



XE225DN 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) 2021 年 11 月 23 日第一版

XE225DN Crawler Excavator Technical Specifications

(This specification only applies to technical recommendations for excavator products)

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徐工集团挖掘机械事业部

XCMG EXCAVATOR MACHINERY BUSINESS DEPARTMENT 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。
Due to technical progress, we reserve the right to modify the manual without notice for improvement.



XE225DN 履带挖掘机主要技术参数表

XE225DN Crawler Excavator Technical Specifications

型号 Model		单位 Unit	XE225DN
操作重量 Operating weight		Kg	21500
铲斗容量 Bucket capacity		m³	0.9-1.0
	发动机型号 Model	/	1104D-E44TA
	直喷 Direct injection	/	$\sqrt{}$
	4 冲程 Four strokes	/	$\sqrt{}$
	水冷 Water cooled	/	$\sqrt{}$
发动机	涡轮增压 Turbocharged	/	$\sqrt{}$
Engine	空空中冷 Air to air intercooler	/	$\sqrt{}$
	缸数 Number of cylinders	/	4
	额定功率/转速 Rated power/speed(ISO)	kw/rpm	106/2200
	最大扭矩/转速 Maximum torque/speed	N.m	516/1400
	排量 Piston displacement	L	4.4
	行驶速度(高/低) Travel speed(H/L)	km/h	5.3/3.1
	回转速度 Swing speed	r/min	11.8
主要性能	爬坡能力 Gradeability	0	≤35
Main	接地比压 Ground pressure	kPa	54
performance	铲斗挖掘力 Bucket digging force	kN	149
	斗杆挖掘力 Arm digging force	kN	111
	最大牵引力 Maximum tractive force	kN	198
). F > 6	,	2×变量泵
	主泵 Main pump	/	Variable pump
液压系统	主泵额定流量 Rated flow of main pump	L/min	2×234
Hydraulic	主安全阀压力 Relief valve setting pressure	MPa	34.3/37
system	行走系统压力 Travel system pressure	MPa	34.3
	回转系统压力 Swing system pressure	MPa	28
	先导系统压力 Pilot system pressure	MPa	3.9
山米点目.	燃油箱容量 Fuel tank capacity	L	300
油类容量	液压油箱容量 Hydraulic tank capacity	L	140
Oil Capacity	发动机油容量 Engine oil capacity	L	8.5
	总长 Overall length	mm	9578
	总宽 Overall width	mm	2500
外形尺寸 Appearance size	总高 Overall height	mm	3015
	转台宽度 Width of platform	mm	2490
	履带长度 Track length	mm	4442
	底盘总宽 Overall width of undercarriage	mm	2500
	标准履带板宽度 Track shoe width	mm	500





Technical Parameters and Configuration Instructions for XCMG Excavators

	履带轴距 Tumbler distance	mm	3645
	轨距 Track gauge	mm	2000
	配重离地间隙 Counterweight clearance	mm	1091
	最低离地间隙 Minimum ground clearance	mm	481
	尾部最小回转半径 Minimum tail swing radius	mm	2797
	履带高度 Track height	mm	943
作业范围 Working scope	最大挖掘高度 Maximum digging height	mm	9620
	最大卸载高度 Maximum dumping height	mm	6780
	最大挖掘深度 Maximum digging depth	mm	6680
	8 英尺水平面挖掘深度 Maximum depth cut for	mm	6500
	8 ft level bottom		0500
33373	最大垂直挖掘深度Maximum Vertical digging	mm	5715
	depth		3713
	最大挖掘半径 Maximum digging radius	mm	9940
	最小回转半径 Minimum swing radius	mm	3530
标配 Standard	动臂长度 Length of boom	mm	5680
	斗杆长度 Length of arm	mm	2910
	铲斗斗容 Bucket capacity	m ³	1.0(加强斗)
	动臂长度 Length of boom	mm	-
	斗杆长度 Length of arm	mm	2400/2520/2700
	铲斗斗容 Bucket capacity	m ³	0.9/1.0/1.05/1.1/1.2
			土方斗 Earthwork
选配			bucket
Optional			1.0/1.05/1.1/1.2 加
			强斗 Strengthen
			bucket
			0.9/1.0 岩石斗
			Rock bucket



XE225DN 履带挖掘机主要部件配置表

XE225DN Crawler Excavator Main Parts Lists

序号	部件名称	品牌	备注
No.	Part Name	Brand	Remarks
1	发动机	珀金斯	
	Engine	Perkins	
2	主泵	徐工	
	Main Pump	XCMG	
3	主阀	徐工	
	Main Valve	XCMG	
4	行走马达	徐工	
	Track Motor	XCMG	
5	回转马达	徐工	
	Swing Motor	XCMG	
6	四轮一带	徐工	
	Sprocket, idler, carrier roller, track	标上 XCMG	
	roller and track	ACMU	



XE225DN 履带挖掘机产品样本亮点 XE225DN Crawler Excavator Highlights

XE225DN 窄机型液压挖掘机是徐工集团在广泛吸收国外同类产品先进技术,采用最新技术,自行开发的全新产品。是一种具有最新技术、充分重视安全性及环保性能、具有极高生产效率的高效挖掘机。项目在充分吸收国际先进技术基础上,立足自主创新,全面攻克了 20 吨级液压挖掘机多项核心关键技术。全新升级的 XE225DN 液压挖掘机,动力更足,油耗更低,作业性能更强,可广泛适用于农田水利、河道清淤、市政建设及小型矿山施工,可实现挖掘、破碎、拆除等不同作业需求,工况适应能力进一步加强。

XE225DN narrow-type hydraulic excavator is a new product XCMG-developed after widely absorbing advanced technology of similar products abroad and using the latest technology. It is an efficient excavator with the latest technology, and giving full attention to safety and environmental protection performance, and high production efficiency. Based on the full absorption of internationally advanced technology and independent innovation, this excavator has fully solved a number of core and key technologies of the 20-ton hydraulic excavator. The fully-upgraded XE225DN hydraulic excavator has stronger power, lower oil consumption, and stronger operating performance. XE225DN can be widely used for irrigation and water conservancy, river dredging, municipal construction and small mine construction, meeting requirements of different operations such as digging, breaking and dismantling. Therefore, the working condition adaptability is further strengthened.

采用徐工专有匹配技术,作业效率更高、燃油消耗更小,其油效比领先于国内外同吨位机型。经过不断优化改进的液压系统,操控性能进一步加强,操控更精细,平地及装车性能更好。

With XCMG proprietary matching technology, the machine can achieve higher operating efficiency and lower fuel consumption, and its fuel efficiency ratio is ahead of the same tonnage models at home and abroad. After continuous optimization and improvement of the hydraulic system, the control performance is further strengthened, maneuverability is more refined, and leveling and loading performance is better.

整机采用帕金斯大功率发动机,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°C环境使用要求。

The whole machine, with the Perkins high-power engine, XCMG proprietary and exclusive technology used, features with low speed and high torque, high-pressure injection, and can realize stronger power and better fuel economy. New high-efficiency main pump is fully upgraded, with large displacement, 7% higher than that of the previous generation. It is with high efficiency and reduced leakage under



the same pressure. Swashplate swing angle makes power density to increase, and achieves much more work. After the new generation of high efficiency main valve is used, 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 fuel by up to 7%.. With the whole brazing technology, new-type radiator welded by robots, and positive pressure degassing-type expansion tank configured, the machine can help lengthen the pump's service life, quickly remove gas within engine and waterway, and reduce the rust to meet using requirements in the environment of 50~%.

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,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 I-beam rigid structure used in the main body, the whole machine's strength is intensified, and the turntable side beam uses the D-tube structure to improve its ability of resisting 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。

Strengthened key parts of the chain rail joint are used in the chassis traveling mechanism to improve strength and impact resistance of the chain rail joint and lengthen the service life of the crawler. A butter dish is changed from welded parts to integral stamping parts, which ensures roundness of sealing ring installation, prevents wrinkling of sealing ring, and improves sealing performance. Strengthened X-beam part greatly improves the end strength through girder size increase, plate thickness increase, and structure improvement.

新一代仪表,7 英寸大屏显示,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、发动机 ECM 进行总线连接,更快的数据管理,更高效的操控。

A new generation instrument has a 7-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, engine ECM, which can achieve faster data management and more efficient control.