

Mini Excavators XE45U



Rated Power: 39.8 hp
Operating Weight: 9,645 lb
Standard Bucket Capacity: 0.16 yd³

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Technical Specifications

Engine

Make/Model	Kubota D1803
No. of cylinders	3
Rated power at 2200 rpm	39.8 hp/2200 rpm
Max. torque at 1500 rpm	108 ft.lb/1500 rpm
Idle (low - high)	1200-2200 rpm
Piston displacement	0.48 gal
Starter	12 V/2 KW
Batteries - Alternator	12 V/75 A

Hydraulic system

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

> Pump

Type	Displacement	Max.flow @ 1700 rpm	Relief valve pressure
Main(Positive electric hydraulic system)	3.7 in³per pump	26.9 gal/min(per pump)	3,625.9 psi

> Maximum system pressure

Travel	3,553.4 psi
Swing	2,987.8 psi
Pilot	565.6 psi

Fluid capacities

Fuel tank	9 gal
Cooling system (radiator capacity)	1.6 gal
Hydraulic oil tank	11.9 gal
Engine oil	1.8 gal

Environment

Noise levels comply with environmental regulations (dynamic values).

> Noise emission

Noise level LwA	95.5 dB(A)
Operator LpA	75.2 dB(A)

Digging forces (ISO 6015)

Digging force, standard arm (ISO 6015)	4,249 lbf
Digging force, bucket (ISO 6015)	7,823 lbf

Weight

With 4'9" arm and 0.16 yd³ bucket

	Shoe width	Operating weight	Ground pressure
Rubber	1'	9,645 lb	5.5 psi
Steel	/	/	/

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

Max. swing speed	9 rpm
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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

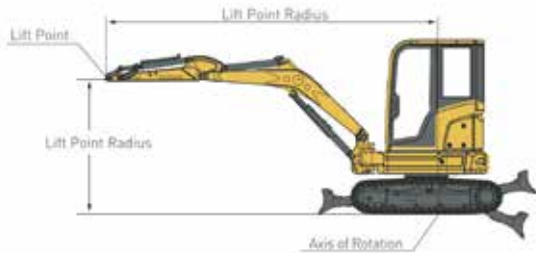
Travel speed (low - high)	1.6-2.8 mile/h
Maximum traction force	8,543 lbf
Gradeability	≤30°

Lifting Capacities

XE45U

Cab • standard arm 4'9" • standard counterweight • without bucket

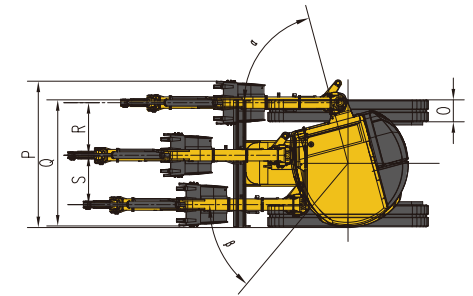
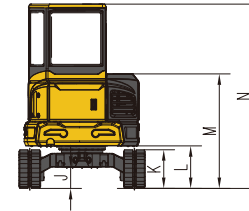
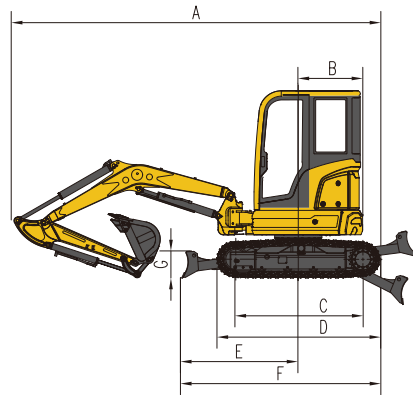
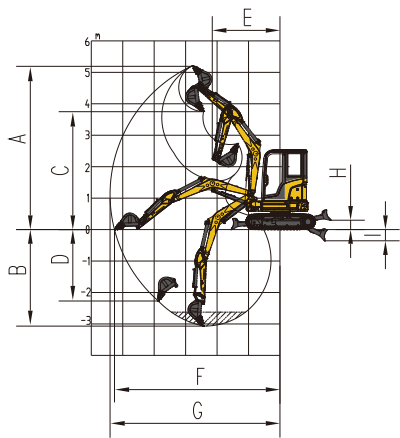
Lifting point height (ft.in)	Over Front Blade Up/Down				Over Side				Max Radius (ft.in)
	Lift At Max Radius (lb)	6'7"	9'10"	13'1"	Lift At Max Radius (lb)	6'7"	9'10"	13'1"	
13'1"	1,878.3		1,801		1,878.3		1,800.9		10'11"
9'10"	812.6*/1,791.5		1,830.1	1,778.7	1,499.1		1,830.1	1,596.4	13'7"
6'7"	814.8*/1,796.3	4,315.1	2,413.6	871*/1,920.2	1,308.2	4,236.2	2,340.4	1,574.8	14'12"
3'3"	830.4*/1,830.7		1 410.7*/3,110.1	975.1*/2,149.7	1,254		2,241	1,537.1	15'4"
0	850.4*/1,874.8	3,029.2	1 508.3*/3,325.2	1 013.5*/2,234.4	1,303.1	3,029.2	2,189	1,510.4	14'9"
-3'3"	859.8*/1,895.5	2 181*/4,808.3	1 351.4*/2,979.3	868.3*/1,914.3	1,505.5	3,956.9	2,186.1	1,513	13'2"
-6'7"	1,717.2	2,865.6			1,717.2	2,865.6			9'11"



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 and be equipped with the necessary hose, burst, valves and an overload warning device complying with EN475-5.



Technical Specifications



Working range

A	Maximum digging height	17'3"
B	Maximum digging depth	10'8"
C	Maximum dumping height	12'1"
D	Maximum vertical wall digging depth	7'6"
E	Minimum swing radius	7'9"
F	Maximum digging reach at ground level	18'
G	Maximum digging reach	18'6"
H	Maximum dozer lifting height	10"
I	Maximum dozer cutting depth	1'3"

Dimensions

A	Overall length	16'8"
B	Tail slew radius	3'1"
C	Tumbler length	5'8"
D	Track length	7'3"
E	Dozer blade, maximum reach at ground level	5'2"
F	Undercarriage length	8'10"
G	Dozer blade height	1'2"
H	Overall width	5'9"
I	Track gauge	4'9"
J	Minimum ground clearance	1'2"
K	Track height	1'9"
L	Ground clearance of counterweight	1'11"
M	Overall height of tank hood	5'3"
N	Overall height	8'4"
O	Track shoe width	1'
P	Working width at maximum right-hand rotation	6'7"
Q	Working width at maximum left-hand rotation	5'8"
R	Maximum boom offset to the right	2'6"
S	Maximum boom offset to the left	1'11"
α	Maximum boom swing angle to the left	75°
β	Maximum boom swing angle to the right	50°