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Mini Excavators
XE18E



XCMG European Sales & Services GmbH

Add: Europark Fichtenhain B 4, 47807 Krefeld, Deutschland

Tel: +49 (0) 2151 8209 351

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 9228

Fax: +86 (0) 516 8773 9230

E-mail: Europe@xcmg.com



Rated Power: 11.8kw
Operating Weight: 1.8t
Standard Bucket Capacity: 0.04m³





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 in 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 and 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.





High Performance in Tight Conditions

► A Compact Model with High Performance

This mini excavator is ready for today's tough jobs. XE18E with OPG/TOPS/ROPS(ISO 3471) canopy provides excellent visibility, stability, optimal comfort and safety. For tough jobs in tight corners that demand precision control and state-of-the-art performance. XE18E is ready to work, offering following advanced features: Zero-tail swing, hydraulic retractable undercarriage, boom swing, short and long arm and powerful digging forces. Add high reliability, low operating costs, and superior efficiency, and you've got the ideal mini for a wide range of modern jobs.

Zero-tail Swing

With zero-tail swing, even the tightest space becomes an efficient work place. The tail always stays within the width of the tracks (when extracted) and lets you turn the canopy throughout its 360-degree turning radius with complete confidence and safety. Starting point by developing our zero-tail XE18E, balance, fast and smooth operation was our main target. It results in a compact excavator with excellent balance and comes to its full potential in urban environments, landscaping, and small demolition in and outside buildings.

Retractable Undercarriage

With the standard hydraulic retractable undercarriage passing through a narrow doorway or gate is easy. Extracted the undercarriage guarantees the operator better stability, lifting and loading performance.



Boom Swing

The left and right boom swing angle supports complex operating conditions like parallel wall digging or working in narrow spaces.

AUX1 Double Working Attachment Pipeline as Standard

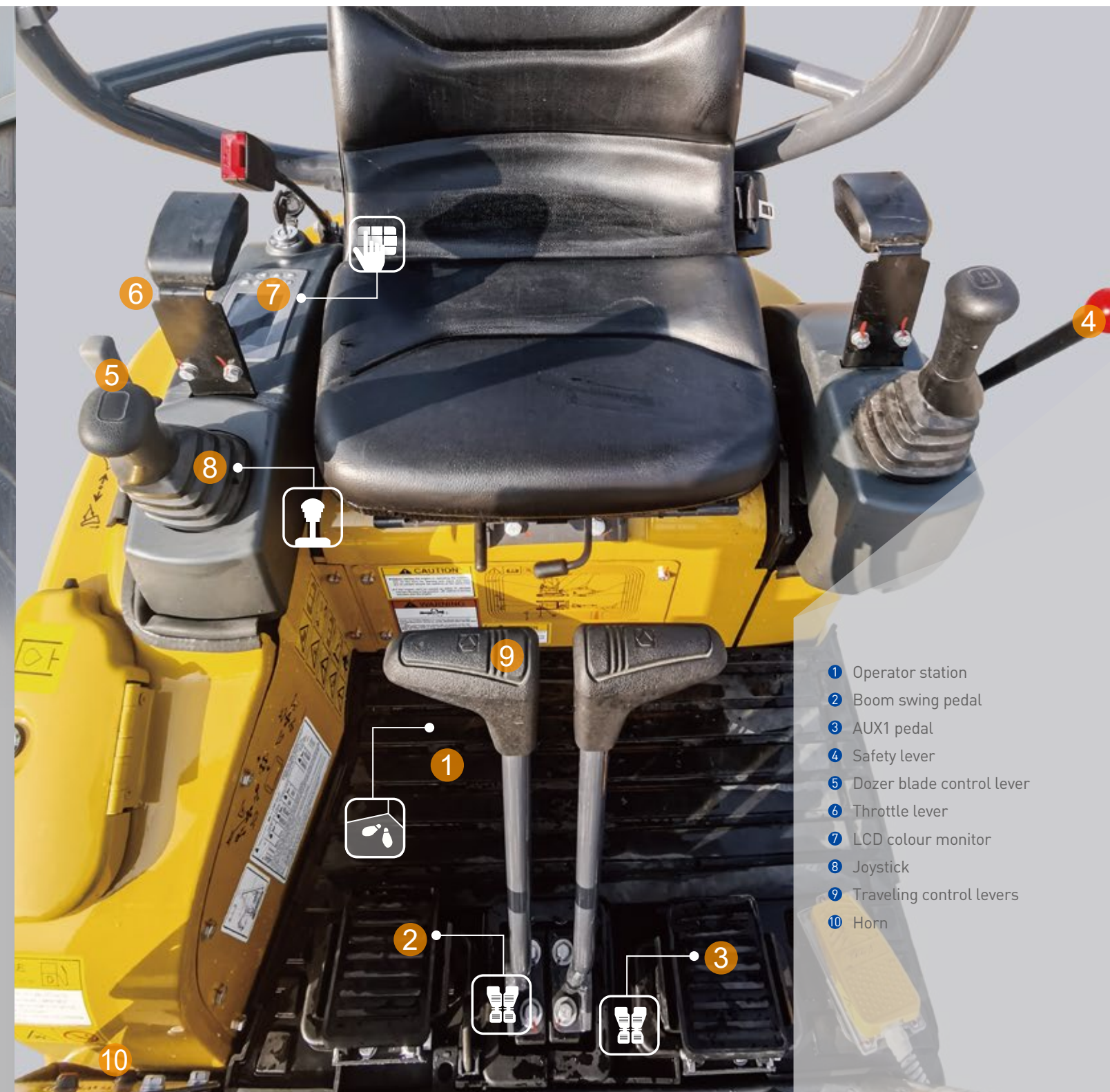
The auxiliary pipeline provides single-way as well as dual-way hydraulic control, for easy control of attachments.



Operational Comfort

► Large Operator Environment with Ergonomic Control Layout

The XE18E provides an uncompromised operator environment – which, together with excellent visibility, provides unmatched operator comfort and safety. This machine is built around the operator – providing optimal ergonomics for operators of all sizes. Access to the seat is convenient thanks to the large entry.





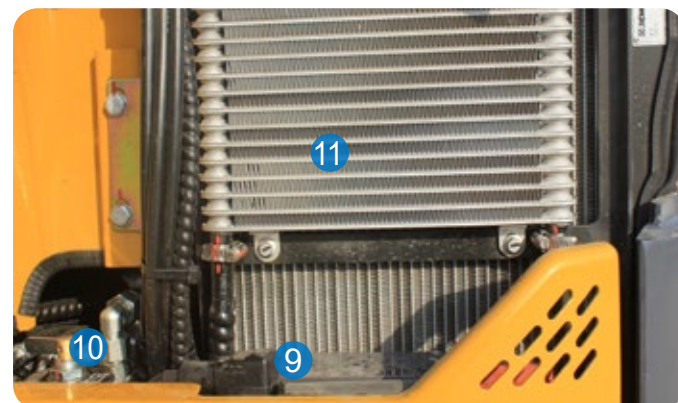
Easy Access for Maintenance

► Easy Service Access

XE18E is developed with taking particular attention to ease of service access. With a single access point for the daily maintenance of all main components, fuel level gauge and refuelling through the lockable cap.



The XE18E 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 | ⑤ Engine oil level check | ⑨ Battery |
| ② Water separator | ⑥ Coolant | ⑩ Main switch |
| ③ Air filter | ⑦ Start motor | ⑪ Radiator & Oil cooler |
| ④ Engine oil filter | ⑧ DC generator | |



Technical Specifications

■ Engine

XE18E	
Make/model	Kubota/D902/EU Stage V
Fuel/cooling	Diesel/Liquid, forced circulation
No. of cylinders	3
Piston displacement	898cm ³
Power output	11.8kw (15.8 hp) /2300 rpm (ISO 14396)
Max torque	51.3Nm/1800 rpm
Bore × stroke	72mm×73.6mm
Alternator	12V/40A

■ Hydraulic system

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

• Pump

XE18E	
Type	Load-sensing axial-piston pump with variable displacement
Maximum system flow rate	64.4L/min
AUX1 maximum flow rate	20L/min
AUX1 standard pressure	150bar

• Maximum system pressure

XE18E	
Boom	253bar
Arm / bucket / travel	253/253/210 bar
Swing	110bar

■ Undercarriage

Retractable 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

XE18E	
Bottom rollers (per side)	3
Track shoes	Rubber
Overall track length	1590mm
Shoe width	230mm



■ Fluid capacities

XE18E	
Cooling system (radiator capacity)	4L
Engine lubrication plus oil filter	3.8L
Fuel tank	17L
Hydraulic tank	18L
Hydraulic system	14.2L

■ Environment

Noise levels comply with environmental regulations [dynamic values].

• Noise emission

XE18E	
Noise level LwA (ISO 6395)	93dB(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

XE18E	
Boom swing, left	60°
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

XE18E	
Travel speed (low - high)	2.1-3.1 km/h
Traction force	15.6kN
Gradeability	30°

■ Digging forces (ISO 6015)

XE18E	
Digging force, standard arm (ISO 6015)	10kN
Digging force, long arm (ISO 6015)	8kN
Digging force, bucket (ISO 6015)	16kN

■ Weight

XE18E	
Operating weight with canopy and bucket (ISO 6016)	1795kg
Ground pressure with rubber tracks	0.29kgf/cm ²
Transport mass (no attachment)	1720kg
Weight of steel tracks	103kg
Weight of rubber tracks	62kg
Additional weight for long arm	12kg

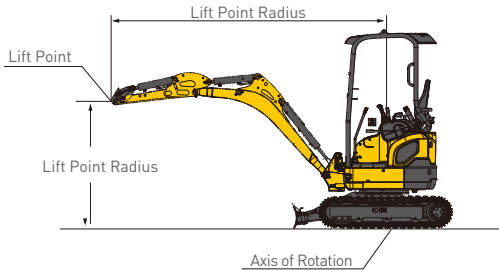
XE18E

■ Canopy • standard arm (950mm) • 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	Lift At Max Radius(kg)	1.0m	2.0m	3.0m	
2m	313.2		*296.2		256.8		*296.2		2946
1m	258.3		536.2	296.7	211.2		427.8	242.3	3301
0m	256.8		500.6	285.8	208.9		394.7	231.7	3249
-1m	316.9	*970.1	497.3		255.6	*970.1	391.6		2760

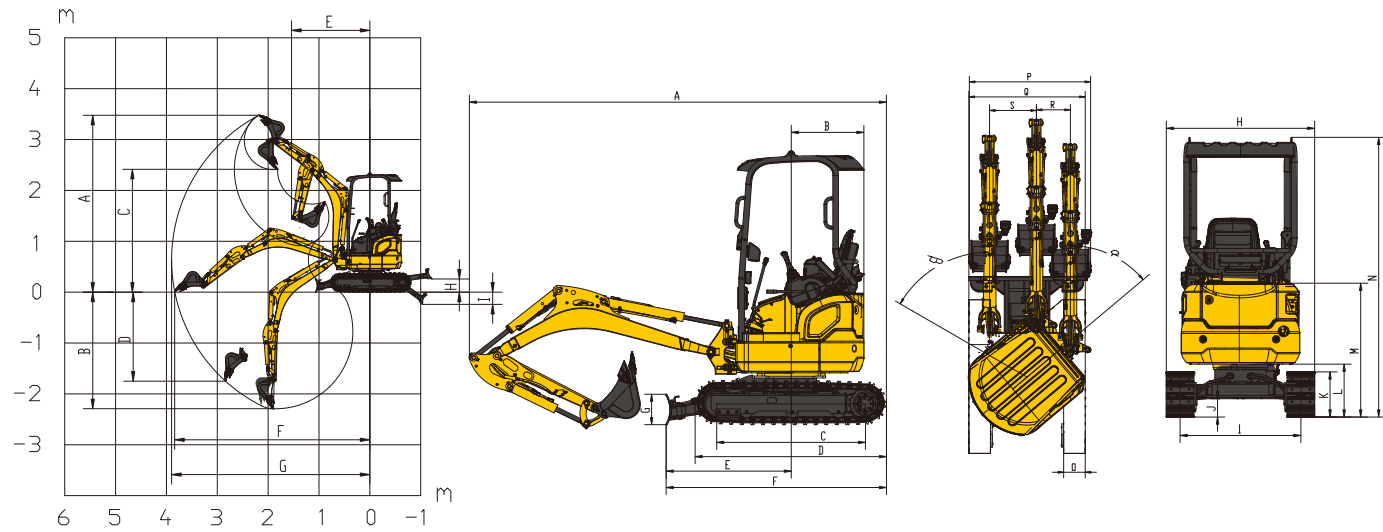
■ Canopy • long arm (1120mm) • standard counterweight • without bucket

Lift Point Height	Over front blade up/down				Over Side				Max Radius (mm)
	Lift At Max Radius(Kg)	1.0m	2.0m	3.0m	Lift At Max Radius(kg)	1.0m	2.0m	3.0m	
3m	*290.9				*290.9				2175
2m	*299.7			*299.9	230.5			246.5	3125
1m	*280.4		*508.4	*329.1	192.7		424.1	237.6	3457
0m	*261.7		*586.1	*327.6	190.5		385.5	225.5	3408
-1m	*248.1	*905.4	*450.1		228	*905.4	380.7		2953



 : 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

		XE18E
A	Maximum digging height - std arm	3475 mm
	Maximum digging height - long arm	3495 mm
B	Maximum digging depth - std arm	2290 mm
	Maximum digging depth - long arm	2450 mm
C	Maximum dumping height - std arm	2415 mm
	Maximum dumping height - long arm	2550 mm
D	Maximum vertical wall digging depth - std arm	1750 mm
	Maximum vertical wall digging depth - long arm	1970 mm
E	Minimum swing radius - std arm	1550 mm
	Minimum swing radius - long arm	1580 mm
F	Maximum digging reach at ground level - std arm	3840 mm
	Maximum digging reach at ground level - long arm	3950 mm
G	Maximum digging reach - std arm	3900 mm
	Maximum digging reach - long arm	4005 mm
H	Maximum dozer lifting height	260 mm
I	Maximum dozer cutting depth	180 mm

■ Dimensions

		XE18E
A	Overall length	3560mm
B	Tail slew radius	620mm
C	Tumbler length	1270mm
D	Track length	1590mm
E	Dozer blade, maximum reach at ground level	1055mm
F	Undercarriage length	1880mm
G	Dozer blade height	258mm
H	Overall width	990/1240 mm
I	Track gauge	706/1010 mm
J	Minimum ground clearance	145mm
K	Track height	380mm
L	Ground clearance of counterweight	455mm
M	Overall height of engine hood	1135mm
N	Overall height	2348mm
O	Track shoe width	230mm
P	Working width at maximum right-hand rotation	1300mm
Q	Working width at maximum left-hand rotation	1235mm
R	Maximum boom offset to the right	335mm
S	Maximum boom offset to the left	500mm
a	Maximum boom swing angle to the right	50
b	Maximum boom swing angle to the left	60

➤ Standard and Optional Equipment

■ Engine

Kubota engine D902, EU Stage V	●
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■ Hydraulic system

Single or dual way pipeline (AUX1)	●
Dozer blade safety lock valve	●

■ Canopy

OPG/TOPS/ ROPS(ISO 3471) canopy	●
Adjustable seat with retractable belt	●
Colour LCD monitor	●
AUX1 control foot pedal	●
Foldable & ergonomic pedals	●

■ Undercarriage

Extendable undercarriage (990/1240mm)	●
Easy extended blade	●
Tie down bracket	●
Rubber tracks 230mm	●
Steel tracks 230mm	○

■ Safety

Engine overheat warning and restart prevention system	●
Hydraulic safety locking lever	●
Work light (1 on boom)	●
Battery switch off	●

■ Other

Standard arm 950 mm	●
Long arm 1120 mm	○
General purpose bucket 0.04 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

