

# Lifting capacities

## E45 - STANDARD DIPPERSTICK, STANDARD COUNTERWEIGHT

Rated lift capacity over blade, blade down					
Lift point height (mm)	Maximum radius (mm)	Lift at max. radius (kg)	Lift at 2000 mm radius	Lift at 3000 mm radius	Lift at 4000 mm radius
4000	3703	923*			
3000	4489	1000*			923*
2000	4886	1058*		1442*	1138*
1000	4977	1126*		2114*	1393*
Ground	4823	1216*		2369*	1541*
-1000	4350	1309*	3736*	2279*	1477*

Rated lift capacity over side, blade up					
Lift point height (mm)	Maximum radius (mm)	Lift at max. radius (kg)	Lift at 2000 mm radius	Lift at 3000 mm radius	Lift at 4000 mm radius
4000	3703	602			
3000	4489	403			529
2000	4886	313		815	510
1000	4977	283		738	472
Ground	4823	288		695	436
-1000	4350	372	1371	700	426

## E45 - LONG DIPPERSTICK, ADDITIONAL COUNTERWEIGHT

Rated lift capacity over blade, blade down					
Lift point height (mm)	Maximum radius (mm)	Lift at max. radius (kg)	Lift at 2000 mm radius	Lift at 3000 mm radius	Lift at 4000 mm radius
4000	4134	808*			760*
3000	4836	893*			752*
2000	5170	953*		1179*	1000*
1000	5237	1026*		1975*	1290*
Ground	5102	1117*		2346*	1495*
-1000	4682	1253*	3757*	2348*	1511*

Rated lift capacity over side, blade up					
Lift point height (mm)	Maximum radius (mm)	Lift at max. radius (kg)	Lift at 2000 mm radius	Lift at 3000 mm radius	Lift at 4000 mm radius
4000	4134	561			760*
3000	4836	393			752*
2000	5170	334		1179*	558
1000	5237	306		824	512
Ground	5102	314		767	469
-1000	4682	377	1494	714	466

## E50 - STANDARD DIPPERSTICK, STANDARD COUNTERWEIGHT

Rated lift capacity over blade, blade down					
Lift point height (mm)	Maximum radius (mm)	Lift at max. radius (kg)	Lift at 2000 mm radius	Lift at 3000 mm radius	Lift at 4000 mm radius
4000	4075	1054*			1008*
3000	4850	1106*			1020*
2000	5250	1158*		1644*	1287*
1000	5325	1225*		2495*	1600*
Ground	5175	1300*		2778*	1801*
-1000	4705	1382*	4064*	2693*	1758*

Rated lift capacity over side, blade up					
Lift point height (mm)	Maximum radius (mm)	Lift at max. radius (kg)	Lift at 2000 mm radius	Lift at 3000 mm radius	Lift at 4000 mm radius
4000	4075	558			598
3000	4850	405			596
2000	5250	331		922	573
1000	5325	316		830	521
Ground	5175	325		766	487
-1000	4705	379	1414	770	490

## E50 - LONG DIPPERSTICK, ADDITIONAL COUNTERWEIGHT

Rated lift capacity over blade, blade down					
Lift point height (mm)	Maximum radius (mm)	Lift at max. radius (kg)	Lift at 2000 mm radius	Lift at 3000 mm radius	Lift at 4000 mm radius
4000	4600	595*		701*	
3000	5150	616*		800*	770*
2000	5480	800*	1243*	1037*	1014*
1000	5570	973*	2193*	1447*	1172*
Ground	5400	1167*	2729*	1727*	1309*
-1000	5050	1256*	2818*	1811*	1279*

Rated lift capacity over side, blade up					
Lift point height (mm)	Maximum radius (mm)	Lift at max. radius (kg)	Lift at 2000 mm radius	Lift at 3000 mm radius	Lift at 4000 mm radius
4000	4600	518			
3000	5150	407			468
2000	5480	338	1126	697	456
1000	5570	311	965	638	422
Ground	5400	325	942	594	402
-1000	5050	376	912	606	403

## E55 - STANDARD DIPPERSTICK, STANDARD COUNTERWEIGHT

Rated lift capacity over blade, blade down					
Lift point height (mm)	Maximum radius (mm)	Lift at max. radius (kg)	Lift at 2000 mm radius	Lift at 3000 mm radius	Lift at 4000 mm radius
4000	4315	908*		843*	
3000	4947	959*		857*	
2000	5246	1001*	1255*	1066*	1015*
1000	5283	1070*	1926*	1356*	1119*
Ground	5149	1147*	2309*	1571*	1210*
-1000	4738	1249*	2414*	1611*	

Rated lift capacity over side, blade up					
Lift point height (mm)	Maximum radius (mm)	Lift at max. radius (kg)	Lift at 2000 mm radius	Lift at 3000 mm radius	Lift at 4000 mm radius
4000	4315	959*		880*	
3000	4947	669		902*	
2000	5246	587	1289*	1090*	643
1000	5283	565	1405	900	625
Ground	5149	582	1342	873	614
-1000	4738	654	1324	856	

\* Rated hydraulic lift capacity

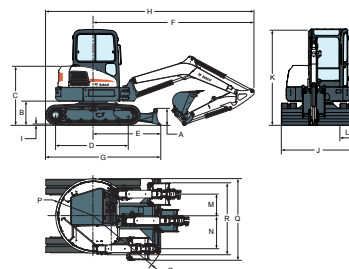
The lifting capacities are based on ISO 10567 and do not exceed 75% of the static tilt load of the machine or 87% of the hydraulic lifting capacity of the machine.

The lifting capacities include a standard 500 mm bucket (69 kg)

	E45	E50	E55
<b>Weights</b>			
Operating weight	4634 kg	4905 kg	5570 kg
<b>Engine</b>			
Make / Model	Kubota V2403-M-D1-E3B-BC-5	Kubota V2403-M-D1-TE38-BC-4	
Fuel / Cooling	Diesel / Liquid		
Maximum power (SAE J1349)	30.2 kW (at 2200 RPM)	35.4 kW (at 2200 RPM)	
Torque (SAE J1349)	152.7 Nm (at 1400 RPM)	179.5 Nm (at 1400 RPM)	
Number of cylinders	4		
Displacement	2.4 l		
Bore / Stroke	87.1 mm / 102.4 mm		
Alternator	12 V – 90 A – open frame with internal regulator		
Starter	12 V – reduction on drive – 2.0 kW		
<b>Controls</b>			
Steering	Direction and speed controlled by two hand levers or foot pedals		
<b>Hydraulic System</b>			
Pump type	Single outlet variable displacement, load sensing torque limited pump		
Piston pump capacity	99.1 l/min	138.5 l/min	
Auxiliary flow	75.7 l/min		
Control valve	9-spool, closed centre, individually compensated		
<b>Performance</b>			
Digging force (standard dipperstick)	25700 N	28700 N	26100 N
Digging force (long dipperstick)	23700 N	26100 N	-
Digging force, bucket	35800 N	42000 N	42000 N
Drawbar pull	40447 N	52343 N	52343 N
Ground pressure with standard dipperstick and rubber tracks	25.4 kPa	26.9 kPa	33.5 kPa
Ground pressure with standard dipperstick and steel tracks	26.1 kPa	27.6 kPa	34.3 kPa
Travel speed, low range	2.4 km/h	3.1 km/h	3.1 km/h
Travel speed, high range	4.2 km/h	5.0 km/h	5.0 km/h
Maximum digging depth (std dipperstick)	3300 mm	3524 mm	3923 mm
Maximum digging depth (long dipperstick)	3600 mm	3923 mm	-
Maximum dump height (std dipperstick)	3697 mm	3924 mm	4179 mm
Maximum dump height (long dipperstick)	3879 mm	4179 mm	-
<b>Slew System</b>			
Boom swing, left	75°		
Boom swing, right	50°		
Slew circle	Single row shear-type ball bearings with internal gear		
Slew drive	Axial piston motor connected to a planetary drive		
Slew rate	9.0 RPM		
<b>Traction</b>			
Track width	400 mm		
Number of track rollers per side	1 top, 5 bottom		
Gradeability	30°		
<b>Brakes</b>			
Travel brake	Hydraulic brake on motor		
Slew brake	Spring applied, hydraulically released		
<b>Fluid Capacities</b>			
Cooling system	8.3 l		
Engine lubrication plus oil filter	7.1 l		
Fuel reservoir	79.9 l		
Hydraulic reservoir	15.1 l		
Hydraulic system with bucket and dipper cylinder retracted, bucket on the ground, and blade down	54.9 l		
<b>Environmental</b>			
Noise level LpA (EU Directive 2000/14/EC)	79 dB(A)	81 dB(A)	81 dB(A)
Noise level LWA (EU Directive 2000/14/EC)	95 dB(A)	96 dB(A)	96 dB(A)
Whole body vibration (ISO 2631-1)	0.115 ms <sup>2</sup>	0.157 ms <sup>2</sup>	0.157 ms <sup>2</sup>
Hand-arm vibration (ISO 5349-1)	0.304 ms <sup>2</sup>	0.427 ms <sup>2</sup>	0.427 ms <sup>2</sup>

## Dimensions

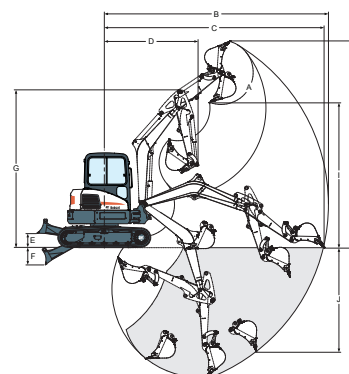
All dimensions in mm.



	E45	E50	E55
A	446	446	446
B	640	640	618
C	1575	1575	1575
D	1998	1998	1998
E	1797	1788	1796
F	4092	4294	3872
G	3058	3049	3057
H	5353	5555	5194
I	25	25	25
J	1960	1960	1960
K	2532	2532	2532
L	400	400	400
M	586	586	394
N	872	675	631
O	3973	2027	2041
P	980	997	1322
Q	2074	2074	2290
R	1874	1874	1949

## Working Range

All dimensions in mm.



	E45	E50	E55
A	185°	185°	185°
B	5802	6062	6191
C	5670	5939	6083
D	2491	2541	2389
E	385	385	385
F	465	465	465
G	4095	4263	4269
H	5345	5595	5850
I	3697	3924	4179
J	2531	2815	3199
K	3300	3524	3923

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