

XCMG Hydraulic Excavator

XE380C



Hydraulic Excavator - XE 380 C

Product Introduction

XE380C crawler hydraulic excavator is a new self-developed product according to the market demand. Advanced design techniques are used in this excavator to feature latest technology on safety, sustainability performance and for high production efficiency. It can be widely used in any general purpose construction like municipal work, roads, highways, bridges, building, water conservancy, port, earthwork and in mining projects.

XE380C crawler hydraulic excavator is fully-hydraulic driven. It is mainly composed of chassis assembly, turntable assembly, working equipment, slewing device, engine system, hydraulic system, electrical control system, cabin, counterweight and canopy. It adopts high-end imported configured systems and key components. The engine has strong power and can meet the requirements of high-efficient work. It has low fuel consumption, low noise and low emission can fully meet the international environmental emission and noise standards.

Extremely optimized system allows for superior low speed operation of the machine. Integrated with the

latest research results of the World famous companies, the hydraulic system considers the energy loss as much as possible while ensuring the optimal performance of the whole machine and makes a reasonable match, so that the machine can exert good performance. The key structures are reinforced to make the machine more adaptable to heavy-duty operations.

The cabin is comfortable and has a beautiful operating environment, it features a wide view, good sound isolation and shock absorption. All operation controls are designed and arranged according to the ergonomics. The whole machine is featured with a reasonable layout with beautiful appearance and convenient maintenance.



Product Highlights

Ecological and Economical

The imported ISUZU engine adopts point fuel injection technology, which has strong power and meets the requirements of high efficiency operation, low fuel consumption, low noise and low emission. The mechanical oil supply method is adopted, and the oil has good adaptability.

The engine speed torque curve is smooth and the low speed torque reserve is sufficient. Thus ensuring that the machine is not easy to turn off the brakes when working at low speed. Exhaust gas supercharging technology reduces power loss in higher altitude areas.

Renowned negative flow control system through the dual pump merge and increase the flow distribution provided by the multi-way valve to each actuator, maximize system flow, provide powerful digging force and high work efficiency. It has the characteristics of large system flow, high specific power, small pressure loss, low heat generation and high work efficiency.

Optimize the pressure-flow (p-q) curve of the main pump to improve operating efficiency and fuel economy.

The new-type ESS micro-computer power control system co-developed with World famous companies enables the machine to maintain optimum efficiency and



economy under different operating conditions. There are four working modes to be selected, H: heavy-load working mode, S: standard working mode, L: light-load working mode, B: breaking. A multi-function LCD is installed inside the cab, with a large screen, digital display with language options, it can comprehensively monitor at any time, the engine's working status (rotating speed, water temperature, engine oil pressure, etc.) and various operation information. The function switches are centrally arranged on the control panel and can be easily selected with a touch button.

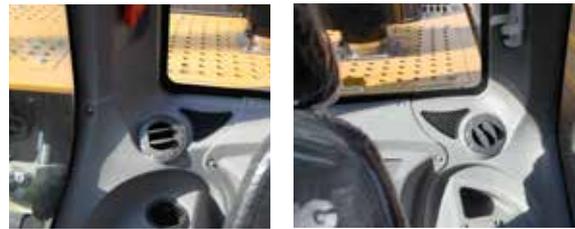
Control parameter modification function is added on the electronic control system which adopts PID adjustment algorithm and adds multi-point sampling parameter adjustment to refine power adjustment in sections. Find the best matching point to fully use the engine power, achieve the balance between power and hydraulic load, and thus further reduce the fuel consumption.

Multiple Applications

This excavator is powerful and has a full range of applications including excavating, loading, unloading and lifting. The working temperature is between -15 °C and 40 °C, and the altitude is below 2000 meters. When the environment is dusty, oil bath filter is optional to extend the whole machine's service life. Different boom, arm and bucket combinations can adapt to various working conditions.

Comfortable to use

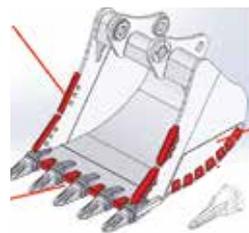
The silicone oil rubber spring composite damper is used to greatly reduce the vibration and impact under certain frequency bands. The new cabin is complemented by luxurious interiors. The panoramic sunroof has a wider view. The operation buttons are arranged centrally, so that the driving experience is delightful.



Large screen LED colour LCD display with machine parameters has good visual effects and is human machine friendly interface. The machine has high-power air-conditioner, heater with multi-channel stereo and is equipped with advanced sound system making it convenient and comfortable to operate at your fingertips.

Reliable, safe and durable

The working device is fully strengthened and the high-pressure system is designed to ensure that the machine has the strongest digging force (the bucket digging force: 263KN) in the same class of machines, which can easily meet the working requirements under various working conditions. XCMG second generation reinforced bucket have optimized bucket design, reduced chip resistance, adopts new wear-resistant materials for the cutting chip blade plate and the bucket service life is increased by 20%.



Anti - rollover protective structure (ROPS) for the cabin can be equipped with top protection, front protection and side protection meeting the requirements of anti-falling objects and further improving the safety of the cab. CAN bus communication design effectively reduces the overall electrical failure rate of the vehicle.

The working device adopts a new alloy bushing with solid graphite which greatly improves the wear resistance of the machine and reduces the working noise. A large number of special structures and imported high-strength, wear-resistant steel is used to develop and manufacture parts of the structure. The strength and service life of the products are greatly increased, and various severe working conditions can

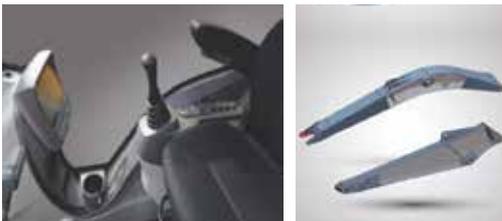
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be easily handled. The machine is equipped with a full-size heavy-duty reinforced chassis structure, sprocket, idler, carrier roller, track roller and track in order to meet the powerful digging force while ensuring the stability of the whole machine.



Maintenance

The operation process can be recorded at any time as it is equipped with new LED color liquid crystal display with remote fault diagnosis function. Regular maintenance and proactive maintenance reminder greatly helps the operator / customer. Whether it is fuel filter, oil filter, pilot filter or water tank, daily maintenance and repair points are within reach and can be directly maintained from the ground level.



The use of high-strength and tough composite ductile bearing bushing are complemented by a centralized lubrication arrangement that allows the operator and passenger to operate at ease. The rotary reducer is equipped with an oil drain hose which makes the oil to drain more convenient and simple. Integrated oil-water separator and low oil resistance check valve prevents main pressure loss while replacing the filter.



Ecological and Economical

- The engine by Isuzu is powered by point fuel injection technology providing strong power.
- Negative flow control system for efficient operation is through dual pump confluence.
- Intelligent electronic control system achieves optimal matching control of engine speed and hydraulic system.



Safe and Durable

- Anti-rollover protective structure (ROPS) for the cabin is designed for safety of the operator.
- Strengthened key stress-bearing parts of chain links.
- Full-size heavy-duty reinforced chassis structure ensures the stability of the whole machine.
- CAN bus communication design effectively reduces the electrical failure rate of the whole vehicle.
- The second generation of reinforced bucket extend service life.
- New alloy bushings with solid graphite are more durable.

Diversified Applications

- Variety of boom, arm and bucket helps to maximize utilization of different geographical conditions.
- Multi-functional machine system helps to meet various job requirements such as digging, crushing, and thumb clamp.
- ESS microcomputer power control system maintains optimum efficiency, saves time, energy and cost.

Comfortable Operation

- The machine comes with a high performance silicone oil shock absorber for improved comfort.
- The cabin has high-power air-conditioning and heating system ensuring ambient temperature with integrated panel, large screen display and rich instrument information.



Excellent After Sales Service

- Global after-sales service system with rapid response mechanism.

Easy Maintenance

- New LED color LCD display machine has alarms for proactive machine maintenance.
- Daily maintenance points are within reach from the ground dual fuel filter element can protect fuel system.
- Centralized lubrication arrangement makes lubrication easier.

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Overall dimensions (mm)

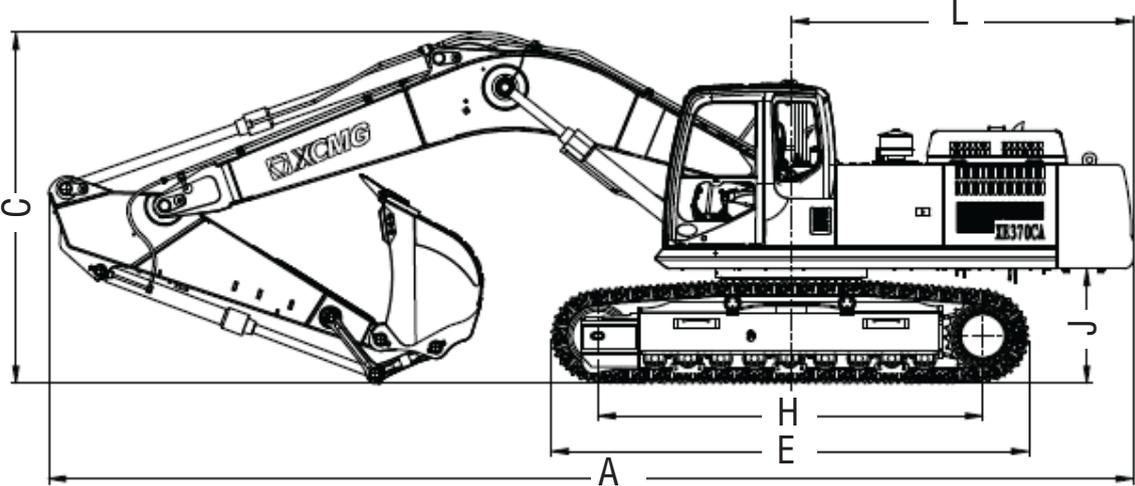


Figure 1 : Dimensions

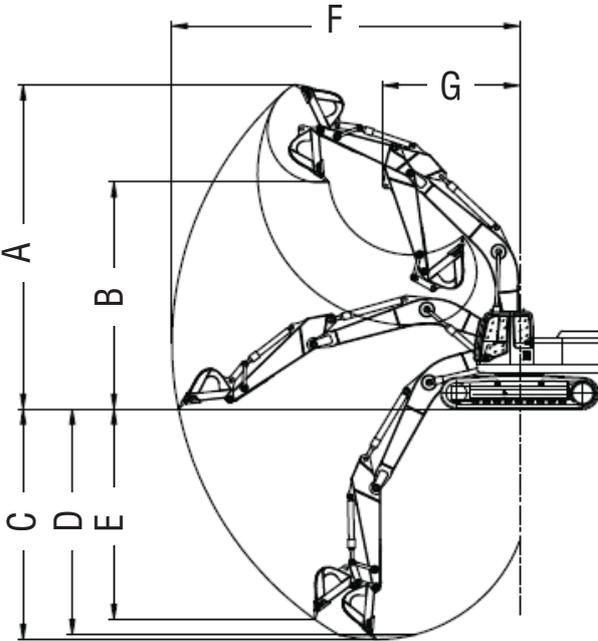


Figure 2 : Operating range

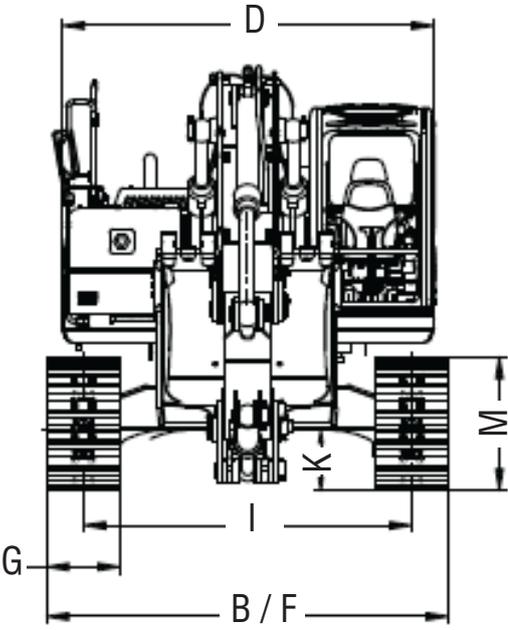


Figure 3 : Dimensions

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Main Technical Parameters

	Parameter	Unit	Value
Dimensions	A Overall length	mm	11386
	B Overall width	mm	3190
	C Overall height	mm	3530
	D Width of platform	mm	2950
	E Track length	mm	5035
	F Overall width of chassis	mm	3190
	G Track shoe width	mm	600
	H Wheel base of crawler	mm	4040
	I Track gauge	mm	2590
	J Counterweight clearance	mm	1197
	K Min. ground clearance	mm	500
	L Min. tail swing radius	mm	3570
	Operating range	A Max. digging height	mm
B Max. dumping height		mm	6947
C Max. digging depth		mm	6927
D Maximum depth cut for 2240mm(8 ft) level bottom		mm	6709
E Max. vertical wall digging depth		mm	5312
F Max. digging radius		mm	10470
G Min. swing radius		mm	4424
Engine	Model	/	Isuzu AA-6HK1XQP
	Direct injection, four strokes, water cooling, turbo-charging, air to air intercooler	/	√
	No. of cylinders	/	6
	Rated power / speed	Kw / rpm	255.5 / 2000
	Maximum torque / speed	N.m	872.8 / 1700
	Displacement	L	7.79
	Fuel tank capacity	L	630
	Engine oil capacity	L	30
Main performance	Travel speed (H / L)	Km / h	5.4 / 3.2
	Swing speed	r / min	9.7
	Gradeability	°	35
	Ground pressure	kPa	66.6
	Bucket digging force	kN	263
	Arm digging force	kN	225
	Maximum tractive force	kN	285
Hydraulic system	Rated flow of main pump	L / min	2×320
	Main safety valve pressure	MPa	34.3/37
	Travel system pressure	MPa	34.3
	Swing system pressure	MPa	26.5
	Pilot system pressure	MPa	3.9
	Hydraulic tank capacity	L	320
Machine	Length of boom	mm	6400 / 6200
	Length of arm	mm	2670 / 2900
	Bucket capacity (Standard/Optional)	m ³	1.6 – standard 1.4 / 1.5 (rock bucket), 1.8 (earthwork bucket) - optional
	Operating weight	Kg	36600

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