) Area	23/20m ²
	龙门高度 mm gantry height	420mm	
最大经济切割煤岩抗压强度 Compressure strength of coal petrography to be cut		≤70/60MPa	
爬坡能力 Climbing capacity		±18°	
行走速度 Travelling speed		6m/min	
接地比压 Grounding pressure		0.131MPa	
总功率 Gross power		225kW	
切割电机功率 Power of Cutting motor		135kW	
泵站电机功率 Power of pumping stations motor		75kW	
供电电压 Supply voltage		AC1140/660V	
供电频率 Frequency of supply		50Hz	
切割头转速 Rotation speed of cutting head		38r/min	
装载能力 Loading capacity		星轮式 Star wheel type/4.32 m ³ /min	
履带宽度 Crawler width		520mm	
履带外宽 Out. width of crawlers		2205mm	
涨紧形式 Tensioning style		油缸涨紧、卡板锁紧 Cylinder tensioning and snap-gauge locking	
喷雾水压 Water pressure of spraying		外喷雾水压 Water pressure of outside spraying ≥1.5MPa 内喷雾水压 Water pressure of inside spraying ≥3MPa	
最大不可拆卸件尺寸 Max. non-removable parts size		3.41 × 1.38 × 1.28m	
最大不可拆卸件质量 Max. non-removable parts mass		5340kg	



EBZ135L 掘进机

SERIES ROADHEADER

EBZ135L型掘进机机身矮、重心低，爬坡能力强，整机结构刚性好，强度高，稳定性强。

电控系统

EBZ135L掘进机采用隔爆及本质安全型开关箱和本质安全型操作箱，体积小、重量轻、操作灵活、安全可靠；主要控制器安装在一个封闭的壳体内，有效屏蔽电磁干扰；液晶屏幕工况显示，操作界面菜单式，参数设置灵活安全；具有过压、电机过载、缺相、短路、超温、漏电闭锁等功能。

液压系统

EBZ135L型掘进机液压系统采用恒功率、压力切断、负载敏感控制，主要液压元件均采用国际知名品牌。

切割头

切割头采用仿真技术进行优化，截齿采用美国凯南麦特公司的产品，布置合理，破岩能力强。

喷雾系统

EBZ135L型掘进机喷雾系统具有内外喷雾，强化外喷雾，外喷雾形式设计合理。

第一运输机

第一运输机采用平直结构，与铲板搭接顺畅，运输通畅。

行走机构

行走驱动系统采用国际先进技术的马达和减速机的高度集成，输出扭矩大，适应大倾角作业。

如果运输中重量或总高有限制，可拆解运输。

EBZ135L roadheader is designed as compact structure, low body, low center of gravity, easy operation, good stability.

Electric control system

EBZ135L roadheader adopts flame proof and intrinsically safe switch box and control box with small size, light weight, flexible operation, which is safety and reliable; main controller is installed in a closed casing that can effectively block out electromagnetic interference; working condition is shown with LCD screen, menu mode is used for operating interface with flexible and safe parameter setting; it is equipped with functions such as overvoltage, motor overload, open-phase, short circuit, over temperature and earth leakage lockout.

Hydraulic system

The hydraulic system of EBZ75 roadheader adopts transfer case, several pumps control, with main hydraulic components coming from international brands.

Cutting head

The cutting head is optimized by utilizing simulation technique and picks come from Kennametal Co., Ltd. with reasonable layout and strong rock breaking capacity.

Spraying system

Spraying system of EBZ135L roadheader include inside and outside spray systems, of which the front is after-pick spraying which is used to strength outside spraying, the latter is reasonable in design and equipped with leakage detection function.

First freighter

Straight structure is adopted for first freighter, which can achieve smooth lapping with hauler bed and transportation.

Traveling mechanism

The traveling mechanism is a high integration of internationally advanced motor and reducer, whose big output torque can adapt to operations with large dip angle.

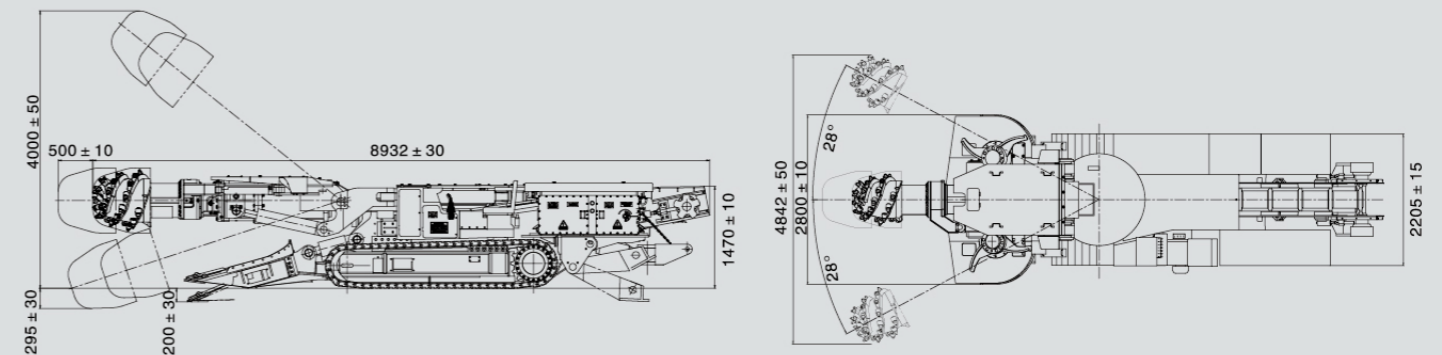
If there is limit for weight or total weight during transportation, it can be disassembled for transportation.



主要技术参数

Main Technical Specification

项目 Items		参数 parameter	
整机质量 Overall weight		42t	
外形尺寸 Overall dimension	长 length	8932mm	
	宽 Width	铲板 Hauler bed 机身 Main body	2800mm 2205mm
	高 Height	截割头水平放置最高点 Cutting head is laid horizontally on the highest point 机身 Main body	1600mm 1470mm
	卧底深度 Dinting undercut		295mm
	地隙 Ground clearance of machine		180mm
	定位切割范围 Range of positioning cutting	高度 Height	4000mm
		宽度 Width	4842mm
		面积 Area	19.4m ²
		龙门高度 mm gantry height (mm)	370mm
		最大经济切割煤岩抗压强度 Compressive strength of coal petrography to be cut	≤70/60MPa
爬坡能力 Climbing capacity		±18°	
行走速度 Travelling speed		6m/min	
接地比压 Grounding pressure		0.131MPa	
总功率 Gross power		225kW	
切割电机功率 Power of Cutting motor		135kW	
泵站电机功率 Power of pumping stations motor		75kW	
供电电压 Supply voltage		AC1140/660V	
供电频率 Frequency of supply		50Hz	
切割头转速 Rotation speed of cutting head		38r/min	
装载能力 Loading capacity		星轮式 Star wheel type/4.32 m ³ /min	
履带宽度 Crawler width		520mm	
履带外宽 Out. width of crawlers		2205mm	
涨紧形式 Tensioning style		油缸涨紧、卡板锁紧 Cylinder tensioning and snap-gauge locking	
喷雾水压 Water pressure of spraying		外喷雾水压 Water pressure of outside ≥1.5MPa 内喷雾水压 Water pressure of inside spraying ≥3MPa	
最大不可拆卸件尺寸 Max. non-removable parts size		3.41 × 1.38 × 1.33m	
最大不可拆卸件质量 Max. non-removable parts mass		4700kg	



EBZ160 掘进机

SERIES ROADHEADER

EBZ160型掘进机重心低，机器稳定性好，整机结构刚性好，可靠性高。

电控系统

EBZ160掘进机采用隔爆及本质安全型开关箱和本安型操作箱，体积小、重量轻、操作灵活、安全可靠；主要控制器安装在一个封闭的壳体内，有效屏蔽电磁干扰；液晶屏幕工况显示，操作界面菜单式，参数设置灵活安全；具有过压、电机过载、缺相、短路、超温、漏电闭锁等功能。

液压系统

EBZ160型掘进机液压系统采用恒功率、压力切断、负载敏感控制，主要液压元件均采用国际知名品牌。

切割头

切割头采用仿真技术进行优化，截齿采用美国凯南麦特公司的产品，布置合理，破岩能力强。

喷雾系统

EBZ160型掘进机喷雾系统具有内外喷雾，强化外喷雾，外喷雾形式设计合理。

第一运输机

第一运输机采用平直结构，与铲板搭接顺畅，运输通畅。

行走机构

行走驱动系统采用国际先进技术的马达和减速机的高度集成，输出扭矩大，适应大倾角作业。

如果运输中重量或总高有限制，可拆解运输。



EBZ160 is designed as compact structure, low body, low center of gravity, easy operation, reliability.

Electric control system

EBZ160 roadheader adopts flame proof and intrinsically safe switch box and control box with small size, light weight, flexible operation, which is safety and reliable; main controller is installed in a closed casing that can effectively block out electromagnetic interference; working condition is shown with LCD screen, menu mode is used for operating interface with flexible and safe parameter setting; it is equipped with functions such as overvoltage, motor overload, open-phase, short circuit, over temperature and earth leakage lockout.

Hydraulic system

The hydraulic system of EBZ160 roadheader adopts constant power, pressure cut-off and load sensitive control, with all hydraulic components coming from international brands.

Cutting head

The cutting head is optimized by utilizing simulation technique and picks come from Kennametal Co., Ltd. with reasonable layout and strong rock breaking capacity.

Spraying system

Spraying system of EBZ160 roadheader include inside and outside spray systems, of which the front is after-pick spraying which is used to strength outside spraying, the latter is reasonable designed.

First freighter

Straight structure is adopted for first freighter, which can achieve smooth lapping with hauler bed and transportation.

Traveling mechanism

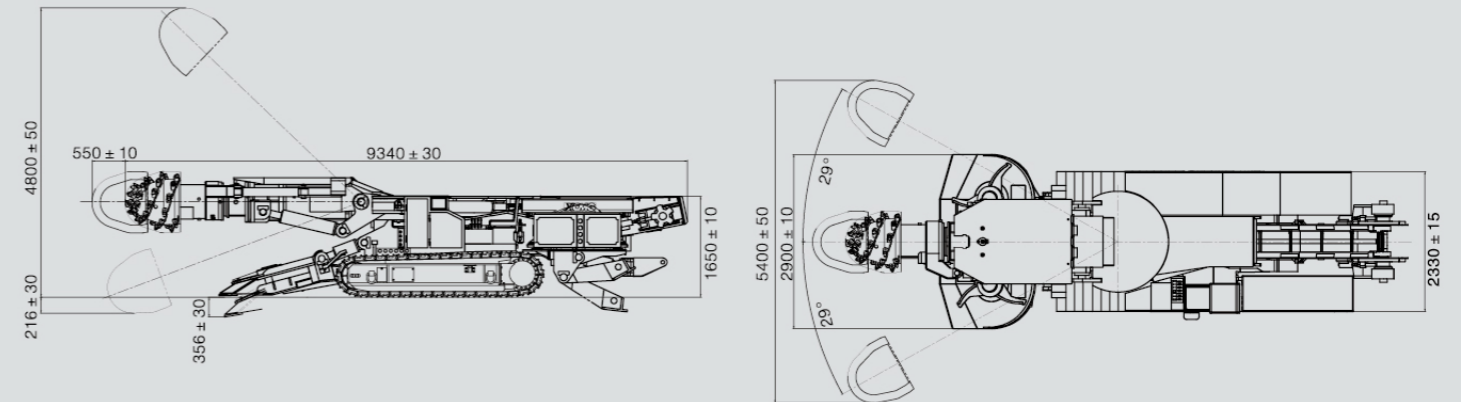
The traveling mechanism is a high integration of internationally advanced motor and reducer, whose big output torque can adapt to operations with large dip angle.

If there is limit for weight or total weight during transportation, it can be disassembled for transportation.

主要技术参数

Main Technical Specification

项 目 Items	参数 parameter		
整机质量 Overall weight	47t		
外形尺寸 Overall dimension	长 length	9340mm	
	宽 Width	铲板 Hauler bed 机身 Main body	2900mm/2500mm 2330mm
	高 Height	切割头水平放置最高点 Cutting head is laid horizontally on the highest point 机身 Main body	2007mm 1650mm
	地隙 Ground clearance of machine	216/200mm	
	定位切割范围 Range of positioning cutting	高度(伸缩/不伸缩) Height (telescopic/contracted) 宽度(伸缩/不伸缩) Width (telescopic/contracted) 面积(伸缩/不伸缩) Area (telescopic/contracted)	4800/4770mm 5400/5250mm 26/25m ²
	龙门高度 mm gantry height (mm)	400mm	
	最大经济切割煤岩抗压强度 Maximum economic compressive strength of coal petrography to be cut	≤80/60MPa	
	爬坡能力 Climbing capacity	±18°	
	行走速度 Travelling speed	6.5m/min	
	最小通过转弯半径	5247mm	
接地比压 Grounding pressure	0.148MPa		
总功率 Gross power	265kW		
切割电机功率 Power of Cutting motor	160/80kW		
泵站电机功率 Power of pumping stations motor	90kW		
供电电压 Supply voltage	AC1140/660V		
供电频率 Frequency of supply	50Hz		
切割头转速 Rotation speed of cutting head	48/24r/min		
装载能力 Loading capacity	星轮式 Star wheel type/4.32 m ³ /min		
履带宽度 Crawler width	520mm		
履带外宽 Out. width of crawlers	2330mm		
涨紧形式 Tensioning style	油缸涨紧、卡板锁紧 Cylinder tensioning and snap-gauge locking		
喷雾水压 Water pressure of spraying	外喷雾水压 Water pressure of outside spraying ≥1.5MPa 内喷雾水压 Water pressure of inside spraying ≥3MPa		
最大不可拆卸件尺寸 Max. non-removable parts size	3.38 × 1.20 × 1.52m		
最大不可拆卸件质量 Max. non-removable parts mass	5500kg		



EBZ200A 掘进机

SERIES ROADHEADER

EBZ200A型掘进机配置高，可靠性好，重心低，机器稳定性好。

电控系统

EBZ200A掘进机采用隔爆及本质安全型开关箱和本安型操作箱，体积小、重量轻、操作灵活、安全可靠；主要控制器安装在一个封闭的壳体内，有效屏蔽电磁干扰；液晶屏幕工况显示，操作界面菜单式，参数设置灵活安全；具有过压、电机过载、缺相、短路、超温、漏电闭锁等功能。

液压系统

EBZ200A型掘进机液压系统采用恒功率、压力切断、负载敏感控制，主要液压元件均采用国际知名品牌。

切割头

切割头采用仿真技术进行优化，截齿采用美国凯南麦特公司的产品，布置合理，破岩能力强。

喷雾系统

EBZ200A型掘进机喷雾系统具有内外喷雾，强化外喷雾，外喷雾形式设计合理。

第一运输机

第一运输机平直结构，与铲板构成四连杆滑移，铲板抬起或卧底时第一运输机刮板链长度变化小。

行走机构

行走驱动系统采用国际先进技术的马达和减速机的高度集成，输出扭矩大，适应大倾角作业。
如果运输中重量或总重有限制，可拆解运输。

EBZ200A is designed as compact structure, low body, low center of gravity, easy operation, stability.

Electric control system

EBZ200A roadheader adopts flame proof and intrinsically safe switch box and control box with small size, light weight, flexible operation, which is safety and reliable; main controller is installed in a closed casing that can effectively block out electromagnetic interference; working condition is shown with LCD screen, menu mode is used for operating interface with flexible and safe parameter setting; it is equipped with functions such as overvoltage, motor overload, open-phase, short circuit, over temperature and earth leakage lockout.

Hydraulic system

The hydraulic system of EBZ200A roadheader adopts constant power, pressure cut-off and load sensitive control, with all hydraulic components coming from international brands.

Cutting head

The cutting head is optimized by utilizing simulation technique and picks come from Kennametal Co., Ltd. with reasonable layout and strong rock breaking capacity.

Spraying system

Spraying system of EBZ200A roadheader include inside and outside spray systems, of which the front is after-pick spraying which is used to strength outside spraying, the latter is reasonable designed.

First freighter

Straight structure is adopted for first freighter, which can achieve smooth lapping with hauler bed and transportation.

Traveling mechanism

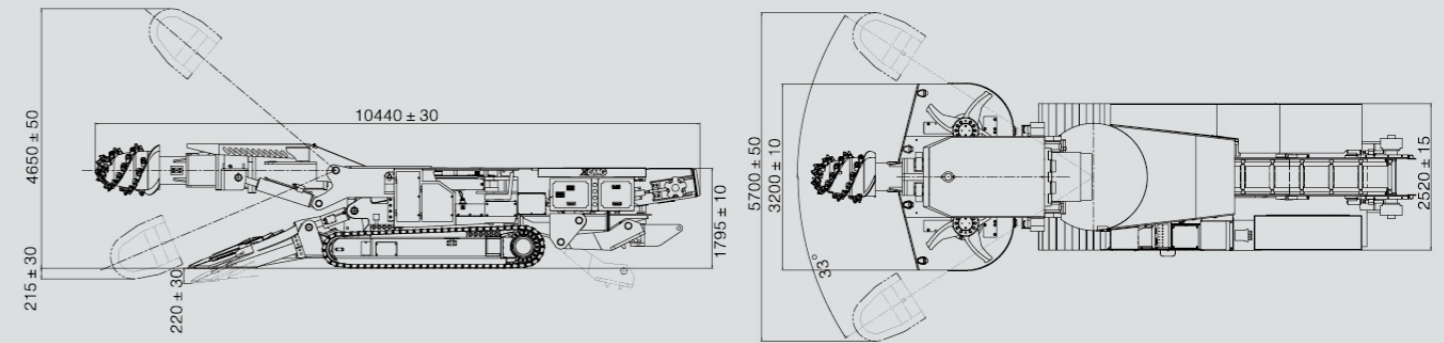
The traveling mechanism is a high integration of internationally advanced motor and reducer, whose big output torque can adapt to operations with large dip angle.

If there is limit for weight or total weight during transportation, it can be disassembled for transportation.



主要技术参数 Main Technical Specification

项 目 Items	参数 parameter	
整机质量 Overall weight	58t	
外形尺寸	长 length	10440mm
	宽 铲板 Hauler bed	3200/2800mm
	Width 机身 Main body	2520mm
	高 切割头水平放置最高点 Cutting head is laid horizontally on the highest point	2215mm
	Height 机身 Main body	1795mm
	卧底深度(伸缩/不伸缩) Dinting undercut (telescopic/contracted)	440/215mm
	地隙 Ground clearance of machine	250mm
	定位切割范围 高度(伸缩/不伸缩) Height (telescopic/contracted)	5030/4650mm
	Range of positioning cutting 宽度(伸缩/不伸缩) Width (telescopic/contracted)	6260/5700mm
	面积(伸缩/不伸缩) Area (telescopic/contracted)	31.5/26.4m ²
龙门高度 mm gantry height (mm)	400mm	
最大经济切割煤岩抗压强度 Maximum/economic compressive strength of coal petrography to be cut	≤90/70MPa	
爬坡能力 Climbing capacity	±18°	
行走速度 Travelling speed	7m/min	
接地地压 Grounding pressure	0.132MPa	
总功率 Gross power	325kW	
切割电机功率 Power of Cutting motor	200/110kW	
泵站电机功率 Power of pumping stations motor	110kW	
供电电压 Supply voltage	AC1140V	
供电频率 Frequency of supply	50Hz	
切割头转速 Rotation speed of cutting head	46/23r/min	
装载能力 Loading capacity	星轮式 Star wheel type/4.2 m ³ /min	
履带宽度 Crawler width	600mm	
履带外宽 Out. width of crawlers	2520mm	
涨紧形式 Tensioning style	油缸涨紧、卡板锁紧 Cylinder tensioning and snap-gauge locking	
喷雾水压 Water pressure of spraying	外喷雾水压 Water pressure of outside spraying	≥1.5MPa
	内喷雾水压 Water pressure of inside spraying	≥3MPa
最大不可拆卸件尺寸 Max. non-removable parts size	3.125 × 1.39 × 1.41m	
最大不可拆卸件质量 Max. non-removable parts mass	5900kg	



EBZ200R 掘进机

SERIES ROADHEADER

EBZ200R悬臂式掘进机是集切割、装运、喷雾灭尘为一体的硬岩型掘进设备，适用于半煤岩及全岩巷施工。整机配置高，关键部件相连使用防松连接，安全可靠。

电控系统

电控设备主要由KJZ-400/1140(660)E-4矿用隔爆兼本质安全型开关箱、CXH4-4/12E矿用本质安全型操作箱、切割电机、油泵电机、二运电机、风机电机、低浓度甲烷传感器、温度传感器、压力传感器等组成。主要用于控制掘进机的各电机的启动、停止；提供控制信号并具有低压漏电保护功能；对电机及油箱油位油温进行监控和保护，显示各电机运行状态、及各种故障信息。

液压系统

液压系统采用恒功率、压力切断、负载敏感控制，使用旁通过滤技术有效提高液压元件寿命，降低系统故障。主要液压元件均采用国际知名品牌。

除尘喷雾系统

采用环形三层水幕除尘，有效起到冷却及灭尘作用；预留风机安装位置，选配长压短抽通风除尘系统。

切割机构

选用小直径硬岩切割头，山特维克硬岩截齿布置合理，破岩能力强。

铲板总成

主侧铲板采用防松连接，上面板采用可更换信铬钢高强耐磨板，更好地适应硬岩工况，提高使用寿命。

两种装载宽度可选，以适应不同的巷道要求。

行走机构

采用进口大排量液压马达和减速机，行走驱动力较同类产品领先，采用支重轮滚动式行走，以提高行走能力。

EBZ200R Cantilever Roadheader is equipped with cutting structure, freighter, anti-dusting system, adaptable for working to coal-rock and rock. Stable and safe components are used to prevent loose.

Electronic control system

EBZ200R Cantilever Roadheader is mainly composed by KJZ-400/1140(660)E-4 (200R) Mine explosion-proof and intrinsically safe switch box, CXH4-4/12E Mine intrinsically safe operation box, cutting machine, the oil pump motor, 2nd freighter motor, fan motor, Low concentration of methane sensor, temperature sensor, and pressure sensor. Start and off of different motors, low voltage electric leakage protection function; offering monitoring and protection to electrical insulation, oil level, and oil temperature. At the same time, it displays trouble information motor running state, and all kinds of fault information.

hydraulic system

Hydraulic system with constant power, pressure cut off and load sensitive control, and by pass filter technology improve the service time of hydraulic components. Main hydraulic components are all from international famous brands.

Anti-dusting spray system

Dusting spray system uses efficient annular three layers of water curtain. Reserve installation pace for fan and optional strong pressure and quick absorb anti dusting system.

Cutting structure

The cutting head adopts minor diameter for hard rock, Sandvik hard rock cutting teeth are reasonably laid out and with high ability of breaking.

Shovel plate assembly

Main shovel plate adopts anti-loose connection, the upper plate uses changeable wear-resisting material from SAS Global Corporation to adapt to hard rock construction and prolong its service life. Two different kinds of loading width are designed to different roadways.

Traveling

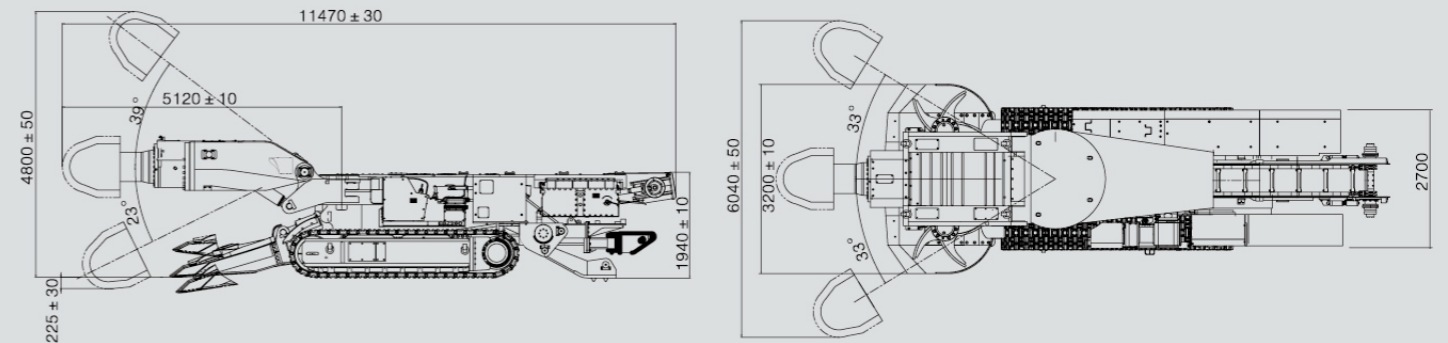
Use imported large emission hydraulic motor, advanced traveling driving force for we use track roller running method to improve traveling ability.



主要技术参数

Main Technical Specification

项目 Items	参数 parameter	
整机质量 Overall weight	80t	
外形尺寸 Overall dimension	长 length	11470mm
	宽 Width	铲板 Hauler bed 3200/3600/3000/2800mm 机身 Main body 2700mm
	高 Height	切割头水平放置最高点 Cutting head is laid horizontally on the highest point 2345mm 机身 Main body 1940mm
	卧底深度 Dinting undercut	225mm
	地隙 Ground clearance of machine	220mm
	定位切割范围 Range of positioning cutting	高度 Height 4800mm 宽度 Width 6040mm
	面积 Area	29m ²
	龙门高度 mm gantry height (mm)	400mm
	最大/经济切割煤岩抗压强度 Maximum/economic compressive strength of coal petrography to be cut	≤100/80MPa
	爬坡能力 Climbing capacity	±18°
行走速度 Travelling speed	7m/min	
接地地压 Grounding pressure	0.15MPa	
总功率 Gross power	387kW	
切割电机功率 Power of Cutting motor	200/150kW	
泵站电机功率 Power of pumping stations motor	132kW	
供电电压 Supply voltage	AC1140V	
供电频率 Frequency of supply	50Hz	
切割头转速 Rotation speed of cutting head	46/23r/min	
装载能力 Loading capacity	星轮式 Star wheel type/4.3 m ³ /min	
履带宽度 Crawler width	650mm	
履带外宽 Out. width of crawlers	2700mm	
涨紧形式 Tensioning style	油缸涨紧、卡板锁紧 Cylinder tensioning and snap-gauge locking	
喷雾水压 Water pressure of spraying	外喷雾水压 Water pressure of outside spraying ≥2.5MPa 内喷雾水压 Water pressure of inside spraying ≥3MPa	
最大不可拆卸件尺寸 Max. non-removable parts size	3.68 × 1.39 × 1.48m	
最大不可拆卸件质量 Max. non-removable parts mass	8500kg	



EBZ230 掘进机

SERIES ROADHEADER

EBZ230悬臂式掘进机整机配置高，机器稳定性好，安全可靠。采用大功率的油泵电机和进口液压元件，保证液压系统的可靠性。使用自动集中润滑及可调式减震座椅突显人性化设计，提高操作及维护方便性。

电控系统

主要用于控制掘进机的各电机的启动、停止；提供控制信号并具有低压漏电保护功能；对电机及油箱油位油温进行监控和保护，显示各电机运行状态、及各种故障信息。

液压系统

液压系统采用恒功率、压力切断、负载敏感控制，使用旁通过滤技术有效提高液压元件寿命，降低系统故障。主要液压元件均采用国际知名品牌。

喷雾系统

除尘喷雾系统采用环形三层水幕除尘，分内、外喷雾水路。有效起到冷却及灭尘作用。

切割机构

切割机构由切割头、切割臂、切割减速机、电机箱体及切割电机组成。切割头采用仿真技术优化设计，外形为圆锥台形结构，截齿采用美国凯南麦特产品。布置合理，破岩能力强。

第一运输机

双摇杆随动机构实现运输机前溜槽与铲板后溜槽的平滑连接。驱动装置采用液压马达直接驱动链轮，实现物料运输。张紧装置采用油缸卡板张紧的结构，对刮板链的松紧程度进行调整。

行走机构

行走机构采用进口液压马达和减速机，输出扭矩大，爬坡能力强；支重形式采用支重轮滚动式，以提高行走能力。



EBZ230 Cantilever Roadheader is stable and reliable by high configuration, stability, high-power oil pump motor, imported hydraulic components. Automatic centralization lubrication system and adjustable suspension seat are humanization to improve operation and maintenance.

Electronic control system

Start and off of all motors, oil level sensor and gas sensor control signal and has low voltage electric leakage protection function. At the same time, it displays trouble information motor running state and all kinds of fault information.

hydraulic system

The hydraulic system adopts constant power, pressure cut-off and load sensitive control, with all hydraulic components coming from international brands.

Anti-dusting spray system

Dusting spray system uses efficient annular three layers of water curtain.

Cutting structure

Cutting structure is composed of cutting head, cutting arm, cutting reducer, electric machine box, and cutting electric machine. The cutting head adopts minor diameter hard rock way with cone shape, and 74 cutting teeth are spiraled arranged around the circumference. Kennamatt and Sandvik hard rock cutting teeth are used with high ability of breaking.

The first freighter

Double rocker sliding mechanism connect front chute and rear chute. Hydraulic motor direct drive sprockets mobilizes scraper chains to transport materials. Tension device is equipped with oil cylinder tensioning to adjust scraper chain.

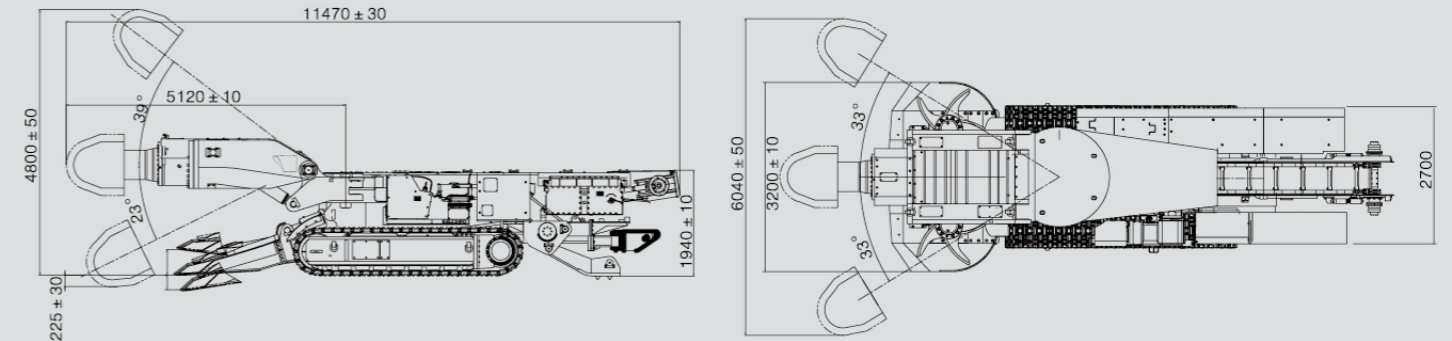
Traveling

Use imported large emission hydraulic motor, advanced traveling driving force for we use track roller running method to improve traveling ability.

主要技术参数

Main Technical Specification

项目 Items	参数 parameter		
整机质量 Overall weight	80t		
外形尺寸 Overall dimension	长 length	11470mm	
	宽 Width	铲板 Hauler bed 3200/3600/3000/2800mm 机身 Main body 2700mm	
	高 Height	截割头水平放置最高点 Cutting head is laid horizontally on the highest point 2345mm 机身 Main body 1940mm	
	卧底深度 Dinting undercut	225mm	
	地隙 Ground clearance of machine	220mm	
	定位切割范围 Range of positioning cutting	高度 Height	4800mm
		宽度 Width	6040mm
	面积 Area	29m ²	
	龙门高度 mm gantry height (mm)	400mm	
	最大经济切割煤岩抗压强度 Maximum economic compressive strength of coal petrography to be cut	≤ 100/85MPa	
爬坡能力 Climbing capacity	± 18°		
行走速度 Travelling speed	7m/min		
接地比压 Grounding pressure	0.15MPa		
总功率 Gross power	417kW		
切割电机功率 Power of Cutting motor	230/150kW		
泵站电机功率 Power of pumping stations motor	132kW		
供电电压 Supply voltage	AC1140V		
供电频率 Frequency of supply	50Hz		
切割头转速 Rotation speed of cutting head	46/23r/min		
装载能力 Loading capacity	星轮式 Star wheel type/4.3 m ³ /min		
履带宽度 Crawler width	650mm		
履带外宽 Out. width of crawlers	2700mm		
张紧形式 Tensioning style	油缸张紧、卡板锁紧 Cylinder tensioning and snap-gauge locking		
喷雾水压 Water pressure of spraying	外喷雾水压 Water pressure of outside spraying	≥ 2.5MPa	
	内喷雾水压 Water pressure of inside spraying	≥ 3MPa	
最大不可拆卸件尺寸 Max. non-removable parts size	3.68 × 1.39 × 1.48m		
最大不可拆卸件质量 Max. non-removable parts mass	8500kg		



EBZ260 掘进机

SERIES ROADHEADER

EBZ260悬臂式掘进机由切割机构、铲板总成、第一运输机、本体总成、行走机构、后支承、操纵台、液压系统、除尘喷雾系统、电气系统、润滑系统、护板、标识与涂装构成。整机功率大，配置高，安全可靠。配置的切割电机和油泵电机均为适于矿井使用的隔爆型三相异步电动机。采用自动集中润滑，提高机器使用寿命。配置可调式减震座椅，坐靠舒适耐用。

电控系统

电控设备主要由KJZ-400/1140(660)E-4矿用隔爆兼本质安全型开关箱、CXH4-4/12E矿用本质安全型操作箱、切割电机、油泵电机、二运电机、风机电机、低浓度甲烷传感器、温度传感器、压力传感器等组成。主要用于控制掘进机的各电机的启动、停止；提供控制信号并具有低压漏电保护功能；对电机及油箱油位油温进行监控和保护，显示各电机运行状态、及各种故障信息。

液压系统

EBZ260悬臂式掘进机液压系统采用恒功率、压力切断、负载敏感控制，率先在掘进机上使用旁通过滤技术解决了全流量吸油过滤器和回油过滤器无法去除的很多细微污染物，保证了液压油清洁度。有效提高液压元件寿命，降低系统故障。主要液压元件均采用国际知名品牌。

除尘喷雾系统

EBZ260悬臂式掘进机除尘喷雾系统采用环形三层水幕除尘，分内、外喷雾水路。外来水经一级过滤后分为二路，第一路经球阀、二级过滤、减压阀直接通往切割机构，由切割头内喷雾喷嘴喷出，起到冷却截齿及灭尘作用。第二路经球阀、二级过滤、减压阀、水冷却器（冷却液系统用油）及切割电机（冷却切割电机）后再分为二路，一路通往喷水架，由外喷雾喷嘴喷出；另一路通往风机。

切割机构

切割机构由切割头、切割臂、切割减速机、电机箱体及切割电机组成。切割头采用仿真技术优化设计，外形为圆锥台形结构，在其圆周螺旋分布74把截齿，截齿采用美国凯南麦特产品。布置合理，破岩能力强。

铲板总成

铲板总成是由主铲板、侧铲板、左右驱动装置、从动轮装置等组成。通过两个低速大扭矩液压马达直接驱动弧形五齿星轮，把切割下来的物料装到第一运输机内。

第一运输机

第一运输机位于机体中部，由前溜槽、后溜槽、驱动装置、张紧装置组成。运输机前溜槽通过销轴与铲板相连，后溜槽通过销轴和摇杆与后支承相连，构成双摇杆滑移机构，铲板转动时第一运输机实现随动。采用液压马达直接驱动链轮，带动刮板链组实现物料运输。张紧装置采用油缸卡板张紧的结构，对刮板链的松紧程度进行调整。

行走机构

行走机构主要由定量液压马达、减速机、履带链、张紧装置、履带架等组成。定量液压马达通过减速机及驱动轮带动履带链实现行走。支重形式采用支重轮滚动式，以提高行走能力。

安全装置

具备总急停按钮、切割急停按钮、切割启动预警、漏电流保护和低压漏电保护、电机温度、过载、过流保护、电机三相不平衡及断相保护、系统、过电压、欠电压保护、瓦斯闭锁保护、油箱油位、油温保护等功能。

EBZ260 Cantilever Roadheader is equipped with cutting structure, Shovel plate assembly, first freighter, machine assembly, traveling, rear bearing, operation platform, hydraulic system, anti-dusting spray system, electronic system, lubrication system, guard board, logo and painting, to be stable and excellent. Cutting machine and oil pump motor are suitable for flame-proof type three-phase asynchronous motor. Automatic centralization lubrication system can extend service time of the device. Suspension seat makes operator more comfortable.

Electronic control system
EBZ260 Cantilever Roadheader is mainly composed by KJZ-400/1140(660)E-4 (200R) Mine explosion-proof and intrinsically safe switch box, CXH4-4/12E Mine intrinsically safe operation box, cutting machine, the oil pump motor, 2nd freighter motor, fan motor, Low concentration of methane sensor, temperature sensor, and pressure sensor. Start and off of different motors, low voltage electric leakage protection function; offering monitoring and protection to electrical insulation, oil level, and oil temperature. At the same time, it displays trouble information motor running state, and all kinds of fault information.

hydraulic system
Hydraulic system with constant power, pressure cut off and load sensitive control, and by pass filter technology removes subtle pollutants of full flow oil filter and oil filter, which ensures the cleanness of the hydraulic oil, effectively improve the service time of hydraulic components. Ingersoll Rand pneumatic tankers is to ensure the clearance of hydraulic oil. Main hydraulic components are all from international famous brands.

Anti-dusting spray system
Dusting spray system uses annular three layers of water curtain by inner and outer water spray. After primary filtration, outer water is be divided into two ways, the first water flow is to cutting structure by ball valve, the secondary filter and pressure reducing valve, and sprayed by inner cutting head to cool and proof dust. The second water flow cross ball valve, the secondary filter and pressure reducing valve, water cooling and cutting motor to water spray and fan motor.

Cutting structure
Cutting structure is composed of cutting head, cutting arm, cutting reducer, electric machine box, and cutting electric machine.

The cutting head adopts minor diameter hard rock way with cone shape, and 74 cutting teeth are spiraled arranged around the circumference. Kennamatt and Sandvik hard rock cutting teeth are used with high ability of breaking.

Shovel plate assembly
Shovel plate assembly is composed of main shovel plate, side shovel plate, left and right drive appliances, driven wheel appliance. Two low speed large torque hydraulic motors directly drive arc five tooth star wheel to fill the first freighter with things been cut down.

The first freighter
The first freighter locates in the middle of the machine and is composed of front chute, rear chute, drive device, and tension device. The front chute is connected by pin roll and shuttle plate. The rear chute is connected by pin, rocker and rear bearing to form double rocker sliding mechanism, and the first freighter achieves being driven. Hydraulic motor direct drive sprockets mobilizes scraper chains to transport materials. Tension device is equipped with oil cylinder tensioning to adjust scraper chain.

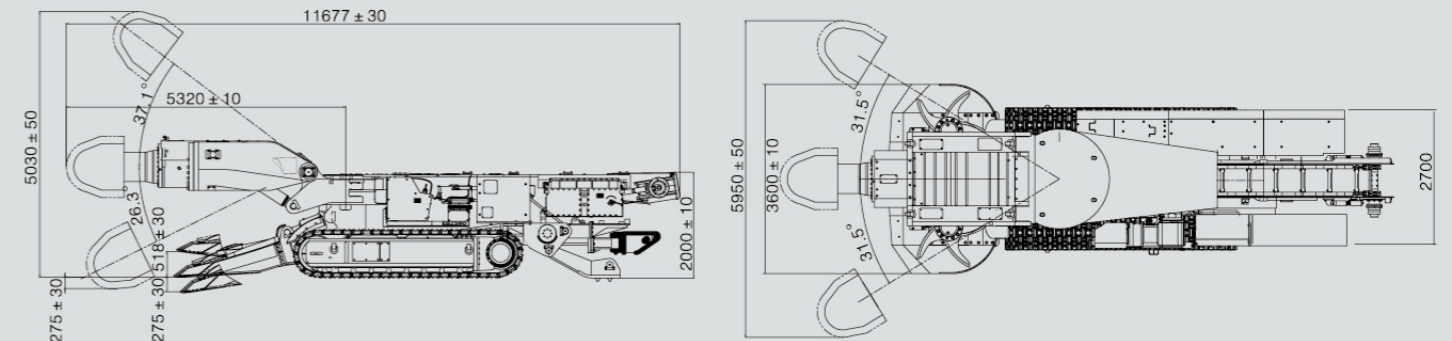
Traveling
Traveling mechanism is composed of ration hydraulic motor, reducer, chassis chain, tension device, chassis frame. Ration hydraulic motor travels by the way of reducer and driving wheels. Bearing way adopts rolling bearing wheels to improve walking ability.

safety
Total stop button ,Cutting stop button, Cutting start alarm, Electric leakage lockout and Low voltage electrical leakage protection, The motor temperature, overload, over-current protection, Motor three-phase unbalance and phase failure protection, Overvoltage, under voltage protection system, Gas blocking protection, Oil level, oil temperature protection.



主要技术参数 Main Technical Specification

项目 Items	参数 parameter	
整机质量 Overall weight	85t	
外形尺寸 Overall	长 length	11677mm
	宽 铲板 Hauler bed	3600/3200/3000/2800mm
	宽 机身 Main body	2700mm
	高 切割头水平位置最高点 Cutting head is laid horizontally on the highest point	2650mm
	高 机身 Main body	2000mm
	卧底深度 Dinting undercut	275mm
	地隙 Ground clearance of machine	260mm
	定位切割范围 高度 Height	5030mm
	Range of positioning cutting 宽度 Width	5950mm
	面积 Area	30m ²
龙门高度 mm gantry height (mm)	400mm	
最大经济切割煤岩抗压强度 Maximum economic compressive strength of coal petrography to be cut	≤ 110/90MPa	
爬坡能力 Climbing capacity	± 18°	
行走速度 Travelling speed	7m/min	
接地比压 Grounding pressure	0.165MPa	
总功率 Gross power	447kW	
切割电机功率 Power of Cutting motor	260/200kW	
泵站电机功率 Power of pumping stations motor	132kW	
供电电压 Supply voltage	AC1140V	
供电频率 Frequency of supply	50Hz	
切割头转速 Rotation speed of cutting head	54/27r/min	
装载能力 Loading capacity	星轮式 Star wheel type/4.3 m ³ /min	
履带宽度 Crawler width	650mm	
履带外宽 Out. width of crawlers	2700mm	
涨紧形式 Tensioning style	油缸涨紧、卡板锁紧 Cylinder tensioning and snap-gauge locking	
喷雾水压 Water pressure of spraying	外喷雾水压 Water pressure of outside spraying	≥ 1.5MPa
	内喷雾水压 Water pressure of inside spraying	≥ 3MPa
最大不可拆卸件尺寸 Max. non-removable parts size	3.755 × 1.5 × 1.47m	
最大不可拆卸件质量 Max. non-removable parts mass	8700kg	



EBZ320 掘进机

SERIES ROADHEADER

EBZ320悬臂式掘进机整机配置高，机器稳定性好，安全可靠。采用大功率的油泵电机和进口液压元件，保证液压系统的可靠性。使用自动集中润滑及可调式减震座椅突显人性化设计，提高操作及维护方便性。

电控系统

EBZ320悬臂式掘进机电控设备主要由矿用隔爆兼本质安全型开关箱、矿用本质安全型操作箱、切割电机、油泵电机、二运电机、风机电机、低浓度甲烷传感器、温度传感器、压力传感器等组成。主要用于控制掘进机的各电机的启动、停止；提供控制信号并具有低压漏电保护功能；对电机及油箱油位油温进行监控和保护，显示各电机运行状态、及各种故障信息。

液压系统

EBZ320悬臂式掘进机液压系统采用恒功率、压力切断、负载敏感控制，使用旁通过滤技术有效提高液压元件寿命，降低系统故障。主要液压元件均采用国际知名品牌。

喷雾系统

EBZ320具有内外喷雾功能，高压内喷雾系统采用双道密封保护措施，新增文丘里喷嘴设计，除尘效果更佳。

切割机构

切割机构由切割头、切割臂、切割减速机、电机箱体及切割电机组成。切割头采用仿真技术优化设计，外形为圆锥台形结构，截齿采用凯南麦特或山特维克产品。布置合理，破岩能力强。

第一运输机

双摇杆随动机构实现运输机前溜槽与铲板后溜槽的平滑连接。驱动装置采用液压马达直接驱动链轮，实现物料运输。张紧装置采用油缸卡板张紧的结构，对刮板链的松紧程度进行调整。

行走机构

行走驱动系统采用国际知名品牌，有效地增大了设备的牵引力和爬坡能力。

润滑系统

润滑系统采用集中润滑，使定期润滑工作更便捷、更可靠。



EBZ320 Cantilever Roadheader is stable and reliable by high configuration, stability, high-power oil pump motor, imported hydraulic components. Automatic centralization lubrication system and adjustable suspension seat are humanization to improve operation and maintenance.

Electronic control system

EBZ320 Cantilever Roadheader is mainly composed by Mine explosion-proof and intrinsically safe switch box, Mine intrinsically safe operation box, cutting machine, the oil pump motor, 2nd freighter motor, fan motor, Low concentration of methane sensor, temperature sensor, and pressure sensor. Start and off of different motors, low voltage electric leakage protection function; offering monitoring and protection to electrical insulation, oil level, and oil temperature. At the same time, it displays trouble information motor running state, and all kinds of fault information.

hydraulic system

The hydraulic system adopts constant power, pressure cut-off and load sensitive control, with all hydraulic components coming from international brands.

Spraying system

Spraying system of EBZ320 roadheader include inside and outside spray systems, of which the front is after-pick spraying which is used to strength outside spraying, the latter is reasonable designed.

Cutting structure

Cutting structure is composed of cutting head, cutting arm, cutting reducer, electric machine box, and cutting electric machine. The cutting head adopts minor diameter hard rock way with cone shape, and 74 cutting teeth are spiraled arranged around the circumference. Kennan matt and Sandvik hard rock cutting teeth are used with high ability of breaking.

The first freighter

Double rocker sliding mechanism connect front chute and rear chute. Hydraulic motor direct drive sprockets mobilizes scraper chains to transport materials. Tension device is equipped with oil cylinder tensioning to adjust scraper chain.

Traveling mechanism

Traveling mechanism use international famous brand is to efficiently increase traction force and gradeability.

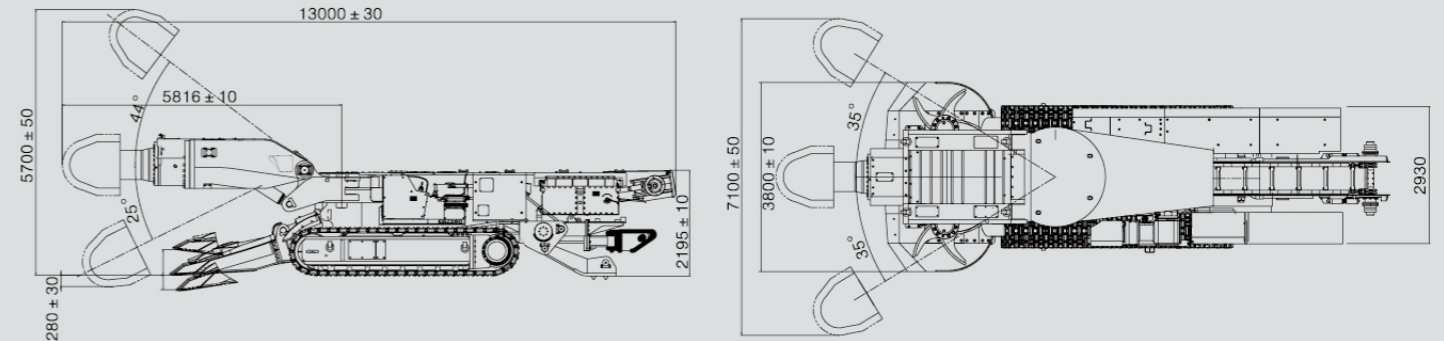
Lubrication system

Centralization lubrication makes lubricating work easier and more reliable.

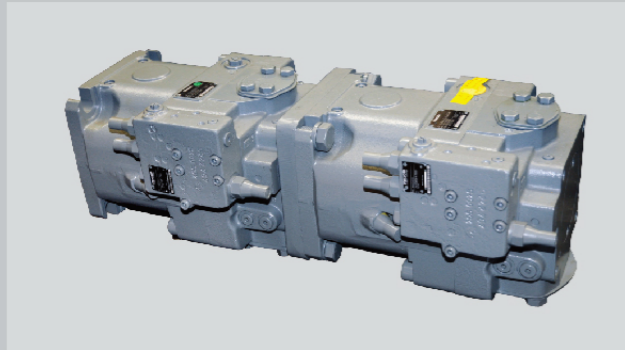
主要技术参数

Main Technical Specification

项目Items	参数parameter	
整机质量Overall weight	120t	
外形尺寸 Overall dimension	长length	13000mm
	宽 铲板 Hauler bed	3800mm
	Width 机身 Main body	3000mm
	高 截割头水平放置最高点Cutting head is laid horizontally on the highest point	2690mm
	Height 机身 Main body	2195mm
	卧底深度Dinting undercut	280mm
	地隙 Ground clearance of machine	290mm
	定位切割范围 高度 Height	5700mm
	Range of positioning cutting 宽度 Width	7100mm
	面积 Area	40.47m ²
龙门高度 mm gantry height (mm)	400mm	
最大经济切割煤岩抗压强度Maximum/economic compressive strength of coal petrography to be cut	≤ 130/100MPa	
爬坡能力 Climbing capacity	± 18°	
行走速度 Travelling speed	0~6.3/10m/min	
接地比压 Grounding pressure	0.165MPa	
总功率 Gross power	625kW	
切割电机功率 Power of Cutting motor	320kW	
泵站电机功率 Power of pumping stations motor	230kW	
供电电压 Supply voltage	AC1140V	
供电频率 Frequency of supply	50Hz	
切割头转速 Rotation speed of cutting head	31r/min	
装载能力 Loading capacity	星轮式Star wheel type/4.3 m ³ /min	
履带宽度 Crawler width	720mm	
履带外宽 Out. width of crawlers	2930mm	
张紧形式 Tensioning style	油缸张紧、卡板锁紧Cylinder tensioning and snap-gauge locking	
喷雾水压 Water pressure of spraying	外喷雾水压Water pressure of outside spraying	≥ 1.5MPa
	内喷雾水压Water pressure of inside spraying	≥ 10MPa
最大不可拆卸件尺寸 Max. non-removable parts size	3.4 × 1.5 × 1.7m	
最大不可拆卸件质量 Max. non-removable parts mass	10500kg	



技术特点 Technical features

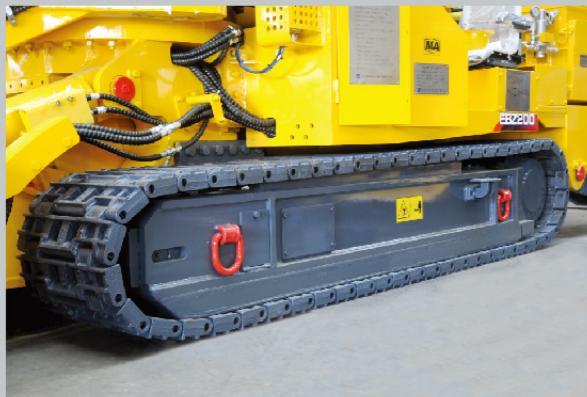


主泵 main pump

力士乐A11VO柱塞双泵，压力等级高。负载敏感泵，并带恒功率控制和压力切断，控制可选择性多，可满足不同需求。能为系统提供与负载相匹配的压力和流量，液压系统工作更稳定，效率更高。
Rexroth A11VO plunger pump, high pressure level. Load sensitive pump with constant power control and pressure to automatically cut off can meet different needs. Offer matched load pressure and flow, hydraulic system work more stably and efficiently.

手柄 Handle

力士乐片式手柄，采用渐进式控制，灵敏度高，有精确无游隙控制特征。手柄柱塞具有防锈特征，使用寿命长，操作感好，故障率低。
Rexroth chip controller, using progressive control with high sensitivity and precision without clearance control. Handle plunger is anti-rust, long service life, comfortable operation, low failure rate.



行走部 Traveling

行走驱动采用德国原装液压马达、减速机，牵引力大，爬坡能力强。高强度铸钢履带板，抗冲击性强。
Traveling driver uses German original hydraulic motor and reducer to offer big traction force and great climbing ability. High strength cast steel crawler plate and strong impact resistance.



主阀 Main valve

进口力士乐M4-15多路阀，采用为煤机行业专门设计的无铝方案。负载敏感阀，可为执行机构提供与负载压力无关的流量。每联阀带负载压力补偿器，控制精度高。整体采用模块化设计，维修方便。
Import rexroth M4-15 multi-way valve, specially designed without aluminum solution for coal industry. Load sensitive valve can provide flow has nothing to do with the load pressure. Valve is with load pressure compensator with high control precision. The overall adopts modular design and easy maintenance.

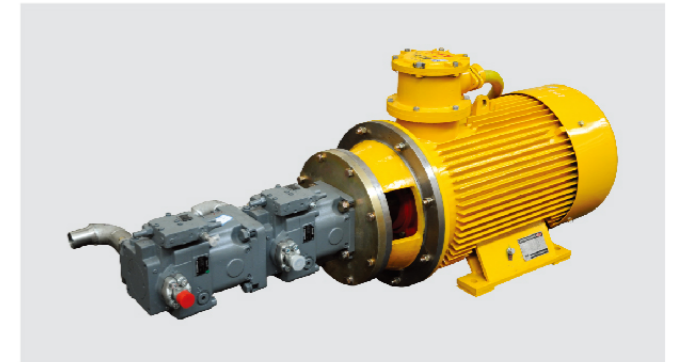


星轮马达 The star wheel motor

采用IAM系列径向活塞式马达，结构紧凑。低转速运行性能稳定，噪音小。
With IAM series radial piston motor with compact structure. Low speed and stable running, low noise.

油泵电机 Oil pump motor

机座采用钢板焊接而成，结构坚固耐用，电机功率大，为设备提供强大动力。自扇冷式，散热筋与电机后端的风扇构成电机冷却系统，冷却效率高。
Steel plates welded machine stand, the structure is strong and durable, strong motor power and driving force. Self fan cooled, radiating rib and fan at the rear of motor make cooling system with high cooling efficiency.



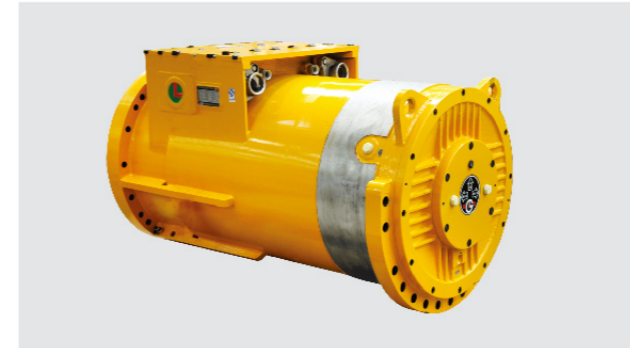
星轮 The star wheel

铲板驱动装置采用低速大扭矩液压马达驱动，内部装有进口轴承和端面密封。星轮分为三爪、四爪、五爪式结构，其上花堆耐磨层，耐磨损，效率高。
Shovel plate drive is low speed high torque hydraulic motor driven, internal equipped with imported bearing and end face seal. The star wheel is divided into three jaw, four jaw, five claw, its wear-resisting layer is wear-resisting with high efficiency.



切割头 Cutting head

运用3D数模设计，有限元分析进行优化，截齿布置合理，破岩能力强。截齿切割效率高，刀体、刀头耐磨损，寿命高。导料板采用进口高强度耐磨钢板，提高了使用寿命。
Use 3D digital to analog design, finite element analysis, and the cutting tooth arrangement is reasonable, and the rock damage ability is excellent. High efficiency cutting teeth, the teeth are wear resistance and long service life. Guide plate adopts imported high strength wear resistant steel plate to improve the service life.



切割电机 Cutting motor

采用大功率双速切割技术，根据所切割煤岩的硬度，高低速可人工进行切换，切割效率高。采用外壳水冷结构，冷却效果好，防护等级高，绕组出线端部埋设了温度继电器和铂热电阻，可对电机进行有效地温度保护。接线腔单独由钢板焊接而成，可连接1140V/660V两种电源电压。
Using high power double speed cutting technology, according to the rock hardness switch high speed and low speed, gives high cutting efficiency. Uses the shell structure of water cooling with good cooling effect, high protection grade, the temperature relay and platinum thermal resistance is designed at the end of winding wire and can effectively protect temperature of motor. Wire connection cabinet is wired by steel plate, which can connect two kinds of voltage 1140V/660V.

电控箱 Electric cabinet

采用高性能PLC控制，具有过压、欠压、短路、超温、过载、过流、三相不平衡、低压漏电保护、历史故障查询等保护功能；电气系统采用模块化设计，具有液晶汉字动态显示，故障自诊断及记忆功能；电控箱内的关键元器件，均采用国际知名品牌配套，可靠性高。
Electric system adopts modular design, with LCD dynamic Chinese display, self-diagnosis fault and memory function. The key components inside the electric cabinet adopt international famous brand with high reliability.





公司其他产品

XR系列旋挖钻机 XR Series Rotary Drilling Rig



XG系列连续墙抓斗 XG Series Diaphragm Wall Grab



XZ系列水平定向钻机 XZ SERIES HORIZONTAL DIRECTIONAL DRILL



服务网络示意图



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