

Mini Excavators XE18U



Rated Power: 15.8 hp
Operating Weight: 3,968.3 lb
Standard Bucket Capacity: 0.05 yd³

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Technical Specifications

Engine

Make/model	Kubota/D902/Tier 4F
Fuel/cooling	Diesel/Liquid, forced circulation
No. of cylinders	3
Piston displacement	0.24 gal
Power output	15.8 hp /2300 rpm
Max torque	37.8 ft.lb/1800 rpm
Bore x stroke	2.8 in.x2.9 in.
Alternator	12 V/40 A

Hydraulic system

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

> Pump

Type	Load-sensing axial-piston pump with variable displacement
Maximum system flow rate	17 gal/min
AUX1 maximum flow rate	5.3 gal/min
AUX1 standard pressure	2,175.6 psi

> Maximum system pressure

Boom	3,669.5 psi
Arm / bucket / travel	3,669.5/3,669.5/3,045.8 psi
Swing	1,595.4 psi

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

Bottom rollers (per side)	3
Track shoes	Rubber
Overall track length	5'4"
Shoe width	9"

Fluid capacities

Cooling system (radiator capacity)	1.1 gal
Engine lubrication plus oil filter	1 gal
Fuel tank	4.5 gal
Hydraulic tank	4.8 gal
Hydraulic system	3.8 gal

Drive

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

> Speed & traction

Travel speed (low - high)	1.5-2.1 mph
Traction force	3,507 lbf
Gradeability	30°

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

Boom swing, left	60°
Boom swing, right	50°
Swing speed	9 rpm

Environment

Noise levels comply with environmental regulations (dynamic values).

> Noise emission

Noise level LwA (ISO 6395)	93 dB(A)
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Digging forces (ISO 6015)

Digging force, standard arm (ISO 6015)	2,248.1 lbf
Digging force, long arm (ISO 6015)	1,798.5 lbf
Digging force, bucket (ISO 6015)	3,596.9 lbf

Weight

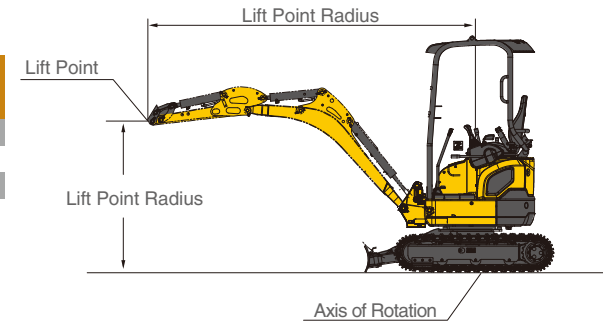
Operating weight with canopy and bucket (ISO 6016)	3,957.3 lb
Ground pressure with rubber tracks	4.1 psi
Transport mass (no attachment)	3,792 lb
Weight of steel tracks	227.1 lb
Weight of rubber tracks	136.7 lb
Additional weight for long arm	26.5 lb

Lifting Capacities

XE18U

Canopy • standard arm (3'1") • extended undercarrige • without bucket

Lift Point Height	Over Front				Over Side				Max Radius (ft)
	Lift At Max Radius (lb)	3'3"	6'7"	9'10"	Lift At Max Radius (lb)	3'3"	6'7"	9'10"	
6'7"	690.5		653		566.1		653		9'8"
3'3"	569.5		1,182.1	654.1	465.6		943.1	534.2	10'10"
0	566.1		1,103.6	630.1	460.5		870.2	510.8	10'8"
-3'3"	698.6	2,138.7	1,096.4		563.5	2,138.7	863.3		9'1"



Canopy • long arm (3'8") • extended undercarrige • without bucket

Lift Point Height	Over front blade up/down				Over Side				Max Radius (ft)
	Lift At Max Radius (lb)	3'3"	6'7"	9'10"	Lift At Max Radius (lb)	3'3"	6'7"	9'10"	
9'10"	641.3				*641.3				7'2"
6'7"	660.7			661.2	508.2			543.4	10'3"
3'3"	618.2		1,120.8	725.5	424.8		935	523.8	11'4"
0	576.9		1,292.1	722.2	420		850	497.1	11'2"
-3'3"	547	1,996.1	992.3		502.7	1,996.1	839.3		9'8"

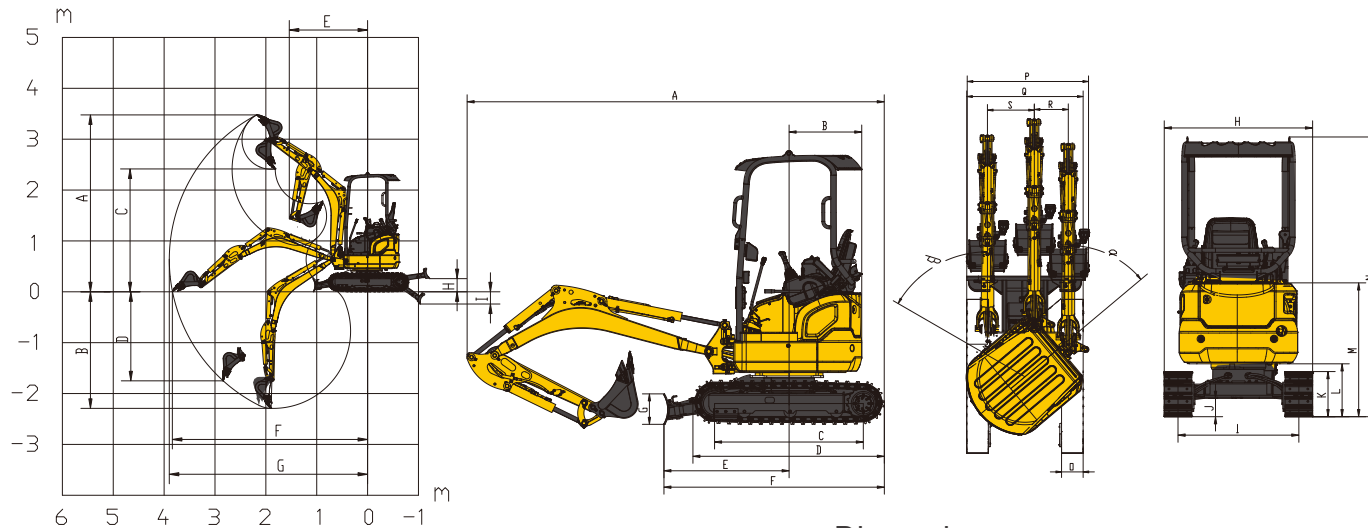
 : Over front

 : Over side or 360°

1. The lifting capacity ratings are based on ISO10567.
2. * The maximum lifting capacity is limited by hydraulic rather than tipping load.
3. With the machine standing on level and firm ground, the lifting capacity does not exceed 87% of the hydraulic capacity or 75% of the tipping load.
4. The operator should be familiar with the machinery operation and maintenance manuals. Local regulations concerning the operation safety of machinery must be followed at all times.
5. The lift diagrams only cover machines that are originally built by the XCMG: without lifting chains and any other lifting equipment.
6. When the excavator is used to lift or handle materials, it must comply with local regulations.



Technical Specifications



Dimensions

Working range

A	Maximum digging height - std arm	11'5"
	Maximum digging height - long arm	11'6"
B	Maximum digging depth - std arm	7'6"
	Maximum digging depth - long arm	8'0.5"
C	Maximum dumping height - std arm	7'11"
	Maximum dumping height - long arm	8'4"
D	Maximum vertical wall digging depth - std arm	5'9"
	Maximum vertical wall digging depth - long arm	6'6"
E	Minimum swing radius - std arm	5'1"
	Minimum swing radius - long arm	5'2"
F	Maximum digging reach at ground level - std arm	12'7"
	Maximum digging reach at ground level - long arm	12'12"
G	Maximum digging reach - std arm	12'10"
	Maximum digging reach - long arm	13'2"
H	Maximum dozer lifting height	10"
I	Maximum dozer cutting depth	7"

A	Overall length	11'8"
B	Tail slew radius	24"
C	Tumbler length	4'2"
D	Track length	5'4"
E	Dozer blade, maximum reach at ground level	3'6"
F	Undercarriage length	6'2"
G	Dozer blade height	10"
H	Overall width	39"/4'1"
I	Track gauge	30"/3'4"
J	Minimum ground clearance	6"
K	Track height	15"
L	Ground clearance of counterweight	18"
M	Overall height of engine hood	3'9"
N	Overall height	7'8"
O	Track shoe width	9"
P	Working width at maximum right-hand rotation	4'3"
Q	Working width at maximum left-hand rotation	4'1"
R	Maximum boom oset to the right	13"
S	Maximum boom oset to the left	20"