



# XE270DK 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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## XE270DK Crawler Excavator Technical Specification

This specification only applies to technical recommendations for excavator products

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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

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**XE270DK 履带挖掘机主要技术参数表**
**XE270DK Crawler Excavator Technical Specification**

型号 Model		单位 Unit	XE270DK
操作重量 Operating weight		Kg	26500
铲斗容量 Bucket capacity		m <sup>3</sup>	1.1~1.4
发动机 Engine	发动机型号 Model	/	Cummins QSB7
	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	150/2050
	最大扭矩/转速 Maximum torque/speed	N. m	825/1250
	排量 Displacement	L	6.7
主要性能 Main performance	行走速度 (高/低) Travel speed (H/L)	km/h	6.1/3.8
	回转速度 Swing speed	r/min	11.4
	爬坡能力 Gradeability	°	≤35
	接地比压 Ground pressure	kPa	52.1
	铲斗挖掘力 Bucket digging force	kN	185
	斗杆挖掘力 Arm digging force	kN	129
	最大牵引力 Maximum tractive force	kN	206
液压系统 Hydraulic system	主泵 Main pump	/	2个柱塞泵 Two piston pumps
	主泵额定流量 Rated flow of main pump	L/min	2×259
	主安全阀压力 Main safety valve pressure	MPa	34.3/37
	行走系统压力 Travel system pressure	MPa	34.3
	回转系统压力 Swing system pressure	MPa	25
	先导系统压力 Pilot system pressure	MPa	3.9
油类容量 Oil Capacity	燃油箱容积 Fuel tank capacity	L	400
	液压油箱容积 Hydraulic tank capacity	L	220
	发动机机油容量 Engine oil capacity	L	19.5
外形尺寸 Appearance size	A 总长 Overall length	mm	10170
	B 总宽 Overall width	mm	3190
	C 总高 Overall height	mm	3175
	D 转台宽度 Width of platform	mm	2995
	E 履带长度 Track length	mm	4640

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	F 底盘总宽Overall width of chassis	mm	3190
	G 履带宽度Track shoe width	mm	600
	H 履带轴距Wheel base of crawler	mm	3790
	I 轨距Track gauge	mm	2590
	J 配重离地间隙Counterweight clearance	mm	1090
	K 最低离地间隙Min. ground clearance	mm	495
	L 尾部最小回转半径Min. tail swing radius	mm	2955
	M 履带高度Track height	mm	988
工作范围 Working scope	A 最大挖掘高度Max. digging height	mm	10095
	B 最大卸载高度Max. dumping height	mm	7170
	C 最大挖掘深度Max. digging depth	mm	6925
	D 8英尺水平面挖掘深度Maximum depth cut for 2240mm(8 ft) level bottom	mm	-
	E 最大垂直挖掘深度Max. vertical wall digging depth	mm	5520
	F最大挖掘半径Max. digging radius	mm	10240
	G最小回转半径Min. swing radius	mm	3510
标配 Standard	动臂长度Length of boom	mm	6000
	斗杆长度Length of arm	mm	2964
	斗容Bucket capacity	m <sup>3</sup>	1.3
选配 Optional	动臂长度Length of boom	mm	-
	斗杆长度Length of arm	mm	2500
	斗容Bucket capacity	m <sup>3</sup>	1.3(加强斗 Strengthened bucket) 1.4(土方斗 Earthwork bucket)

XE270DK 履带挖掘机主要部件配置表

XE270DK 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	广西康明斯 Guangxi Cummins	
3	主泵 Main Pump	日本川崎精机 Japan Kawasaki	
4	主阀 Main Valve	日本川崎精机 Japan Kawasaki	
5	行走马达 Travel Motor	纳博/斗山	

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6	回转马达 Swing Motor	日本川崎精机 Japan Kawasaki	
7	空调 AC	泰铂(上海) TAYBO (shanghai)	
8	四轮一带 Sprocket, idler, carrier roller, track roller and track	徐工 XCMG	

### XE270DK 挖掘机亮点介绍

#### XE270DK Hydraulic Excavator Highlights

XE270DK 液压挖掘机作为徐工集团 DK 系列专门针对中小矿山及石场重载作业的改款产品，在原有“高效、可靠、智能、节能”基础上，进一步深挖产品性能，通过程序优化，保障在所有工作模式下作业速度与燃油消耗自适应匹配，保持效能不变油耗降低 6%，大小臂强化设计，标配 1.3m<sup>3</sup>岩石斗，斗形优化，挖掘阻力减少，耐久性提高 1 倍。

XE270DK hydraulic excavator is a modified product of XCMG's DK series, which is specially designed for heavy-duty operations in small and medium-sized mines and quarries. Based on "efficient, reliable, intelligent and energy saving", dig down into product performances. Through the program optimization, operation speed is paired with adaptive fuel consumption in all working modes, and fuel consumption will be reduced by 6% without affecting the efficiency. With reinforced boom and arm, standard 1.3m<sup>3</sup> rock bucket, and optimized bucket shape, the digging resistance will be decreased and the durability will be doubled.

整机采用 150kW 大功率发动机，徐工专有、专用技术，低速大扭矩，高压喷射，动力更强，燃油经济性更好。新型高效主泵，全面升级，大排量，较上一代产品提高 7%；高效率，同等压力内泄漏减少；斜盘摆角，功率密度增大，整体实现更大的作业量。新一代高效主阀，溢流压力提升，压损更小，工作能力更突出。新型安全操作手柄，防止误操作引起的车辆动作对人体造成伤害，更安全可靠。最新的功率匹配技术，优化的燃油功率曲线，最高可省油 7%。采用整体钎焊技术、机器人焊接的新型散热器，配置正压除气式膨胀水箱，提高

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水泵寿命，快速除尽发动机及水道内气体，减少锈蚀，可满足 50℃环境使用要求。

The whole machine adopts imported 128.5kW high-power engine, XCMG proprietary and special technology, featuring low speed and high torque, high-pressure injection, stronger power and better fuel economy. New high-efficiency main pump is fully upgraded, with large displacement, which is 7% higher than that of the previous generation. High efficiency, and leakage is reduced under the same pressure. Swashplate swing angle makes power density increase, and achieves much more work. With new generation of high efficiency main valve, the overflow pressure is increased, the pressure loss is smaller, and the working ability is more outstanding. The new safe operation lever can prevent vehicle movement caused by misuse from causing personal injury, and is more safe and reliable. The latest power matching technology and optimized fuel power curve can save up to 7% fuel. Adopting whole brazing technology and new-type radiator welded by robots, and configuring positive pressure degassing type expansion tank, to improve the pump life, quickly remove the gas within engine and waterway, reduce the rust, and it can meet 50℃ environmental requirements.

回转平台采用刚性箱体结构以提供更高强度，驾驶室减震性能提升，发动机安装座结构加强，提高减震性能，主体采用工字梁刚性结构，整车强度加强，转台边梁采用 D 型管结构，同时标配三角形防撞梁，进一步提高转台抵抗外部冲击的能力。转台主体全部采用机器人焊接技术，提高结构件的耐久性和安全性。

The turntable adopts a rigid box structure to provide higher strength and improve the cab shock absorption. The engine mounting base structure is strengthened to improve shock absorption. With main body adopting I-beam rigid structure, the whole machine's strength is intensified, and the turntable side beam adopts the D-tube structure to improve its ability to resist external impact. The main body of the turntable adopts robot welding technology to improve the durability and safety of the structural parts.

下车行走机构采用强化链轨节受力关键部位，提高链轨节强度和抗冲击能力，履带使用寿命大幅提升。黄油盘由焊接件改为整体冲压件，保证了密封圈安装圆度，防止密封圈褶皱，密封性能提升。强化 X 横梁部位，通过加大箱型梁尺寸、板厚和改进结构，大幅度提高了端面强度。

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The travelling mechanism adopts strengthened key parts of the chain rails bearing stress to improve the strength and impact resistance of the chain rails, and the service life of the track is greatly improved. The butter dish is changed from welding parts to integral stamping parts, which ensures the installation roundness of the sealing ring, prevents the sealing ring from wrinkling and improves the sealing performance. With strengthened X-beam section, and the strength of the end face is greatly improved by increasing the size, thickness and structure of the box beam.

新一代仪表，8 寸大屏显示，同行业最大。页面布置更细致，画质更清晰。新型控制系统，采用 CAN 总线，监控器负责显示，控制器负责信号采集和输出，与监控器、GPS 控制器、发动机 ECM 进行总线连接，更快的数据管理，更高效的操控。功能机具控制系统，一键选择破碎锤、液压剪等 10 多种机具，轻松实现一机多用。

A new generation instrument has an 8-inch large screen display (the largest one among the industry). The page layout is more detailed and the picture is clearer. The new control system uses CAN bus, the monitor is responsible for display, the controller is responsible for signal acquisition and output, and the bus connects with monitor, GPS controller, engine ECM, which can achieve faster data management and more efficient control. With functional attachment control system, you can choose more than ten kinds of attachments including hammer, hydraulic shears and others by clicking one button, and achieve versatile applications with one machine.

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