



XE55DA 履带挖掘机技术规格书

XE55DA Crawler Excavator Technical Specification

徐工集团挖掘机械事业部

XCMG EXCAVATOR MACHINERY BUSINESS DEPARTMENT

XE55DA 履带挖掘机主要技术参数表
XE55DA Crawler Excavator Technical Specification

型号 Model		单位 Unit	XE55DA
操作重量 Operating weight		Kg	5750
铲斗容量 Bucket capacity		m ³	0.21
发动机 Engine	发动机型号 Model	/	Kubota V2607
	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	/	4
	额定功率/转速 Rated power/speed	kw/rpm	35/2200
	最大扭矩/转速 Maximum torque/speed	N.m	171.50/1300
	排量 Displacement	L	2.615
主要性能 Main performance	行驶速度(高/低) Travel speed (H/L)	km/h	4.2/2.2
	回转速度 Swing speed	r/min	10
	爬坡能力 Gradeability	°	≤35
	接地比压 Ground pressure	kPa	31
	铲斗挖掘力 Bucket digging force	kN	48.3
	斗杆挖掘力 Arm digging force	kN	32.5
	最大牵引力 Maximum tractive force	kN	50.5
液压系统 Hydraulic system	主泵 Main pump	/	/
	主泵额定流量 Rated flow of main pump	L/min	150
	主安全阀压力 Main safety valve pressure	MPa	24.5
	行走系统压力 Travel system pressure	MPa	24
	回转系统压力 Swing system pressure	MPa	23
	先导系统压力 Pilot system pressure	MPa	3.5
油类容量 Oil Capacity	燃油箱容量 Fuel tank capacity	L	110
	液压油箱容量 Hydraulic tank capacity	L	85
	发动机油容量 Engine oil capacity	L	9
外形尺寸 Appearance size	A 总长 Overall length	mm	5860
	B 总宽 Overall width	mm	1920
	C 总高 Overall height	mm	2585
	D 转台宽度 Width of platform	mm	1780
	E 履带长度 Track length	mm	2540
	F 底盘总宽 Overall width of chassis	mm	1920
	G 标准履带板宽度 Track shoe width	mm	400
	H 履带轴距 Wheel base of crawler	mm	1990
	I 轨距 Track gauge	mm	1500
	J 配重离地间隙 Counterweight clearance	mm	700

	K 最低离地间隙 Min. ground clearance	mm	385
	L 尾部最小回转半径 Min. tail swing radius	mm	1670
	M 履带高度 Track height	mm	606
作业范围 Working scope	A 最大挖掘高度 Max. digging height	mm	5630
	B 最大卸载高度 Max. dumping height	mm	3945
	C 最大挖掘深度 Max. digging depth	mm	3830
	D 8 英尺水平面挖掘深度 Maximum depth cut for 2240mm(8 ft) level bottom	mm	2680
	E 最大挖掘半径 Max. digging radius	mm	6130
	F 最小回转半径 Min. swing radius	mm	2460
标配 Standard	动臂长度 Length of boom	mm	3000
	斗杆长度 Length of arm	mm	1600
	铲斗斗容 Bucket capacity	m ³	0.21
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	0.09 (窄斗 Narrow bucket)

XE55DA 履带挖掘机主要部件配置表

XE55DA 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	无锡久保田 Wuxi Kubota	
2	主泵 Main Pump	徐工 XCMG	
3	主阀 Main Valve	徐工 XCMG	
4	行走马达 Track Motor	伊顿或徐工 Eaton、XCMG	
5	回转马达 Swing Motor	烟台天奇 TianQI	
6	空调 AC	河南豫新 Henan Yuxin	
7	四轮一带 Sprocket, idler, carrier roller, track roller and track	徐工 XCMG	

XE55DA 履带挖掘机亮点介绍

XE55DA Crawler Excavator Highlights

性能提升:

Performance improvement

1. 全新自然吸气发动机动力总成，扭矩输出平稳，低油耗，低噪音。液压系统与发动机功率匹配优化，实现挖掘作业综合油耗下降 6%以上。

1. New natural suction engine powertrain is featured with stable torque output, low fuel consumption and low noise. The hydraulic system and engine power are matched and optimized to realize the reduction of comprehensive fuel consumption for excavating operations by more than 6%.

2. 全新负载液压敏感系统，复合动作操控性优化提升，响应速度更快，控制精准，冲击小，优化主阀阀芯与补偿器，提高平地复合时的斗杆速度，动臂和斗杆动作速度更加协调，平地性能大幅提升。

2. New load hydraulic sensitive system allows for improved maneuverability of compound actions, faster response speed, accurate control and small impact; it optimizes the main valve element and compensator, improves the arm speed of leveling compound actions, and makes the action speeds of boom and arm more coordinated and leveling performance greatly improved

3. 高性能五齿铲斗，新款铲斗优化斗型，加大斗宽，斗深变浅，卸料时间缩短 10%；提高铲斗容量，生产效率提高 5%；

3. High performance five-tooth bucket, with optimized bucket type, wider bucket, shallowed bucket depth, will reduce unloading time by 10%, increase bucket capacity and improve production efficiency by 5%.

3. 回转扭矩提升，提升斜坡作业能力，通过提高马达的排量和压力，提高扭矩 15%，斜坡作业更轻松。

Rotary torque is increased to improve the ability of slope operation. By increasing the displacement and pressure of the motor, the torque is increased by 15%, which makes the slope operation easier

舒适性提升 2 项:

2 items of comfort improvement

1. 室内所有操作元件均按照人机工程学理论进行科学、合理布置，该吨位首创驾驶室遮阳帘，行业首创 6 吨级驾驶室包围式遮阳帘，避免阳光直射，对驾驶员全方位防护；同时，大幅降低夏季空调负荷，节省燃油 3.8%。

1. All operating elements inside the cab are scientifically and reasonably arranged in accordance with ergonomics. For this tonnage, it is the first one that uses cab sunshade curtain, the industry's first enclosed sunshade curtain for 6-ton cab, it can avoid direct sunlight and protect drivers from all directions. At the same time, it can significantly reduce the air conditioning load in summer, save 3.8% fuel.

2. 座椅包裹性提升，坐垫加厚 20%，提高乘坐舒适性，大幅降低长时间的工作疲劳感。

2. The seat package is improved, and the cushion is 20% thicker, which can improve the ride comfort and significantly reduce the sense of fatigue while working for a long time

更可靠耐用:

More reliable and durable:

1. 驾驶室采用大面积高强度钢化玻璃，在保证驾驶室强度的同时提升驾驶员的视

野，驾驶室顶部配备照明灯，保证夜间工作精准安全。

1. Large area of high-strength tempered glass is used in the cab to improve the view of the driver while ensuring the intensity of cab. The top of the cab is equipped with lights to ensure accurate and safe work at night.

2. 对动臂、斗杆应力大的部位进行了局部强化，同时调整结构，分散应力，提高使用寿命；标配的新型铲斗，铲斗深度减小，让卸料变得更为快捷。

2. Strengthen the local area of boom and arm bearing high stress, and meanwhile adjust the structure, disperse stress and improve the service life; standard new-type bucket and reduced bucket depth make unloading quicker and faster.

3. 底盘结构采用 X 架结构，下车架内部通过加强筋板，形成大截面箱体，具有良好的承载性能，可以将上车的重量均匀的施加在履带梁上，减少了履带梁的局部应力集中现象。

3. X-frame structure is adopted for undercarriage. Large cross-section box is formed inside the lower frame through strengthened rib plate, which has good bearing capacity and the weight of the vehicle can be uniformly applied on the track roller frame to reduce its local stress concentration.

维修性提升：日常的维修保养触手可及，方便快捷。

Maintenance improvement: Daily maintenance is within reach, convenient and fast.

选配部分：可选装破碎管路、破碎锤、燃油加油泵、橡胶履带块等，以拓宽机器应用领域。

Optional parts: crushing pipeline, hammer, refueling pump and rubber crawler block are optional to broaden the application fields of the machine.