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Mini Excavators
XE55E



XCMG European Sales & Services GmbH

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Rated Power:30.7kW
Operating Weight: 5.7t
Standard Bucket Capacity: 0.16m³





INTRODUCTION OF XCMG

Founded in 1943, XCMG is a multinational corporation with the most comprehensive range of competitive, influential products in the construction machinery industry. Our business covers eight key areas: construction machinery, heavy trucks, mining machinery, sanitation machinery, machinery components, construction, finance, and the ICT industry.

XCMG has established a global R&D network with a total of six centers in China, the US, Germany, Brazil and India, with China national technology center at its core. In addition to a number of manufacturing bases across China, the US, Germany, the Netherlands, Poland, Austria, Brazil, India, and Uzbekistan, we possess two complete machine brands (XCMG, Schwing), and several component brands including FT, AMCA. It is the strength of this global R&D network and manufacturing operations that has made XCMG the industry leading global construction equipment manufacturer that it is today.

For more than 30 years, XCMG has been sowing the seeds of overseas development as the No. 1 exporter in China's construction machinery industry. Today, we have 42 branches and offices, 315 distributors, 526 contractors in 188 countries and regions worldwide are still growing rapidly.

XCMG IN EUROPE

Since its foundation in 2012, XCMG is gradually establishing a complete network including: R&D department, local distribution, supply chain management and an integrated customer services and training centre. Nowadays, with 4 branches, XCMG has 178 multinational employees in Europe, of which more than 50% are R&D engineers:

ERC: XCMG European Research Center GmbH

EPC: XCMG European Purchasing Center GmbH

ESS: XCMG European Sales and Services GmbH

Our local professional R&D team and cutting-edge innovation platform guarantee that our products are carefully crafted to the smallest detail according to the diverse needs of European customers.



► Performance meets Efficiency

Designed to combine power and smoothness, the XE55E is ready to take on the challenge. This short-tail 5,7 tonnage machine can easily perform on your jobsites even in confined spaces. Its versatility is enhanced by two standard hydraulic circuits (AUX1 & AUX2) and precise oil flow control. High digging and lifting performance together with smooth driving performance make this XE55E complete with the Mottrol and Rexroth supplied components.

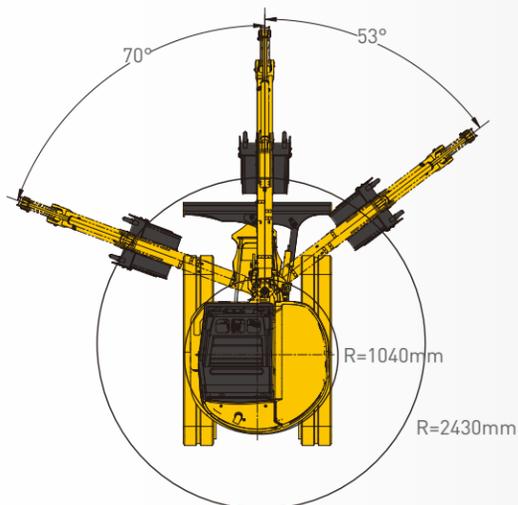
- The Kubota V2403 Stage V common rail diesel engine with EGR, DOC and DPF technology is an excellent match with our improved hydraulic load sensing system. This combination ensures fuel efficient and smooth control, regardless of its load. Our powerful XE55E has become therefore more fuel efficient even under heaviest circumstances and is a pleasure to operate.

Tight Tail Swing

This tight tail swing model and short slewing radius prove to be highly versatile when undertaking operations in a confined space. 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.

Optional Angle Dozer Blade

The dozer blade can swing to the left and right, which makes the machine operate more efficiently when grading.



Most compact one than ever.

Complete Equipped with AUX1, AUX2, and Quick Coupler lines.

With the multiple programmable 2-way proportional auxiliary lines and quick-coupler piping the XE55E meets almost all your attachment needs.

Boom, Arm Safety Valves and Blade Holding Valve as Standard

The XE55E is fitted as standard with a boom cylinder safety valve, an arm cylinder valve and a dozer holding valve to dig and handle all your material in a safe way.

► Ergonomic and Comfortable

With the XE55E, your comfort comes first. The cab has a wide entrance door, which makes it more accessible. The OPG/TOPS/ROPS(ISO 3471) cabin maximises your safety.



- 1 Travel pedals
- 2 Foldable walking pedal
- 3 Adjustable (suspension) seat
- 4 Blade control lever
- 5 Control switches
- 6 Air conditioning
- 7 Colour LCD monitor
- 8 Proportional joystick
- 9 Air conditioning control unit
- 10 Adjustable arm support
- 11 Radio

Easy Service Access

Our XE55E is developed with taking particular attention to easy service access. With a single access point for the daily maintenance of all main components, fuel level gauge and refuelling through the lockable cap.



One-sided Engine Maintenance

The XE55E is designed for lower maintenance cost with longer service intervals - resulting in more machine availability on-site. Meanwhile, skilled XCMG-trained technicians are available to provide extra support when needed.



- 1 Fuel filter
- 2 Engine oil filter
- 3 Water separator
- 4 Coolant
- 5 Air filter
- 6 Battery
- 7 Radiator & Oil cooler

Engine

XE55E	
Make/model	Kubota/V2403/EU Stage V
Fuel/cooling	Diesel/Liquid, forced circulation
No. of cylinders	4
Piston displacement	2434cm ³
Power output	30.7 kw (41.1 hp) / 2200 rpm (ISO 14396)
Max torque	159.8Nm/1500 rpm
Bore x stroke	87mmx102.4mm
Alternator	12 V- 60A

Fluid capacities

XE55E	
Cooling system (radiator capacity)	12 l
Engine lubrication plus oil filter	9.5 l
Fuel tank	68 l
Hydraulic tank	46 l
Hydraulic system	41l
Final drive case (each)	1 l

Environment

Noise levels comply with environmental regulations (dynamic values).

Noise emission

XE55E	
Noise level LpA (ISO 6396)	79dB(A)
Noise level LwA (ISO 6395)	96dB(A)

Undercarriage

X-type undercarriage. The heavy-duty crawler chassis is very resilient with its fully welded, stress-free structure.

Long service life is ensured by the use of first-class materials: hydraulic chain adjusters with shock-absorbing return springs, lifetime-lubricated track rollers and idlers.

Number of rollers and track shoes

XE55E	
Bottom rollers (per side)	5
Track shoes	Rubber
Overall track length	2490mm
Shoe width	400mm



Hydraulic system

This original XCMG design allows independent and combined operations of all functions by hydraulic piloted controlled levers.

Pump

XE55E	
Type	Load-sensing axial-piston pump with variable displacement
Total hydraulic capacity	158.4l/min
AUX1 & AUX2 maximum flow rate	90l/min
AUX1 / AUX2 standard relief pressure	170bar

Maximum system pressure

XE55E	
Boom	320bar
Arm / bucket / travel	320/320/284bar
Swing	230bar

Swing mechanism

High-torque, axial piston motor with planetary reduction gear bathed in oil. Swing circle is single-row, shear type ball bearing with induction-hardened internal gear. Internal gear and pinion gear immersed in lubricant. Equipped with an automatic multi-disc slew brake.

Swing system

XE55E	
Boom swing, left	70°
Boom swing, right	53°
Slew rate	9.5rpm

Drive

Each track is driven by an independent, high-torque, axial piston motor through planetary reduction gears. Two control levers provide smooth travel or counter-rotation upon demand.

Speed & traction

XE55E	
Travel speed (low - high)	2.8-4.6km/h
Traction force	52.8kN
Gradeability	70%/35°

Digging forces (ISO 6015)

At power boost.

XE55E	
Digging force, standard arm (ISO 6015)	24.3kN
Digging force, long arm (ISO 6015)	23.4kN
Digging force, bucket (ISO 6015)	44.5kN

Weight

XE55E	
Operating weight with cab and bucket(ISO6016)	5700kg
Ground pressure with rubber tracks	0.32kg/cm ²
Transport mass (no attachment)	5626kg
Weight of steel tracks	310kg
Weight of rubber tracks	240kg
Additional weight for long arm	27kg



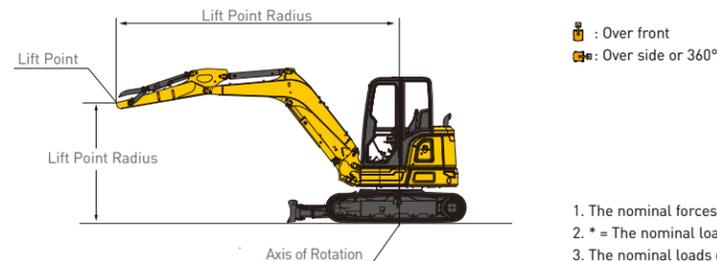
XE55E

■ Cab • standard arm (1570mm) • standard counterweight • without bucket

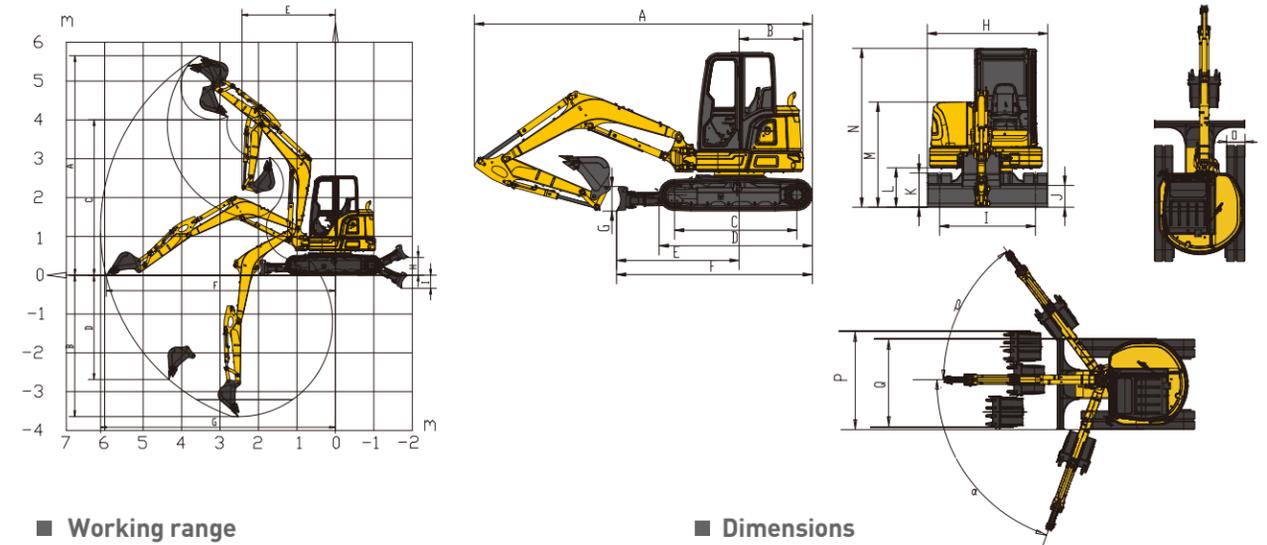
Lift Point Height	Over Front					Over Side					Max Radius (Mm)		
	Lift At Max Radius(Kg)	1.0m	2.0m	3.0m	4.0m	5.0m	Lift At Max Radius(Kg)	1.0m	2.0m	3.0m		4.0m	5.0m
4m	1160*				1260		730				800		4198
3m	930				1250		580				790		4848
2m	810			1900	1220	880	510			1150	760	550	5250
1m	810			1800	1180	860	500			1070	730	540	5242
0m	830		1990*	1760	1150	850	510		1900	1030	700	530	5075
-1m	940		3660	1750	1150		580		1910	1020	700		4637
-2m	1250		3300*	1770			760		1950	1040			3804

■ Cab • long arm (1900mm) • standard counterweight • without bucket

Lift Point Height	Over Front					Over Side					Max Radius (Mm)		
	Lift At Max Radius(Kg)	1.0m	2.0m	3.0m	4.0m	5.0m	Lift At Max Radius(Kg)	1.0m	2.0m	3.0m		4.0m	5.0m
4m	1013				1272		641				809		4600
3m	839				1261		526				799		5188
2m	763			1920	1226	878	475			1170	767	550	5486
1m	739			1810	1181	859	457			1073	726	532	5553
0m	760		2078*	1746	1147	843	467		1853	1017	694	517	5397
-1m	840		3600	1728	1132		514		1863	1001	681		4994
-2m	1052		3646	1741			640		1898	1013			4254



1. The nominal forces are based on the SAE J1097 standard.
2. * = The nominal loads are based on hydraulic capacity.
3. The nominal loads do not exceed 87% of the hydraulic capacity or 75% of the capacity of the swing.



■ Working range

	XE55E
A	Maximum digging height - std arm: 5650 mm
	Maximum digging height - long arm: 5770 mm
B	Maximum digging depth - std arm: 3640 mm
	Maximum digging depth - long arm: 3880 mm
C	Maximum dumping height - std arm: 4010 mm
	Maximum dumping height - long arm: 4310 mm
D	Maximum vertical wall digging depth - std arm: 2690 mm
	Maximum vertical wall digging depth - long arm: 2900 mm
E	Minimum swing radius - std arm: 2430 mm
	Minimum swing radius - long arm: 2490 mm
F	Maximum digging reach at ground level - std arm: 5960 mm
	Maximum digging reach at ground level - long arm: 7740 mm
G	Maximum digging reach - std arm: 6110 mm
	Maximum digging reach - long arm: 6320 mm
H	Maximum dozer lifting height: 450 mm
I	Maximum dozer cutting depth: 400 mm

■ Dimensions

	XE55E
A	Overall length: 5340 mm
B	Tail slew radius: 1040 mm
C	Tumbler length: 1990 mm
D	Track length: 2490 mm
E	Dozer blade, maximum reach at ground level: 1995 mm
F	Undercarriage length: 3185 mm
G	Dozer blade height: 400 mm
H	Overall width: 2150 mm
I	Track gauge: 1560 mm
J	Minimum ground clearance: 315 mm
K	Track height: 550 mm
L	Ground clearance of counterweight: 637 mm
M	Overall height of engine hood: 1695 mm
N	Overall height: 2555 mm
O	Track shoe width: 400 mm
P	Working width at maximum right-hand rotation: 2130 mm
Q	Working width at maximum left-hand rotation: 1960 mm
R	Maximum boom offset to the right: 815 mm
S	Maximum boom offset to the left: 605 mm
a	Maximum boom swing angle to the right: 70°
β	Maximum boom swing angle to the left: 53°

► Standard and optional equipment

■ Engine

Kubota engine V2403, EU Stage V, EGR, DOC, DPF ●

■ Hydraulic system

Single or dual way pipeline [AUX1] ●
 Dual way pipeline [AUX2] ●
 Hydraulic quick coupler line ●
 Fingertip proportional control ●

■ Cab & interior

TOPS/ROPS (ISO 3471) ●
 OPG ○
 Adjustable seat ●
 Textile and permeable suspension seat with retractable belt ○
 Air conditioning ●
 Colour LCD monitor ●
 AM/FM radio with Bluetooth ●
 DAB radio with Bluetooth ○

■ Safety

Boom, arm and dozer cylinder safety valves ●
 Travel alarm ●
 Rotation beacon ○
 Engine overheat warning and restart prevention system ●
 Quick coupler switch with alarm ●
 Emergency stop switch ●
 Front and top cab protection ○
 LED work lights (2 on cab-front, 1 on cab-rear, 1 on boom) ●

■ Undercarriage

Fixed undercarriage ●
 Slewing dozer blade ○
 Tie down bracket ●
 Rubber tracks 400 mm ●
 Steel tracks 400 mm ○

■ Other

Standard arm 1570 mm ●
 Long arm 1900 mm ○
 General purpose bucket 0.16 m³ ○
 Quick coupler, attachments such as hammer, clamshell ○

Standard: ●
 Optional: ○

Some of these options/equipment may not be available for certain markets. Please contact your local XCMG dealer for more information on availability or to customise your machine to suit your application requirements.



Optimum services , XCMG Guaranteed



XCMG approved attachments



Genuine parts



Extension of warranty



Financial solutions



Maintenance contract



Telematics



Monitoring systems

Professional Integrated Complete Solutions

XCMG group has built a strong reputation based on the quality, reliability and durability of its construction machinery. What's more, XCMG has gradually established a service network to constantly provide its local integrated and highly efficient complete solutions for all customers.

Full Range of Services Ready for you

In order to respond to your needs as fast as possible, XCMG experts are on their way to your job site from one of our facilities near you. Full range of services are available in order to reduce your total cost of ownership and increase your revenue.



XCMG Global Spare parts System



Mobile cranes



Excavators



Aerial work platforms



Wheel loaders



Road machinery

