

# **XE55U**

**Hydraulic Excavator**

XCMG official Platform  
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## Advanced Configuration

### Ecological and economical

- ▶ High pressure direct injection spark ignition engine compliant with Euro stage V and North American Tier 4F Emission Standard
- ▶ The excellent matching of hydraulic system and engine is more powerful and fuel saving
- ▶ Exhaust gas recirculation (EGR), diesel oxidation catalyst (DOC) and diesel particulate filter (DPF) technology is more environmentally friendly

### Multiple applications

- ▶ Short tail design and short slewing radius can achieve flexible operation in confined space
- ▶ The dozer blade can swing to the left and right, which makes the machine operate more efficiently in confined space
- ▶ Multiple additional configurations meet different operating requirements

### Comfortable operating experience

- ▶ Fresh air conditioning system to ensure the appropriate temperature
- ▶ Toughened glass cockpit with good safety view
- ▶ Detailed design concept improves comfort



### Safe and durable

- ▶ Integrated body design
- ▶ Strengthened structure and stress dispersing
- ▶ Upgrade structure to improve load bearing performance

### Convenient maintenance

- ▶ Easy maintenance design, open the engine hood for no dead angle maintenance
- ▶ The high pressure quick coupler pipeline and the back-up pipeline with adjustable flow make you use at ease.

### Excellent after-sales service

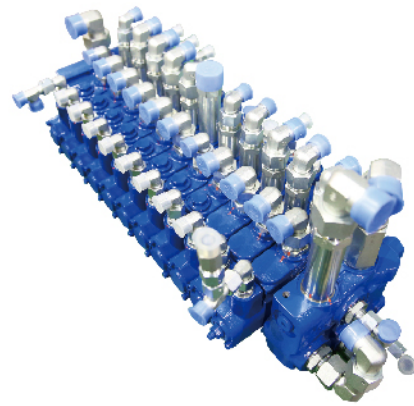
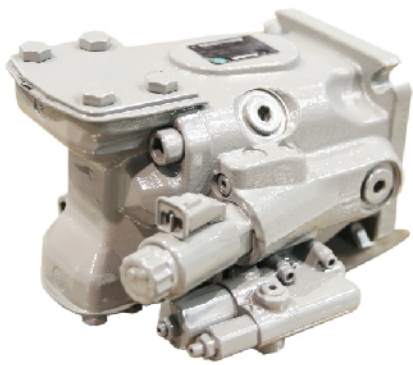
- ▶ Global after-sales service system and quick response mechanism
- ▶ Real-time technical consultation and maintenance

## Ecological And Economical

- ▶ Adopting high pressure direct injection spark ignition engine, which makes each drop of fuel count and delivers better fuel economy
- ▶ More accurately controlled fuel injection time and lower noise, the technologies such as Exhaust Gas Recirculation (EGR), Diesel Oxidation Catalyst (DOC) and Diesel Particulate Filter (DPF) make the engine compliant with Euro stage V emission standard



- ▶ 1. The new-generation hydraulic components combined with the latest research achievements have higher efficiency, more accurate control and higher reliability so that strong digging force and excellent operating efficiency are ensured



- ▶ 2. The load self-adaptative control technology helps combine hydraulic control with electrical control, which allows the load vary with engine power and makes full use of each drop of fuel. The fuel is saved by 9% in E mode and the efficiency is increased by 22% in P mode
- ▶ 3. The powers of hydraulic pump and engine match intelligently, which determines working condition automatically, ensures flow output, decreases engine speed drop ratio and ensures working efficiency of excavator.



## Multiple Application Conditions



- ▶ 1. The short tail design with short slewing radius, the left and right boom swing angle is respectively 70° and 53°, it can realize complex operation together with upper structure slewing to ensure that the digging is parallel with wall surface in narrow space through the cooperation of upper structure slewing so as to easily deal with various operating conditions.

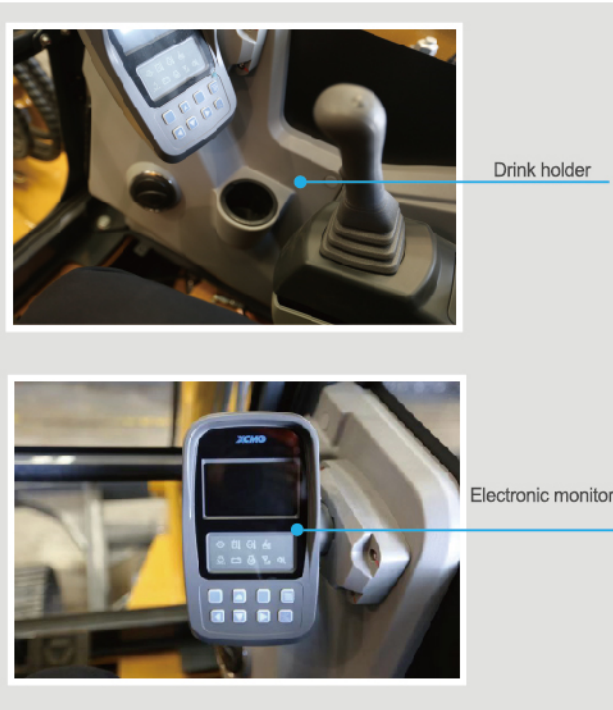
- ▶ 2. Operation in narrow lane can also be done through the swing of the dozer blade and its left and right swing angle is 25° respectively.



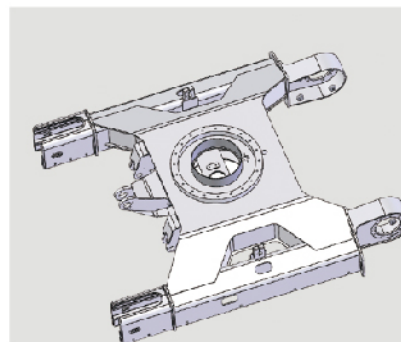
- ▶ 3. With one set of high pressure quick coupler pipeline and two sets of back-up pipelines with adjustable flow, it can provide more attachment options and the adjustable flow control allows user to operate more smoothly.

### Comfortable And Reliable

- ▶ 1. Equipped with fresh air conditioning system, the new large view cab has better cooling and heating effects, and thus make the operation environment more comfortable.
- ▶ 2. The cab, undercarriage and console are integrated by adopting advanced welding technology, which greatly reduces indoor noise and ensures the comfort of operator.



- ▶ 1. Large area toughened glasses are equipped on the cab, which ensures the strength meanwhile improves vision, headlamp is equipped on the roof of the cab to ensure accurate and safety operation at night
- ▶ 2. Strengthened boom and arm, adjusted structure and dispersive stress greatly improve service life.
- ▶ 3. With X-frame chassis structure, reinforced plate and enlarged box cross section, its bearing performance is greatly improved.



### Maintenance And Service

- ▶ 1. After the hood is opened, the maintenances of diesel engine filter and oil filter are within reach; the inspection and refilling of oil and air conditioner refrigerant are extremely convenient.
- ▶ 2. A wide range of after-sales service system, quick-response rescue mechanism to ensure that you use at ease



### Standard Equipment

	Name of equipment	XE55U
	Engine model	2403
	Emission level	North America 4F
	Oil-water separator with water level indication sensor	
	Air cleaner (equipped with air cleaner blockage indicator)	
	Double filter element of air filter	
Engine	Collector type engine oil filter	
	Collector type fuel main filter	
	Fan shroud	
	Radiator auxiliary water tank	
	Oil-water separator	
	Alternator	

Engine	Engine mounting system	Cab and interior trim	Cleanable floor mat
	Fuel level sound prompting system		Engine key switch
	Fuel radiator		LCD liquid crystal monitor
Hydraulic system	Automatic idle speed	Cab and interior trim	Air conditioning system
	Boom deflection line		High and low gears shift
	Control valve with main overflow valve		Cigarette Lighter/Standby Power Supply
	Pilot filter		Internal lighting in the cab
	Oil suction filter		Rearview mirror
	Accumulator		Top sunroof
Cab and interior trim	Hydraulic oil ISO VG 46	Safety and security configuration	Intermittent multi-gear wiper
	Gauge pressure monitoring		Document bag
	AM - FM radio with digital display		Driving door locks and cabin locks
	Adjustable seat armrest		Alarm horn
	Seat belt (51 mm [2 "] wide)		Engine Emergency Stop Switch
	Front window washer		Rear window emergency exit
	Footrest board		Battery circuit breaker
	Openable windscreen with auxiliary device		Boom and arm retaining valve
	Removable front and lower windshield		Emergency escape hammer
	Laminated windshields and other toughened windows		Anti-skid plate/anti-skid paste
	Sliding door upper window		Hydraulic safety locking lever
	Luxury seat		Emergency escape hammer
Color liquid crystal display capable of displaying warning information, filter / liquid replacement information and working hours	Left and right rearview mirrors		
Control handle	Chassis system and shield	Dozer blade	
Travel control pedal with detachable manual control lever		Bottom frame traction ring	
Boom deflection foot valve		Protective device kit: chassis bottom sealing plate, walking motor sealing plate	
Two stereo speakers	Equipment	rubber belt track	
Beverage cup holder		Boom 2.85m	
Coat and hat hook		Arm 1.57 m	

Equipment	Bucket 0.16m <sup>3</sup> earthwork bucket
	Swing post
	Battery (750 CCA)
Electrical system	60A alternator
	2.0 kW starter motor
	Work mode switching
	Boom work light
Lighting lamp	Front working light installed on cab top
	Cab interior lighting
Counterweight	710 KG counterweight
Technology	Load adaptive intelligent control system
Lubrication system	Concentrated rotary lubrication

	Falling object protection structure (FOPS)
	400 mm (16 ") three-rib track shoe
Chassis system and shield	Bulldozer shovel (with bulldozing deflection)
	Track dual guardrail device
Equipment	Quick coupler
	Hydraulic breaker
Electrical system	Travel alarm

### Optional Equipment

	Name of equipment
	Electrically controlled main pump
	Auxiliary hydraulic valve
	Earth-pushing deflection pipe
Hydraulic system	Quick change line
	Double standby hydraulic pipeline with adjustable flow
	Operation mode switching
	Hydraulic oil ISO VG 32, 68
	Spare valve plate
Cab and interior trim	Fire extinguisher
	Explosion-proof valve for boom and arm pipeline
Safety and security configuration	Rotary alarm lamp

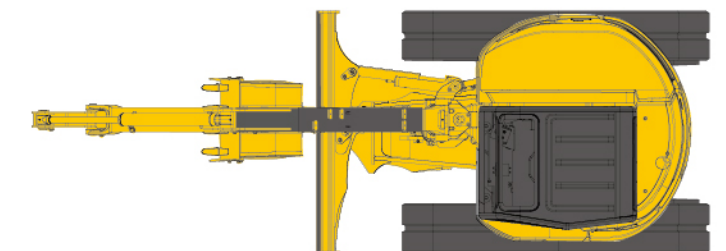
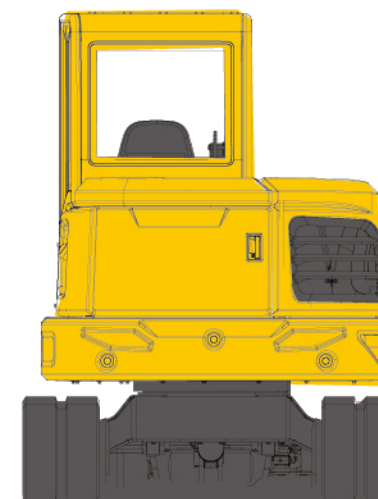
### Main Specifications

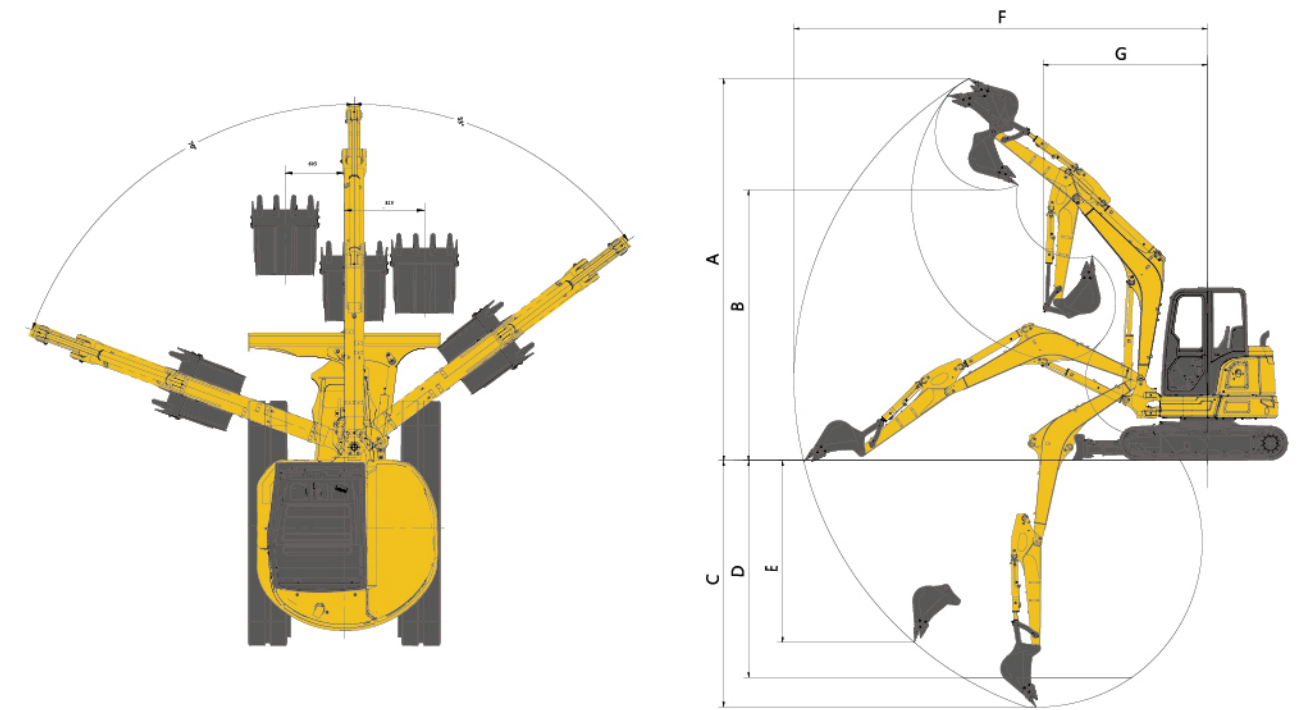
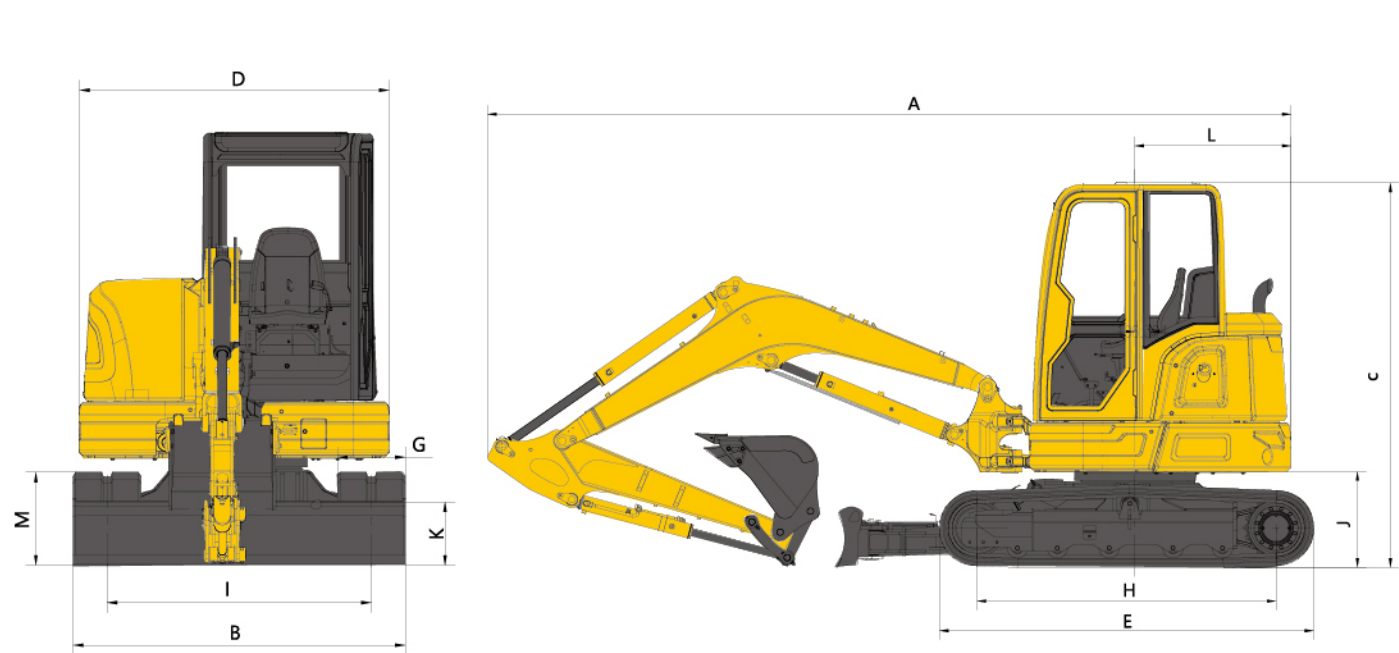
Item	Unit	Parameters
Model	/	XE55U
Operating Weight	Kg	5700
Bucket Capacity	m <sup>3</sup>	0.16
Engine Model	/	2403
Electronic Injection	/	√
Four Strokes	/	√
Water Cooling	/	√
Turbocharging	/	/
Air-to-air Intercooler	/	/
No. of Cylinder	/	4
Rated Power	kw/rpm	31.2/2200
Maximum Torque/Speed	N.m/rpm	159.8/1500
Displacement	L	2.434

	Item	Unit	Parameters
Main Performance	Travel Speed	km/h	4.6/2.8
	Swing Speed	r/min	9.5
	Gradeability	°	35
	Ground Pressure	kPa	32
	Bucket Digging Force	kN	44.5
	Arm Digging Force	kN	24.3
	Maximum Tractive Force	kN	52.8
Hydraulic System	Main Pump	/	/
	Rated Flow of Main Pump	L/min	158.4
	Main Safety Valve Pressure	MPa	30
	Travel System Pressure	MPa	30
	Swing System Pressure	MPa	24
	Pilot System Pressure	MPa	3.5
Oil Capacity	Fuel Tank Capacity	L	68
	Hydraulic Tank Capacity	L	46
	Engine Oil Capacity	L	9.5

## Dimensions

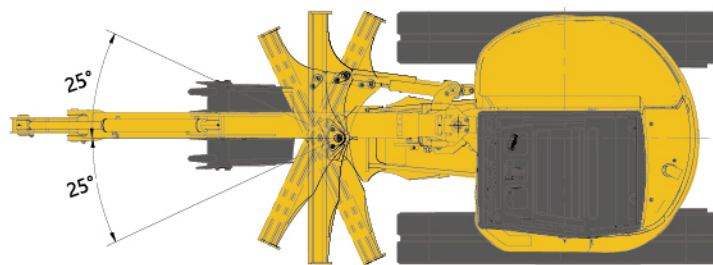
	Item	Unit	Parameters
Overall Dimensions	A Overall Length	mm	5340
	B Overall Width	mm	1960
	C Overall Height	mm	2555
	D Width of Platform	mm	1830
	E Track Length	mm	2490
	F Total Width of Chassis	mm	1960
	G Track Shoe Width	mm	400
	H Crawler base	mm	1990
	I Track Gauge	mm	1560
	J Counterweight Clearance	mm	637
	K Minimum Ground Clearance	mm	315
	L Minimum Tail Swing Radius	mm	1040
	M Track Height	mm	550





**Working Range**

Item	Unit	Parameters
Track Height	mm	550
Maximum Digging Height	mm	5650
Maximum Dumping Height	mm	4010
Maximum Digging Depth	mm	3640
Maximum Depth Cut for 2240mm(8 ft) Level Bottom	mm	3200
Maximum Vertical Wall Digging Depth	mm	2690
Maximum Digging Radius	mm	6110
Minimum Swing Radius	mm	2430



**Lifting Capacity**

Lifting point height (m)	Rated lift capacity – Straight ahead (back) (kg)						Rated lift capacity – over-side (kg)					
	Lifting point radius (m)					Lifting capacity at maximum radius	Lifting point radius (m)					Lifting capacity at maximum radius
	1	2	3	4	5		1	2	3	4	5	
4				1260		*1160				800		730
3				1250		930				790		580
2			1900	1220	880	810			1150	760	550	510
1			1800	1180	860	810			1070	730	540	500
Ground		*1990	1760	1150	850	830		1900	1030	700	530	510
-1		3660	1750	1150		940		1910	1020	700		580
-2		*3300	1770			1250		1950	1040			760

Capacities marked with an asterisk(\*) are limited by hydraulic capacities.





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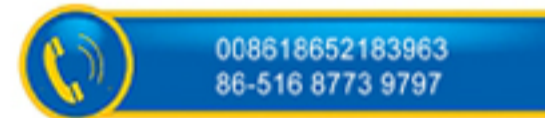
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