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Mini Excavators
XE35E



XCMG European Sales & Services GmbH

Add: Europark Fichtenhain B 4, 47807 Krefeld, Deutschland

Tel: +49 (0) 21 51-82 09-0

Fax: +49 (0) 21 51-82 09-499

E-mail: Europe@xcmg.com

www.xcmg.com

XUZHOU CONSTRUCTION MACHINERY GROUP IMP. & EXP. CO., LTD

Add:NO.1, Tuolanshan Road, Xuzhou Economic Developing Zone,
Jiangsu,China 221004

Tel: +86 (0) 516 8773 8228

Fax: +86 (0) 516 8773 9230

E-mail: Europe@xcmg.com

Rated Power: 18.2kw

Operating Weight: 4.2t

Standard Bucket Capacity: 0.12m³





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 system with a total of six centers across 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, and Wika. It is the strength of this global R&D system 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.

XCMG IN EUROPE

Since its inception in 2012, in these years of quick development in Europe, XCMG has gradually established a completed system including R&D development, local distribution network, supply chain management and an integrated customer services center. 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 diverse needs of European customers.





Higher performance in compact size

Complete confidence for you in tightest of applications

► A superior model with passionate design

Developed with the concept of "Safe reliable efficient comfortable", the XE35E hydraulic excavator offers additional value to the operator. New features are presented making the machines more productive, versatile, and cost effective.

- Yanmar 3TNV88F engine, along with the electronic optimization of the hydraulic system provide high operating efficiency and fuel economy.
- This compact excavator is designed and built to work on more jobsites while reducing risk of damage to the machine and its surroundings.
- Convenient service features make maintenance easy, reducing your downtime.

Zero-tail Swing

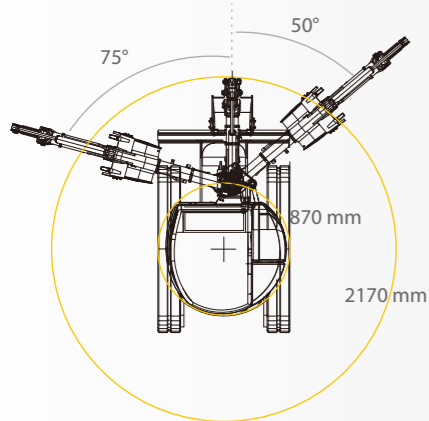
makes the XE35E an advanced mini excavator. The 360° swivel, excellent stability and smooth control, combined with unmatched power and efficiency, mean there are no limits to what you can accomplish — even in heavy traffic areas and inside buildings.

Optimized efficiency

contributes to lower costs, increased productivity and maximum uptime, a number of efficient features combined on the XE35E. ECO mode allows you to choose the right machine setting for the job at hand for impressive fuel efficiency. Robust design and quality digging equipment deliver durability and long term machine value.

Engine speed knob

allows easy engine control.



Most compact one than ever.



Auxiliary Hydraulics as Standard Fit with two way lines

and quick disconnect fittings are standard. Connections are located close to the tool to reduce hose lengths and any potential damage. Hoses are protected by routing them through the boom.

Extending Undercarriage and Blade

allow the machine to be configured for excellent working stability and optimum performance. Blade extensions simply rotate and lock out of the way using retained pins eliminating the potential for lost parts.



Productive comfort

Superior comfort to keep you productive throughout the work day

► Large operator environment with ergonomic control layout

The XE35E gives the operator a large comfortable space in which to work. The ergonomic control layout, travel pedals and adjustable wrist rests are engineered to reduce operator fatigue and increase productivity.



- 1 Ample operator's space
- 2 Foldable walking pedal
- 3 Adjustable (suspension) seat
- 4 Emergency switch
- 5 Bulldozer control handle
- 6 Shift switch
- 7 Air conditioner
- 8 Colorful monitor
- 9 Hydraulic joystick
- 10 Window
- 11 Electric box
- 12 Adjustable arm support
- 13 Glasswater filling port

Simplest and easiest way to work

The status and condition of all components can be seen at a glance. The convenient and easy serviceability are really impressive. The most advanced technology developed by XCMG German research center was integrated into the XE35E excavator for powerful performance and simple, easy maintenance.



Excellent Service Access

Daily checks and regular service points including fuel and hydraulic oil fill are easily reached via the large steel rear door. The main hydraulic valve and lines are also easily reached through a removable floor plate and side panels. The machine has durable steel body panels all around, offering good resistance to impact damage and helping to maintain the machine's appearance and value.



- 1 Fuel water separator
- 2 Compressor Freon fill port
- 3 Engine oil fill port
- 4 Fuel filter
- 5 Engine oil filter

Engine

XE35E	
Make/model	YAMAR 3TNV88F
Fuel/cooling	Diesel/Liquid, forced circulation
No. of cylinders	3
Piston displacement	1642 cm ³
Nominal flywheel power	18.2 kw (24.7 hp) at 2200 rpm (ISO 14396)
Max torque	85.3-94.2Nm/1320
Bore x stroke	88 mm x 90 mm
Alternator	12 V / 40 A

Hydraulic system

This original design enables both independent and combined operations of all functions, joystick control type operations.

Pump

XE35E	
Type	Single outlet variable displacement, load sensing torque limited pump with gear pumps
Total hydraulic capacity	108l/min
Auxiliary flow	40l/min
Auxiliary relief 1/2	150/270bar

Maximum system pressure

XE35E	
Boom	270bar
Arm / bucket / travel	270bar
Swing	230bar

Undercarriage

Tractor-type undercarriage. Heavy-duty track frame, all welded stress-relieved structure. Top-grade materials are used for toughness. Side frames are welded, securely and rigidly, to the track frame. Lifetime-lubricated track rollers, idlers with floating seals. Hydraulic track adjusters with shock-absorbing recoil springs.

Number of rollers and track shoes

XE35E	
Lower rollers (per side)	4
Track shoes	Rubber
Overall track length	2220mm
Shoe width	300mm

Fluid capacities

XE35E	
Cooling system (radiator capacity)	8 l
Engine lubrication plus oil filter	7 l
Fuel tank	40 l
Hydraulic tank	45 l
Hydraulic system	39.7 l
Final drive case (each)	0.7 l

Environment

Noise levels comply with environmental regulations (dynamic values).

Noise emission

XE35E	
Noise level LpA (EU Directive 2000/14/EC)	76dB(A)
Noise level LwA (EU Directive 2000/14/EC)	94dB(A)

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. A two position swing lock secures the upper structure for transportation.

Swing system

XE35E	
Boom swing, left	75°
Boom swing, right	50°
Slew rate	9rpm

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

XE35E	
Travel speed (low - high)	2.2-3.6km/h
Traction force	3160kgf
Gradeability	30°

Digging forces (ISO 6015)

XE35E	
Digging force, standard arm (ISO 6015)	20.3kN
Digging force, long arm (ISO 6015)	18kN
Digging force, bucket (ISO 6015)	28.6kN
Drawbar pull	34kN

Weight

XE35E	
Operating weight with cab and bucket (ISO 6016)	4200kg
Ground pressure with rubber tracks	0.36kgf/cm ²
Transport mass (no attachment)	4125kg
Weight of steel tracks	224kg
Weight of rubber tracks	172kg
Additional weight for long arm	19kg



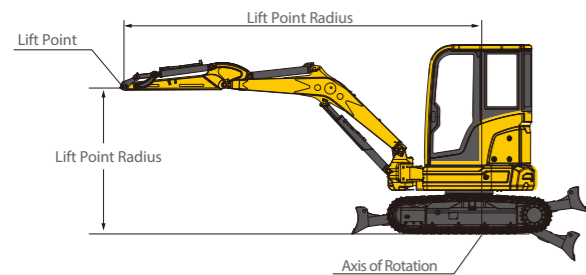
XE35E

With cab · standard arm (1350 mm) · without bucket

Lift Point Height	Over front blade up/down				Over Side				Max Radius (Mm)
	Lift At Max Radius(Kg)	2.0m	3.0m	4.0m	Lift At Max Radius(kg)	2.0m	3.0m	4.0m	
4m	852*		816.9*		852*		816.9*		3337
3m	766.7/812.6*		830.1*	806.8*	680		830.1*	724.1	4137
2m	668/814.8*	1957.3*	1094.8*	807.1/871*	593.4	1921.5	1061.6*	714.3	4570
1m	643.5/830.4*		1170.1/1410.7*	789.4/975.1*	568.8		1016.5	697.2	4672
0m	667/850.4*	1374 *	1145.2/1508.3*	784.7/1013.5*	591.1	1374*	992.9	685.1	4502
-1	774/859.8*	2166.6/2181*	1143.8/1351.4*	778.1/868.3*	682.9	1794.8	991.6	686.3	4017
-2	778.9*	1299.8*			778.9*	1299.8*			3012

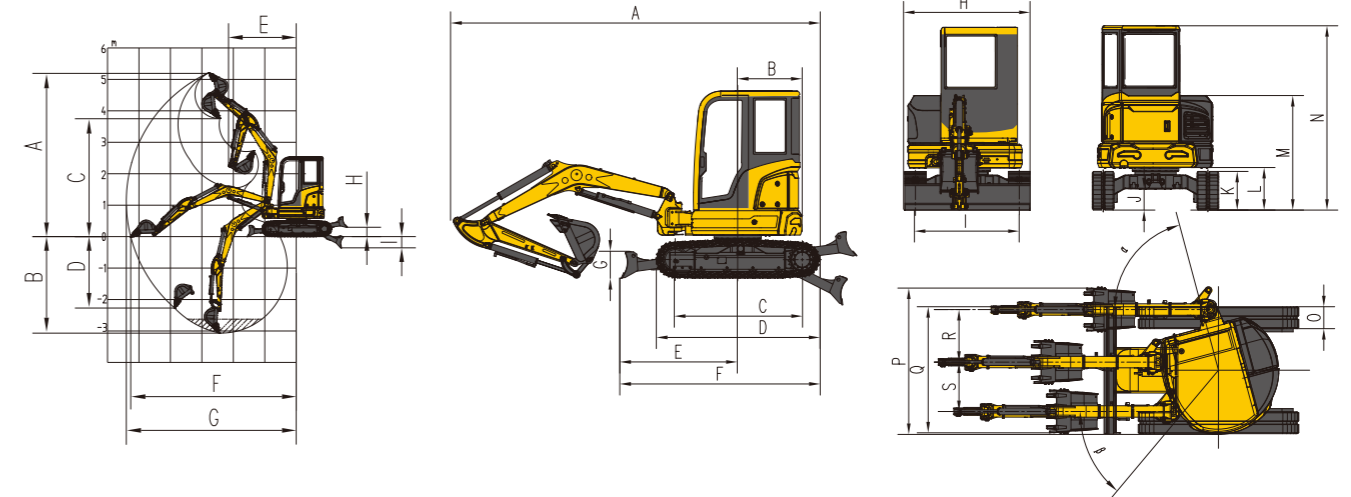
With cab · long arm (1600 mm) · without bucket

Lift Point Height	Over front blade up/down				Over Side				Max Radius (Mm)
	Lift At Max Radius(Kg)	2.0m	3.0m	4.0m	Lift At Max Radius(kg)	2.0m	3.0m	4.0m	
4m	752.6*		687.3*		752.6*		687.3*		3620
3m	710.6/739.1*		718.2*	728.8*	739.1*		718.2*	723.4	4388
2m	625.3/750.8*		981.5*	803.5/810.1*	555.2		981.5*	710.2	4763
1m	600/773.6		1165.5*	782.4/931.4	532.3		1011.4	689.9	4860
0m	618.8/799.1*	1371.2*	1132.2/1488.5*	766.1/999.7*	548	1371.2*	979.8	674.2	4711
-1	707.7/830.2*	2132.6/2375.7*	1125.6/1405.4*	762.5/926.5*	624.3	1762.8	973.7	670.9	4243
-2	822.2*	1612.4*			822.2*	1612.4*			3331



: Over front
 : Over side or 360°

1. The nominal forces are based on the ISO10567:2007 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

	XE35E	
A	Maximum digging height-std arm	5000mm
	Maximum digging height-long arm	5175mm
B	Maximum digging depth- std arm	3060mm
	Maximum digging depth- long arm	3264mm
C	Maximum dumping height- std arm	3600mm
	Maximum dumping height - long arm	3853mm
D	Maximum vertical wall digging depth-std arm	2260mm
	Maximum vertical wall digging depth-long arm	2384mm
E	Minimum swing radius- std arm	2170mm
	Minimum swing radius- long arm	2214mm
F	Maximum digging reach at ground level- std arm	5200mm
	Maximum digging reach at ground level- long arm	5407mm
G	Maximum digging radius- std arm	5300mm
	Maximum digging radius- long arm	5546mm
H	Maximum dozer lifting height	305mm
I	Maximum dozer cutting depth	360mm

Dimensions

	XE35E	
A	Over length	4960mm
B	Tail slew radius	870mm
C	Tumbler length	1721mm
D	Track length	2200mm
E	Dozer blade, maximum reach at ground level	1590mm
F	Undercarriage length	2690mm
G	Dozer blade height	367mm
H	Overall width	1740mm
I	Track gauge	1440mm
J	Minimum ground clearance	297mm
K	Track height	531mm
L	Ground clearance of counterweight	587mm
M	Over all height of engine hood	1576mm
N	Overall height	2535mm
O	Track shoe width	300mm
P	Working width at maximum right-hand rotation	2005mm
Q	Working width at maximum left-hand rotation	1728mm
R	Maximum boom offset to the right	770mm
S	Maximum boom offset to the left	580mm
α	Maximum boom swing angle to the left	75°
β	Maximum boom swing angle to the right	50°

Standard and optional equipment

Engine

Yanmar engine 3TNV88F, EU Stage V

Hydraulic system

Single or dual way pipeline (AUX1)
 Dual way pipeline (AUX2)
 Hydraulic quick coupler line
 Proportional joysticks control

Cab & interior

TOPS/OPG cab
 Adjustable seat
 Textile and permeable suspension seat with retractable belt
 Air conditioning
 Colorful LCD monitor
 AM-FM radio with digital display
 DAB radio with Bluetooth

Undercarriage

Fixed undercarriage
 Dozer blade
 Track guards
 Rubber tracks 300 mm
 Steel tracks 300 mm

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)

Other

Standard arm 1350 mm
 GP bucket 0.12 m3
 Long arm 1600 mm
 Narrow bucket 0.06 m3
 Quick coupler, attachments such as hammer, clamshell

Standard:
 Optional:

Some of these options may be standard in some markets. Some of these options may not be available for certain markets. Please check with your local XCMG dealer for more information about availability or to adapt your machine to your application needs.





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 users.

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 Spareparts System



Mobile cranes



Excavators



Aerial work platforms



Wheel loaders



Road machinery

