

## 主要参数/Main Specifications

型号 Model	单位 Unit	参数 Parameters
操作重量 Operation Weight	kg	89600
铲斗容量 Bucket Capacity	m³	3.5-6.0

发动机 Engine		
发动机型号 Model	/	QSX15
电喷 Electronic fuel injection	/	√
4冲程 Four strokes	/	√
水冷 Water cooling	/	√
涡轮增压 Turbo-charging	/	√
空空中冷 Air to air intercooler	/	√
缸数 No. of cylinders	/	6
额定输出功率/转速 Output power	kW/rpm	399/2100
最大扭矩/转速 Torque/speed	N.m/rpm	2539/1400
排量 Displacement	L	15.0

主要性能 Main performance		
行驶速度(高/低) Travel speed ( H/L)	km/h	4.2/2.8
回转速度 Rotating speed	r/min	6.3
爬坡能力 Gradeability	°	35°
接地比压Ground pressure	kPa	120.9
铲斗挖掘力 Bucket digging force	kN	480
斗杆挖掘力 Arm crowd force	kN	370
最大牵引力 Maximum traction	kN	656

液压系统 Hydraulic system		
主泵 Main pump	/	2个柱塞泵
主泵额定流量 Rated flow of main pump	L/min	2 × 549
主安全阀压力 Pressure of prime valve	MPa	31.4/34.3
行走系统压力 Pressure of travel system	MPa	34.3
回转系统压力 Pressure of swing system	MPa	24.5
先导系统压力 Pressure of pilot system	MPa	3.9

油类容量 Oil capacity		
燃油箱容量 Fuel tank capacity	L	1230
液压油箱容量 Hydraulic tank capacity	L	760
发动机油容量 Engine oil capacity	L	48

型号 Model	单位 Unit	参数 Parameters
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外形尺寸 Appearance size			
A 总长 Overall length	mm	13570	
B 总宽 Overall width	mm	4545	
C 总高 Overall height	mm	5380	
D 转台宽度 Width of platform	mm	3370	
E 履带长度 Length of crawler	mm	6350	
F 底盘总宽 Overall width of chassis	mm	4150	
G 标准履带板宽度 Width of crawler	mm	650	
H 履带轴距 Track length on ground	mm	5070	
I 轨距 Crawler gauge	mm	2960/3500	
J 配重离地间隙 Clearance under counterweight	mm	1660	
K 最低离地间隙 Min. ground clearance	mm	850	
L 尾部回转半径 Min. tail swing radius	mm	4700	
M 履带高度 Height of crawler	mm	1470	

工作范围 Working scope			
A 最大挖掘高度 Max. digging height	mm	12060	
B 最大卸载高度 Max. dumping height	mm	8070	
C 最大挖掘深度 Max. digging depth	mm	7250	
D 8英尺水平面挖掘深度 Excavation depth of 8 feet level	mm	7100	
E 最大垂直挖掘深度 Max. vertical wall digging depth	mm	4200	
F 最大挖掘半径 Max. digging reach	mm	12330	
G 最小回转半径 Min. swing radius	mm	5200	
H最大地面挖掘半径 Max. ground digging radius	mm	12000	

材料和规格可随时改变，恕不另行通知  
Materials and specifications may be changed at any time without prior notice



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# XE900D 液压挖掘机

## XE900D HYDRAULIC EXCAVATOR



- 铲斗容量 Bucket Capacity ( m³ )：3.5-6.0
- 操作重量 Operation Weight ( kg )：89600
- 额定功率 Output power ( kW/rpm )：399/2100

徐工挖掘机械事业部  
XCMG EXCAVATOR MACHINERY BUSINESS DEPARTMENT



## 更节能环保

### More energy-conservation and environmental protection

采用符合国家三阶段排放标准的直喷、4冲程、水冷、涡轮增压、空空中冷、六缸发动机。该发动机动力强劲、坚固耐用、油耗低，可满足矿山应用需求。融合了久经考验、坚固耐用的部件和精密的制造工艺，拥有更高的可靠性和高效性。

By adopting the engine which complies with national stage III emission standard and features with direct injection, four strokes, water cooling, turbocharging, air to air intercooler and six-cylinder, it can meet mining application requirements. Blending with proven, sturdy and durable parts and delicate manufacturing process, higher reliability and efficiency can be achieved.



## 更高效回报

### More efficient return

- 采用低转速大扭矩定制、符合挖掘机工况的全电控发动机，扭矩储备提升11%，油耗下降9%。

By adopting the full electric control engine with low speed and large torque customization which complies with excavating working conditions, the torque reserve can be improved by 11% and the oil consumption can be reduced by 9%.

- 高效大排量回转马达提升整机回转扭矩8.8%。  
With high-efficient and large displacement rotary motor, the rotating torque of the whole machine can be improved by 8.8%.



- 采用完全自主开发设计的大型液压挖掘机PQ自适应实时调节控制技术，提高10%的作业效率。

By adopting the PQ self-adaptive real-time regulation and control technology for large hydraulic excavator developed and designed independently, the operating efficiency can be reduced by 10%.

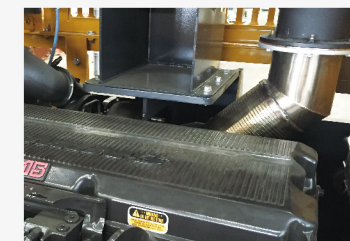
## 更可靠耐用

### More reliable and durable

- 高品质集成化电气系统，指标更高，电气集中控制，设计更简洁，系统更可靠。  
High quality integrated electric system, with higher indicator and electric centralized control, the design is more concise and the system is more reliable.

- 采用进口伸缩管取代波纹管，耐久性和可靠性得到大力提升；采用大直径消音器，降低排气背压，减少噪音；采用防尘能力更高的启动马达，可靠性高，矿山适应性强；改进中冷器进气硅胶管材质和进气结构，减少进气阻力防止爆管。

Replace the bellows with imported expansion tube, the durability and reliability can be greatly improved. By adopting the large-diameter silencer, the exhaust back pressure and noise will be reduced. With the starting motor with higher dust-proof capability adopted, high reliability and strong mining adaptability can be achieved. Improve the material of intake silicon tube of intercooler and structure of intake to reduce the intake resistance in order to avoid the pipe explosion.



- 关键液压元器件优化配置，采用更大通径的主阀，一体式输出机构的回转减速机和更大规格的行走减速机，使XE900D获得更大的液压能、更大的回转和行走驱动力，更适合恶劣的矿山施工。

Optimize the configurations of key hydraulic components and parts, adopt the main valve with larger diameter, slewing reducer with integrated output mechanism and travel reducer with larger specifications, XE900D can achieve more hydraulic energy, rotation and travel driving force to adapt to much tough mining operations.



- 采用箱体结构轻量化设计的前端工作装置，关键部位采用整体铸件结构，专为严酷的矿山工况设计，通过应力分析和疲劳寿命测试，保证了结构件足够的强度和刚度，可满足重载挖掘和采矿需要。

By adopting the front-end working device with light-weighted box-type structure, the key parts adopt overall casting structure specially designed for tough mining working conditions. The strength and stiffness of structural parts can be achieved through stress analysis and fatigue life test, which can meet the requirements of heavy load excavating and mining.

- 通过应力分析和疲劳寿命测试，采用整体箱型结构轻量化设计的左右纵梁和H型结构的下车架，保证了结构件足够的强度和刚度，坚固的下部行走体可以满足重载挖掘和采矿需要，使耐用性、可靠性和机动性更高。

Through stress analysis and fatigue life test, adopt the undercarriage frame of left and right longitudinal beam and H-type structure with light-weighted overall box-type structure to guarantee enough strength and stiffness of structural parts. Sturdy lower travel body can meet the requirements of heavy load excavating and mining, which can make the durability, reliability and mobility much higher.





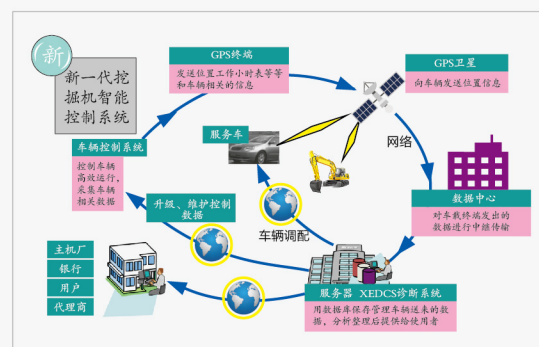
- 驾驶室顶部采用FOPS护罩，玻璃采用夹胶玻璃，提高操作者的安全性。  
FOPS shield is adopted for the top of cab and laminated glass is adopted for glass to improve the safety of operator.
- 采用整体式框架设计，以更适应矿山恶劣工况作业下的高强度振动，提高薄板件的可靠性。  
Adopt the integrated frame design to adapt to high-strength vibration of tough working operation of mining site and improve the reliability of thin sheet parts.

## 更智能管控

### More intelligent management and control

- 先进的XEICS徐工挖机智能管理系统，采用CAN总线通讯和物联网技术，集主控制系统、发动机ECM、监控系统、操控面板、GPS云控系统和现场诊断系统，实现机器信息数字化共享，提高产品智能化水平。便捷的手机APP微服务，随时随地掌握挖机的位置、作业状况、工作时间、燃油消耗、保养周期。

Advanced XEICS XCMG excavator intelligent management system adopts the CAN bus communication and technology of Internet of Things, which can integrate the main control system, engine ECM, monitor system, control panel, GPS cloud control system and on-site diagnosis system and thus achieve the digital share of machine data, improve the intelligent level of product. With convenient micro service of mobile phone APP, information of location, operation conditions, working hours, fuel consumption and maintenance period can be known at any time and any place.



- 自主控制器采集车辆位置的海拔高度和发动机进气压力，自动判定确定数据库，在显示器上提示操作者选择高原模式。智能匹配液压泵与发动机功率，从而保证泵的流量输出，降低发动机掉速比，防止冒黑烟和憋车，保证挖掘机工作效率。

Self-controller collects the information about altitude and engine intake pressure at vehicle's location to determine and confirm database automatically and prompt the operator to select plateau mode. The intelligent matching of hydraulic pump and engine power can ensure the flow output of the pump, reduce the engine swap ratio, prevent the black smoke and shutdown of the vehicle and ensure the efficiency of the excavator.

- 选配DropsA或SKF递进式电动集中润滑系统，润滑周期准确，定量给脂精确，避免人工加脂遗漏润滑点，节约人体劳动强度。

DropsA or SKF progressive electric centralized lubrication system can be selected optionally, the lubrication period is more accurate, the quantitative grease is accurate to avoid the grease missing by grease manually and save the manual labor intense.

## 更舒适安全

### More comfortable and safe

- 大视野全新驾驶室，噪音更低，操作环境更舒适。功率空调，制冷效果更好。集成化控制面板，操控更舒适。配备8寸大显示器，画质更清晰。

Brand-new cab with large view, the noise will be reduced, the operating environment is more comfortable. Air-conditioner has better cooling effect. With integrated control panel, the operation is more comfortable. Equipped with 8-inch large display, the picture quality is clearer.



- 针对矿山施工工况，采用可视化的油水分离器，油水分离效果提高15%以上，延长了燃油系统的使用寿命。优化后的发动机悬置系统，减少振动，提高操作者的舒适性和结构件的耐久性。

For mining construction conditions, visualized oil-water separator is adopted, which can improve the oil-water separation effect by more than 15% and prolong the life expectancy of fuel system. After optimization, the engine suspension system can reduce the vibration and improve the operator's comfort and durability of structural parts.



## 便捷的维护保养

### Convenient repair and maintenance

- 设计中部检修通道，维护检修更方便。  
Central maintenance passage is designed to make the repair and maintenance more convenient.
- 设计独立的泵室和独立的动力舱，维护保养更便捷。  
Individual pump chamber and engine compartment is designed to make the repair and maintenance more convenient.
- 可选配安装防护栏、灭火器，防止安全事故的发生。  
Protective guard and extinguisher can be installed optionally to prevent the occurrence of safety accident.
- 可选装燃油、液压油、齿轮油等液体的集中加注检测系统，方便快速检测、加注或更换油液。  
Centralized filling and testing system for liquids such as fuel, hydraulic oil and gear oil can be selected optionally, which can make the quick test, filling and replacing more convenient.

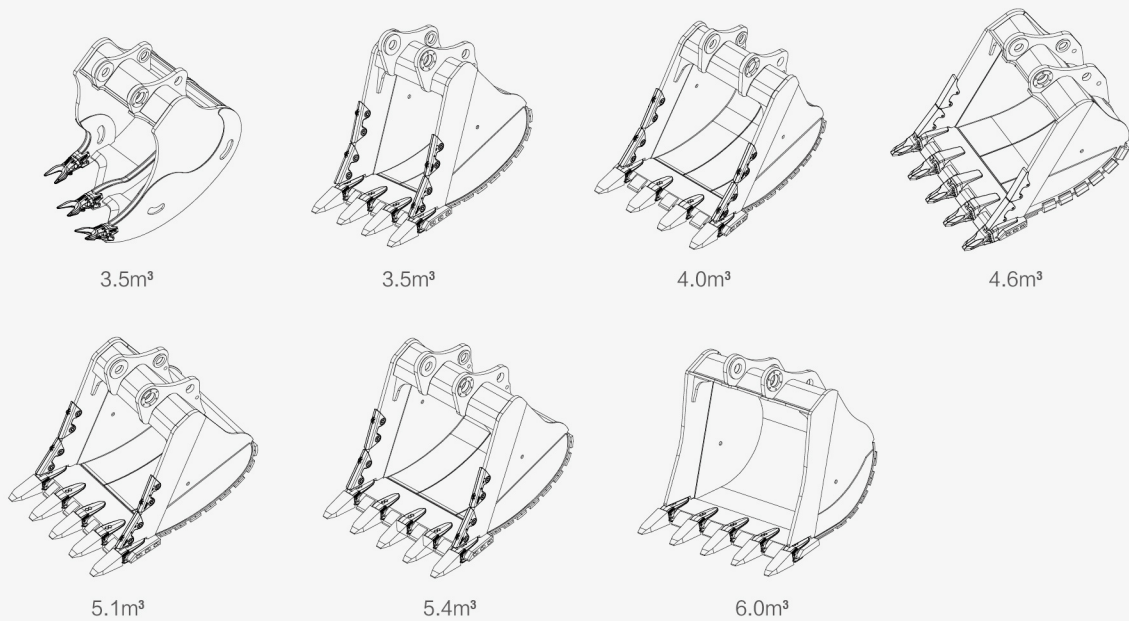






# 铲斗配置

## Configuration of bucket



铲斗配置表 Configuration of bucket				XE900D
类型 type	宽度(含侧齿) Width(including side teeth )	斗容 Bucket capacity	重量 Weight	BE动臂 BE boom: 7100mm
	mm			BE斗杆BE斗杆 BE stick: 2945mm
冻土斗 Frozen soil bucket	1740	3.5	5390	■
岩石斗 Rock bucket	1730	3.5	4865	■
岩石斗 Rock bucket	1900	4.0	5205	■
岩石斗 Rock bucket	2060	4.6	5620	□
重载斗 Heavy-duty bucket	2230	5.1	5940	○
重载斗 Heavy-duty bucket	2280	5.4	5995	◎
土方斗 Soil bucket	2500	6.0	4860	△

- : 适用于密度小于2100 kg/m³或以下物料 Suitable for the material which density is less than 2100kg/m³
- : 适用于密度小于1800 kg/m³或以下物料 Suitable for the material which density is less than 1800kg/m³
- : 适用于密度小于1500 kg/m³或以下物料 Suitable for the material which density is less than 1500kg/m³
- ◎: 适用于密度小于1200 kg/m³或以下物料 Suitable for the material which density is less than 1200kg/m³
- △: 适用于密度小于 900 kg/m³或以下物料 Suitable for the material which density is less than 900kg/m³

## XE900D HYDRAULIC EXCAVATOR

## XE900D液压挖掘机

# 定制化 Customization

标准配置 Standard configuration		XE900D
发动机 Engine	驾驶室与内饰 Cab and interior trimming	安全与保安配置 Safety and security configuration
发动机型号 Model of engine: QSX15	增压驾驶室 Pressurized cab	驾驶室门锁和各舱室锁 Door lock of cab and chambers
排放等级 Emission level: 国Ⅲ National III	完全可调的机械悬浮座椅 Fully adjustable mechanical suspension seat	警报喇叭 Alarm horn
自动预热 Automatic preheat	可调节座位扶手 Adjustable armrest	发动机和油泵室之间的隔离板
带水位指示传感器的油水分离器	安全带 ( 51 mm [2"] 宽 ) Safety belt (51 mm [2"] width)	Spacer plate between engine and oil pump chamber
Oil-water seperator with water level indication sensor	配备辅助装置的可开启前挡风玻璃	后窗紧急出口 Emergency exit of rear window
径向密封空气滤清器 Radial seal air filter	Openable front windscreen glass equipped with auxiliary equipment	蓄电池断路开关 Shutdown switch of battery
50° C高温环境冷却组件	按 70/30 比例分割的前挡风玻璃	动臂、斗杆保持阀 Holding valve of boom and arm
Cooling componnets of 50° C high temperature environment	Front windscreen window cut with ratio of 70/30	过热报警 Overheat alarm
散热器防尘网 Dust screen of radiator	双层夹胶挡风玻璃和其他钢化窗户	安全扶手和踏板 Safety rail and pedal
燃油油标 Feul leveler	Double-layer laminated windshield and other tempered Windows	旋转报警灯 Rotating alarm light
带反吹功能的独立散热模块	可滑动的车门上窗 Slidable upper window of door	防滑板/防滑贴 Anti-skid plate/anti-slip tip
Independent cooling module with reverse blow function	带除霜器的双向出风空调 ( 自动型 ) ( 加压功能 )	液压安全锁定杆 Hydraulic safety lock lever
自动怠速 Automatic idle speed	Double-way air-out air conditioner with defroster(automatic)(pressurized)	紧急逃生锤 Emergency escape hammer
液压系统 Hydraulic system	可显示警告信息、滤清器/液体更换信息和工作小时数的彩色液晶显示屏	左右后视镜 Left and right rearview mirror
动臂/斗杆流量再生 Boom/arm flow regeneration	Color LCD display with data of alarm, filter/fluid change and working hours	后视监控摄像头 Rearview monitor camera
反向回转阻尼阀 Reverse rotary damping valve	操纵手柄 Control handle	落物防护结构 ( FOPS ) Fall Off Protection Structure(FOPS)
自动回转停车制动器 Automatic rotary parking brake	装有可拆卸手动操纵杆的行驶控制踏板	
直行液压回路 Travel straight hydraulic circuits	Travel control pedal with removable manual control lever	电气系统 Electrical system
动臂优先阀 Boom priority valve	两个立体声扬声器 Two stereo speakers	蓄电池 ( 2 × 850 CCA ) Battery ( 2 × 850 CCA )
回转逻辑阀 Rotary logic valve	饮料杯架 Beverage holder	70 A 交流发电机 70 A Alternator
液压油 ISO VG 46 Hydraulic oil ISO VG 46	衣帽钩 Coat and hat hook	7.8 kW 起动机 7.8 kW start motor
备用阀片 Spare valve disc	可清洗地板垫 Washable floor mat	行走报警器 Travel alarm
仪表压力监控 Instrument pressure monitor	可伸缩安全带 ( 51 mm [2"] 宽 ) Retractable safety belt (51 mm [2"] width)	24V点烟器 24V Cigar lighter
底盘系统与护罩 Chassis sytem and protective guard	空调系统 Air conditioner system	12V点烟器 12V Cigar lighter
底座牵引环 Underframe bail	高低速换挡 High/low speed shift gears	摄像头 Camera
保护装置套件: 底盘底部封板、行走马达封板	一键增压模式 Onekey boost mode	5V USB接口 5V USB interface
Protection suite: close plate at the bottom of chassis, close plate of travel motor	工作辅具预留开关 Reserved switch for auxiliary equipment	24V电源接口 24V Power interface
650 mm ( 24" ) 双筋履带板 650 mm ( 24" ) Double rib track plate	遮阳帘 Shade curtain	
加长底盘 Extended chassis	顶部天窗 Top skylight	配重 Counterweight
全长度履带护轨器 ( 两件式 , 需更换下车架 )	间歇式多档雨刮器 Batch multiple-range wiper	13.3 t 配重 13.3t Conuterweight
Overall length crawler guardrail device(two pieces, need to replace underframe)	杯架/文件袋 Cup holder/file packet	
	无线电收音机 Wireless radio	技术 Technology
	照明灯 Lamp	XEICS智能控制系统 XEICS intelligent control system
	左右两侧动臂工作灯 Boom working lamp at left and right side	数据链路插座 Data link socket
	安装在储物箱上的右侧工作灯 Working lamp installed on the right side of storage box	
	驾驶室内部照明 Lamp inside the cab	润滑系统 Lubrication system
	驾驶室顶安装的前工作灯 Front working lamp installed on the top of cab	电动自润滑系统 Electric self-lubrication system
		斗杆集中 Arm concentration

选装配置 Optional configuration		XE900D
油浴型空气预滤器 Oil-bath type air prefilter	液压管路: 液压抓具 Hydraulic line:hydraulic grapple	液压剪 Hydraulic shear
油水快放装置 Oil and water quick discharge device	操作方式切换 Operating modes switch	抓具 Grip
冷却液加热器 ( 燃油式 ) Coolant heater(fuel type)	液压油 ISO VG 32 ,68 Hydraulic oil ISO VG 32 ,68	高频破碎器 High frequency braker
燃油加油泵 50L/min Fuel refueling pump 50L/min	750 mm ( 28" ) 双筋履带板 750 mm ( 28" ) Double rib track plate	贝壳斗 Clam shell bucket
燃油快速加注系统 Fast fill fuel system	900 mm ( 31" ) 双筋履带板 900 mm ( 31" ) Double rib track plate	梅花抓斗 Plum-blossom shape grab bucket
辅助液压阀 Auxiliary hydraulic valve	带坐垫加热的空气悬浮座椅 Heated air suspension seat with cushion	筛型斗 Screen-type bucket
液压缓冲阀 Hydraulic buffering valve	灭火器 Fire extinguisher	发动机紧急停机开关 Emergency stop switch of engine
液压管路: 破碎锤 Hydraulic line: quartering hammer	3.5~4.0m³岩石斗 3.5~4.0m³ Rock bucket	动臂、斗杆管路防爆阀
液压管路: 拇指钳及油缸 Hydraulic line: thumb pliers and cylinder	5.1~5.4 m³重载斗 5.1~5.4 m³ Heavy load bucket	Explosion-proof valve of boom and arm pipeline
液压管路: 防爆阀管路及油缸 Hydraulic line:pipeline of explosion-proof valve and cylinder	6.0 m³土方斗 6.0 m³ Earth working bucket	驾驶室顶安装的后工作灯
液压管路: 快速连接器 Hydraulic pipeline:quick connector	快速连接器 Quick connector	Rear working lamp installed on the top of cab
液压管路: 液压剪 Hydraulic line:hydraulic shear	破碎锤 Quartering hammer	
液压管路: 液压振动夯/高频破碎器 Hydraulic line:hydraulic vibration rammer/high-frequency breaker	液压拇指钳 Hydraulic thumb pliers	
	松土器 Scarifier	
	振动夯 Vibrating tamper	