



XE400DK 履带挖掘机技术规格书

(此规格书仅适用于挖掘机产品的技术推荐)

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XE400DK Crawler Excavator Technical Specification

This specification only applies to technical recommendations for excavator products

May 1, 2020 first version

因技术设计的不断进步，我们无法将产品变更有效的通知到阁下，敬请谅解

徐工集团挖掘机械事业部

XCMG EXCAVATOR MACHINERY BUSINESS DEPARTMENT

XE400DK 履带挖掘机主要技术参数表

XE400DK Crawler Excavator Technical Specification

型号 Model		单位 Unit	XE400DK
操作重量 Operating weight		Kg	39400
铲斗容量 Bucket capacity		m ³	2.0
发动机 Engine	发动机型号 Model	/	Cummins QSL9
	直喷 Direct 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
	额定功率/转速 Rated power/speed	kw/rpm	222/2100
	最大扭矩/转速 Maximum torque/speed	N. m	1424/1200-1600
排量 Displacement	L	8.9	
主要性能 Main performance	行驶速度(高/低) Travel speed (H/L)	km/h	5.6/3.3
	回转速度 Swing speed	r/min	9.6
	爬坡能力 Gradeability	°	≤35
	接地比压 Ground pressure	kPa	68
	铲斗挖掘力 Bucket digging force	kN	310
	斗杆挖掘力 Arm digging force	kN	227
最大牵引力 Maximum tractive force	kN	330	
液压系统 Hydraulic system	主泵 Main pump	/	/
	主泵额定流量 Rated flow of main pump	L/min	2×370
	主安全阀压力 Main safety valve pressure	MPa	37.3
	行走系统压力 Travel system pressure	MPa	34.3
	回转系统压力 Swing system pressure	MPa	26.5
先导系统压力 Pilot system pressure	MPa	3.9	
油类容量 Oil Capacity	燃油箱容量 Fuel tank capacity	L	660
	液压油箱容量 Hydraulic tank capacity	L	350
	发动机油容量 Engine oil capacity	L	30
外形尺寸 Appearance size	A 总长 Overall length	mm	11300
	B 总宽 Overall width	mm	3340
	C 总高 Overall height	mm	3760
	D 转台宽度 Width of platform	mm	3200
	E 履带长度 Track length	mm	5290
	F 底盘总宽 Overall width of chassis	mm	3340

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	G 标准履带板宽度 Track shoe width	mm	600
	H 履带轴距 Wheel base of crawler	mm	4255
	I 轨距 Track gauge	mm	2740
	J 配重离地间隙 Counterweight clearance	mm	1272
	K 最低离地间隙 Min. ground clearance	mm	550
	L 尾部最小回转半径 Min. tail swing radius	mm	3700
	M 履带高度 Track height	mm	1146
作业范围 Working scope	A 最大挖掘高度 Max. digging height	mm	9946
	B 最大卸载高度 Max. dumping height	mm	6890
	C 最大挖掘深度 Max. digging depth	mm	6660
	D 8 英尺水平面挖掘深度 Maximum depth cut for 2240mm(8 ft) level bottom	mm	6665
	E 最大挖掘半径 Max. digging radius	mm	10385
	F 最小回转半径 Min. swing radius	mm	4445
标配 Standard	动臂长度 Length of boom	mm	6200
	斗杆长度 Length of arm	mm	2670
	铲斗斗容 Bucket capacity	m ³	2.0
选配 Optional	动臂长度 Length of boom	mm	-
	斗杆长度 Length of arm	mm	-
	铲斗斗容 Bucket capacity	m ³	1.4/1.5/1.6(岩石斗 Rock bucket)

XE400DK 履带挖掘机主要部件配置表

XE400DK Crawler Excavator Main Parts Lists

序号 No.	部件名称 Part Name	生产厂家 Manufacturer	备注 Remarks
1	发动机 Engine	美国康明斯 American Cummins	
2	主泵 Main Pump	日本川崎 Japan Kawasaki	
3	主阀 Main Valve	日本川崎 Japan Kawasaki	
4	行走马达 Track Motor	日本纳博特斯克 Japan Nabtesco	
5	回转马达 Swing Motor	日本川崎 Japan Kawasaki	
6	空调 AC	泰铂(上海) Taybo (Shanghai)	

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7	四轮一带 Sprocket, idler, carrier roller, track roller and track	徐工 XCMG	
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XE400DK 产品样本亮点

XE400DK Hydraulic Excavator Highlights

一、更节能环保

I. More energy-saving and environmental friendly

- 1、采用康明斯进口电喷发动机，动力更强劲，燃油经济性更高。
1. By adopting Cummins imported electronic fuel injection engine, the machine has stronger power and higher fuel economy.
- 2、高压共轨系统实现最佳的燃油喷射控制，有效提高燃烧效率。
2. High pressure common rail system realizes optimum fuel injection control and effectively improves combustion efficiency.
- 3、优化发动机功率曲线，低速大扭矩输出，在提供强劲动力的同时，大大降低燃油消耗，满足重载模式下动力输出与油耗的动态平衡与经济性。
3. With optimized engine power curves and low-speed and large-torque output, the fuel consumption is greatly reduced while providing strong power, which satisfies dynamic balance and economy of power output and fuel consumption in heavy-duty mode.

二、更高效回报

II. More efficient return

- 1、采用高效快捷的正流量控制系统，具有“可靠性高、压损小，流量分配效率高、复合动作流畅”等突出优点，在节能、高效、操控性等方面均有大幅提升。
1. Efficient positive flow control system has features of high reliability, less pressure loss, high flow distribution efficiency and smooth compound movements, and energy conservation, efficiency, controllability and other aspects are greatly improved.
- 2、全新正流量分泵独立控制主泵，优化转速感应及负载自适应控制，实现按需所给，有效降低中位回流损失，响应速度更快。
2. Brand new positive flow sub-pump can independently control main pump, which optimizes speed sensing and load self-adaptive control, realizes on-demand, effectively reduces neutral position return loss, and achieves faster respond speed.

三、更可靠耐用

III. More reliable and durable

- 1、加长加宽重载型底盘，配合加强型矿山专用工作装置，整机稳定性更好，可

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靠性更高，可满足各种工况下的重载作业施工。

1. Lengthened and widened heavy-duty undercarriage, combined with reinforced exclusive working equipment for mines, bring better stability and higher reliability, which can satisfy heavy-load construction in various working modes.

2、矿山专用双筋履带板，增大板厚和履带齿高度，耐磨性更好，寿命更长。

2. Exclusive double grouser track shoe for mines with enlarged plate thickness and track tooth height has better abrasive resistance and long service life.

3、加强矿山型作业装置，配合高压系统设计，确保整机拥有同级别机器中最强劲的挖掘力，可轻松应对各种作业工况。

3. Reinforced mine type working equipment combined with high pressure system design ensure the whole machine has the strongest digging force among the machines of the same level so as to cope with various working modes easily.

4、标配油浴式空气滤清器，满足重灰度作业工况下进气系统清洁，延长进气滤芯更换周期，为发动机提供更好的保护，延长发动机使用寿命，大大降低用户的维护使用成本。

4. The standard oil-bath air filter satisfies the demand for cleaning of air inlet system in heavy dust working mode so that the replacement period of air inlet filter element is prolonged. It provides better protection for engine, prolongs engine service life and greatly reduces maintenance and usage cost of users.

5、加装回油过滤器，充分过滤液压油中的粉尘，确保液压系统的清洁。

5. Oil return filter is equipped to sufficiently filtrate the dust in hydraulic oil so that the hydraulic system is kept clean.

6、加装蓄能器，吸收压力脉动，保证系统和管路的高可靠性。

6. The accumulator is added to absorb pressure fluctuation so that high reliability of system and pipelines is ensured.

四、更智能管控

IV. More intelligent control

1、智能电子控制系统，可实现对发动机转速和液压泵输入功率的综合控制，同时兼具远程故障监测和自我诊断功能。

1. The intelligent electronic control system can achieve integrated control for engine speed and input power of hydraulic pump, meanwhile remote fault monitoring and self-diagnostic function is available.

2、完善云控制远程管理平台，提升包括远程故障诊断、主机工作参数远程设定、工作状态远程监控、定期保养信息自动提示等功能。

2. The remote control platform is completed to improve the functions, including remote fault diagnosis, remote setting of host operating parameters, remote monitoring of working status, and automatic prompting of maintenance information.

3、新一代 8 寸触摸彩屏仪表，菜单布置更细致，屏幕显示更清晰，人机界面更

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友好，预留视频播放功能，可支持多种视频格式。

3. New generation 8-inch color touch screen brings more detailed menu layout, clearer screen display and user-friendly interface. Video display function is reserved, supporting various video formats.

五、更舒适安全

V. More comfortable and safer

1、驾驶室

1. Cab

安全性（1）采用高强度异型截面立柱，大幅提升驾驶室刚度，保障安全性。

Safety (1) with high-strength pillar with irregular shape adopted, the rigidity of cab is greatly improved and safety is guaranteed.

（2）防滚翻驾驶室，可加装顶防护、前防护、侧防护、满足防落物要求，进一步提高驾驶室的安全性。

(2) Cab with ROPS, top protection, front protection and side protection can be installed to meet the requirements of falling objects so as to further improve safety of the cab.

开阔视野（1）全景天窗设计，视野更开阔，操作按钮集中布置，驾乘体验全面升级。

Wider view (1) The panoramic sunroof design brings wider view. Centralized arrangement of the buttons makes driving experience be fully upgraded.

内饰布局（1）全新内饰设计，常用电气开关和备用开关集成右侧内饰，位置集中方便操作。（2）预留低温启动、快换等拓展功能安装孔。（3）全新电子空调系统，提供强大的制冷、制热能力，空调自动调节恒温提供最适合人体舒适温度。

Interior layout (1) Brand new interior design, commonly used electrical switches and spare switches are integrated in the right side of interior, it is easy to operate with centralized locations. (2) The mounting holes for low temperature start, quick change and other expansion function are reserved. (3) Brand new electronic air conditioning system provides strong cooling and heating capability, and the automatic adjustment thermostat of air conditioner provides the comfortable temperature most suitable for human body.

减震舒适（1）高性能硅油减震器，内部增加减震弹簧，可有效隔离特定频段震波，提高舒适性。

Comfortable damping (1) Damping spring is added inside high performance silicone oil shock absorber, which can effectively isolates the shock wave in specific frequency band and improves comfort.

六、更便捷的维护保养

VI. Convenient maintenance and service

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1、日常维修保养点触手可及，无论是燃油滤、机油滤还是先导滤均可以在地面直接维修保养。

1. Daily maintenance points are within reach, no matter fuel filter, oil filter, pilot filter or air filter, they all can be maintained directly on the ground.

2、燃油预滤器、油水分离器合二为一，油水分离器带有自动报警装置，提醒用户及时放水，维护保养更便捷，省时省心。

2. The fuel pre-filter and oil-water separator are integrated with one. Automatic alarm device is equipped on oil-water separator to remind the user to drain water in time. The maintenance and service are more convenient, time-saving and worry-saving.

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