

V O L V O



Volvo Excavators 14.7-16.7 t / 32,500-36,810 lb 120 hp

ECR145

Volvo Construction Equipment

ECR145

A short swing radius machine
that delivers optimum results.



Push the edge of efficiency

The ECR145 redefines what is possible from a short swing radius machine, with more comfort, more performance and more efficiency. With a bigger cab, increased fuel efficiency and improved lifting capacity, count on the ECR145 to deliver optimum results in short swing applications.

Operator comfort



- Conventional type cab on a short swing radius machine
- 20% more cab space
- More precise controls
- Quieter cab
- Personalized settings for greater comfort

Smart View with Obstacle Detection



- Increased safety onsite and for the operator
- Radar warns for items outside the screen
- HD screen
- Human identifying alarm separate from other obstacles

Serviceability



- New right hand service access to upper platform
- Ground level access for service
- Grouped filters and lubrication points
- Quick and easy oil changes

Fuel Efficiency



- New electric fan
- Reduce fuel
- Lower noise
- Easier maintenance

Productivity



- Swing without obstruction- significant improvement in right hand visibility
- 5% more stability
- 11% increase in lifting capacity
- 5% more swing capacity
- 9% more tractive force
- Up to 12% more fuel efficient

Volvo ECR145 in detail

Engine

The next-generation Volvo diesel engine uses Volvo Advanced Combustion Technology (V-ACT) to deliver lower emissions, superior performance and fuel efficiency. The engine uses precise, high pressure fuel injectors, turbo charger and intercooler, and electronic engine controls to optimize machine performance.

Air Filter: 3-stage and precleaner

Automatic Idling System: Reduces engine speed to idle when the levers and pedals are not activated resulting in less fuel consumption and low cab noise levels.

Engine	Volvo	D4J
Max power at	r/min (r/s)	2,000 (33.3)
Net, ISO 9249/SAE J1349	kW (hp)	89 (119)
Gross, ISO 14396/SAE J1995	kW (hp)	90 (121)
Max torque	Nm (ft lbf)	566 (417)
at engine speed	r/min (r/s)	1,300 (21.7)
No. of cylinders		4
Displacement	l (in ³)	4 (246)
Bore	mm (in)	101 (3.98)
Stroke	mm (in)	126 (4.96)

Electrical system

High-capacity electrical system that is well protected. Waterproof double-lock harness plugs are used to secure corrosion-free connections. The main relays and solenoid valves are shielded to prevent damage. The master switch is standard. Contronics provides advanced monitoring of machine functions and important diagnostic information.

Voltage	V	24
Batteries	V	2x12
Battery capacity	Ah	100
Alternator	V/A	28 / 180
Start motor	V - kW	24-5.5

Undercarriage and structures

The undercarriage has a robust X-shaped frame. Greased and sealed track chains are standard.

Track shoes		2 x 46
Link pitch	mm (in)	171 (6.73)
Shoe width, triple grouser	mm (in)	500/600/ 700/750 (20/24/28/30)
Shoe width, triple grouser (HD)	mm (in)	600/700 (24/28)
Shoe width, rubber shoe	mm (in)	500/600 (20/24)
Bottom rollers		2 x 7
Top rollers		2 x 1

Swing system

The swing system uses an axial piston motors, driving a planetary gearbox for maximum torque. An automatic holding brake and anti-rebound valve are standard.

Max. slew speed	r/min	12.7
Max. slew torque	kNm (ft lbf)	41.9 (30,904)

Travel System

Each track is powered by an automatic two-speed shift travel motor. The track brakes are multi-disc, spring-applied and hydraulic released. The travel motor, brake and planetary gears are well protected within the track frame.

Max. drawbar pull	kN (lbf)	130 (29,170)
Max. travel speed (low)	km/h (mi/h)	3.2 (1.99)
Max. travel speed (high)	km/h (mi/h)	5.5 (3.42)
Gradeability	°	35

Cab

The operator's cab has easy access via a wide door opening. The cab is supported on hydraulic dampening mounts to reduce shock and vibration levels. These along with sound absorbing lining provide low noise levels. The cab has excellent all-round visibility. The front windshield can easily slide up into the ceiling, and the lower front glass can be removed and stored in the side door.

Integrated air-conditioning and heating system: The pressurized and filtered cab air is supplied by an automatically controlled fan. The air is distributed throughout the cab from 10 vents.

Ergonomic operator's seat: The adjustable seat and joystick console move independently to accommodate the operator. The seat has 12 different adjustments plus a seat belt for the operator's comfort and safety.

Sound Level

Sound level in cab according to ISO 6396

L _{pA}	dB	71
External sound level according to ISO 6395 and EU Noise Directive (2000/14/EC) and 474-1:2006 +A1:2009		

L _{WA}	dB	99
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Hydraulic system

The new electro-hydraulic system and new MCV (main control valve) use intelligent technology to control on-demand flow for high productivity, high-digging capacity and excellent fuel consumption.

The following important functions are included in the system:

Summation system: Combines the flow of both hydraulic pumps to ensure quick cycle times and high productivity

Boom priority: Gives priority to the boom operation for faster raising when loading or performing deep excavations.

Arm priority: Gives priority to the arm operation for faster cycle times in leveling and for increased bucket filling when digging.

Swing priority: Gives priority to swing functions for faster simultaneous operations.

Regeneration system: Prevents cavitation and provides flow to other movements during simultaneous operations for maximum productivity.

Auto Power boost: All digging and lifting forces are increased.

Auto warm up: Hydraulic oil temperature can be set below the threshold that has been set.

Creep mode: Lower travel speed(10%~50% of 1st full speed) can be set by creep switch on.

Holding valves: Boom and arm holding valves prevent the digging equipment from creeping.

Main pump: 2 x Variable displacement axial piston pumps

	l/min (gal/min)	2 x 130 (2 x 34.3)
Maximum flow		

Pilot pump: Gear pump

	l/min (gal/min)	1 x 18 (1 x 4.8)
Maximum flow		

Max. pressure

Implement	MPa (psi)	32.4 / 34.3 (4,690 / 4,980)
Travel circuit	MPa (psi)	34.3 (4,980)
Slew circuit	MPa (psi)	26.5 (3,840)
Pilot circuit	MPa (psi)	3.9 (570)

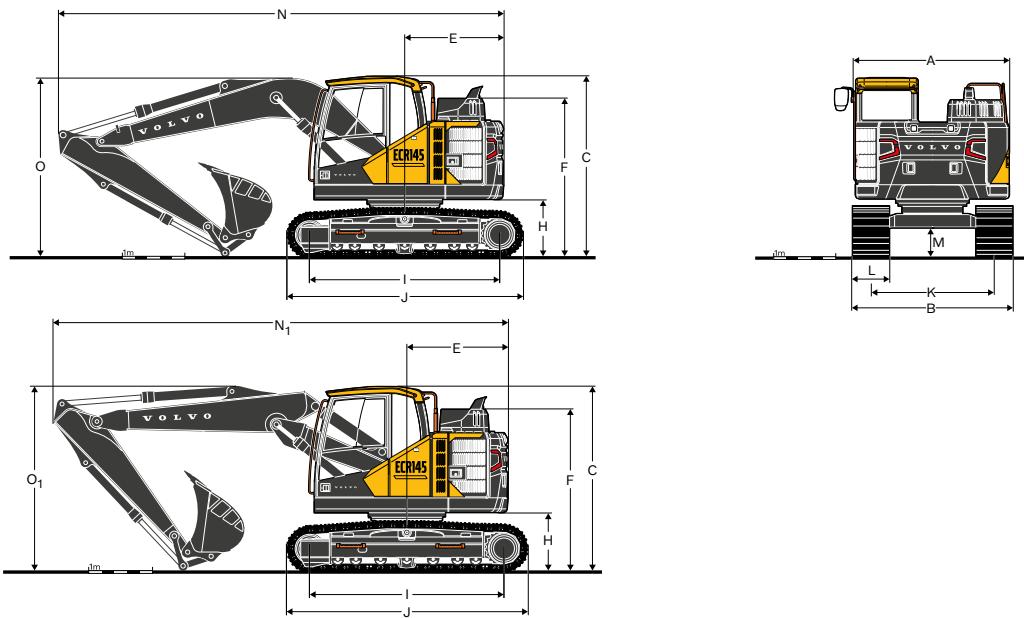
Hydraulic Cylinders

Mono boom		2
Bore x Stroke	ø x mm (ø x in)	110 x 1 055 (4.3 x 41.5)
1st boom of 2-piece boom		1
Bore x Stroke	ø x mm (ø x in)	110 x 980 (4.3 x 38.6)
2nd boom of 2-piece boom		1
Bore x Stroke	ø x mm (ø x in)	160 x 765 (6.3 x 30.1)
Arm		1
Bore x Stroke	ø x mm (ø x in)	120 x 1 028 (4.7 x 40.5)
Bucket		1
Bore x Stroke	ø x mm (ø x in)	100 x 865 (3.9 x 34.1)

Service Refill

Fuel tank	l (gal)	200 (53)
Hydraulic system, total	l (gal)	200 (53)
Hydraulic tank	l (gal)	74 (20)
Engine oil	l (gal)	15.5 (4)
Engine coolant	l (gal)	26 (7)
Slew reduction unit	l (gal)	4 (1.1)
Travel reduction unit	l (gal)	2 x 2.2 (2 x 0.6)

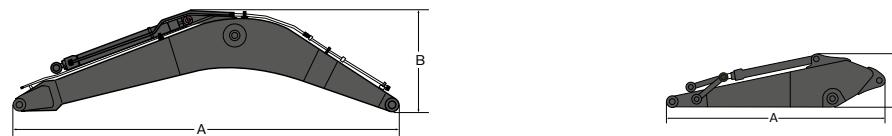
Specifications



DIMENSIONS

Description	Unit		ECR145F L						ECR145F LM					
			4.6 (15'1") mono or 4.72 (15'6") 2-piece						4.6 (15'1") mono or 4.72 (15'6") 2-piece					
Arm	m	ft in	2.1	6'11"	2.5	8'2"	3.0	9'10"	2.1	6'11"	2.5	8'2"	3.0	9'10"
A. Overall width of upper structure	mm	ft in	2,500	8'2"	2,500	8'2"	2,500	8'2"	2,500	8'2"	2,500	8'2"	2,500	8'2"
B. Overall width	mm	ft in	2,590	8'6"	2,590	8'6"	2,590	8'6"	2,690	8'10"	2,690	8'10"	2,690	8'10"
C. Overall height of cab	mm	ft in	2,895	9'6"	2,895	9'6"	2,895	9'6"	3,075	10'1"	3,075	10'1"	3,075	10'1"
D. Overall height of handrail	mm	ft in	2,798	9'2"	2,798	9'2"	2,798	9'2"	2,978	9'9"	2,978	9'9"	2,978	9'9"
E. Tail swing radius	mm	ft in	1,565	5'2"	1,565	5'2"	1,565	5'2"	1,565	5'2"	1,565	5'2"	1,565	5'2"
F. Overall height of engine hood	mm	ft in	2,533	8'4"	2,533	8'4"	2,533	8'4"	2,713	8'11"	2,714	8'11"	2,715	8'11"
G. Overall height of diffuser	mm	ft in	2,724	8'11"	2,724	8'11"	2,724	8'11"	2,904	9'6"	2,904	9'6"	2,904	9'6"
H. Counterweight clearance *	mm	ft in	4,380	14'4"	4,380	14'4"	4,380	14'4"	4,380	14'4"	4,380	14'4"	4,380	14'4"
I. Tumbler length	mm	ft in	3,040	10'0"	3,040	10'0"	3,040	10'0"	3,000	9'10"	3,000	9'10"	3,000	9'10"
J. Track length	mm	ft in	3,770	12'4"	3,770	12'4"	3,770	12'4"	3,790	12'5"	3,790	12'5"	3,790	12'5"
K. Track gauge	mm	ft in	1,990	6'6"	1,990	6'6"	1,990	6'6"	1,990	6'6"	1,990	6'6"	1,990	6'6"
L. Shoe width	mm	ft in	600	2'0"	600	2'0"	600	2'0"	700	2'4"	700	2'4"	700	2'4"
M. Min. ground clearance *	mm	ft in	901	2'11"	901	2'11"	901	2'11"	901	2'11"	901	2'11"	901	2'11"
N. Overall length	mm	ft in	7,471	24'6"	7,476	24'6"	7,416	24'4"	7,491	24'7"	7,491	24'7"	7,461	24'6"
N'. Overall length	mm	ft in	7,576	24'10"	7,541	24'9"	7,441	24'5"	7,596	24'11"	7,571	24'10"	7,201	23'8"
O. Overall height of boom	mm	ft in	2,760	9'1"	2,900	9'6"	3,250	10'8"	2,830	9'3"	2,970	9'9"	3,565	11'8"
O'. Overall height of boom	mm	ft in	2,710	8'11"	2,910	9'7"	3,470	11'5"	2,890	9'6"	2,950	9'8"	3,380	11'1"

* Without shoe grouser

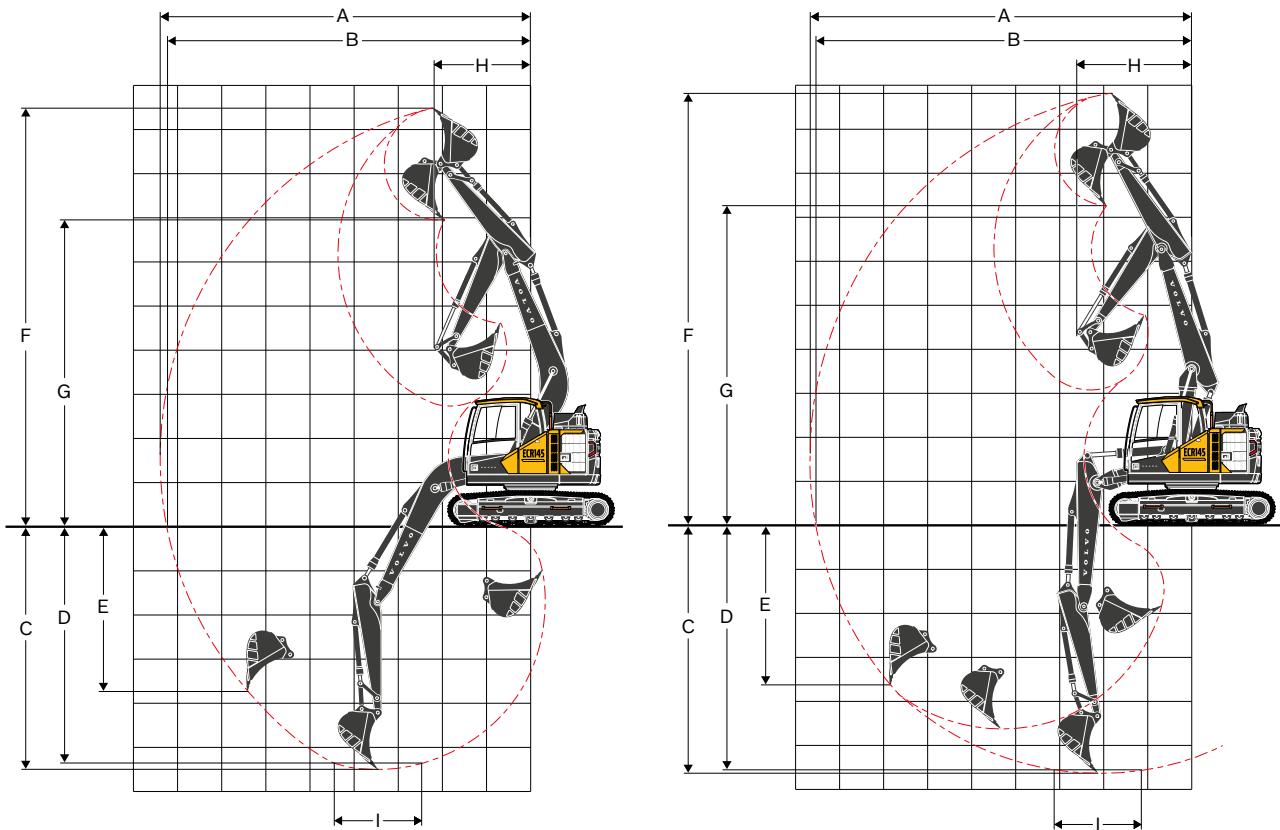


DIMENSIONS

Description	Unit		Mono		2-piece		Description	Unit		Arm					
			4.60	15'1"	4.72	15'6"				2.1	6'11"	2.5	8'2"	3	9'10"
Boom	m	ft in	4,770	15'8"	4,885	16'0"	A (Length)	mm	ft in	2,790	9'2"	3,195	10'6"	3,690	12'1"
A (Length)	mm	ft in	1,370	4'6"	1,135	3'9"	B (Height)	mm	ft in	650	2'2"	675	2'3"	750	2'6"
B (Height)	mm	ft in	545	1'9"	545	1'9"	Width	mm	ft in	275	0'11"	275	0'11"	275	0'11"
Width	kg	lb	1,130	2,490	1,450	3,200	Weight	kg	lb	560	1230	624	1,380	684	1,510

* Includes cylinder, piping and pin, excludes boom cyl.pin

*Includes cylinder, linkage and pin



WORKING RANGE

Description	Unit	ECR145F												
		4.6 (15'1") mono					4.72 (15'6") 2-piece							
Arm	m	ft in	2.1	6'11"	2.5	8'2"	3.0	9'10"	2.1	6'11"	2.5	8'2"	3.0	9'10"
A. Max. digging reach	mm	ft in	7,990	26'3"	8,360	27'5"	8,850	29'0"	8,220	27'0"	8,610	28'3"	9,100	29'10"
B. Max. digging reach on ground	mm	ft in	7,840	25'9"	8,215	26'11"	8,720	28'7"	8,070	26'6"	8,465	27'9"	8,970	29'5"
C. Max. digging depth	mm	ft in	5,130	16'10"	5,530	18'2"	6,030	19'9"	5,235	17'2"	5,640	18'6"	6,145	20'2"
D. Max. digging depth (2.44 m / 8'0" level)	mm	ft in	4,880	16'0"	5,310	17'5"	5,850	19'2"	5,115	16'9"	5,525	18'2"	6,040	19'10"
E. Max. vertical wall digging depth	mm	ft in	3,954	13'0"	4,325	14'2"	4,855	15'11"	4,155	13'8"	4,523	14'10"	5,015	16'5"
F. Max. cutting height	mm	ft in	9,090	29'10"	9,415	30'11"	9,860	32'4"	9,380	30'9"	9,740	31'11"	10,205	33'6"
G. Max. dumping height	mm	ft in	6,550	21'6"	6,875	22'7"	7,310	24'0"	6,830	22'5"	7,190	23'7"	7,660	25'2"
H. Min. front swing radius	mm	ft in	1,929	6'4"	2,130	7'0"	2,505	8'3"	2,330	7'8"	2,590	8'6"	3,010	9'11"

DIGGING FORCES WITH DIRECT FIT BUCKET

Bucket radius	mm	ft in	1,275	4'2"	1,275	4'2"	1,275	4'2"	1,275	4'2"	1,275	4'2"	1,275	4'2"	
Normal SAE J1179	kN	lbf	80.5	18,100	80.5	18,100	80.5	18,100	80.5	18,100	80.5	18,100	80.5	18,100	
Breakout force - bucket	Power boost SAE J1179	kN	lbf	85.4	19,200	85.4	19,200	85.4	19,200	85.4	19,200	85.4	19,200	85.4	19,200
Normal ISO 6015	kN	lbf	91.1	20,480	91.1	20,480	91.1	20,480	91.1	20,480	91.1	20,480	91.1	20,480	
Power boost ISO 6015	kN	lbf	96.6	21,720	96.6	21,720	96.6	21,720	96.6	21,720	96.6	21,720	96.6	21,720	
Tearout force - dipper arm	Normal SAE J1179	kN	lbf	69.5	15,620	62.1	13,960	55.3	12,430	69.5	15,620	62.1	13,960	55.3	12,430
Power boost SAE J1179	kN	lbf	73.8	16,590	65.8	14,790	58.6	13,170	73.8	16,590	65.8	14,790	58.6	13,170	
Normal ISO 6015	kN	lbf	71.4	16,050	63.5	14,280	56.3	12,660	71.4	16,050	63.5	14,280	56.3	12,660	
Power boost ISO 6015	kN	lbf	75.8	17,040	67.3	15,130	59.8	13,440	75.8	17,040	67.3	15,130	59.8	13,440	

Rotation angle, bucket

° 179 179 179 179 179 179 179

Specifications

MACHINE WEIGHTS AND GROUND PRESSURE

Description	Shoe width		Operating weight		Ground pressure		Operating weight		Ground pressure	
	mm	in	kg	lb	kPa	psi	kg	lb	kPa	psi
Triple grouser	500	20	14,740	32,500	44.1	6.40	15,823	34,890	47.1	6.83
	600	24	14,897	32,850	37.3	5.40	16,020	35,320	40.2	5.83
	750	30	15,313	33,760	30.4	4.41	16,395	36,150	32.4	4.69
Triple grouser(HD)	600	24	15,009	33,090	37.3	5.40	16,091	35,480	40.2	5.83
	700	28	15,109	33,320	32.4	4.69	16,191	35,700	34.3	4.98
Rubber	500	20	14,773	32,570	44.1	6.40	15,855	34,960	47.1	6.83
Add on Rubber	500	20	15,192	33,500	45.1	6.54	16,274	35,880	48.0	6.97
	600	24	15,468	34,110	38.2	5.55	16,550	36,490	41.2	5.97
			ECR145F L, 4.6 m (15'1") boom, 2.5 m (8'2") arm, 443 kg (977 lb) bucket, 3,200 kg (7,060 lb) counterweight				ECR145F L with dozer blade, 4.6 m (15'1") boom, 2.5 m (8'2") arm, 443 kg (977 lb) bucket, 3,200 kg (7,060 lb) counterweight			
Description	Shoe width		Operating weight		Ground pressure		Operating weight		Ground pressure	
	mm	in	kg	lb	kPa	psi	kg	lb	kPa	psi
Triple grouser	500	20	15,040	33,160	45.1	6.54	16,123	35,550	48.0	6.97
	600	24	15,238	33,600	38.2	5.55	16,320	35,990	40.2	5.83
	750	30	15,613	34,430	31.4	4.55	16,695	36,810	33.3	4.84
Triple grouser(HD)	600	24	15,309	33,760	38.2	5.55	16,391	36,140	40.2	5.83
	700	28	15,409	33,980	32.4	4.69	16,491	36,360	35.3	5.12
Rubber	500	20	15,073	33,240	45.1	6.54	16,155	35,620	48.0	6.97
Add on Rubber	500	20	15,492	34,160	46.1	6.68	16,574	36,550	49.0	7.11
	600	24	15,768	34,770	39.2	5.69	16,850	37,150	42.2	6.12
			ECR145F L, 4.6 m (15'1") boom, 2.5 m (8'2") arm, 443 kg (977 lb) bucket, 3,500 kg (7,720 lb) counterweight				ECR145F L with dozer blade, 4.6 m (15'1") boom, 2.5 m (8'2") arm, 443 kg (977 lb) bucket, 3,500 kg (7,720 lb) counterweight			
Description	Shoe width		Operating weight		Ground pressure		Operating weight		Ground pressure	
	mm	in	kg	lb	kPa	psi	kg	lb	kPa	psi
Triple grouser	500	20	15,135	33,370	45.1	6.54	16,123	35,550	48.0	6.97
	600	24	15,332	33,810	38.2	5.55	16,320	35,990	40.2	5.83
	750	30	15,707	34,630	31.4	4.55	16,695	36,810	33.3	4.84
Triple grouser(HD)	600	24	15,403	33,960	38.2	5.55	16,391	36,140	40.2	5.83
	700	28	15,504	34,190	33.3	4.84	16,491	36,360	35.3	5.12
Rubber	500	20	15,167	33,440	45.1	6.54	16,155	35,620	48.0	6.97
Add on Rubber	500	20	15,586	34,370	46.1	6.68	16,574	36,550	49.0	7.11
	600	24	15,862	34,980	39.2	5.69	16,850	37,150	42.2	6.12
			ECR145F L, 4.72 m (15'6") boom, 2.5 m (8'2") arm, 443 kg (977 lb) bucket, 3,200 kg (7,060 lb) counterweight				ECR145F L with dozer blade, 4.72 m (15'6") boom, 2.5 m (8'2") arm, 443 kg (977 lb) bucket, 3,200 kg (7,060 lb) counterweight			
Description	Shoe width		Operating weight		Ground pressure		Operating weight		Ground pressure	
	mm	in	kg	lb	kPa	psi	kg	lb	kPa	psi
Triple grouser	500	20	15,435	34,030	46.1	6.68	16,749	16,517	49.0	7.11
	600	24	15,632	34,470	39.2	5.69	17,018	16,714	41.2	5.97
	750	30	16,007	35,300	31.4	4.55	17,089	17,089	34.3	4.98
Triple grouser(HD)	600	24	15,703	34,630	39.2	5.69	16,785	16,785	41.2	5.97
	700	28	15,804	34,850	33.3	4.84	16,886	16,886	36.3	5.26
Rubber	500	20	15,467	34,110	46.1	6.68	16,650	16,550	49.0	7.11
Add on Rubber	500	20	15,886	35,030	47.1	6.83	16,833	16,968	51.0	7.40
	600	24	16,162	35,640	40.2	5.83	17,292	17,244	43.1	6.26
			ECR145F L, 4.72 m (15'6") boom, 2.5 m (8'2") arm, 443 kg (977 lb) bucket, 3,500 kg (7,720 lb) counterweight				ECR145F L with dozer blade, 4.72 m (15'6") boom, 2.5 m (8'2") arm, 443 kg (977 lb) bucket, 3,500 kg (7,720 lb) counterweight			

BUCKET SELECTION GUIDE

Bucket type		Capacity		Cutting width		Weight		Teeth	ECR145F L, 600 mm (24 in) shoe, 3,200 kg (7,060 lb) counterweight, Dozer down						
									4.6 m (15'1") boom			4.72 m (15'6") 2-piece boom			
		L	yd ³	mm	ft in	kg	lb	EA	2.1 m (6'11")	2.5 m (8'2")	3.0 m (9'10")	2.1 m (6'11")	2.5 m (8'2")	3.0 m (9'10")	
Direct fit Buckets General purpose	Without Quick Coupler	250	0.33	450	17.6	293	647	3	C	C	C	C	C	C	
		330	0.43	600	23.4	324	715	3	C	C	C	C	C	C	
		420	0.55	750	29.3	355	783	3	C	C	C	C	C	C	
		540	0.71	900	35.1	403	889	4	C	C	C	C	C	C	
		660	0.86	1,050	41.0	443	977	4	C	C	C	C	C	B	
		770	1.01	1,200	46.8	504	1,112	5	C	B	A	B	B	A	
	U type quick coupler	250	0.33	450	17.6	293	647	3	C	C	C	C	C	C	
		330	0.43	600	23.4	324	715	3	C	C	C	C	C	C	
		420	0.55	750	29.3	355	783	3	C	C	C	C	C	C	
		540	0.71	900	35.1	403	889	4	C	C	C	C	C	B	
		660	0.86	1,050	41.0	443	977	4	C	B	B	C	B	A	
	S type quick coupler	240	0.31	500	19.7	252	556	3	C	C	C	C	C	C	
		330	0.43	600	23.4	327	721	3	C	C	C	C	C	C	
		420	0.55	750	29.3	357	788	3	C	C	C	C	C	C	
		540	0.71	900	35.1	406	895	4	C	C	C	C	C	B	
		660	0.86	1,050	41.0	446	983	4	C	B	B	C	B	A	
		770	1.01	1,200	46.8	508	1,120	5	B	A	X	B	A	X	
Bucket type		Capacity		Cutting width		Weight		Teeth	ECR145F L, 600 mm (24 in) shoe, 3,500 kg (7,720 lb) counterweight, Dozer down						
									4.6 m (15'1") boom			4.72 m (15'6") 2-piece boom			
		L	yd ³	mm	ft in	kg	lb	EA	2.1 m (6'11")	2.5 m (8'2")	3.0 m (9'10")	2.1 m (6'11")	2.5 m (8'2")	3.0 m (9'10")	
Direct fit Buckets General purpose	Without Quick Coupler	250	0.33	450	17.6	293	647	3	C	C	C	C	C	C	
		330	0.43	600	23.4	324	715	3	C	C	C	C	C	C	
		420	0.55	750	29.3	355	783	3	C	C	C	C	C	C	
		540	0.71	900	35.1	403	889	4	C	C	C	C	C	C	
		660	0.86	1,050	41.0	443	977	4	C	C	C	C	C	C	
		770	1.01	1,200	46.8	504	1,112	5	C	C	B	C	B	A	
	U type quick coupler	250	0.33	450	17.6	293	647	3	C	C	C	C	C	C	
		330	0.43	600	23.4	324	715	3	C	C	C	C	C	C	
		420	0.55	750	29.3	355	783	3	C	C	C	C	C	C	
		540	0.71	900	35.1	403	889	4	C	C	C	C	C	C	
		660	0.86	1,050	41.0	443	977	4	C	C	B	C	B	B	
	S type quick coupler	240	0.31	500	19.7	252	556	3	C	C	C	C	C	C	
		330	0.43	600	23.4	327	721	3	C	C	C	C	C	C	
		420	0.55	750	29.3	357	788	3	C	C	C	C	C	C	
		540	0.71	900	35.1	406	895	4	C	C	C	C	C	C	
		660	0.86	1,050	41.0	446	983	4	C	C	B	C	B	B	
		770	1.01	1,200	46.8	508	1,120	5	B	B	X	B	B	X	

Maximum material density

D: 2,100 kg/m³ (3,500 lb/yd³)

C: 1,800 kg/m³ (3,100 lb/yd³)

B: 1,500 kg/m³ (2,500 lb/yd³)

A: 1,200 kg/m³ (2,000 lb/yd³)

X : Not recommended

Please consult with your Volvo dealer for the proper match of buckets and attachments to suit the application.

The recommendations are given as a guide only, based on typical operation conditions.

Bucket capacity based on ISO 7451, heaped material with a 1:1 angle of repose.

Specifications

LIFTING CAPACITY ECR145F L

Lifting capacity at the arm end without bucket.

For lifting capacity including bucket, simply subtract actual weight of the direct fit bucket or the bucket with quick coupler from the following values.

	Lifting hook related to ground level	1.5 m (5")	3.0 m (10")	4.5 m (15")	6.0 m (20")	7.5 m (25")	Max.				
	Along UC	Across UC	Along UC	Across UC	Along UC	Across UC	Along UC	Across UC	Along UC	Across UC	
Boom	7.5 m kg								*5,700	*5,700	2.77 m
	25 ft lb								*13,280	*13,280	8.10 ft
4.6 m (15'1")	6.0 m kg		*4,700	*4,700	*4,590	3,860			*4,250	3,320	4.93 m
	20 ft lb		*10,350	*10,350	*10,210	8,290			*9,470	7,550	15.9 ft
Arm	4.5 m kg		*5,640	*5,640	*4,770	3,810			3,840	2,410	5.99 m
	15 ft lb		*12,160	*12,160	*10,400	8,210			8,570	5,380	19.5 ft
2.1 m (6'11")	3.0 m kg		*8,250	6,700	*5,590	3,620	3,780	2,360	3,300	2,060	6.54 m
	10 ft lb		*17,660	14,460	*12,120	7,820	8,140	5,080	7,310	4,560	21.4 ft
Shoe	500 mm (20 in)								3,130	1,930	6.7 m
	5 ft lb								6,910	4,270	22.0 ft
Undercarriage LC	1.5 m kg								3,220	1,980	6.51 m
	0 m kg								7,110	4,370	21.4 ft
Counterweight	3,200 kg (7,060 lb)								3,670	2,240	5.94 m
	0 ft lb								8,120	4,950	19.4 ft
-1.5 m kg	*5,190	*5,190	*13,030	12,760	11,960	7,070	7,810	4,780	*4,180	3,020	4.84 m
Dozer without dozer blade	-5 ft lb	*11,710	*11,710	*19,990	12,800	11,880	7,000				
	-3.0 m kg								*9,170	6,760	15.7 ft
	-10 ft lb										
Boom	7.5 m kg								*5,700	*5,700	2.77 m
	25 ft lb								*13,280	*13,280	8.10 ft
4.6 m (15'1")	6.0 m kg		*4,700	*4,700	*4,590	4,070			*4,250	3,500	4.93 m
	20 ft lb		*10,350	*10,350	*10,210	8,730			*9,470	7,950	15.9 ft
Arm	4.5 m kg		*5,640	*5,640	*4,770	4,010			3,940	2,550	5.99 m
	15 ft lb		*12,160	*12,160	*10,400	8,650			8,700	5,690	19.5 ft
2.1 m (6'11")	3.0 m kg		*8,250	7,060	*5,590	3,820	4,090	2,500	3,580	2,190	6.54 m
	10 ft lb		*17,660	15,240	*12,120	8,260	8,800	5,390	7,920	4,840	21.4 ft
Shoe	500 mm (20 in)								3,390	2,060	6.7 m
	5 ft lb								7,490	4,550	22.0 ft
Undercarriage LC	1.5 m kg										
	0 m kg								3,500	2,110	6.51 m
Counterweight	3,200 kg (7,060 lb)								7,710	4,650	21.4 ft
	0 ft lb								3,980	2,380	5.94 m
-1.5 m kg	*5,190	*5,190	*13,030	13,030	12,950	7,510	8,470	5,080			
Dozer with dozer blade up	-5 ft lb	*11,710	*11,710	*19,990	13,580	12,870	7,440				
	-3.0 m kg								8,810	5,270	19.4 ft
	-10 ft lb								*4,180	3,200	4.84 m
									*9,170	7,170	15.7 ft
Boom	7.5 m kg								*5,700	*5,700	2.77 m
	25 ft lb								*13,280	*13,280	8.10 ft
4.6 m (15'1")	6.0 m kg		*4,700	*4,700	*4,590	4,370			*4,250	3,760	4.93 m
	20 ft lb		*10,350	*10,350	*10,210	9,380			*9,470	8,540	15.9 ft
Arm	4.5 m kg		*5,640	*5,640	*4,770	4,310			3,940	2,740	5.99 m
	15 ft lb		*12,160	*12,160	*10,400	9,290			8,700	6,110	19.5 ft
2.1 m (6'11")	3.0 m kg		*8,250	7,700	*5,590	4,120	*4,600	2,690	3,950	2,350	6.54 m
	10 ft lb		*17,660	16,610	*12,120	8,890	*10,030	5,790	8,710	5,210	21.4 ft
Shoe	500 mm (20 in)								4,420	2,220	6.7 m
	5 ft lb								9,300	4,900	22.0 ft
Undercarriage LC	1.5 m kg										
	0 m kg								4,470	2,270	6.51 m
Counterweight	3,200 kg (7,060 lb)								9,860	5,010	21.4 ft
	0 ft lb								4,460	2,570	5.94 m
-1.5 m kg	*5,190	*5,190	*13,030	13,030	*14,780	8,130	*10,760	5,480			
Dozer with dozer blade down	-5 ft lb	*11,710	*11,710	*19,990	14,890	*13,810	8,060				
	-3.0 m kg								9,820	5,690	19.4 ft
	-10 ft lb								*4,180	3,460	4.84 m
									*9,170	7,750	15.7 ft
Boom	7.5 m kg								*5,700	*5,700	2.77 m
	25 ft lb								*13,280	*13,280	8.10 ft
4.6 m (15'1")	6.0 m kg		*4,700	*4,700	*4,590	4,010			*4,250	3,450	4.93 m
	20 ft lb		*10,350	*10,350	*10,210	8,600			*9,470	7,830	15.9 ft
Arm	4.5 m kg		*5,640	*5,640	*4,770	3,950			3,940	2,510	5.99 m
	15 ft lb		*12,160	*12,160	*10,400	8,520			8,700	5,600	19.5 ft
2.1 m (6'11")	3.0 m kg		*8,250	6,950	*5,590	3,760			3,420	2,150	6.54 m
	10 ft lb		*17,660	15,010	*12,120	8,130	8,430	5,300	7,570	4,760	21.4 ft
Shoe	500 mm (20 in)								3,240	2,020	6.7 m
	5 ft lb								7,160	4,470	22.0 ft
Undercarriage LC	1.5 m kg										
	0 m kg								3,340	2,070	6.51 m
Counterweight	3,500 kg (7,720 lb)								7,370	4,570	21.4 ft
	0 ft lb								3,800	2,340	5.94 m
-1.5 m kg	*5,190	*5,190	*9,200	6,210	5,720	3,390			8,420	5,180	19.4 ft
Dozer without dozer blade	-5 ft lb	*11,710	*11,710	*19,990	13,350	12,300	7,310				
	-3.0 m kg								8,420	5,180	19.4 ft
	-10 ft lb								*4,180	3,150	4.84 m
									*9,170	7,050	15.7 ft
Boom	7.5 m kg								*5,700	*5,700	2.77 m
	25 ft lb								*13,280	*13,280	8.10 ft
4.6 m (15'1")	6.0 m kg		*4,700	*4,700	*4,590	4,210			*4,250	3,630	4.93 m
	20 ft lb		*10,350	*10,350	*10,210	9,040			*9,470	8,240	15.9 ft
Arm	4.5 m kg		*5,640	*5,640	*4,770	4,160			3,940	2,650	5.99 m
	15 ft lb		*12,160	*12,160	*10,400	8,960			8,700	5,910	19.5 ft
2.1 m (6'11")	3.0 m kg		*8,250	7,310	*5,590	3,970	4,220	2,600	3,700	2,280	6.54 m
	10 ft lb		*17,660	15,780	*12,120	8,570	9,090	5,600	8,180	5,040	21.4 ft
Shoe	500 mm (20 in)								3,510	2,150	6.70 m
	5 ft lb								7,740	4,740	22.0 ft
Undercarriage LC	1.5 m kg										
	0 m kg								3,620	2,200	6.51 m
Counterweight	3,500 kg (7,720 lb)								7,980	4,850	21.4 ft
	0 ft lb								4,110	2,480	5.94 m
-1.5 m kg	*5,190	*5,190	*9,200	6,570	6,180	3,590			9,100	5,490	19.4 ft
Dozer with dozer blade up	-5 ft lb	*11,710	*11,710	*19,990	14,120	13,300	7,750				
	-3.0 m kg								4,4180	3,330	4.84 m
	-10 ft lb								*9,170	7,460	15.7 ft

Notes: 1. Machine in "Fine Mode-F" (Power Boost) for lifting capacities. 2. The above loads are in compliance with SAE J1097 and ISO 10567 Hydraulic Excavator Lifting Capacity Standards. 3. Rated loads do not exceed 87% of hydraulic lifting capacity or 75% of tipping load. 4. Rated loads marked with an asterisk (*) are limited by hydraulic capacity rather than tipping load.

LIFTING CAPACITY ECR145F L

Lifting capacity at the arm end without bucket.

For lifting capacity including bucket, simply subtract actual weight of the direct fit bucket or the bucket with quick coupler from the following values.

	Lifting hook related to ground level	1.5 m (5")	3.0 m (10")	4.5 m (15")	6.0 m (20")	7.5 m (25")	Max.				
	Along UC	Across UC	Along UC	Across UC	Along UC	Across UC	Along UC	Across UC	Along UC	Across UC	
Boom	7.5 m kg								*5,700	*5,700	2.77 m
	25 ft lb								*13,280	*13,280	8.10 ft
4.6 m (15'1")	6.0 m kg		*4,700	*4,700	*4,590	4,520			*4,250	3,890	4.93 m
	20 ft lb		*10,350	*10,350	*10,210	9,700			*9,470	8,840	15.9 ft
Arm	4.5 m kg		*5,640	*5,640	*4,770	4,460			*3,940	2,850	5.99 m
	15 ft lb		*12,160	*12,160	*10,400	9,620			*8,700	6,350	19.5 ft
2.1 m (6'11")	3.0 m kg		*8,250	7,970	*5,590	4,270	*4,600	2,790	*3,950	2,450	6.54 m
	10 ft lb		*17,660	17,190	*12,120	9,220	*10,030	6,020	*8,710	5,410	21.4 ft
Shoe	500 mm (20 in)								*4,220	2,310	6.70 m
	1.5 m kg								*9,300	5,100	22.0 ft
Undercarriage LC	5 ft lb								*4,470	2,370	6.51 m
Counterweight	0 m kg		*5,560	*5,560	*6,820	3,920	*4,970	2,640	*9,860	5,220	21.4 ft
	0 ft lb		*13,030	*13,030	*14,780	8,460	*10,760	5,710	*4,460	2,670	5.94 m
3,500 kg (7,720 lb)	-1.5 m kg	*5,190	*5,190	*9,200	7,200	*6,380	3,890		*9,820	5,920	19.4 ft
Dozer with dozer blade down	-5 ft lb	*11,710	*11,710	*19,990	15,480	*13,810	8,380		*4,180	3,600	4.84 m
	-3.0 m kg		*6,950	*6,950	*4,760	3,960			*9,170	8,060	15.7 ft
	-10 ft lb		*14,950	*14,950	*10,030	8,570					
Boom	7.5 m kg								*5,700	*5,700	2.77 m
	25 ft lb								*13,280	*13,280	8.10 ft
4.6 m (15'1")	6.0 m kg		*4,700	*4,700	*4,590	3,910			*4,250	3,360	4.93 m
	20 ft lb		*10,350	*10,350	*10,210	8,390			*9,470	7,640	15.9 ft
Arm	4.5 m kg		*5,640	*5,640	*4,770	3,850			*3,900	2,440	5.99 m
	15 ft lb		*12,160	*12,160	*10,400	8,310			*8,690	5,450	19.5 ft
2.1 m (6'11")	3.0 m kg		*8,250	6,780	*5,590	3,670			*3,350	2,090	6.54 m
	10 ft lb		*17,660	14,640	*12,120	7,920	8,260	5,150	7,420	4,620	21.4 ft
Shoe	600 mm (24 in)								3,180	1,960	6.70 m
	1.5 m kg								7,010	4,330	22.0 ft
Undercarriage LC	5 ft lb								3,270	2,010	6.51 m
Counterweight	0 m kg		*5,560	*5,560	5,640	3,320	3,670	2,240	7,210	4,430	21.4 ft
	0 ft lb		*13,030	12,930	12,130	7,170	7,920	4,840	3,720	2,270	5.94 m
3,200 kg (7,060 lb)	-1.5 m kg	*5,190	*5,190	*9,200	6,040	5,600	3,290		8,240	5,020	19.4 ft
Dozer without dozer blade	-5 ft lb	*11,710	*11,710	*19,990	12,970	12,050	7,100		*4,180	3,060	4.84 m
	-3.0 m kg		*6,950	6,160	*4,760	3,360			*9,170	6,850	15.7 ft
	-10 ft lb		*14,950	13,260	*10,030	7,280					
Boom	7.5 m kg								*5,700	*5,700	2.77 m
	25 ft lb								*13,280	*13,280	8.10 ft
4.6 m (15'1")	6.0 m kg		*4,700	*4,700	*4,590	4,110			*4,250	3,540	4.93 m
	20 ft lb		*10,350	*10,350	*10,210	8,830			*9,470	8,050	15.9 ft
Arm	4.5 m kg		*5,640	*5,640	*4,770	4,060			*3,940	2,590	5.99 m
	15 ft lb		*12,160	*12,160	*10,400	8,750			*8,700	5,770	19.5 ft
2.1 m (6'11")	3.0 m kg		*8,250	7,140	*5,590	3,870	4,140	2,530	3,630	2,220	6.54 m
	10 ft lb		*17,660	15,420	*12,120	8,360	8,920	5,460	8,030	4,910	21.4 ft
Shoe	600 mm (24 in)								3,440	2,090	6.70 m
	1.5 m kg								7,600	4,610	22.0 ft
Undercarriage LC	5 ft lb								3,550	2,140	6.51 m
Counterweight	0 m kg		*5,560	*5,560	6,100	3,530	3,980	2,390	7,830	4,720	21.4 ft
	0 ft lb		*13,030	*13,030	13,130	7,610	8,590	5,150	4,040	2,410	5.94 m
3,200 kg (7,060 lb)	-1.5 m kg	*5,190	*5,190	*9,200	6,400	6,060	3,490		8,930	5,340	19.4 ft
Dozer with dozer blade up	-5 ft lb	*11,710	*11,710	*19,990	13,760	13,050	7,540		*4,180	3,250	4.84 m
	-3.0 m kg		*6,950	6,530	*4,760	3,570			*9,170	7,270	15.7 ft
	-10 ft lb		*14,950	14,050	*10,030	7,720					
Boom	7.5 m kg								*5,700	*5,700	2.77 m
	25 ft lb								*13,280	*13,280	8.10 ft
4.6 m (15'1")	6.0 m kg		*4,700	*4,700	*4,590	4,420			*4,250	3,800	4.93 m
	20 ft lb		*10,350	*10,350	*10,210	9,490			*9,470	8,650	15.9 ft
Arm	4.5 m kg		*5,640	*5,640	*4,770	4,360			*3,940	2,780	5.99 m
	15 ft lb		*12,160	*12,160	*10,400	9,400			*8,700	6,190	19.5 ft
2.1 m (6'11")	3.0 m kg		*8,250	7,800	*5,590	4,170	*4,600	2,720	*3,950	2,380	6.54 m
	10 ft lb		*17,660	16,810	*12,120	9,010	*10,030	5,870	*8,710	5,280	21.4 ft
Shoe	600 mm (24 in)								*4,220	2,250	6.70 m
	1.5 m kg								*9,300	4,970	22.0 ft
Undercarriage LC	5 ft lb								*4,470	2,300	6.51 m
Counterweight	0 m kg		*5,560	*5,560	*6,820	3,820	*4,970	2,570	*9,860	5,090	21.4 ft
	0 ft lb		*13,030	*13,030	*14,780	8,240	*10,760	5,560	*4,460	2,610	5.94 m
3,200 kg (7,060 lb)	-1.5 m kg	*5,190	*5,190	*9,200	7,030	*6,380	3,790		*9,820	5,770	19.4 ft
Dozer with dozer blade down	-5 ft lb	*11,710	*11,710	*19,990	15,090	*13,810	8,170		*4,180	3,510	4.84 m
	-3.0 m kg		*6,950	*6,950	*4,760	3,860			*9,170	7,860	15.7 ft
	-10 ft lb		*14,950	*14,950	*10,030	8,350					
Boom	7.5 m kg								*5,700	*5,700	2.77 m
	25 ft lb								*13,280	*13,280	8.10 ft
4.6 m (15'1")	6.0 m kg		*4,700	*4,700	*4,590	4,050			*4,250	3,490	4.93 m
	20 ft lb		*10,350	*10,350	*10,210	8,700			*9,470	7,930	15.9 ft
Arm	4.5 m kg		*5,640	*5,640	*4,770	4,000			*3,940	2,540	5.99 m
	15 ft lb		*12,160	*12,160	*10,400	8,620			*8,700	5,670	19.5 ft
2.1 m (6'11")	3.0 m kg		*8,250	7,040	*5,590	3,810	3,970	2,490	3,470	2,180	6.54 m
	10 ft lb		*17,660	15,180	*12,120	8,230	8,540	5,370	7,680	4,820	21.4 ft
Shoe	600 mm (24 in)								3,290	2,050	6.70 m
	1.5 m kg								*3,900	2,100	6.51 m
Undercarriage LC	5 ft lb								7,480	4,630	21.4 ft
Counterweight	0 m kg		*5,560	*5,560	5,840	3,460	3,810	2,340	3,860	2,370	5.94 m
	0 ft lb		*13,030	*13,030	12,560	7,480	8,210	5,060	8,540	5,250	19.4 ft
3,500 kg (7,720 lb)	-1.5 m kg	*5,190	*5,190	*9,200	6,290	5,800	3,430		*4,180	3,190	4.84 m
Dozer without dozer blade	-5 ft lb	*11,710	*11,710	*19,990	13,520	12,480	7,410		*9,170	7,140	15.7 ft
	-3.0 m kg		*6,950	6,420	*4,760	3,510					
	-10 ft lb		*14,950	13,810	*10,030	7,590					

Notes: 1. Machine in "Fine Mode-F" (Power Boost) for lifting capacities. 2. The above loads are in compliance with SAE J1097 and ISO 10567 Hydraulic Excavator Lifting Capacity Standards. 3. Rated loads do not exceed 87% of hydraulic lifting capacity or 75% of tipping load. 4. Rated loads marked with an asterisk (*) are limited by hydraulic capacity rather than tipping load.

Specifications

LIFTING CAPACITY ECR145F L

Lifting capacity at the arm end without bucket.

For lifting capacity including bucket, simply subtract actual weight of the direct fit bucket or the bucket with quick coupler from the following values.

	Lifting hook related to ground level	1.5 m (5")	3.0 m (10")	4.5 m (15")	6.0 m (20")	7.5 m (25")	Max.					
	Along UC	Across UC	Along UC	Across UC	Along UC	Across UC	Along UC	Across UC	Along UC	Across UC		
Boom	7.5 m kg								*5,700	*5,700	2.77 m	
25 ft lb									*13,280	*13,280	8.10 ft	
4.6 m (15'1")	6.0 m kg		*4,700	*4,700	*4,590	4,260			*4,250	3,670	4.93 m	
20 ft lb			*10,350	*10,350	*10,210	9,150			*9,470	8,340	15.9 ft	
Arm	4.5 m kg		*5,640	*5,640	*4,770	4,200			*3,940	2,690	5.99 m	
2.1 m (6'11")	15 ft lb		*12,160	*12,160	*10,400	9,060			*8,700	5,990	19.5 ft	
Shoe	3.0 m kg		*8,250	7,400	*5,590	4,020	4,280	2,630	3,750	2,310	6.54 m	
600 mm (24 in)	10 ft lb		*17,660	15,970	*12,120	8,670	9,210	5,670	8,290	5,110	21.4 ft	
Undercarriage LC	1.5 m kg					6,450	3,800	4,180	2,550	3,560	2,180	6.70 m
Counterweight	5 ft lb					13,890	8,210	9,020	5,500	7,850	4,800	22.0 ft
3,500 kg (7,720 lb)	0 m kg		*5,560	*5,560	6,300	3,670	4,120	2,490	3,670	2,230	6.51 m	
-1.5 m kg	*5,190	*5,190	*13,030	*13,030	13,560	7,920	8,880	5,370	8,090	4,920	21.4 ft	
Dozer with dozer blade up	-5 ft lb	*11,710	*11,710	*19,990	14,310	13,480	7,850		4,170	2,520	5.94 m	
	-3.0 m kg				*6,950	6,780	*4,760	3,710	9,230	5,570	19.4 ft	
	-10 ft lb				*14,950	14,600	*10,030	8,030	*4,180	3,380	4.84 m	
									*9,170	7,560	15.7 ft	
Boom	7.5 m kg								*5,700	*5,700	2.77 m	
25 ft lb									*13,280	*13,280	8.10 ft	
4.6 m (15'1")	6.0 m kg		*4,700	*4,700	*4,590	4,570			*4,250	3,940	4.93 m	
20 ft lb			*10,350	*10,350	*10,210	9,810			*9,470	8,950	15.9 ft	
Arm	4.5 m kg		*5,640	*5,640	*4,770	4,510			*3,940	2,880	5.99 m	
2.1 m (6'11")	15 ft lb		*12,160	*12,160	*10,400	9,730			*8,700	6,430	19.5 ft	
Shoe	3.0 m kg		*8,250	8,070	*5,590	4,320	*4,600	2,830	*3,950	2,480	6.54 m	
600 mm (24 in)	10 ft lb		*17,660	17,390	*12,120	9,330	*10,030	6,090	*8,710	5,490	21.4 ft	
Undercarriage LC	1.5 m kg					6,470	4,110	*4,890	2,740	*4,220	2,340	6.70 m
Counterweight	5 ft lb					*14,020	8,870	*10,640	5,920	*9,300	5,170	22.0 ft
3,500 kg (7,720 lb)	0 m kg		*5,560	*5,560	*6,820	3,970	*4,970	2,680	*4,470	2,400	6.51 m	
-1.5 m kg	*5,190	*5,190	*13,030	*13,030	*14,780	8,570	*10,760	5,790	*9,860	5,290	21.4 ft	
Dozer with dozer blade down	-5 ft lb	*11,710	*11,710	*19,990	15,680	*13,810	8,500		*4,460	2,710	5.94 m	
	-3.0 m kg				*6,950	*6,950	*4,760	4,010	9,820	6,000	19.4 ft	
	-10 ft lb				*14,950	*14,950	*10,030	8,680	*4,180	3,650	4.84 m	
									*9,170	8,160	15.7 ft	
Boom	7.5 m kg								*5,700	*5,700	2.77 m	
25 ft lb									*13,280	*13,280	8.10 ft	
4.6 m (15'1")	6.0 m kg		*4,700	*4,700	*4,590	3,970			*4,250	3,420	4.93 m	
20 ft lb			*10,350	*10,350	*10,210	8,530			*9,470	7,770	15.9 ft	
Arm	4.5 m kg		*5,640	*5,640	*4,770	3,920			*3,940	2,490	5.99 m	
2.1 m (6'11")	15 ft lb		*12,160	*12,160	*10,400	8,450			*8,700	5,550	19.5 ft	
Shoe	3.0 m kg		*8,250	6,900	*5,590	3,730	3,910	2,430	3,420	2,130	6.54 m	
700 mm (28 in)	10 ft lb		*17,660	14,880	*12,120	8,060	8,420	5,250	7,570	4,710	21.4 ft	
Undercarriage LC	1.5 m kg					5,900	3,520	3,820	2,350	3,240	2,000	6.70 m
Counterweight	5 ft lb					12,710	7,600	8,230	5,070	7,150	4,420	22.0 ft
3,200 kg (7,060 lb)	0 m kg		*5,560	*5,560	5,750	3,390	3,750	2,290	3,340	2,050	6.51 m	
-0 ft lb			*13,030	*13,030	12,370	7,310	8,080	4,940	7,360	4,520	21.4 ft	
Dozer without dozer blade	-1.5 m kg	*5,190	*5,190	*9,200	6,150	5,710	3,350		3,800	2,320	5.94 m	
	-5 ft lb	*11,710	*11,710	*19,990	13,220	12,290	7,240		8,410	5,130	19.4 ft	
	-3.0 m kg				*6,950	6,280	*4,760	3,430	*4,180	3,120	4.84 m	
	-10 ft lb				*14,950	13,510	*10,030	7,420	*9,170	6,980	15.7 ft	
Boom	7.5 m kg								*5,700	*5,700	2.77 m	
25 ft lb									*13,280	*13,280	8.10 ft	
4.6 m (15'1")	6.0 m kg		*4,700	*4,700	*4,590	4,180			*4,250	3,600	4.93 m	
20 ft lb			*10,350	*10,350	*10,210	8,980			*9,470	8,180	15.9 ft	
Arm	4.5 m kg		*5,640	*5,640	*4,770	4,120			*3,940	2,630	5.99 m	
2.1 m (6'11")	15 ft lb		*12,160	*12,160	*10,400	8,890			*8,700	5,870	19.5 ft	
Shoe	3.0 m kg		*8,250	7,260	*5,590	3,940	4,220	2,580	3,690	2,260	6.54 m	
700 mm (28 in)	10 ft lb		*17,660	15,670	*12,120	8,500	9,080	5,560	8,170	5,000	21.4 ft	
Undercarriage LC	1.5 m kg					6,370	3,720	4,130	2,490	3,510	2,130	6.70 m
Counterweight	5 ft lb					13,700	8,040	8,890	5,380	7,740	4,700	22.0 ft
3,200 kg (7,060 lb)	0 m kg		*5,560	*5,560	6,210	3,590	4,060	2,430	3,610	2,180	6.51 m	
-0 ft lb			*13,030	*13,030	13,370	7,750	8,750	5,250	7,970	4,810	21.4 ft	
Dozer with dozer blade up	-1.5 m kg	*5,190	*5,190	*9,200	6,520	6,170	3,560		4,110	2,460	5.94 m	
	-5 ft lb	*11,710	*11,710	*19,990	14,010	13,290	7,680		9,100	5,450	19.4 ft	
	-3.0 m kg				*6,950	6,650	*4,760	3,630	*4,180	3,310	4.84 m	
	-10 ft lb				*14,950	14,300	*10,030	7,860	*9,170	7,400	15.7 ft	
Boom	7.5 m kg								*5,700	*5,700	2.77 m	
25 ft lb									*13,280	*13,280	8.10 ft	
4.6 m (15'1")	6.0 m kg		*4,700	*4,700	*4,590	4,490			*4,250	3,870	4.93 m	
20 ft lb			*10,350	*10,350	*10,210	9,640			*9,470	8,790	15.9 ft	
Arm	4.5 m kg		*5,640	*5,640	*4,770	4,430			*3,940	2,830	5.99 m	
2.1 m (6'11")	15 ft lb		*12,160	*12,160	*10,400	9,560			*8,700	6,300	19.5 ft	
Shoe	3.0 m kg		*8,250	7,920	*5,590	4,240	*4,600	2,770	*3,950	2,430	6.54 m	
700 mm (28 in)	10 ft lb		*17,660	17,080	*12,120	9,160	*10,030	5,970	*8,710	5,380	21.4 ft	
Undercarriage LC	1.5 m kg					6,470	4,030	*4,890	2,690	*4,220	2,290	6.70 m
Counterweight	5 ft lb					14,020	8,690	*10,640	5,800	*9,300	5,060	22.0 ft
3,200 kg (7,060 lb)	0 m kg		*5,560	*5,560	*6,820	3,890	*4,970	2,620	*4,470	2,350	6.51 m	
-0 ft lb			*13,030	*13,030	*14,780	8,400	*10,760	5,670	*9,860	5,180	21.4 ft	
Dozer with dozer blade down	-1.5 m kg	*5,190	*5,190	*9,200	7,150	*6,380	3,860		*4,460	2,660	5.94 m	
	-5 ft lb	*11,710	*11,710	*19,990	15,370	*13,810	8,320		*9,820	5,880	19.4 ft	
	-3.0 m kg				*6,950	*6,950	*4,760	3,930	*4,180	3,570	4.84 m	
	-10 ft lb				*14,950	*14,950	*10,030	8,510	*9,170	8,000	15.7 ft	

Notes: 1. Machine in "Fine Mode-F" (Power Boost) for lifting capacities. 2. The above loads are in compliance with SAE J1097 and ISO 10567 Hydraulic Excavator Lifting Capacity Standards. 3. Rated loads do not exceed 87% of hydraulic lifting capacity or 75% of tipping load. 4. Rated loads marked with an asterisk (*) are limited by hydraulic capacity rather than tipping load.

LIFTING CAPACITY ECR145F L

Lifting capacity at the arm end without bucket.

For lifting capacity including bucket, simply subtract actual weight of the direct fit bucket or the bucket with quick coupler from the following values.

	Lifting hook related to ground level	1.5 m (5")		3.0 m (10")		4.5 m (15")		6.0 m (20")		7.5 m (25")		Max.		
		Along UC	Across UC											
Boom	7.5 m kg											*5,700	*5,700 2.77 m	
	25 ft lb											*13,280	*13,280 8.10 ft	
4.6 m (15'1")	6.0 m kg			*4,700	*4,700	*4,590	4,120					*4,250	3,550 4.93 m	
	20 ft lb			*10,350	*10,350	*10,210	8,840					*9,470	8,060 15.9 ft	
Arm	4.5 m kg			*5,640	*5,640	*4,770	4,060					*3,940	2,590 5.99 m	
2.1 m (6'11")	15 ft lb			*12,160	*12,160	*10,400	8,760					*8,700	5,770 19.5 ft	
Shoe	3.0 m kg			*8,250	7,150	*5,590	3,880	4,040	2,530			3,540	2,220 6.54 m	
700 mm (28 in)	10 ft lb			*17,660	15,430	*12,120	8,370	8,700	5,460			7,830	4,910 21.4 ft	
Undercarriage LC	1.5 m kg						6,100	3,660	3,950	2,450			3,350	2,090 6.70 m
Counterweight	5 ft lb						13,140	7,910	8,510	5,290			7,400	4,610 22.0 ft
3,500 kg (7,720 lb)	0 m kg			*5,560	*5,560	5,950	3,530	3,880	2,390			3,460	2,140 6.51 m	
Dozer without dozer blade	0 ft lb			*13,030	*13,030	12,800	7,620	8,370	5,160			7,620	4,720 21.4 ft	
	-1.5 m kg	*5,190	*5,190	*9,200	6,410	5,910	3,500					3,930	2,420 5.94 m	
	-5 ft lb	*11,710	*11,710	*19,990	13,770	12,720	7,550					8,700	5,350 19.4 ft	
	-3.0 m kg			*6,950	6,540	*4,760	3,570					*4,180	3,250 4.84 m	
	-10 ft lb			*14,950	14,060	*10,030	7,730					*9,170	7,280 15.7 ft	
Boom	7.5 m kg											*5,700	*5,700 2.77 m	
	25 ft lb											*13,280	*13,280 8.10 ft	
4.6 m (15'1")	6.0 m kg			*4,700	*4,700	*4,590	4,320					*4,250	3,730 4.93 m	
	20 ft lb			*10,350	*10,350	*10,210	9,290					*9,470	8,470 15.9 ft	
Arm	4.5 m kg			*5,640	*5,640	*4,770	4,270					*3,940	2,730 5.99 m	
2.1 m (6'11")	15 ft lb			*12,160	*12,160	*10,400	9,200					*8,700	6,090 19.5 ft	
Shoe	3.0 m kg			*8,250	7,520	*5,590	4,080	4,350	2,680			3,810	2,350 6.54 m	
700 mm (28 in)	10 ft lb			*17,660	16,220	*12,120	8,810	9,370	5,770			8,430	5,200 21.4 ft	
Undercarriage LC	1.5 m kg						*6,470	3,870	4,260	2,590			3,620	2,220 6.70 m
Counterweight	5 ft lb						*14,020	8,360	9,180	5,600			7,990	4,890 22.0 ft
3,500 kg (7,720 lb)	0 m kg			*5,560	*5,560	6,410	3,740	4,190	2,530			3,730	2,270 6.51 m	
Dozer with dozer blade up	0 ft lb			*13,030	*13,030	13,800	8,060	9,030	5,470			8,230	5,010 21.4 ft	
	-1.5 m kg	*5,190	*5,190	*9,200	6,770	6,370	3,700					4,240	2,560 5.94 m	
	-5 ft lb	*11,710	*11,710	*19,990	14,560	13,710	7,990					9,390	5,670 19.4 ft	
	-3.0 m kg			*6,950	6,900	*4,760	3,780					*4,180	3,440 4.84 m	
	-10 ft lb			*14,950	14,850	*10,030	8,170					*9,170	7,690 15.7 ft	
Boom	7.5 m kg											*5,700	*5,700 2.77 m	
	25 ft lb											*13,280	*13,280 8.10 ft	
4.6 m (15'1")	6.0 m kg			*4,700	*4,700	*4,590	*4,590					*4,250	4,000 4.93 m	
	20 ft lb			*10,350	*10,350	*10,210	9,970					*9,470	9,090 15.9 ft	
Arm	4.5 m kg			*5,640	*5,640	*4,770	4,580					*3,940	2,930 5.99 m	
2.1 m (6'11")	15 ft lb			*12,160	*12,160	*10,400	9,880					*8,700	6,530 19.5 ft	
Shoe	3.0 m kg			*8,250	8,190	*5,590	4,390	*4,600	2,870			*3,950	2,520 6.54 m	
700 mm (28 in)	10 ft lb			*17,660	*17,660	*12,120	9,480	*10,030	6,200			*8,710	5,580 21.4 ft	
Undercarriage LC	1.5 m kg						*6,470	4,180	*4,890	2,790			*4,220	2,380 6.70 m
Counterweight	5 ft lb						*14,020	9,020	*10,640	6,020			*9,300	5,260 22.0 ft
3,500 kg (7,720 lb)	0 m kg			*5,560	*5,560	*6,820	4,040	*4,970	2,730			*4,470	2,440 6.51 m	
Dozer with dozer blade down	0 ft lb			*13,030	*13,030	*14,780	8,720	*10,760	5,890			*9,860	5,390 21.4 ft	
	-1.5 m kg	*5,190	*5,190	*9,200	7,430	*6,380	4,010					*4,460	2,760 5.94 m	
	-5 ft lb	*11,710	*11,710	*19,990	15,950	*13,810	8,650					*9,820	6,110 19.4 ft	
	-3.0 m kg			*6,950	*6,950	*4,760	4,090					*4,180	3,710 4.84 m	
	-10 ft lb			*14,950	*14,950	*10,030	8,830					*9,170	8,310 15.7 ft	
Boom	7.5 m kg			*4,760	*4,760							*4,330	*4,330 3.63 m	
	25 ft lb			*10,890	*10,890							*9,870	*9,870 11.2 ft	
4.6 m (15'1")	6.0 m kg						*4,110	3,930				*3,470	2,860 5.44 m	
	20 ft lb						*9,110	8,450				*7,710	6,480 17.6 ft	
Arm	4.5 m kg			*4,360	*4,360	*4,380	3,860	3,870	2,440			*3,240	2,180 6.41 m	
2.5 m (8'2")	15 ft lb			*9,610	*9,610	*9,560	8,310	8,330	5,240			*7,150	4,850 20.9 ft	
Shoe	3.0 m kg			*7,380	6,870	*5,250	3,660	3,800	2,370			3,030	1,880 6.93 m	
500 mm (20 in)	10 ft lb			*15,820	14,810	*11,370	7,910	8,180	5,110			6,700	4,170 22.7 ft	
Undercarriage LC	1.5 m kg						*5,740	3,430	3,690	2,170			2,880	1,780 7.08 m
Counterweight	5 ft lb						12,360	7,410	7,960	4,910			6,360	3,930 23.2 ft
3,200 kg (7,060 lb)	0 m kg			*6,070	5,910	5,550	3,270	3,610	2,200			2,950	1,810 6.91 m	
Dozer without dozer blade	0 ft lb			*14,120	12,720	11,950	7,050	7,780	4,740			6,510	3,990 22.7 ft	
	-1.5 m kg	*4,680	*4,680	*9,700	5,890	5,490	3,210	3,580	2,170			3,300	2,010 6.37 m	
	-5 ft lb	*10,540	*10,540	*21,050	12,660	11,800	6,930	7,720	4,690			7,290	4,450 20.9 ft	
	-3.0 m kg	*9,140	*9,140	*7,770	5,990	*5,350	3,250					*4,080	2,580 5.36 m	
	-10 ft lb	*20,680	*20,680	*16,750	12,880	*11,440	7,030					*8,970	5,760 17.4 ft	
Boom	7.5 m kg			*4,760	*4,760							*4,330	*4,330 3.63 m	
	25 ft lb			*10,890	*10,890							*9,870	*9,870 11.2 ft	
4.6 m (15'1")	6.0 m kg						*4,110	*4,110				*3,470	3,020 5.44 m	
	20 ft lb						*9,110	8,880				*7,710	6,830 17.6 ft	
Arm	4.5 m kg			*4,360	*4,360	*4,380	4,060	*4,110	2,580			*3,240	2,310 6.41 m	
2.5 m (8'2")	15 ft lb			*9,610	*9,610	*9,560	8,750	8,990	5,550			*7,150	5,140 20.9 ft	
Shoe	3.0 m kg			*7,380	7,230	*5,250	3,870	4,110	2,510			*3,240	2,000 6.93 m	
500 mm (20 in)	10 ft lb			*15,820	15,590	*11,370	8,340	8,850	5,420			*7,150	4,440 22.7 ft	
Undercarriage LC	1.5 m kg						6,200	3,630	4,000	2,420			3,130	1,890 7.08 m
Counterweight	5 ft lb						13,350	7,850	8,620	5,210			6,900	4,180 23.2 ft
3,200 kg (7,060 lb)	0 m kg			*6,070	*6,070	6,010	3,470	3,910	2,340			3,200	1,930 6.91 m	
Dozer with dozer blade up	0 ft lb			*14,120	13,490	12,940	7,490	8,440	5,050			7,070	4,260 22.7 ft	
	-1.5 m kg	*4,680	*4,680	*9,700	6,250	5,950	3,410	3,890	2,310			3,580	2,140 6.37 m	
	-5 ft lb	*10,540	*10,540	*21,050	13,430	12,790	7,360	8,380	5,000			7,920	4,740 20.9 ft	
	-3.0 m kg	*9,140	*9,140	*7,770	6,350	*5,350	3,450					*4,080	2,740 5.36 m	
	-10 ft lb	*20,680	*20,680	*16,750	13,650	*11,440	7,460					*8,970	6,120 17.4 ft	

Notes: 1. Machine in "Fine Mode-F" (Power Boost) for lifting capacities. 2. The above loads are in compliance with SAE J1097 and ISO 10567 Hydraulic

Excavator Lifting Capacity Standards. 3. Rated loads do not exceed 87% of hydraulic lifting capacity or 75% of tipping load. 4. Rated loads marked with an asterisk (*) are limited by hydraulic capacity rather than tipping load.

Specifications

LIFTING CAPACITY ECR145F L

Lifting capacity at the arm end without bucket.

For lifting capacity including bucket, simply subtract actual weight of the direct fit bucket or the bucket with quick coupler from the following values.

	Lifting hook related to ground level	1.5 m (5")	3.0 m (10")	4.5 m (15")	6.0 m (20")	7.5 m (25")	Max.				
	Along UC	Across UC	Along UC	Across UC	Along UC	Across UC	Along UC	Across UC	Along UC	Across UC	
Boom	7.5 m kg		*4,760	*4,760					*4,330	*4,330	3.63 m
4.6 m (15'1")	25 ft lb		*10,890	*10,890					*9,870	*9,870	11.2 ft
Arm	6.0 m kg				*4,110	*4,110			*3,470	3,240	5.44 m
2.5 m (8'2")	20 ft lb				*9,110	*9,110			*7,710	7,330	17.6 ft
Shoe	4.5 m kg		*4,360	*4,360	*4,380	*4,360	*4,110	2,770			
2.5 m (8'2")	15 ft lb		*9,610	*9,610	*9,560	9,400	*9,020	5,960			
500 mm (20 in)	3.0 m kg		*7,380	*7,380	*5,250	4,160	*4,380	2,700			
Undercarriage LC	10 ft lb		*15,820	*15,820	*11,370	8,980	*9,550	5,820			
Counterweight	1.5 m kg				*6,230	3,930	*4,760	2,600			
3,200 kg (7,060 lb)	0 m kg		*13,500	8,480			*10,340	5,620			
Dozer with dozer blade down	0 ft lb		*6,070	*6,070	*6,760	3,760	*4,960	2,520			
	-1.5 m kg	*4,680	*4,680	*14,120	*14,120	*14,660	8,120	*10,750	5,450		
	-5 ft lb	*10,540	*10,540	*21,050	14,750	*14,180	7,990	*10,020	5,400		
	-3.0 m kg	*9,140	*9,140	*7,770	6,970	*5,350	3,750				
	-10 ft lb	*20,680	*20,680	*16,750	14,980	*11,440	8,090				
									*8,970	6,610	17.4 ft
Boom	7.5 m kg		*4,760	*4,760					*4,330	*4,330	3.63 m
4.6 m (15'1")	25 ft lb		*10,890	*10,890					*9,870	*9,870	11.2 ft
Arm	6.0 m kg				*4,110	4,070			*3,470	2,980	5.44 m
2.5 m (8'2")	20 ft lb				*9,110	8,760			*7,710	6,730	17.6 ft
Shoe	4.5 m kg		*4,360	*4,360	*4,380	4,000	4,010	2,540			
2.5 m (8'2")	15 ft lb		*9,610	*9,610	*9,560	8,630	8,610	5,460			
500 mm (20 in)	3.0 m kg		*7,380	*7,380	*5,250	3,810	3,930	2,470			
Undercarriage LC	10 ft lb		*15,820	15,360	*11,370	8,220	8,470	5,330			
Counterweight	1.5 m kg				5,940	3,570	3,830	2,370			
3,500 kg (7,720 lb)	0 m kg		*6,070	*6,070	5,750	3,410	3,740	2,300			
Dozer without dozer blade	0 ft lb		*14,120	13,270	12,380	7,360	8,060	4,960			
	-1.5 m kg	*4,680	*4,680	*9,700	6,140	5,680	3,350	3,710	2,270		
	-5 ft lb	*10,540	*10,540	*21,050	13,210	12,230	7,240	8,010	4,910		
	-3.0 m kg	*9,140	*9,140	*7,770	6,240	*5,350	3,400				
	-10 ft lb	*20,680	*20,680	*16,750	13,430	*11,440	7,340				
									*8,970	6,020	17.4 ft
Boom	7.5 m kg		*4,760	*4,760					*4,330	*4,330	3.63 m
4.6 m (15'1")	25 ft lb		*10,890	*10,890					*9,870	*9,870	11.2 ft
Arm	6.0 m kg				*4,110	*4,110			*3,470	3,140	5.44 m
2.5 m (8'2")	20 ft lb				*9,110	*9,110			*7,710	7,090	17.6 ft
Shoe	4.5 m kg		*4,360	*4,360	*4,380	4,200	*4,110	2,680			
2.5 m (8'2")	15 ft lb		*9,610	*9,610	*9,560	9,060	*9,020	5,760			
500 mm (20 in)	3.0 m kg		*7,380	*7,380	*5,250	4,010	4,240	2,610			
Undercarriage LC	10 ft lb		*15,820	*15,820	*11,370	8,650	9,130	5,630			
Counterweight	1.5 m kg				*6,230	3,780	4,130	2,520			
3,500 kg (7,720 lb)	0 m kg		*6,070	*6,070	6,210	3,620	4,050	2,440			
Dozer with dozer blade up	0 ft lb		*14,120	14,040	13,370	7,800	8,730	5,270			
	-1.5 m kg	*4,680	*4,680	*9,700	6,500	6,150	3,560	4,020	2,410		
	-5 ft lb	*10,540	*10,540	*21,050	13,980	13,220	7,670	8,670	5,210		
	-3.0 m kg	*9,140	*9,140	*7,770	6,600	*5,350	3,600				
	-10 ft lb	*20,680	*20,680	*16,750	14,200	*11,440	7,780				
									*8,970	6,380	17.4 ft
Boom	7.5 m kg		*4,760	*4,760					*4,330	*4,330	3.63 m
4.6 m (15'1")	25 ft lb		*10,890	*10,890					*9,870	*9,870	11.2 ft
Arm	6.0 m kg				*4,110	*4,110			*3,470	3,360	5.44 m
2.5 m (8'2")	20 ft lb				*9,110	*9,110			*7,710	7,600	17.6 ft
Shoe	4.5 m kg		*4,360	*4,360	*4,380	*4,380	*4,110	2,870			
2.5 m (8'2")	15 ft lb		*9,610	*9,610	*9,560	*9,560	*9,020	6,180			
500 mm (20 in)	3.0 m kg		*7,380	*7,380	*5,250	4,310	*4,380	2,810			
Undercarriage LC	10 ft lb		*15,820	*15,820	*11,370	9,310	*9,550	6,050			
Counterweight	1.5 m kg				*6,230	4,080	*4,760	2,710			
3,500 kg (7,720 lb)	0 m kg		*6,070	*6,070	6,760	3,910	*4,960	2,630			
Dozer with dozer blade up	0 ft lb		*14,120	*14,120	*14,660	8,440	*10,750	5,680			
	-1.5 m kg	*4,680	*4,680	*9,700	7,140	*6,550	3,850	*4,660	2,600		
	-5 ft lb	*10,540	*10,540	*21,050	15,330	*14,180	8,310	*10,020	5,620		
	-3.0 m kg	*9,140	*9,140	*7,770	7,240	*5,350	3,900				
	-10 ft lb	*20,680	*20,680	*16,750	15,560	*11,440	8,410				
									*8,970	6,880	17.4 ft
Boom	7.5 m kg		*4,760	*4,760					*4,330	*4,330	3.63 m
4.6 m (15'1")	25 ft lb		*10,890	*10,890					*9,870	*9,870	11.2 ft
Arm	6.0 m kg				*4,110	*4,110			*3,470	3,360	5.44 m
2.5 m (8'2")	20 ft lb				*9,110	*9,110			*7,710	7,600	17.6 ft
Shoe	4.5 m kg		*4,360	*4,360	*4,380	*4,380	*4,110	2,870			
2.5 m (8'2")	15 ft lb		*9,610	*9,610	*9,560	*9,560	*9,020	6,180			
500 mm (20 in)	3.0 m kg		*7,380	*7,380	*5,250	4,310	*4,380	2,810			
Undercarriage LC	10 ft lb		*15,820	14,990	*11,370	8,000	8,300	5,180			
Counterweight	1.5 m kg				5,820	3,480	3,750	2,310			
3,500 kg (7,720 lb)	0 m kg		*6,070	5,990	5,630	3,310	3,660	2,230			
Dozer with dozer blade up	0 ft lb		*14,120	12,890	12,120	7,150	7,890	4,810			
	-1.5 m kg	*4,680	*4,680	*9,700	5,970	5,570	3,260	3,630	2,200		
	-5 ft lb	*10,540	*10,540	*21,050	12,830	11,970	7,020	7,840	4,760		
	-3.0 m kg	*9,140	*9,140	*7,770	6,070	*5,350	3,300				
	-10 ft lb	*20,680	*20,680	*16,750	13,050	*11,440	7,130				
									*8,970	5,840	17.4 ft

Notes: 1. Machine in "Fine Mode-F" (Power Boost) for lifting capacities. 2. The above loads are in compliance with SAE J1097 and ISO 10567 Hydraulic Excavator Lifting Capacity Standards. 3. Rated loads do not exceed 87% of hydraulic lifting capacity or 75% of tipping load. 4. Rated loads marked with an asterisk (*) are limited by hydraulic capacity rather than tipping load.

LIFTING CAPACITY ECR145F L

Lifting capacity at the arm end without bucket.

For lifting capacity including bucket, simply subtract actual weight of the direct fit bucket or the bucket with quick coupler from the following values.

	Lifting hook related to ground level	1.5 m (5")	3.0 m (10")	4.5 m (15")	6.0 m (20")	7.5 m (25")	Max.				
	Along UC	Across UC	Along UC	Across UC	Along UC	Across UC	Along UC	Across UC	Along UC	Across UC	
Boom	7.5 m kg		*4,760	*4,760					*4,330	*4,330	3.63 m
4.6 m (15'1")	25 ft lb		*10,890	*10,890					*9,870	*9,870	11.2 ft
Arm	6.0 m kg				*4,110	*4,110			*3,470	3,060	5.44 m
2.5 m (8'2")	20 ft lb				*9,110	8,990			*7,710	6,920	17.6 ft
Shoe	4.5 m kg		*4,360	*4,360	*4,380	4,110	*4,110	2,610			
2.5 m (8'2")	15 ft lb		*9,610	*9,610	*9,560	8,860	*9,020	5,620			
600 mm (24 in)	3.0 m kg		*7,380	7,320	*5,250	3,910	4,160	2,550			
Undercarriage LC	10 ft lb		*15,820	15,770	*11,370	8,450	8,970	5,490			
Counterweight	1.5 m kg				*6,230	3,680	4,060	2,450			
3,200 kg (7,060 lb)	0 m kg		*6,070	*6,070	6,100	3,520	3,970	2,370			
Dozer with dozer blade up	0 ft lb		*14,120	13,680	13,120	7,600	8,560	5,120			
600 mm (24 in)	-1.5 m kg	*4,680	*4,680	*9,700	6,330	6,030	3,460	2,350			
Undercarriage LC	-5 ft lb	*10,540	*10,540	*21,050	13,620	12,980	7,470	5,070			
Counterweight	-3.0 m kg	*9,140	*9,140	*7,770	6,430	*5,350	3,500				
3,200 kg (7,060 lb)	-10 ft lb	*20,680	*20,680	*16,750	13,840	*11,440	7,570				
Dozer with dozer blade down									*8,970	6,210	17.4 ft
Boom	7.5 m kg		*4,760	*4,760					*4,330	*4,330	3.63 m
4.6 m (15'1")	25 ft lb		*10,890	*10,890					*9,870	*9,870	11.2 ft
Arm	6.0 m kg				*4,110	*4,110			*3,470	3,280	5.44 m
2.5 m (8'2")	20 ft lb				*9,110	*9,110			*7,710	7,420	17.6 ft
Shoe	4.5 m kg		*4,360	*4,360	*4,380	*4,380	*4,110	2,810			
2.5 m (8'2")	15 ft lb		*9,610	*9,610	*9,560	9,510	*9,020	6,030			
600 mm (24 in)	3.0 m kg		*7,380	*7,380	*5,250	4,220	*4,380	2,740			
Undercarriage LC	10 ft lb		*15,820	*15,820	*11,370	9,100	*9,550	5,900			
Counterweight	1.5 m kg				*6,230	3,980	*4,760	2,640			
3,200 kg (7,060 lb)	0 m kg		*6,070	*6,070	*6,760	3,810	*4,960	2,560			
Dozer with dozer blade down	0 ft lb		*14,120	*14,120	*14,660	8,230	*10,750	5,530			
600 mm (24 in)	-1.5 m kg	*4,680	*4,680	*9,700	6,960	*6,550	3,750	*4,660	2,530		
Undercarriage LC	-5 ft lb	*10,540	*10,540	*21,050	14,950	*14,180	8,100	*10,020	5,480		
Counterweight	-3.0 m kg	*9,140	*9,140	*7,770	7,060	*5,350	3,800				
3,200 kg (7,060 lb)	-10 ft lb	*20,680	*20,680	*16,750	15,180	*11,440	8,200				
Dozer with dozer blade up									*8,970	6,710	17.4 ft
Boom	7.5 m kg		*4,760	*4,760					*4,330	*4,330	3.63 m
4.6 m (15'1")	25 ft lb		*10,890	*10,890					*9,870	*9,870	11.2 ft
Arm	6.0 m kg				*4,110	*4,110			*3,470	3,010	5.44 m
2.5 m (8'2")	20 ft lb				*9,110	8,860			*7,710	6,810	17.6 ft
Shoe	4.5 m kg		*4,360	*4,360	*4,380	4,050	4,060	2,570			
2.5 m (8'2")	15 ft lb		*9,610	*9,610	*9,560	8,720	8,730	5,530			
600 mm (24 in)	3.0 m kg		*7,380	7,210	*5,250	3,850	3,990	2,500			
Undercarriage LC	10 ft lb		*15,820	15,540	*11,370	8,320	8,580	5,400			
Counterweight	1.5 m kg				6,020	3,620	3,880	2,410			
3,500 kg (7,720 lb)	0 m kg		*6,070	*6,070	5,830	3,460	3,790	2,330			
Dozer without dozer blade	0 ft lb		*14,120	13,440	12,550	7,460	8,180	5,030			
600 mm (24 in)	-1.5 m kg	*4,680	*4,680	*9,700	6,220	5,760	3,400	2,300			
Undercarriage LC	-5 ft lb	*10,540	*10,540	*21,050	13,380	12,400	7,340	8,120	4,980		
Counterweight	-3.0 m kg	*9,140	*9,140	*7,770	6,320	*5,350	3,440				
3,500 kg (7,720 lb)	-10 ft lb	*20,680	*20,680	*16,750	13,600	*11,440	7,440				
Dozer without dozer blade									*8,970	6,100	17.4 ft
Boom	7.5 m kg		*4,760	*4,760					*4,330	*4,330	3.63 m
4.6 m (15'1")	25 ft lb		*10,890	*10,890					*9,870	*9,870	11.2 ft
Arm	6.0 m kg				*4,110	*4,110			*3,470	3,170	5.44 m
2.5 m (8'2")	20 ft lb				*9,110	*9,110			*7,710	7,170	17.6 ft
Shoe	4.5 m kg		*4,360	*4,360	*4,380	4,250	*4,110	2,710			
2.5 m (8'2")	15 ft lb		*9,610	*9,610	*9,560	9,170	*9,020	5,840			
600 mm (24 in)	3.0 m kg		*7,380	7,280	*5,250	4,060	4,290	2,650			
Undercarriage LC	10 ft lb		*15,820	*15,820	*11,370	8,760	9,250	5,710			
Counterweight	1.5 m kg				*6,230	3,830	4,190	2,550			
3,500 kg (7,720 lb)	0 m kg		*6,070	*6,070	6,300	3,660	4,100	2,470			
Dozer with dozer blade up	0 ft lb		*14,120	*14,120	13,550	7,910	8,850	5,340			
600 mm (24 in)	-1.5 m kg	*4,680	*4,680	*9,700	6,590	6,230	3,600	4,070	2,450		
Undercarriage LC	-5 ft lb	*10,540	*10,540	*21,050	14,170	13,400	7,780	8,790	5,290		
Counterweight	-3.0 m kg	*9,140	*9,140	*7,770	6,690	*5,350	3,650				
3,500 kg (7,720 lb)	-10 ft lb	*20,680	*20,680	*16,750	14,390	*11,440	7,880				
Dozer with dozer blade down									*8,970	6,460	17.4 ft
Boom	7.5 m kg		*4,760	*4,760					*4,330	*4,330	3.63 m
4.6 m (15'1")	25 ft lb		*10,890	*10,890					*9,870	*9,870	11.2 ft
Arm	6.0 m kg				*4,110	*4,110			*3,470	3,170	5.44 m
2.5 m (8'2")	20 ft lb				*9,110	*9,110			*7,710	7,170	17.6 ft
Shoe	4.5 m kg		*4,360	*4,360	*4,380	4,250	*4,110	2,710			
2.5 m (8'2")	15 ft lb		*9,610	*9,610	*9,560	9,170	*9,020	5,840			
600 mm (24 in)	3.0 m kg		*7,380	*7,380	*5,250	4,370	*4,380	2,840			
Undercarriage LC	10 ft lb		*15,820	*15,820	*11,370	9,420	*9,550	6,130			
Counterweight	1.5 m kg				*6,230	4,130	*4,760	2,740			
3,500 kg (7,720 lb)	0 m kg		*6,070	*6,070	*6,760	3,960	*4,960	2,660			
Dozer with dozer blade up	0 ft lb		*14,120	*14,120	*14,660	8,550	*10,750	5,750			
600 mm (24 in)	-1.5 m kg	*4,680	*4,680	*9,700	7,230	*6,550	3,900	*4,660	2,640		
Undercarriage LC	-5 ft lb	*10,540	*10,540	*21,050	15,530	*14,180	8,420	*10,020	5,700		
Counterweight	-3.0 m kg	*9,140	*9,140	*7,770	7,330	*5,350	3,950				
3,500 kg (7,720 lb)	-10 ft lb	*20,680	*20,680	*16,750	15,760	*11,440	8,530				
Dozer with dozer blade down									*8,970	6,970	17.4 ft

Notes: 1. Machine in "Fine Mode-F" (Power Boost) for lifting capacities. 2. The above loads are in compliance with SAE J1097 and ISO 10567 Hydraulic Excavator Lifting Capacity Standards. 3. Rated loads do not exceed 87% of hydraulic lifting capacity or 75% of tipping load. 4. Rated loads marked with an asterisk (*) are limited by hydraulic capacity rather than tipping load.

Specifications

LIFTING CAPACITY ECR145F L

Lifting capacity at the arm end without bucket.

For lifting capacity including bucket, simply subtract actual weight of the direct fit bucket or the bucket with quick coupler from the following values.

	Lifting hook related to ground level	1.5 m (5")	3.0 m (10")	4.5 m (15")	6.0 m (20")	7.5 m (25")	Max.				
	Along UC	Across UC	Along UC	Across UC	Along UC	Across UC	Along UC	Across UC	Along UC	Across UC	
Boom	7.5 m kg		*4,760	*4,760					*4,330	*4,330	3.63 m
4.6 m (15'1")	25 ft lb		*10,890	*10,890					*9,870	*9,870	11.2 ft
Arm	6.0 m kg				*4,110	4,040			*3,470	2,950	5.44 m
2.5 m (8'2")	20 ft lb				*9,110	8,680			*7,710	6,670	17.6 ft
Shoe	4.5 m kg		*4,360	*4,360	*4,380	3,970	4,000	2,520			
700 mm (28 in)	15 ft lb		*9,610	*9,610	*9,560	8,550	8,610	5,410			
Undercarriage LC	3.0 m kg		*7,380	7,070	*5,250	3,770	3,930	2,450			
Counterweight	10 ft lb		*15,820	15,240	*11,370	8,140	8,460	5,280			
3,200 kg (7,060 lb)	1.5 m kg					5,930	3,540	3,820	2,350		
Dozer without dozer blade	5 ft lb					12,770	7,650	8,240	5,080		
700 mm (28 in)	0 m kg		*6,070	*6,070	5,750	3,380	3,740	2,270			
Undercarriage LC	0 ft lb		*14,120	13,140	12,360	7,290	8,060	4,910			
Counterweight	-1.5 m kg	*4,680	*4,680	*9,700	6,080	5,680	3,320	2,250			
3,200 kg (7,060 lb)	-5 ft lb	*10,540	*10,540	*21,050	13,080	12,220	7,170	8,000	4,860		
Dozer with dozer blade up	-3.0 m kg	*9,140	*9,140	*7,770	6,180	*5,350	3,360				
	-10 ft lb	*20,680	*20,680	*16,750	13,300	*11,440	7,270				
Boom	7.5 m kg		*4,760	*4,760					*4,330	*4,330	3.63 m
4.6 m (15'1")	25 ft lb		*10,890	*10,890					*9,870	*9,870	11.2 ft
Arm	6.0 m kg				*4,110	*4,110			*3,470	3,110	5.44 m
2.5 m (8'2")	20 ft lb				*9,110	*9,110			*7,710	7,040	17.6 ft
Shoe	4.5 m kg		*4,360	*4,360	*4,380	4,170	*4,110	2,660			
700 mm (28 in)	15 ft lb		*9,610	*9,610	*9,560	9,000	*9,020	5,720			
Undercarriage LC	3.0 m kg		*7,380	*7,380	*5,250	3,980	4,240	2,590			
Counterweight	10 ft lb		*15,820	*15,820	*11,370	8,590	9,120	5,590			
3,200 kg (7,060 lb)	1.5 m kg					*6,230	3,750	4,130	2,490		
Dozer with dozer blade up	5 ft lb					*13,500	8,090	8,900	5,390		
700 mm (28 in)	0 m kg		*6,070	*6,070	6,210	3,580	4,040	2,420			
Undercarriage LC	0 ft lb		*14,120	13,930	13,360	7,740	8,720	5,220			
Counterweight	-1.5 m kg	*4,680	*4,680	*9,700	6,450	6,140	3,530	2,390			
3,200 kg (7,060 lb)	-5 ft lb	*10,540	*10,540	*21,050	13,870	13,210	7,610	8,660	5,170		
Dozer with dozer blade down	-3.0 m kg	*9,140	*9,140	*7,770	6,550	*5,350	3,570				
	-10 ft lb	*20,680	*20,680	*16,750	14,090	*11,440	7,710				
Boom	7.5 m kg		*4,760	*4,760					*4,330	*4,330	3.63 m
4.6 m (15'1")	25 ft lb		*10,890	*10,890					*9,870	*9,870	11.2 ft
Arm	6.0 m kg				*4,110	*4,110			*3,470	3,340	5.44 m
2.5 m (8'2")	20 ft lb				*9,110	*9,110			*7,710	7,550	17.6 ft
Shoe	4.5 m kg		*4,360	*4,360	*4,380	*4,380	*4,110	2,850			
700 mm (28 in)	15 ft lb		*9,610	*9,610	*9,560	*9,560	*9,020	6,140			
Undercarriage LC	3.0 m kg		*7,380	*7,380	*5,250	4,290	*4,380	2,790			
Counterweight	10 ft lb		*15,820	*15,820	*11,370	9,250	*9,550	6,010			
3,200 kg (7,060 lb)	1.5 m kg					*6,230	4,050	*4,760	2,690		
Dozer with dozer blade down	5 ft lb					*13,500	8,740	*10,340	5,800		
700 mm (28 in)	0 m kg		*6,070	*6,070	*6,760	3,880	*4,960	2,610			
Undercarriage LC	0 ft lb		*14,120	*14,120	*14,660	8,380	*10,750	5,630			
Counterweight	-1.5 m kg	*4,680	*4,680	*9,700	7,090	*6,550	3,820	*4,660	2,580		
3,200 kg (7,060 lb)	-5 ft lb	*10,540	*10,540	*21,050	15,220	*14,180	8,250	*10,020	5,580		
Dozer with dozer blade down	-3.0 m kg	*9,140	*9,140	*7,770	7,190	*5,350	3,870				
	-10 ft lb	*20,680	*20,680	*16,750	15,450	*11,440	8,350				
Boom	7.5 m kg		*4,760	*4,760					*4,330	*4,330	3.63 m
4.6 m (15'1")	25 ft lb		*10,890	*10,890					*9,870	*9,870	11.2 ft
Arm	6.0 m kg				*4,110	*4,110			*3,470	3,060	5.44 m
2.5 m (8'2")	20 ft lb				*9,110	*9,110			*7,710	6,930	17.6 ft
Shoe	4.5 m kg		*4,360	*4,360	*4,380	4,110	*4,110	2,620			
700 mm (28 in)	15 ft lb		*9,610	*9,610	*9,560	8,860	8,890	5,630			
Undercarriage LC	3.0 m kg		*7,380	*7,380	*5,250	3,920	4,060	2,550			
Counterweight	10 ft lb		*15,820	*15,790	*11,370	8,460	8,750	5,490			
3,200 kg (7,060 lb)	1.5 m kg					6,130	3,690	3,950	2,450		
Dozer with dozer blade down	5 ft lb					13,200	7,960	8,520	5,290		
700 mm (28 in)	0 m kg		*6,070	*6,070	5,940	3,520	3,870	2,370			
Undercarriage LC	0 ft lb		*14,120	13,690	12,790	7,600	8,340	5,130			
Counterweight	-1.5 m kg	*4,680	*4,680	*9,700	6,340	*5,880	3,460	3,840	2,350		
3,200 kg (7,060 lb)	-5 ft lb	*10,540	*10,540	*21,050	13,630	12,650	7,480	8,290	5,080		
Dozer with dozer blade down	-3.0 m kg	*9,140	*9,140	*7,770	6,440	*5,350	3,510				
	-10 ft lb	*20,680	*20,680	*16,750	13,850	*11,440	7,580				
Boom	7.5 m kg		*4,760	*4,760					*4,330	*4,330	3.63 m
4.6 m (15'1")	25 ft lb		*10,890	*10,890					*9,870	*9,870	11.2 ft
Arm	6.0 m kg				*4,110	*4,110			*3,470	3,220	5.44 m
2.5 m (8'2")	20 ft lb				*9,110	*9,110			*7,710	7,290	17.6 ft
Shoe	4.5 m kg		*4,360	*4,360	*4,380	4,320	*4,110	2,760			
700 mm (28 in)	15 ft lb		*9,610	*9,610	*9,560	9,310	*9,020	5,940			
Undercarriage LC	3.0 m kg		*7,380	*7,380	*5,250	4,120	4,370	2,690			
Counterweight	10 ft lb		*15,820	*15,820	*11,370	8,900	9,410	5,800			
3,200 kg (7,060 lb)	1.5 m kg					*6,230	3,890	4,260	2,600		
Dozer with dozer blade down	5 ft lb					*13,500	8,400	9,190	5,600		
700 mm (28 in)	0 m kg		*6,070	*6,070	6,410	3,730	4,180	2,520			
Undercarriage LC	0 ft lb		*14,120	*14,120	13,790	8,050	9,000	5,440			
Counterweight	-1.5 m kg	*4,680	*4,680	*9,700	6,710	*6,340	3,670	4,150	2,490		
3,200 kg (7,060 lb)	-5 ft lb	*10,540	*10,540	*21,050	14,420	13,640	7,920	8,950	5,390		
Dozer with dozer blade up	-3.0 m kg	*9,140	*9,140	*7,770	6,810	*5,350	3,710				
	-10 ft lb	*20,680	*20,680	*16,750	14,640	*11,440	8,020				

Notes: 1. Machine in "Fine Mode-F" (Power Boost) for lifting capacities. 2. The above loads are in compliance with SAE J1097 and ISO 10567 Hydraulic Excavator Lifting Capacity Standards. 3. Rated loads do not exceed 87% of hydraulic lifting capacity or 75% of tipping load. 4. Rated loads marked with an asterisk (*) are limited by hydraulic capacity rather than tipping load.

LIFTING CAPACITY ECR145F L

Lifting capacity at the arm end without bucket.

For lifting capacity including bucket, simply subtract actual weight of the direct fit bucket or the bucket with quick coupler from the following values.

	Lifting hook related to ground level	1.5 m (5")	3.0 m (10")	4.5 m (15")	6.0 m (20")	7.5 m (25")	Max.								
	Along UC	Across UC	Along UC	Across UC	Along UC	Across UC	Along UC	Across UC	Along UC	Across UC					
Boom	7.5 m kg		*4,760	*4,760					*4,330	*4,330	3.63 m				
4.6 m (15'1")	25 ft lb		*10,890	*10,890					*9,870	*9,870	11.2 ft				
Arm	6.0 m kg				*4,110	*4,110			*3,470	3,460	5.44 m				
2.5 m (8'2")	20 ft lb				*9,110	*9,110			*7,710	*7,710	17.6 ft				
Shoe	4.5 m kg		*4,360	*4,360	*4,380	*4,380	*4,110	2,960			*3,240	2,650	6.41 m		
2.5 m (8'2")	15 ft lb		*9,610	*9,610	*9,560	*9,560	*9,020	6,370			*7,150	5,900	20.9 ft		
Shoe	3.0 m kg		*7,380	*7,380	*5,250	*4,440	*4,380	2,890			*3,240	2,320	6.93 m		
700 mm (28 in)	10 ft lb		*15,820	*15,820	*11,370	9,570	*9,550	6,230			*7,150	5,130	22.7 ft		
Undercarriage LC	1.5 m kg				*6,230	4,200	*4,760	2,790			*3,430	2,200	7.08 m		
Counterweight	5 ft lb				*13,500	9,070	*10,340	6,030			*7,570	4,850	23.2 ft		
3,500 kg (7,720 lb)	0 m kg		*6,070	*6,070	*6,760	4,040	*4,960	2,710			*3,860	2,240	6.91 m		
Dozer with dozer blade down	0 ft lb		*14,120	*14,120	*14,660	8,710	*10,750	5,860			*8,520	4,940	22.7 ft		
-1.5 m kg	*4,680	*4,680			7,360	*6,550	3,980	*4,660	2,690		*4,220	2,490	6.37 m		
-5 ft lb	*10,540	*10,540	*21,050	15,810	*14,180	8,580	*10,020	5,810			*9,300	5,510	20.9 ft		
-3.0 m kg	*9,140	*9,140	*7,770	7,460	*5,350	4,020					*4,080	3,180	5.36 m		
-10 ft lb	*20,680	*20,680	*16,750	16,040	*11,440	8,680					*8,970	7,100	17.4 ft		
Boom	7.5 m kg						*3,420	*3,420			*3,410	*3,410	4.50 m		
4.6 m (15'1")	25 ft lb										*7,700	*7,700	14.2 ft		
Arm	6.0 m kg						*3,540	*3,540	*3,000	2,470		*2,870	2,430	6.05 m	
3.0 m (9'10")	20 ft lb						*7,840	*7,840			*6,380	5,470	19.6 ft		
Shoe	4.5 m kg						*3,860	*3,860	*3,730	2,470		*2,710	1,920	6.94 m	
500 mm (20 in)	15 ft lb						*8,430	*8,430	*8,200	5,300		*5,980	4,270	22.6 ft	
Undercarriage LC	3.0 m kg		*5,650	*5,650	*4,760	3,710	3,820	2,380			*2,710	1,680	7.41 m		
Counterweight	10 ft lb		*11,860	*11,860	*10,320	8,010	8,220	5,130			*5,970	3,730	24.3 ft		
3,200 kg (7,060 lb)	5 ft lb						5,780	3,460	3,690	2,270	2,630	1,610	2,600	1,590	7.56 m
Dozer without dozer blade	0 m kg		*6,630	5,900	5,550	3,260	3,590	2,170			5,740	3,520	24.8 ft		
-1.5 m kg	*4,130	*4,130	*15,410	12,700	11,930	7,020	7,730	4,690			2,650	1,610	7.39 m		
-5 ft lb	*9,290	*9,290	*20,600	12,470	11,700	6,820	7,620	4,580			5,840	3,560	24.3 ft		
-3.0 m kg	*7,560	*7,560	*8,600	5,860	5,450	3,170					2,910	1,760	6.89 m		
-10 ft lb	*17,070	*17,070	*18,560	12,600	11,720	6,840					6,430	3,900	22.6 ft		
-4.5 m kg			*5,450	*5,450							3,580	2,160	5.98 m		
-15 ft lb			*11,380	*11,380							7,980	4,820	19.5 ft		
Boom	7.5 m kg						*3,420	*3,420			*3,430	*3,430	4.37 m		
4.6 m (15'1")	25 ft lb										*7,440	*7,440	14.0 ft		
Arm	6.0 m kg										*3,410	*3,410	4.50 m		
3.0 m (9'10")	20 ft lb		*5,650	*5,650	*4,760	3,920	*4,080	2,520			*7,700	*7,700	14.2 ft		
Shoe	10 ft lb		*11,860	*11,860	*10,320	8,450	8,880	5,440			*2,870	2,570	6.05 m		
500 mm (20 in)	5 ft lb						*5,860	3,660	4,000	2,410	2,860	1,720	2,830	1,700	7.56 m
Undercarriage LC	0 m kg		*6,630	6,260	6,010	3,460	3,890	2,310			6,240	3,760	24.8 ft		
Counterweight	0 ft lb		*15,410	13,480	12,920	7,460	8,390	5,000			2,880	1,720	7.39 m		
3,200 kg (7,060 lb)	-1.5 m kg	*4,130	*4,130	*8,960	6,160	5,900	3,360	3,840	2,260		6,360	3,800	24.3 ft		
Dozer with dozer blade up	-5 ft lb	*9,290	*9,290	*20,600	13,250	12,690	7,260	8,280	4,890		3,160	1,880	6.89 m		
-3.0 m kg	*7,560	*7,560	*8,600	6,220	*5,840	3,370					6,990	4,160	22.6 ft		
-10 ft lb	*17,070	*17,070	*18,560	13,380	*12,560	7,280					*3,880	2,310	5.98 m		
-4.5 m kg			*5,450	*5,450							*8,550	5,140	19.5 ft		
-15 ft lb			*11,380	*11,380							*3,430	*3,430	4.37 m		
Boom	7.5 m kg						*3,420	*3,420			*7,440	*7,440	14.0 ft		
4.6 m (15'1")	25 ft lb										*3,410	*3,410	4.50 m		
Arm	6.0 m kg										*7,700	*7,700	14.2 ft		
3.0 m (9'10")	20 ft lb										*2,870	2,570	6.05 m		
Shoe	15 ft lb										*6,380	5,780	19.6 ft		
500 mm (20 in)	3.0 m kg		*5,650	*5,650	*4,760	4,220	*4,080	2,710			*2,710	1,790	7.41 m		
Undercarriage LC	10 ft lb		*11,860	*11,860	*10,320	9,090	*8,890	5,850			*5,970	3,970	24.3 ft		
Counterweight	5 ft lb						*5,860	3,950	*4,540	2,600	*3,100	1,860	*2,850	1,840	7.56 m
3,200 kg (7,060 lb)	0 m kg		*6,630	6,260	6,010	3,460	3,890	2,310			6,280	4,050	24.8 ft		
Dozer with dozer blade down	0 ft lb		*15,410	14,800	*14,300	8,090	*10,550	5,400			*3,160	1,860	7.39 m		
-1.5 m kg	*4,130	*4,130	*8,960	6,780	*6,650	3,650	*4,800	2,450			*6,960	4,110	24.3 ft		
-5 ft lb	*9,290	*9,290	*20,600	14,560	*14,400	7,880	*10,370	5,290			*3,760	2,040	6.89 m		
-3.0 m kg	*7,560	*7,560	*8,600	6,840	*5,840	3,660					*8,320	4,500	22.6 ft		
-10 ft lb	*17,070	*17,070	*18,560	14,690	*12,560	7,900					*3,880	2,490	5.98 m		
-4.5 m kg			*5,450	*5,450							*8,550	5,550	19.5 ft		
-15 ft lb			*11,380	*11,380							*3,430	*3,430	4.37 m		
Boom	7.5 m kg										*7,440	*7,440	14.0 ft		

Notes: 1. Machine in "Fine Mode-F" (Power Boost) for lifting capacities. 2. The above loads are in compliance with SAE J1097 and ISO 10567 Hydraulic

Excavator Lifting Capacity Standards. 3. Rated loads do not exceed 87% of hydraulic lifting capacity or 75% of tipping load. 4. Rated loads marked with an asterisk (*) are limited by hydraulic capacity rather than tipping load.

Specifications

LIFTING CAPACITY ECR145F L

Lifting capacity at the arm end without bucket.

For lifting capacity including bucket, simply subtract actual weight of the direct fit bucket or the bucket with quick coupler from the following values.

	Lifting hook related to ground level	1.5 m (5")		3.0 m (10")		4.5 m (15")		6.0 m (20")		7.5 m (25")		Max.	
		Along UC	Across UC										
Boom	7.5 m kg					*3,420	*3,420					*3,410	*3,410 4.50 m
	25 ft lb											*7,700	*7,700 14.2 ft
6.0 m kg						*3,540	*3,540	*3,000	2,570			*2,870	2,530 6.05 m
4.6 m (15'1")	20 ft lb					*7,840	*7,840					*6,380	5,690 19.6 ft
Arm	4.5 m kg					*3,860	*3,860	*3,730	2,570			*2,710	2,000 6.94 m
	15 ft lb					*8,430	*8,430	*8,200	5,520			*5,980	4,460 22.6 ft
3.0 m (9'10")	3.0 m kg			*5,650	*5,650	*4,760	3,860	3,950	2,480			*2,710	1,760 7.41 m
Shoe	10 ft lb			*11,860	*11,860	*10,320	8,320	8,500	5,350			*5,970	3,900 24.3 ft
500 mm (20 in)	1.5 m kg					*5,860	3,600	3,830	2,370	2,730	1,690	2,700	1,670 7.56 m
Undercarriage LC	5 ft lb					*12,690	7,770	8,240	5,110			5,950	3,690 24.8 ft
Counterweight	0 m kg			*6,630	6,160	5,740	3,400	3,720	2,270			2,750	1,690 7.39 m
3,500 kg (7,720 lb)	0 ft lb			*15,410	13,250	12,360	7,340	8,020	4,910			6,060	3,730 24.3 ft
Dozer without dozer	-1.5 m kg	*4,130	*4,130	*8,960	6,060	5,640	3,310	3,660	2,220			3,020	1,850 6.89 m
blade	-5 ft lb	*9,290	*9,290	*20,600	13,020	12,130	7,130	7,900	4,800			6,670	4,090 22.6 ft
	-3.0 m kg	*7,560	*7,560	*8,600	6,120	5,650	3,310					3,720	2,260 5.98 m
	-10 ft lb	*17,070	*17,070	*18,560	13,150	12,150	7,150					8,280	5,040 19.5 ft
	-4.5 m kg			*5,450	*5,450							*3,430	*3,430 4.37 m
	-15 ft lb			*11,380	*11,380							*7,440	*7,440 14.0 ft
Boom	7.5 m kg					*3,420	*3,420					*3,410	*3,410 4.50 m
	25 ft lb											*7,700	*7,700 14.2 ft
6.0 m kg						*3,540	*3,540	*3,000	2,710			*2,870	2,670 6.05 m
4.6 m (15'1")	20 ft lb					*7,840	*7,840					*6,380	6,010 19.6 ft
Arm	4.5 m kg					*3,860	*3,860	*3,730	2,710			*2,710	2,120 6.94 m
	15 ft lb					*8,430	*8,430	*8,200	5,830			*5,980	4,720 22.6 ft
3.0 m (9'10")	3.0 m kg			*5,650	*5,650	*4,760	4,060	*4,080	2,620			*2,710	1,870 7.41 m
Shoe	10 ft lb			*11,860	*11,860	*10,320	8,760	*8,890	5,660			*5,970	4,140 24.3 ft
500 mm (20 in)	1.5 m kg					*5,860	3,800	4,130	2,510	2,960	1,800	*2,850	1,780 7.56 m
Undercarriage LC	5 ft lb					*12,690	8,210	8,910	5,420			*6,280	3,920 24.8 ft
Counterweight	0 m kg			*6,630	6,520	6,210	3,600	4,030	2,410			2,980	1,800 7.39 m
3,500 kg (7,720 lb)	0 ft lb			*15,410	14,030	13,350	7,770	8,680	5,210			6,580	3,970 24.3 ft
Dozer with dozer	-1.5 m kg	*4,130	*4,130	*8,960	6,420	6,100	3,510	3,970	2,360			3,270	1,970 6.89 m
blade up	-5 ft lb	*9,290	*9,290	*20,600	13,800	13,120	7,570	8,560	5,110			7,240	4,350 22.6 ft
	-3.0 m kg	*7,560	*7,560	*8,600	6,480	*5,840	3,520					*3,880	2,410 5.98 m
	-10 ft lb	*17,070	*17,070	*18,560	13,930	*12,560	7,590					*8,550	5,360 19.5 ft
	-4.5 m kg			*5,450	*5,450							*3,430	*3,430 4.37 m
	-15 ft lb			*11,380	*11,380							*7,440	*7,440 14.0 ft
Boom	7.5 m kg					*3,420	*3,420					*3,410	*3,410 4.50 m
	25 ft lb											*7,700	*7,700 14.2 ft
6.0 m kg						*3,540	*3,540	*3,000	2,900			*2,870	2,860 6.05 m
4.6 m (15'1")	20 ft lb					*7,840	*7,840					*6,380	6,010 19.6 ft
Arm	4.5 m kg					*3,860	*3,860	*3,730	2,900			*2,710	2,280 6.94 m
	15 ft lb					*8,430	*8,430	*8,200	5,830			*5,980	4,720 22.6 ft
3.0 m (9'10")	3.0 m kg			*5,650	*5,650	*4,760	4,370	*4,080	2,820			*2,710	2,020 7.41 m
Shoe	10 ft lb			*11,860	*11,860	*10,320	8,760	*8,890	5,660			*5,970	4,140 24.3 ft
500 mm (20 in)	1.5 m kg					*5,860	4,100	*4,540	2,700	*3,100	1,940	*2,850	1,920 7.56 m
Undercarriage LC	5 ft lb					*12,690	8,210	8,910	5,420			*6,280	3,920 24.8 ft
Counterweight	0 m kg			*6,630	*6,630	*6,600	3,900	*4,860	2,610			*3,160	1,940 7.39 m
3,500 kg (7,720 lb)	0 ft lb			*15,410	14,030	13,350	7,770	8,680	5,210			6,580	3,970 24.3 ft
Dozer with dozer	-1.5 m kg	*4,130	*4,130	*8,960	7,050	*6,650	3,810	*4,800	2,550			*3,760	2,120 6.89 m
blade down	-5 ft lb	*9,290	*9,290	*20,600	13,800	13,120	7,570	8,560	5,110			7,240	4,350 22.6 ft
	-3.0 m kg	*7,560	*7,560	*8,600	7,110	*5,840	3,810					*3,880	2,600 5.98 m
	-10 ft lb	*17,070	*17,070	*18,560	13,930	*12,560	7,590					*8,550	5,360 19.5 ft
	-4.5 m kg			*5,450	*5,450							*3,430	*3,430 4.37 m
	-15 ft lb			*11,380	*11,380							*7,440	*7,440 14.0 ft
Boom	7.5 m kg					*3,420	*3,420					*3,410	*3,410 4.50 m
	25 ft lb											*7,700	*7,700 14.2 ft
6.0 m kg						*3,540	*3,540	*3,000	2,500			*2,870	2,460 6.05 m
4.6 m (15'1")	20 ft lb					*7,840	*7,840					*6,380	5,540 19.6 ft
Arm	4.5 m kg					*3,860	*3,860	*3,730	2,500			*2,710	1,950 6.94 m
	15 ft lb					*8,430	*8,430	*8,200	5,370			*5,980	4,330 22.6 ft
3.0 m (9'10")	3.0 m kg			*5,650	*5,650	*4,760	3,760	*3,870	2,410			*2,710	1,710 7.41 m
Shoe	10 ft lb			*11,860	*11,860	*10,320	8,110	8,330	5,200			*5,970	3,790 24.3 ft
600 mm (24 in)	1.5 m kg					*5,860	3,500	3,750	2,300	2,670	1,640	*2,640	1,620 7.56 m
Undercarriage LC	5 ft lb					12,600	7,560	8,070	4,970			5,820	3,570 24.8 ft
Counterweight	0 m kg			*6,630	5,980	5,630	3,300	3,640	2,200			2,690	1,640 7.39 m
3,200 kg (7,060 lb)	0 ft lb			*15,410	12,880	12,100	7,120	7,850	4,760			5,930	3,610 24.3 ft
Dozer without dozer	-1.5 m kg	*4,130	*4,130	*8,960	5,880	5,520	3,210	3,580	2,150			2,950	1,790 6.89 m
blade	-5 ft lb	*9,290	*9,290	*20,600	12,650	11,870	6,920	7,730	4,650			6,530	3,960 22.6 ft
	-3.0 m kg	*7,560	*7,560	*8,600	5,940	5,530	3,220					3,640	2,200 5.98 m
	-10 ft lb	*17,070	*17,070	*18,560	12,780	11,900	6,940					8,100	4,890 19.5 ft
	-4.5 m kg			*5,450	*5,450							*3,430	*3,430 4.37 m
	-15 ft lb			*11,380	*11,380							*7,440	*7,440 14.0 ft

Notes: 1. Machine in "Fine Mode-F" (Power Boost) for lifting capacities. 2. The above loads are in compliance with SAE J1097 and ISO 10567 Hydraulic Excavator Lifting Capacity Standards. 3. Rated loads do not exceed 87% of hydraulic lifting capacity or 75% of tipping load. 4. Rated loads marked with an asterisk (*) are limited by hydraulic capacity rather than tipping load.

LIFTING CAPACITY ECR145F L

Lifting capacity at the arm end without bucket.

For lifting capacity including bucket, simply subtract actual weight of the direct fit bucket or the bucket with quick coupler from the following values.

	Lifting hook related to ground level	1.5 m (5")		3.0 m (10")		4.5 m (15")		6.0 m (20")		7.5 m (25")		Max.	
		Along UC	Across UC										
Boom	7.5 m kg					*3,420	*3,420					*3,410	*3,410 4.50 m
	25 ft lb											*7,700	*7,700 14.2 ft
4.6 m (15'1")	6.0 m kg					*3,540	*3,540	*3,000	2,640			*2,870	2,600 6.05 m
Arm	20 ft lb					*7,840	*7,840					*6,380	5,860 19.6 ft
3.0 m (9'10")	4.5 m kg					*3,860	*3,860	*3,730	2,640			*2,710	2,070 6.94 m
Shoe	15 ft lb					*8,430	*8,430	*8,200	5,680			*5,980	4,600 22.6 ft
600 mm (24 in)	3.0 m kg			*5,650	*5,650	*4,760	3,960	*4,080	2,560			*2,710	1,820 7.41 m
Undercarriage LC	10 ft lb			*11,860	*11,860	*10,320	8,550	*8,890	5,510			*5,970	4,030 24.3 ft
Counterweight	5 ft lb					*5,860	3,710	4,060	2,440	2,900	1,750	*2,850	1,730 7.56 m
3,200 kg (7,060 lb)	0 m kg			*6,630	6,350	6,090	3,510	3,950	2,350			*6,280	3,810 24.8 ft
Dozer with dozer blade up	0 ft lb			*15,410	13,660	13,110	7,570	8,510	5,070			2,920	1,750 7.39 m
-1.5 m kg	*4,130	*4,130	*8,960	6,250	5,980	3,410	3,890	2,300				6,450	3,860 24.3 ft
-5 ft lb	*9,290	*9,290	*20,600	13,430	12,870	7,360	8,400	4,960				3,210	1,910 6.89 m
-3.0 m kg	*7,560	*7,560	*8,600	6,310	*5,840	3,420						7,100	4,230 22.6 ft
-10 ft lb	*17,070	*17,070	*18,560	13,560	*12,560	7,390						*3,880	2,340 5.98 m
-4.5 m kg				*5,450	*5,450							*8,550	5,210 19.5 ft
-15 ft lb				*11,380	*11,380							*3,430	*3,430 4.37 m
												*7,440	*7,440 14.0 ft
Boom	7.5 m kg					*3,420	*3,420					*3,410	*3,410 4.50 m
	25 ft lb											*7,700	*7,700 14.2 ft
4.6 m (15'1")	6.0 m kg					*3,540	*3,540	*3,000	2,830			*2,870	2,790 6.05 m
Arm	20 ft lb					*7,840	*7,840					*6,380	6,290 19.6 ft
3.0 m (9'10")	4.5 m kg					*3,860	*3,860	*3,730	2,830			*2,710	2,220 6.94 m
Shoe	15 ft lb					*8,430	*8,430	*8,200	6,100			*5,980	4,940 22.6 ft
600 mm (24 in)	3.0 m kg			*5,650	*5,650	*4,760	4,270	*4,080	2,750			*2,710	1,960 7.41 m
Undercarriage LC	10 ft lb			*11,860	*11,860	*10,320	9,210	*8,890	5,930			*5,970	4,340 24.3 ft
Counterweight	5 ft lb					*5,860	4,010	*4,540	2,640	*3,100	1,890	*2,850	1,860 7.56 m
3,200 kg (7,060 lb)	0 ft lb			*15,410	15,000	*14,300	8,200	*10,550	5,480			*6,280	4,110 24.8 ft
Dozer with dozer blade down	-1.5 m kg	*4,130	*4,130	*8,960	6,870	*6,650	3,710	*4,800	2,490			*3,760	2,070 6.89 m
-5 ft lb	*9,290	*9,290	*20,600	14,760	*14,400	7,990	*10,370	5,370				*8,320	4,570 22.6 ft
-3.0 m kg	*7,560	*7,560	*8,600	6,930	*5,840	3,710						*3,880	2,530 5.98 m
-10 ft lb	*17,070	*17,070	*18,560	14,900	*12,560	8,020						*8,550	5,630 19.5 ft
-4.5 m kg				*5,450	*5,450							*3,430	*3,430 4.37 m
-15 ft lb				*11,380	*11,380							*7,440	*7,440 14.0 ft
Boom	7.5 m kg					*3,420	*3,420					*3,410	*3,410 4.50 m
	25 ft lb											*7,700	*7,700 14.2 ft
4.6 m (15'1")	6.0 m kg					*3,540	*3,540	*3,000	2,600			*2,870	2,560 6.05 m
Arm	20 ft lb					*7,840	*7,840					*6,380	5,760 19.6 ft
3.0 m (9'10")	4.5 m kg					*3,860	*3,860	*3,730	2,600			*2,710	2,030 6.94 m
Shoe	15 ft lb					*8,430	*8,430	*8,200	5,590			*5,980	4,520 22.6 ft
600 mm (24 in)	3.0 m kg			*5,650	*5,650	*4,760	3,900	4,000	2,510			*2,710	1,790 7.41 m
Undercarriage LC	10 ft lb			*11,860	*11,860	*10,320	8,420	8,620	5,420			*5,970	3,960 24.3 ft
Counterweight	5 ft lb					*5,860	3,650	3,880	2,400	2,770	1,710	*2,740	1,690 7.56 m
3,500 kg (7,720 lb)	0 m kg			*6,630	6,240	5,830	3,450	3,770	2,310			6,040	3,740 24.8 ft
Dozer without dozer blade	0 ft lb			*15,410	13,430	12,530	7,430	8,130	4,980			2,790	1,710 7.39 m
-1.5 m kg	*4,130	*4,130	*8,960	6,140	5,720	3,350	3,720	2,250				6,150	3,790 24.3 ft
-5 ft lb	*9,290	*9,290	*20,600	13,200	12,300	7,230	8,020	4,870				3,060	1,870 6.89 m
-3.0 m kg	*7,560	*7,560	*8,600	6,200	5,730	3,360						6,770	4,150 22.6 ft
-10 ft lb	*17,070	*17,070	*18,560	13,330	12,320	7,250						3,770	2,300 5.98 m
-4.5 m kg				*5,450	*5,450							8,400	5,120 19.5 ft
-15 ft lb				*11,380	*11,380							*3,430	*3,430 4.37 m
												*7,440	*7,440 14.0 ft
Boom	7.5 m kg					*3,420	*3,420					*3,410	*3,410 4.50 m
	25 ft lb											*7,700	*7,700 14.2 ft
4.6 m (15'1")	6.0 m kg					*3,540	*3,540	*3,000	2,740			*2,870	2,700 6.05 m
Arm	20 ft lb					*7,840	*7,840					*6,380	6,080 19.6 ft
3.0 m (9'10")	4.5 m kg					*3,860	*3,860	*3,730	2,740			*2,710	2,150 6.94 m
Shoe	15 ft lb					*8,430	*8,430	*8,200	5,900			*5,980	4,780 22.6 ft
600 mm (24 in)	3.0 m kg			*5,650	*5,650	*4,760	4,110	*4,080	2,660			*2,710	1,900 7.41 m
Undercarriage LC	10 ft lb			*11,860	*11,860	*10,320	8,860	*8,890	5,730			*5,970	4,200 24.3 ft
Counterweight	5 ft lb					*5,860	3,850	4,190	2,540	3,000	1,820	*2,850	1,800 7.56 m
3,500 kg (7,720 lb)	0 m kg			*6,630	6,600	6,290	3,650	4,080	2,450			*6,280	3,980 24.8 ft
Dozer with dozer blade up	0 ft lb			*15,410	14,210	13,530	7,880	8,800	5,280			3,020	1,830 7.39 m
-1.5 m kg	*4,130	*4,130	*8,960	6,500	6,180	3,560	4,030	2,400				6,670	4,030 24.3 ft
-5 ft lb	*9,290	*9,290	*20,600	13,980	13,300	7,670	8,680	5,180				3,320	2,000 6.89 m
-3.0 m kg	*7,560	*7,560	*8,600	6,560	*5,840	3,570						7,340	4,410 22.6 ft
-10 ft lb	*17,070	*17,070	*18,560	14,110	*12,560	7,700						*3,880	2,440 5.98 m
-4.5 m kg				*5,450	*5,450							*8,550	5,440 19.5 ft
-15 ft lb				*11,380	*11,380							*3,430	*3,430 4.37 m
												*7,440	*7,440 14.0 ft

Notes: 1. Machine in "Fine Mode-F" (Power Boost) for lifting capacities. 2. The above loads are in compliance with SAE J1097 and ISO 10567 Hydraulic Excavator Lifting Capacity Standards.

Excavator Lifting Capacity Standards. 3. Rated loads do not exceed 87% of hydraulic lifting capacity or 75% of tipping load. 4. Rated loads marked with an asterisk (*) are limited by hydraulic capacity rather than tipping load.

Specifications

LIFTING CAPACITY ECR145F L

Lifting capacity at the arm end without bucket.

For lifting capacity including bucket, simply subtract actual weight of the direct fit bucket or the bucket with quick coupler from the following values.

	Lifting hook related to ground level	1.5 m (5")		3.0 m (10")		4.5 m (15")		6.0 m (20")		7.5 m (25")		Max.	
		Along UC	Across UC										
Boom	7.5 m kg					*3,420	*3,420					*3,410	*3,410 4.50 m
	25 ft lb											*7,700	*7,700 14.2 ft
4.6 m (15'1")	6.0 m kg					*3,540	*3,540	*3,000	2,940			*2,870	*2,870 6.05 m
Arm	20 ft lb					*7,840	*7,840					*6,380	*6,380 19.6 ft
3.0 m (9'10")	4.5 m kg					*3,860	*3,860	*3,730	2,940			*2,710	2,310 6.94 m
Shoe	15 ft lb					*8,430	*8,430	*8,200	6,320			*5,980	5,140 22.6 ft
600 mm (24 in)	3.0 m kg			*5,650	*5,650	*4,760	4,420	*4,080	2,850			*2,710	2,040 7.41 m
Undercarriage LC	10 ft lb			*11,860	*11,860	*10,320	9,530	*8,890	6,150			*5,970	4,520 24.3 ft
Counterweight	5 ft lb					*5,860	4,160	*4,540	2,740	*3,100	1,970	*2,850	1,940 7.56 m
3,500 kg (7,720 lb)	0 m kg			*6,630	*6,630	*6,600	3,950	*4,860	2,640			*6,280	4,290 24.8 ft
Dozer with dozer blade down	0 ft lb			*15,410	*15,410	*14,300	8,530	*10,550	5,700			*3,160	1,970 7.39 m
	-1.5 m kg	*4,130	*4,130	*8,960	7,140	*6,650	3,860	*4,800	2,590			*6,960	4,350 24.3 ft
	-5 ft lb	*9,290	*9,290	*20,600	15,350	*14,400	8,320	*10,370	5,590			*3,760	2,150 6.89 m
	-3.0 m kg	*7,560	*7,560	*8,600	7,200	*5,840	3,870					*8,320	4,760 22.6 ft
	-10 ft lb	*17,070	*17,070	*18,560	15,480	*12,560	8,340					*3,880	2,630 5.98 m
	-4.5 m kg			*5,450	*5,450							*8,550	5,870 19.5 ft
	-15 ft lb			*11,380	*11,380							*3,430	*3,430 4.37 m
												*7,440	*7,440 14.0 ft
Boom	7.5 m kg					*3,420	*3,420					*3,410	*3,410 4.50 m
	25 ft lb											*7,700	*7,700 14.2 ft
4.6 m (15'1")	6.0 m kg					*3,540	*3,540	*3,000	2,540			*2,870	2,510 6.05 m
Arm	20 ft lb					*7,840	*7,840					*6,380	5,640 19.6 ft
3.0 m (9'10")	4.5 m kg					*3,860	*3,860	*3,730	2,540			*2,710	1,980 6.94 m
Shoe	15 ft lb					*8,430	*8,430	*8,200	5,470			*5,980	4,410 22.6 ft
700 mm (28 in)	3.0 m kg			*5,650	*5,650	*4,760	3,820	3,950	2,460			*2,710	1,740 7.41 m
Undercarriage LC	10 ft lb			*11,860	*11,860	*10,320	8,250	8,500	5,300			*5,970	3,860 24.3 ft
Counterweight	5 ft lb					*5,860	3,570	3,820	2,350	2,730	1,670	2,690	1,650 7.56 m
3,200 kg (7,060 lb)	0 m kg			*6,630	6,100	5,740	3,370	3,720	2,250			5,950	3,650 24.8 ft
Dozer without dozer blade	0 ft lb			*15,410	13,120	12,350	7,260	8,010	4,860			6,060	3,690 24.3 ft
	-1.5 m kg	*4,130	*4,130	*8,960	6,000	5,630	3,270	3,660	2,200			3,010	1,830 6.89 m
	-5 ft lb	*9,290	*9,290	*20,600	12,900	12,110	7,060	7,890	4,750			6,660	4,040 22.6 ft
	-3.0 m kg	*7,560	*7,560	*8,600	6,060	5,640	3,280					3,710	2,240 5.98 m
	-10 ft lb	*17,070	*17,070	*18,560	13,030	12,140	7,080					8,270	4,990 19.5 ft
	-4.5 m kg			*5,450	*5,450							*3,430	*3,430 4.37 m
	-15 ft lb			*11,380	*11,380							*7,440	*7,440 14.0 ft
Boom	7.5 m kg					*3,420	*3,420					*3,410	*3,410 4.50 m
	25 ft lb											*7,700	*7,700 14.2 ft
4.6 m (15'1")	6.0 m kg					*3,540	*3,540	*3,000	2,690			*2,870	2,650 6.05 m
Arm	20 ft lb					*7,840	*7,840					*6,380	5,960 19.6 ft
3.0 m (9'10")	4.5 m kg					*3,860	*3,860	*3,730	2,690			*2,710	2,100 6.94 m
Shoe	15 ft lb					*8,430	*8,430	*8,200	5,780			*5,980	4,680 22.6 ft
700 mm (28 in)	3.0 m kg			*5,650	*5,650	*4,760	4,030	*4,080	2,600			*2,710	1,860 7.41 m
Undercarriage LC	10 ft lb			*11,860	*11,860	*10,320	8,690	*8,890	5,610			*5,970	4,110 24.3 ft
Counterweight	5 ft lb					*5,860	3,770	4,130	2,490	2,960	1,780	*2,850	1,760 7.56 m
3,200 kg (7,060 lb)	0 m kg			*6,630	6,470	6,200	3,570	4,020	2,390			*6,280	3,890 24.8 ft
Dozer without dozer blade up	0 ft lb			*15,410	13,910	13,340	7,710	8,670	5,170			2,980	1,780 7.39 m
	-1.5 m kg	*4,130	*4,130	*8,960	6,370	6,090	3,480	3,970	2,340			6,570	3,940 24.3 ft
	-5 ft lb	*9,290	*9,290	*20,600	13,680	13,110	7,500	8,560	5,060			3,270	1,950 6.89 m
	-3.0 m kg	*7,560	*7,560	*8,600	6,420	*5,840	3,490					*7,230	4,310 22.6 ft
	-10 ft lb	*17,070	*17,070	*18,560	13,810	*12,560	7,530					*3,880	2,390 5.98 m
	-4.5 m kg			*5,450	*5,450							*8,550	5,310 19.5 ft
	-15 ft lb			*11,380	*11,380							*3,430	*3,430 4.37 m
												*7,440	*7,440 14.0 ft
Boom	7.5 m kg					*3,420	*3,420					*3,410	*3,410 4.50 m
	25 ft lb											*7,700	*7,700 14.2 ft
4.6 m (15'1")	6.0 m kg					*3,540	*3,540	*3,000	2,880			*2,870	2,840 6.05 m
Arm	20 ft lb					*7,840	*7,840					*6,380	*6,380 19.6 ft
3.0 m (9'10")	4.5 m kg					*3,860	*3,860	*3,730	2,880			*2,710	2,260 6.94 m
Shoe	15 ft lb					*8,430	*8,430	*8,200	6,200			*5,980	5,030 22.6 ft
700 mm (28 in)	3.0 m kg			*5,650	*5,650	*4,760	4,340	*4,080	2,800			*2,710	2,000 7.41 m
Undercarriage LC	10 ft lb			*11,860	*11,860	*10,320	9,360	*8,890	6,030			*5,970	4,430 24.3 ft
Counterweight	5 ft lb					*5,860	4,080	*4,540	2,680	*3,100	1,920	*2,850	1,900 7.56 m
3,200 kg (7,060 lb)	0 m kg					*12,690	8,800	*9,870	5,790			*6,280	4,200 24.8 ft
Dozer with dozer blade down	0 ft lb			*6,630	*6,630	*6,600	3,870	*4,860	2,590			*3,160	1,930 7.39 m
	-1.5 m kg	*4,130	*4,130	*8,960	7,000	*6,650	3,780	*4,800	2,540			*6,960	4,250 24.3 ft
	-5 ft lb	*9,290	*9,290	*20,600	15,040	*14,400	8,150	*10,370	5,480			*3,760	2,110 6.89 m
	-3.0 m kg	*7,560	*7,560	*8,600	7,060	*5,840	3,790					*8,320	4,660 22.6 ft
	-10 ft lb	*17,070	*17,070	*18,560	15,170	*12,560	8,170					*3,880	2,580 5.98 m
	-4.5 m kg			*5,450	*5,450							*8,550	5,740 19.5 ft
	-15 ft lb			*11,380	*11,380							*3,430	*3,430 4.37 m
												*7,440	*7,440 14.0 ft

Notes: 1. Machine in "Fine Mode-F" (Power Boost) for lifting capacities. 2. The above loads are in compliance with SAE J1097 and ISO 10567 Hydraulic Excavator Lifting Capacity Standards. 3. Rated loads do not exceed 87% of hydraulic lifting capacity or 75% of tipping load. 4. Rated loads marked with an asterisk (*) are limited by hydraulic capacity rather than tipping load.

LIFTING CAPACITY ECR145F L

Lifting capacity at the arm end without bucket.

For lifting capacity including bucket, simply subtract actual weight of the direct fit bucket or the bucket with quick coupler from the following values.

	Lifting hook related to ground level	1.5 m (5")		3.0 m (10")		4.5 m (15")		6.0 m (20")		7.5 m (25")		Max.	
		Along UC	Across UC										
Boom	7.5 m kg					*3,420	*3,420					*3,410	*3,410 4.50 m
	25 ft lb											*7,700	*7,700 14.2 ft
4.6 m (15'1")	6.0 m kg					*3,540	*3,540	*3,000	2,640			*2,870	2,600 6.05 m
Arm	20 ft lb					*7,840	*7,840					*6,380	5,860 19.6 ft
3.0 m (9'10")	4.5 m kg					*3,860	*3,860	*3,730	2,640			*2,710	2,070 6.94 m
Shoe	15 ft lb					*8,430	*8,430	*8,200	5,690			*5,980	4,600 22.6 ft
700 mm (28 in)	3.0 m kg			*5,650	*5,650	*4,760	3,970	*4,080	2,560			*2,710	1,820 7.41 m
Undercarriage LC	10 ft lb			*11,860	*11,860	*10,320	8,560	8,780	5,520			*5,970	4,030 24.3 ft
Counterweight	5 ft lb					*5,860	3,710	3,950	2,450	2,820	1,750	2,790	1,730 7.56 m
3,500 kg (7,720 lb)	0 m kg					*12,690	8,010	8,520	5,280			6,160	3,820 24.8 ft
Dozer without dozer blade	-1.5 m kg	*4,130	*4,130	*8,960	6,260	5,830	3,420	3,790	2,300			2,850	1,750 7.39 m
	-5 ft lb	*9,290	*9,290	*20,600	13,450	12,540	7,370	8,180	4,970			6,280	3,860 24.3 ft
	-3.0 m kg	*7,560	*7,560	*8,600	6,310	*5,840	3,420					3,120	1,910 6.89 m
	-10 ft lb	*17,070	*17,070	*18,560	13,580	*12,560	7,390					6,910	4,230 22.6 ft
	-4.5 m kg			*5,450	*5,450							3,850	2,340 5.98 m
	-15 ft lb			*11,380	*11,380							*8,550	5,220 19.5 ft
												*3,430	*3,430 4.37 m
												*7,440	*7,440 14.0 ft
Boom	7.5 m kg					*3,420	*3,420					*3,410	*3,410 4.50 m
	25 ft lb											*7,700	*7,700 14.2 ft
4.6 m (15'1")	6.0 m kg					*3,540	*3,540	*3,000	2,790			*2,870	2,750 6.05 m
Arm	20 ft lb					*7,840	*7,840					*6,380	6,180 19.6 ft
3.0 m (9'10")	4.5 m kg					*3,860	*3,860	*3,730	2,790			*2,710	2,190 6.94 m
Shoe	15 ft lb					*8,430	*8,430	*8,200	6,000			*5,980	4,870 22.6 ft
700 mm (28 in)	3.0 m kg			*5,650	*5,650	*4,760	4,170	*4,080	2,700			*2,710	1,930 7.41 m
Undercarriage LC	10 ft lb			*11,860	*11,860	*10,320	9,010	*8,890	5,830			*5,970	4,280 24.3 ft
Counterweight	5 ft lb					*5,860	3,920	4,260	2,590	3,050	1,860	*2,850	1,840 7.56 m
3,500 kg (7,720 lb)	0 m kg					*12,690	8,450	9,190	5,590			*6,280	4,060 24.8 ft
Dozer with dozer blade up	-1.5 m kg	*4,130	*4,130	*8,960	6,620	6,290	3,620	4,100	2,440			3,380	2,030 6.89 m
	-5 ft lb	*9,290	*9,290	*20,600	14,230	13,540	7,820	8,840	5,280			7,470	4,500 22.6 ft
	-3.0 m kg	*7,560	*7,560	*8,600	6,680	*5,840	3,630					*3,880	2,490 5.98 m
	-10 ft lb	*17,070	*17,070	*18,560	14,360	*12,560	7,840					*8,550	5,540 19.5 ft
	-4.5 m kg			*5,450	*5,450							*3,430	*3,430 4.37 m
	-15 ft lb			*11,380	*11,380							*7,440	*7,440 14.0 ft
Boom	7.5 m kg					*3,420	*3,420					*3,410	*3,410 4.50 m
	25 ft lb											*7,700	*7,700 14.2 ft
4.6 m (15'1")	6.0 m kg					*3,540	*3,540	*3,000	2,990			*2,870	*2,870 6.05 m
Arm	20 ft lb					*7,840	*7,840					*6,380	*6,380 19.6 ft
3.0 m (9'10")	4.5 m kg					*3,860	*3,860	*3,730	2,990			*2,710	2,350 6.94 m
Shoe	15 ft lb					*8,430	*8,430	*8,200	6,430			*5,980	5,230 22.6 ft
700 mm (28 in)	3.0 m kg			*5,650	*5,650	*4,760	4,490	*4,080	2,900			*2,710	2,080 7.41 m
Undercarriage LC	10 ft lb			*11,860	*11,860	*10,320	9,680	*8,890	6,260			*5,970	4,610 24.3 ft
Counterweight	5 ft lb					*5,860	4,230	*4,540	2,790	*3,100	2,000	*2,850	1,980 7.56 m
3,500 kg (7,720 lb)	0 m kg					*12,690	9,120	*9,870	6,020			*6,280	4,370 24.8 ft
Dozer with dozer blade down	-1.5 m kg	*4,130	*4,130	*8,960	7,270	*6,650	3,930	*4,800	2,640			*3,760	2,200 6.89 m
	-5 ft lb	*9,290	*9,290	*20,600	15,620	*14,400	8,470	*10,370	5,700			*8,320	4,860 22.6 ft
	-3.0 m kg	*7,560	*7,560	*8,600	7,330	*5,840	3,940					*3,880	2,680 5.98 m
	-10 ft lb	*17,070	*17,070	*18,560	15,750	*12,560	8,500					*8,550	5,980 19.5 ft
	-4.5 m kg			*5,450	*5,450							*3,430	*3,430 4.37 m
	-15 ft lb			*11,380	*11,380							*7,440	*7,440 14.0 ft
Boom	7.5 m kg			*6,210	*6,210							*5,410	*5,410 3.31 m
	25 ft lb			*12,640	*12,640							*12,510	*12,510 10.0 ft
4.72 m 2pcs (15'6") 2pcs	6.0 m kg			*5,310	*5,310	*5,440	3,900					*4,020	3,010 5.24 m
Arm	20 ft lb			*11,900	*11,900	*11,970	8,380					*8,950	6,830 16.9 ft
2.1 m (6'11")	4.5 m kg			*5,440	*5,440	*5,640	3,830	3,880	2,420			3,620	2,250 6.24 m
Shoe	15 ft lb			*11,880	*11,880	*12,280	8,260	8,330	5,190			*8,020	5,020 20.4 ft
500 mm (20 in)	3.0 m kg					6,000	3,620	3,810	2,360			3,150	1,950 6.77 m
Undercarriage LC	10 ft lb					12,920	7,820	8,220	5,090			6,970	4,310 22.2 ft
Counterweight	5 ft lb					5,740	3,400	3,720	2,270			3,000	1,840 6.93 m
3,200 kg (7,060 lb)	0 m kg					12,360	7,340	8,010	4,900			6,620	4,060 22.7 ft
Dozer without dozer blade	-1.5 m kg					5,590	3,260	3,640	2,200			3,090	1,880 6.75 m
	-5 ft lb					12,030	7,040	7,860	4,760			6,820	4,160 22.1 ft
												*3,300	2,120 6.2 m
												*7,250	4,690 20.3 ft
Boom	7.5 m kg			*6,210	*6,210							*5,410	*5,410 3.31 m
	25 ft lb			*12,640	*12,640							*12,510	*12,510 10.0 ft
4.72 m 2pcs (15'6") 2pcs	6.0 m kg			*5,310	*5,310	*5,440	4,110					*4,020	3,180 5.24 m
Arm	20 ft lb			*11,900	*11,900	*11,970	8,820					*8,950	7,210 16.9 ft
2.1 m (6'11")	4.5 m kg			*5,440	*5,440	*5,640	4,030	4,190	2,560			*3,630	2,390 6.24 m
Shoe	15 ft lb			*11,880	*11,880	*12,280	8,690	8,990	5,500			*8,020	5,320 20.4 ft
500 mm (20 in)	3.0 m kg					*6,290	3,820	4,120	2,500			3,410	2,070 6.77 m
Undercarriage LC	10 ft lb					*13,620	8,260	8,880	5,390			7,550	4,580 22.2 ft
Counterweight	1.5 m kg					6,200	3,600	4,020	2,410			3,260	1,960 6.93 m
3,200 kg (7,060 lb)	0 m kg					13,360	7,770	8,670	5,210			7,180	4,320 22.7 ft
Dozer with dozer blade up	-1.5 m kg					6,050	3,470	3,950	2,350			3,350	2,010 6.75 m
	-5 ft lb					13,020	7,480	8,520	5,070			7,390	4,430 22.1 ft
												*3,300	2,260 6.2 m
												*7,250	4,990 20.3 ft

Notes: 1. Machine in "Fine Mode-F" (Power Boost) for lifting capacities. 2. The above loads are in compliance with SAE J1097 and ISO 10567 Hydraulic Excavator Lifting Capacity Standards. 3. Rated loads do not exceed 87% of hydraulic lifting capacity or 75% of tipping load. 4. Rated loads marked with an asterisk (*) are limited by hydraulic capacity rather than tipping load.

Specifications

LIFTING CAPACITY ECR145F L

Lifting capacity at the arm end without bucket.

For lifting capacity including bucket, simply subtract actual weight of the direct fit bucket or the bucket with quick coupler from the following values.

	Lifting hook related to ground level	1.5 m (5")	3.0 m (10")	4.5 m (15")	6.0 m (20")	7.5 m (25")	Max.				
	Along UC	Across UC	Along UC	Across UC	Along UC	Across UC	Along UC	Across UC	Along UC	Across UC	
Boom	7.5 m kg		*6,210 *6,210						*5,410 *5,410	3.31 m	
4.72 m 2pcs (15'6") 2pcs	25 ft lb		*12,640 *12,640						*12,510 *12,510	10.0 ft	
6.0 m kg		*5,310 *5,310	*5,440 4,420						*4,020 3,420	5.24 m	
Arm	20 ft lb		*11,900 *11,900	*11,970 9,480					*8,950 7,740	16.9 ft	
2.1 m (6'11")	4.5 m kg		*5,440 *5,440	*5,640 4,340	*4,780 2,750				*3,630 2,570	6.24 m	
Shoe	15 ft lb		*11,880 *11,880	*12,280 9,350	*9,630 5,910				*8,020 5,720	20.4 ft	
500 mm (20 in)	3.0 m kg			*6,290 4,130	*4,890 2,690				*3,550 2,230	6.77 m	
Undercarriage LC	10 ft lb				*13,620 8,910	*10,630 5,810			*7,830 4,930	22.2 ft	
Counterweight	1.5 m kg				*6,780 3,900	*4,980 2,600			*3,690 2,110	6.93 m	
3,200 kg (7,060 lb)	5 ft lb				*14,700 8,420	*10,800 5,620			*8,120 4,670	22.7 ft	
Dozer with dozer blade down	0 m kg				*6,580 3,760	*4,730 2,540			*3,810 2,170	6.75 m	
	0 ft lb				*14,280 8,120	*10,210 5,480			*8,410 4,780	22.1 ft	
	-1.5 m kg		*7,200 6,950	*5,520 3,730	*3,680 2,530				*3,300 2,440	6.2 m	
	-5 ft lb		*15,710 14,930	*11,930 8,060	*7,680 5,490				*7,250 5,390	20.3 ft	
Boom	7.5 m kg		*6,210 *6,210						*5,410 *5,410	3.31 m	
4.72 m 2pcs (15'6") 2pcs	25 ft lb		*12,640 *12,640						*12,510 *12,510	10.0 ft	
6.0 m kg		*5,310 *5,310	*5,440 4,050						*4,020 3,130	5.24 m	
Arm	20 ft lb		*11,900 *11,900	*11,970 8,700					*8,950 7,100	16.9 ft	
2.1 m (6'11")	4.5 m kg		*5,440 *5,440	*5,640 3,970	4,010 2,520				*3,630 2,350	6.24 m	
Shoe	15 ft lb		*11,880 *11,880	*12,280 8,570	8,620 5,410				*8,020 5,230	20.4 ft	
500 mm (20 in)	3.0 m kg			6,200 3,770	3,950 2,460				3,260 2,030	6.77 m	
Undercarriage LC	10 ft lb				13,350 8,130	8,500 5,300			7,220 4,500	22.2 ft	
Counterweight	1.5 m kg				5,940 3,540	3,850 2,370			3,110 1,920	6.93 m	
3,500 kg (7,720 lb)	5 ft lb				12,790 7,650	8,300 5,120			6,860 4,250	22.7 ft	
Dozer without dozer blade	0 m kg				5,790 3,410	3,780 2,300			3,200 1,970	6.75 m	
	0 ft lb				12,450 7,350	8,150 4,980			7,070 4,350	22.1 ft	
	-1.5 m kg		*7,200 6,220	*5,520 3,380	*3,680 2,300				*3,300 2,220	6.2 m	
	-5 ft lb		*15,710 13,360	*11,930 7,300	*7,680 4,990				*7,250 4,900	20.3 ft	
Boom	7.5 m kg		*6,210 *6,210						*5,410 *5,410	3.31 m	
4.72 m 2pcs (15'6") 2pcs	25 ft lb		*12,640 *12,640						*12,510 *12,510	10.0 ft	
6.0 m kg		*5,310 *5,310	*5,440 4,250						*4,020 3,300	5.24 m	
Arm	20 ft lb		*11,900 *11,900	*11,970 9,130					*8,950 7,470	16.9 ft	
2.1 m (6'11")	4.5 m kg		*5,440 *5,440	*5,640 4,180	4,320 2,660				*3,630 2,480	6.24 m	
Shoe	15 ft lb		*11,880 *11,880	*12,280 9,000	9,280 5,720				*8,020 5,530	20.4 ft	
500 mm (20 in)	3.0 m kg			6,290 3,970	4,250 2,600				3,530 2,150	6.77 m	
Undercarriage LC	10 ft lb				13,620 8,570	9,160 5,610			7,800 4,770	22.2 ft	
Counterweight	1.5 m kg				6,400 3,740	4,150 2,510			3,360 2,040	6.93 m	
3,500 kg (7,720 lb)	5 ft lb				13,780 8,090	8,960 5,420			7,420 4,510	22.7 ft	
Dozer with dozer blade up	0 m kg				6,250 3,610	4,080 2,450			3,460 2,090	6.75 m	
	0 ft lb				13,450 7,790	8,810 5,280			7,640 4,620	22.1 ft	
	-1.5 m kg		*7,200 6,580	*5,520 3,580	*3,680 2,440				*3,300 2,350	6.2 m	
	-5 ft lb		*15,710 14,140	*11,930 7,740	*7,680 5,290				*7,250 5,210	20.3 ft	
Boom	7.5 m kg		*6,210 *6,210						*5,410 *5,410	3.31 m	
4.72 m 2pcs (15'6") 2pcs	25 ft lb		*12,640 *12,640						*12,510 *12,510	10.0 ft	
6.0 m kg		*5,310 *5,310	*5,440 4,570						*4,020 3,540	5.24 m	
Arm	20 ft lb		*11,900 *11,900	*11,970 9,810					*8,950 8,020	16.9 ft	
2.1 m (6'11")	4.5 m kg		*5,440 *5,440	*5,640 4,490	*4,780 2,860				*3,630 2,670	6.24 m	
Shoe	15 ft lb		*11,880 *11,880	*12,280 9,680	*9,630 6,140				*8,020 5,950	20.4 ft	
500 mm (20 in)	3.0 m kg			6,290 4,280	*4,890 2,800				*3,550 2,320	6.77 m	
Undercarriage LC	10 ft lb				13,620 9,230	*10,630 6,030			*7,830 5,130	22.2 ft	
Counterweight	1.5 m kg				6,780 4,050	*4,980 2,710			*3,690 2,200	6.93 m	
3,500 kg (7,720 lb)	5 ft lb				*14,700 8,740	*10,800 5,840			*8,120 4,860	22.7 ft	
Dozer with dozer blade up	0 m kg				*6,580 3,910	*4,730 2,640			*3,810 2,260	6.75 m	
	0 ft lb				*14,280 8,440	*10,210 5,700			*8,410 4,980	22.1 ft	
	-1.5 m kg		*7,200 *7,200	*5,520 3,890	*3,680 2,640				*3,300 2,540	6.2 m	
	-5 ft lb		*15,710 15,510	*11,930 8,380	*7,680 5,710				*7,250 5,620	20.3 ft	
Boom	7.5 m kg		*6,210 *6,210						*5,410 *5,410	3.31 m	
4.72 m 2pcs (15'6") 2pcs	25 ft lb		*12,640 *12,640						*12,510 *12,510	10.0 ft	
6.0 m kg		*5,310 *5,310	*5,440 3,950						*4,020 3,050	5.24 m	
Arm	20 ft lb		*11,900 *11,900	*11,970 8,480					*8,950 6,910	16.9 ft	
2.1 m (6'11")	4.5 m kg		*5,440 *5,440	*5,640 3,870	3,930 2,450				*3,630 2,280	6.24 m	
Shoe	15 ft lb		*11,880 *11,880	*12,280 8,350	8,450 5,260				*8,020 5,090	20.4 ft	
600 mm (24 in)	3.0 m kg			6,080 3,670	3,870 2,390				3,200 1,970	6.77 m	
Undercarriage LC	10 ft lb			13,090 7,920	8,330 5,160				7,070 4,370	22.2 ft	
Counterweight	1.5 m kg			5,820 3,440	3,770 2,300				3,050 1,870	6.93 m	
3,200 kg (7,060 lb)	5 ft lb			12,540 7,440	8,130 4,970				6,720 4,120	22.7 ft	
Dozer without dozer blade	0 m kg			5,670 3,310	3,700 2,240				3,130 1,910	6.75 m	
	0 ft lb			12,200 7,140	7,970 4,830				6,920 4,220	22.1 ft	
	-1.5 m kg		*7,200 6,040	*5,520 3,280	*3,680 2,230				*3,300 2,150	6.2 m	
	-5 ft lb		*15,710 12,990	*11,930 7,090	*7,680 4,840				*7,250 4,760	20.3 ft	

Notes: 1. Machine in "Fine Mode-F" (Power Boost) for lifting capacities. 2. The above loads are in compliance with SAE J1097 and ISO 10567 Hydraulic Excavator Lifting Capacity Standards. 3. Rated loads do not exceed 87% of hydraulic lifting capacity or 75% of tipping load. 4. Rated loads marked with an asterisk (*) are limited by hydraulic capacity rather than tipping load.

LIFTING CAPACITY ECR145F L

Lifting capacity at the arm end without bucket.

For lifting capacity including bucket, simply subtract actual weight of the direct fit bucket or the bucket with quick coupler from the following values.

	Lifting hook related to ground level	1.5 m (5")	3.0 m (10")	4.5 m (15")	6.0 m (20")	7.5 m (25")	Max.					
	Along UC	Across UC	Along UC	Across UC	Along UC	Across UC	Along UC	Across UC	Along UC	Across UC		
Boom	7.5 m kg		*6,210	*6,210								*5,410 *5,410 3.31 m
4.72 m 2pcs	25 ft lb		*12,640	*12,640								*12,510 *12,510 10.0 ft
(15'6") 2pcs	6.0 m kg		*5,310	*5,310	*5,440	4,160						*4,020 3,220 5.24 m
Arm	4.5 m kg		*5,440	*5,440	*5,640	4,080	4,240	2,590				*8,950 7,290 16.9 ft
2.1 m (6'11")	15 ft lb		*11,880	*11,880	*12,280	8,800	9,120	5,570				*8,020 5,390 20.4 ft
Shoe	3.0 m kg				*6,290	3,870	4,180	2,530				3,460 2,100 6.77 m
600 mm (24 in)	10 ft lb				*13,620	8,360	9,000	5,470				7,660 4,640 22.2 ft
Undercarriage LC	1.5 m kg				6,290	3,650	4,080	2,440				3,300 1,990 6.93 m
Counterweight	5 ft lb				13,540	7,880	8,790	5,280				7,280 4,390 22.7 ft
0 m kg					6,130	3,510	4,010	2,380				3,400 2,040 6.75 m
3,200 kg (7,060 lb)	0 ft lb				13,200	7,590	8,640	5,140				7,500 4,490 22.1 ft
Dozer with dozer blade up	-1.5 m kg		*7,200	6,410	*5,520	3,490	*3,680	2,380				*3,300 2,290 6.2 m
	-5 ft lb		*15,710	13,770	*11,930	7,530	*7,680	5,150				*7,250 5,060 20.3 ft
Boom	7.5 m kg		*6,210	*6,210								*5,410 *5,410 3.31 m
4.72 m 2pcs	25 ft lb		*12,640	*12,640								*12,510 *12,510 10.0 ft
(15'6") 2pcs	6.0 m kg		*5,310	*5,310	*5,440	4,470						*4,020 3,460 5.24 m
Arm	4.5 m kg		*5,440	*5,440	*5,640	4,390	*4,780	2,790				*8,950 7,840 16.9 ft
2.1 m (6'11")	15 ft lb		*11,880	*11,880	*12,280	9,460	*9,630	5,990				*3,630 2,600 6.24 m
Shoe	3.0 m kg				*6,290	4,180	*4,890	2,730				*8,020 5,800 20.4 ft
600 mm (24 in)	10 ft lb				*13,620	9,020	*10,630	5,880				*3,550 2,260 6.77 m
Undercarriage LC	1.5 m kg				*6,780	3,950	*4,980	2,640				*3,690 2,140 6.93 m
Counterweight	5 ft lb				*14,700	8,530	*10,800	5,690				*8,120 4,730 22.7 ft
0 m kg					*6,580	3,810	*4,730	2,570				*3,810 2,200 6.75 m
3,200 kg (7,060 lb)	0 ft lb				*14,280	8,230	*10,210	5,560				*8,410 4,850 22.1 ft
Dozer with dozer blade down	-1.5 m kg		*7,200	7,040	*5,520	3,790	*3,680	2,570				*3,300 2,470 6.2 m
	-5 ft lb		*15,710	15,130	*11,930	8,170	*7,680	5,560				*7,250 5,470 20.3 ft
Boom	7.5 m kg		*6,210	*6,210								*5,410 *5,410 3.31 m
4.72 m 2pcs	25 ft lb		*12,640	*12,640								*12,510 *12,510 10.0 ft
(15'6") 2pcs	6.0 m kg		*5,310	*5,310	*5,440	4,090						*4,020 3,170 5.24 m
Arm	4.5 m kg		*5,440	*5,440	*5,640	4,020	4,070	2,550				*8,950 7,180 16.9 ft
2.1 m (6'11")	15 ft lb		*11,880	*11,880	*12,280	8,670	8,730	5,480				*3,630 2,380 6.24 m
Shoe	3.0 m kg				6,280	3,810	4,000	2,490				*8,020 5,300 20.4 ft
600 mm (24 in)	10 ft lb				13,520	8,230	8,620	5,370				3,310 2,060 6.77 m
Undercarriage LC	1.5 m kg				6,020	3,590	3,900	2,400				3,150 1,950 6.93 m
Counterweight	5 ft lb				12,960	7,750	8,410	5,190				6,960 4,310 22.7 ft
0 m kg					5,870	3,450	3,830	2,340				3,250 2,000 6.75 m
3,500 kg (7,720 lb)	0 ft lb				12,630	7,450	8,260	5,050				7,170 4,410 22.1 ft
Dozer without dozer blade	-1.5 m kg		*7,200	6,300	*5,520	3,430	*3,680	2,330				*3,300 2,250 6.2 m
	-5 ft lb		*15,710	13,540	*11,930	7,400	*7,680	5,060				*7,250 4,970 20.3 ft
Boom	7.5 m kg		*6,210	*6,210								*5,410 *5,410 3.31 m
4.72 m 2pcs	25 ft lb		*12,640	*12,640								*12,510 *12,510 10.0 ft
(15'6") 2pcs	6.0 m kg		*5,310	*5,310	*5,440	4,300						*4,020 3,340 5.24 m
Arm	4.5 m kg		*5,440	*5,440	*5,640	4,220	4,380	2,690				*8,950 7,560 16.9 ft
2.1 m (6'11")	15 ft lb		*11,880	*11,880	*12,280	9,110	9,400	5,790				*3,630 2,520 6.24 m
Shoe	3.0 m kg				*6,290	4,020	4,310	2,630				*8,020 5,600 20.4 ft
600 mm (24 in)	10 ft lb				*13,620	8,670	9,280	5,680				*3,550 2,180 6.77 m
Undercarriage LC	1.5 m kg				6,490	3,790	4,210	2,540				*7,830 4,830 22.2 ft
Counterweight	5 ft lb				13,960	8,190	9,080	5,490				3,410 2,070 6.93 m
0 m kg					6,330	3,660	4,140	2,480				3,510 2,120 6.75 m
3,500 kg (7,720 lb)	0 ft lb				13,630	7,900	8,930	5,360				7,750 4,680 22.1 ft
Dozer with dozer blade up	-1.5 m kg		*7,200	6,660	*5,520	3,630	*3,680	2,480				*3,300 2,380 6.2 m
	-5 ft lb		*15,710	14,320	*11,930	7,840	*7,680	5,370				*7,250 5,280 20.3 ft
Boom	7.5 m kg		*6,210	*6,210								*5,410 *5,410 3.31 m
4.72 m 2pcs	25 ft lb		*12,640	*12,640								*12,510 *12,510 10.0 ft
(15'6") 2pcs	6.0 m kg		*5,310	*5,310	*5,440	4,620						*4,020 3,590 5.24 m
Arm	4.5 m kg		*5,440	*5,440	*5,640	4,540	*4,780	2,890				*8,950 8,120 16.9 ft
2.1 m (6'11")	15 ft lb		*11,880	*11,880	*12,280	9,790	*9,630	6,220				*3,630 2,700 6.24 m
Shoe	3.0 m kg				*6,290	4,330	*4,890	2,830				*8,020 6,020 20.4 ft
600 mm (24 in)	10 ft lb				*13,620	9,350	*10,630	6,110				*3,550 2,350 6.77 m
Undercarriage LC	1.5 m kg				*6,780	4,100	*4,980	2,740				*7,830 5,200 22.2 ft
Counterweight	5 ft lb				*14,700	8,850	*10,800	5,920				*8,120 4,930 22.7 ft
0 m kg					*6,580	3,960	*4,730	2,680				*3,810 2,290 6.75 m
3,500 kg (7,720 lb)	0 ft lb				*14,280	8,550	*10,210	5,780				*8,410 5,050 22.1 ft
Dozer with dozer blade up	-1.5 m kg		*7,200	*7,200	*5,520	3,940	*3,680	2,670				*3,300 2,570 6.2 m
	-5 ft lb		*15,710	*15,710	*11,930	8,500	*7,680	5,790				*7,250 5,690 20.3 ft

Notes: 1. Machine in "Fine Mode-F" (Power Boost) for lifting capacities. 2. The above loads are in compliance with SAE J1097 and ISO 10567 Hydraulic Excavator Lifting Capacity Standards. 3. Rated loads do not exceed 87% of hydraulic lifting capacity or 75% of tipping load. 4. Rated loads marked with an asterisk (*) are limited by hydraulic capacity rather than tipping load.

Specifications

LIFTING CAPACITY ECR145F L

Lifting capacity at the arm end without bucket.

For lifting capacity including bucket, simply subtract actual weight of the direct fit bucket or the bucket with quick coupler from the following values.

	Lifting hook related to ground level	1.5 m (5")	3.0 m (10")	4.5 m (15")	6.0 m (20")	7.5 m (25")	Max.				
	Along UC	Across UC	Along UC	Across UC	Along UC	Across UC	Along UC	Across UC	Along UC	Across UC	
Boom	7.5 m kg		*6,210 *6,210						*5,410 *5,410	3.31 m	
4.72 m 2pcs (15'6") 2pcs	25 ft lb		*12,640 *12,640						*12,510 *12,510	10.0 ft	
6.0 m kg		*5,310 *5,310	*5,440 4,020						*4,020 3,100	5.24 m	
Arm	20 ft lb		*11,900 *11,900	*11,970 8,620					*8,950 7,030	16.9 ft	
2.1 m (6'11")	4.5 m kg		*5,440 *5,440	*5,640 3,940	4,010 2,500				*3,630 2,330	6.24 m	
Shoe	15 ft lb		*11,880 *11,880	*12,280 8,490	8,610 5,360				*8,020 5,190	20.4 ft	
700 mm (28 in)	3.0 m kg			6,190 3,730	3,940 2,440				3,260 2,010	6.77 m	
Undercarriage LC	1.5 m kg				5,940 3,510	3,840 2,350			3,110 1,900	6.93 m	
Counterweight	5 ft lb				12,780 7,580	8,290 5,070			6,860 4,200	22.7 ft	
0 m kg					5,780 3,370	3,770 2,280			3,200 1,950	6.75 m	
3,200 kg (7,060 lb)	0 ft lb				12,440 7,280	8,140 4,930			7,060 4,310	22.1 ft	
Dozer without dozer blade	-1.5 m kg		*7,200 6,160	*5,520 3,350	*3,680 2,280				*3,300 2,190	6.2 m	
	-5 ft lb		*15,710 13,230	*11,930 7,230	*7,680 4,940				*7,250 4,860	20.3 ft	
Boom	7.5 m kg		*6,210 *6,210						*5,410 *5,410	3.31 m	
4.72 m 2pcs (15'6") 2pcs	25 ft lb		*12,640 *12,640						*12,510 *12,510	10.0 ft	
6.0 m kg		*5,310 *5,310	*5,440 4,220						*4,020 3,270	5.24 m	
Arm	20 ft lb		*11,900 *11,900	*11,970 9,070					*8,950 7,420	16.9 ft	
2.1 m (6'11")	4.5 m kg		*5,440 *5,440	*5,640 4,150	4,320 2,640				*3,630 2,460	6.24 m	
Shoe	15 ft lb		*11,880 *11,880	*12,280 8,940	9,270 5,670				*8,020 5,490	20.4 ft	
700 mm (28 in)	3.0 m kg			*6,290 3,940	4,250 2,580				3,520 2,140	6.77 m	
Undercarriage LC	1.5 m kg			13,620 8,500	9,160 5,560				7,800 4,730	22.2 ft	
Counterweight	5 ft lb			6,400 3,710	4,150 2,490				3,360 2,020	6.93 m	
0 m kg				13,770 8,020	8,950 5,380				7,420 4,470	22.7 ft	
3,200 kg (7,060 lb)	0 ft lb			6,240 3,580	4,080 2,430				3,460 2,070	6.75 m	
Dozer with dozer blade up	-1.5 m kg		*7,200 6,520	*5,520 3,550	*3,680 2,420				7,640 4,580	22.1 ft	
	-5 ft lb		*15,710 14,020	*11,930 7,670	*7,680 5,250				*3,300 2,330	6.2 m	
									*7,250 5,160	20.3 ft	
Boom	7.5 m kg		*6,210 *6,210						*5,410 *5,410	3.31 m	
4.72 m 2pcs (15'6") 2pcs	25 ft lb		*12,640 *12,640						*12,510 *12,510	10.0 ft	
6.0 m kg		*5,310 *5,310	*5,440 4,540						*4,020 3,520	5.24 m	
Arm	20 ft lb		*11,900 *11,900	*11,970 9,750					*8,950 7,970	16.9 ft	
2.1 m (6'11")	4.5 m kg		*5,440 *5,440	*5,640 4,460	*4,780 2,840				*3,630 2,650	6.24 m	
Shoe	15 ft lb		*11,880 *11,880	*12,280 9,620	*9,630 6,100				*8,020 5,900	20.4 ft	
700 mm (28 in)	3.0 m kg			*6,290 4,250	*4,890 2,780				*3,550 2,300	6.77 m	
Undercarriage LC	1.5 m kg			13,620 9,170	*10,630 5,990				*7,830 5,100	22.2 ft	
Counterweight	5 ft lb			*6,780 4,020	*4,980 2,690				*3,690 2,190	6.93 m	
0 m kg				*14,700 8,680	*10,800 5,800				*8,120 4,820	22.7 ft	
3,200 kg (7,060 lb)	0 ft lb			*6,580 3,880	*4,730 2,620				*3,810 2,240	6.75 m	
Dozer with dozer blade down	-1.5 m kg		*7,200 7,170	*5,520 3,860	*10,210 5,660				*8,410 4,950	22.1 ft	
	-5 ft lb		*15,710 15,400	*11,930 8,320	*3,680 2,620				*3,300 2,520	6.2 m	
					*7,680 5,670				*7,250 5,570	20.3 ft	
Boom	7.5 m kg		*6,210 *6,210						*5,410 *5,410	3.31 m	
4.72 m 2pcs (15'6") 2pcs	25 ft lb		*12,640 *12,640						*12,510 *12,510	10.0 ft	
6.0 m kg		*5,310 *5,310	*5,440 4,160						*4,020 3,220	5.24 m	
Arm	20 ft lb		*11,900 *11,900	*11,970 8,930					*8,950 7,300	16.9 ft	
2.1 m (6'11")	4.5 m kg		*5,440 *5,440	*5,640 4,080	4,140 2,600				*3,630 2,420	6.24 m	
Shoe	15 ft lb		*11,880 *11,880	*12,280 8,810	8,900 5,580				*8,020 5,400	20.4 ft	
700 mm (28 in)	3.0 m kg			*6,290 3,880	4,080 2,540				3,370 2,100	6.77 m	
Undercarriage LC	1.5 m kg			13,620 8,370	8,780 5,470				7,470 4,650	22.2 ft	
Counterweight	5 ft lb			*6,130 3,650	3,980 2,450				3,220 1,990	6.93 m	
0 m kg				13,210 7,890	8,570 5,280				7,100 4,390	22.7 ft	
3,500 kg (7,720 lb)	0 ft lb			*5,980 3,520	3,900 2,380				3,310 2,040	6.75 m	
Dozer without dozer blade up	-1.5 m kg		*7,200 6,410	*5,520 3,490	*3,680 2,380				7,310 4,500	22.1 ft	
	-5 ft lb		*15,710 13,780	*11,930 7,540	*7,680 5,150				*3,300 2,290	6.2 m	
					*7,680 5,150				*7,250 5,070	20.3 ft	
Boom	7.5 m kg		*6,210 *6,210						*5,410 *5,410	3.31 m	
4.72 m 2pcs (15'6") 2pcs	25 ft lb		*12,640 *12,640						*12,510 *12,510	10.0 ft	
6.0 m kg		*5,310 *5,310	*5,440 4,370						*4,020 3,390	5.24 m	
Arm	20 ft lb		*11,900 *11,900	*11,970 9,380					*8,950 7,680	16.9 ft	
2.1 m (6'11")	4.5 m kg		*5,440 *5,440	*5,640 4,290	4,450 2,740				*3,630 2,560	6.24 m	
Shoe	15 ft lb		*11,880 *11,880	*12,280 9,250	9,560 5,890				*8,020 5,700	20.4 ft	
700 mm (28 in)	3.0 m kg			*6,290 4,080	4,380 2,680				*3,550 2,220	6.77 m	
Undercarriage LC	1.5 m kg			*13,620 8,820	9,440 5,780				*7,830 4,920	22.2 ft	
Counterweight	5 ft lb			6,600 3,860	4,280 2,590				3,470 2,110	6.93 m	
0 m kg				14,200 8,330	9,240 5,590				7,660 4,660	22.7 ft	
3,500 kg (7,720 lb)	0 ft lb			6,440 3,720	4,210 2,530				3,580 2,160	6.75 m	
Dozer with dozer blade up	-1.5 m kg		*7,200 6,780	*5,520 3,700	*3,680 2,520				7,890 4,770	22.1 ft	
	-5 ft lb		*15,710 14,570	*11,930 7,980	*7,680 5,460				*3,300 2,430	6.2 m	
					*7,680 5,460				*7,250 5,370	20.3 ft	

Notes: 1. Machine in "Fine Mode-F" (Power Boost) for lifting capacities. 2. The above loads are in compliance with SAE J1097 and ISO 10567 Hydraulic Excavator Lifting Capacity Standards. 3. Rated loads do not exceed 87% of hydraulic lifting capacity or 75% of tipping load. 4. Rated loads marked with an asterisk (*) are limited by hydraulic capacity rather than tipping load.

LIFTING CAPACITY ECR145F L

Lifting capacity at the arm end without bucket.

For lifting capacity including bucket, simply subtract actual weight of the direct fit bucket or the bucket with quick coupler from the following values.

	Lifting hook related to ground level	1.5 m (5")	3.0 m (10")	4.5 m (15")	6.0 m (20")	7.5 m (25")	Max.					
	Along UC	Across UC	Along UC	Across UC	Along UC	Across UC	Along UC	Across UC	Along UC	Across UC		
Boom	7.5 m kg		*6,210	*6,210					*5,410	*5,410	3.31 m	
4.72 m 2pcs (15'6") 2pcs	25 ft lb		*12,640	*12,640					*12,510	*12,510	10.0 ft	
6.0 m kg			*5,310	*5,310	*5,440	4,690			*4,020	3,640	5.24 m	
20 ft lb			*11,900	*11,900	*11,970	10,070			*8,950	8,250	16.9 ft	
Arm	4.5 m kg		*5,440	*5,440	*5,640	4,610	*4,780	2,940				
2.1 m (6'11")	15 ft lb		*11,880	*11,880	*12,280	9,940	*9,630	6,320		*8,020	6,120	20.4 ft
Shoe	3.0 m kg				*6,290	4,400	*4,890	2,880				
700 mm (28 in)	10 ft lb				*13,620	9,500	*10,630	6,220		*7,830	5,300	22.2 ft
Undercarriage LC	1.5 m kg				*6,780	4,170	*4,980	2,790		*3,690	2,270	6.93 m
Counterweight	5 ft lb				*14,700	9,010	*10,800	6,030		*8,120	5,020	22.7 ft
0 m kg					*6,580	4,030	*4,730	2,730		*3,810	2,330	6.75 m
3,500 kg (7,720 lb)	0 ft lb				*14,280	8,710	*10,210	5,890		*8,410	5,140	22.1 ft
Dozer with dozer blade down	-1.5 m kg		*7,200	*7,200	*5,520	4,010	*3,680	2,720		*3,300	2,620	6.2 m
	-5 ft lb		*15,710	*15,710	*11,930	8,650	*7,680	5,900		*7,250	5,800	20.3 ft
Boom	7.5 m kg		*5,340	*5,340					*4,110	*4,110	4.09 m	
4.72 m 2pcs (15'6") 2pcs	25 ft lb		*11,900	*11,900					*9,370	*9,370	12.8 ft	
6.0 m kg					*4,690	3,970			*3,250	2,620	5.75 m	
20 ft lb					*10,360	8,540			*7,240	5,900	18.6 ft	
Arm	4.5 m kg		*4,030	*4,030	*4,850	3,880	3,920	2,450		*2,970	2,030	6.68 m
2.5 m (8'2")	15 ft lb		*8,900	*8,900	*10,660	8,370	8,430	5,280		*6,570	4,530	21.8 ft
Shoe	3.0 m kg				*6,030	3,670	3,830	2,370		2,890	1,780	7.17 m
500 mm (20 in)	1.5 m kg				13,040	7,920	8,260	5,120		6,390	3,940	23.5 ft
Undercarriage LC	5 ft lb				5,770	3,420	3,720	2,270		2,760	1,690	7.32 m
Counterweight	0 m kg				12,430	7,390	8,020	4,900		6,090	3,730	24.0 ft
3,200 kg (7,060 lb)	0 ft lb				5,580	3,260	3,630	2,190		2,830	1,720	7.15 m
Dozer without dozer blade	-1.5 m kg		*8,070	5,880	5,520	3,200	3,600	2,160		6,240	3,800	23.5 ft
	-5 ft lb		*17,550	12,650	11,880	6,910	7,770	4,680		3,140	1,910	6.63 m
	-3.0 m kg		*5,270	*5,270	*3,990	3,250				6,950	4,220	21.7 ft
	-10 ft lb		*11,310	*11,310	*8,460	7,020						5.67 m
												18.5 ft
Boom	7.5 m kg		*5,340	*5,340					*4,110	*4,110	4.09 m	
4.72 m 2pcs (15'6") 2pcs	25 ft lb		*11,900	*11,900					*9,370	*9,370	12.8 ft	
6.0 m kg					*4,690	4,170			*3,250	2,760	5.75 m	
20 ft lb					*10,360	8,980			*7,240	6,240	18.6 ft	
Arm	4.5 m kg		*4,030	*4,030	*4,850	4,090	4,230	2,590		*2,970	2,160	6.68 m
2.5 m (8'2")	15 ft lb		*8,900	*8,900	*10,660	8,810	9,090	5,580		*6,570	4,800	21.8 ft
Shoe	3.0 m kg				*6,030	3,870	4,140	2,520		*2,910	1,890	7.17 m
500 mm (20 in)	1.5 m kg				6,230	3,620	4,030	2,410		3,000	1,800	7.32 m
Undercarriage LC	5 ft lb				13,420	7,820	8,680	5,210		*6,610	3,970	24.0 ft
Counterweight	0 m kg				6,040	3,460	3,940	2,330		3,070	1,840	7.15 m
3,200 kg (7,060 lb)	0 ft lb				13,010	7,460	8,490	5,040		6,780	4,050	23.5 ft
Dozer with dozer blade up	-1.5 m kg		*8,070	6,250	*5,860	3,400	3,910	2,310		*3,190	2,030	6.63 m
	-5 ft lb		*17,550	13,430	*12,680	7,350	8,440	4,990		*7,020	4,500	21.7 ft
	-3.0 m kg		*5,270	*5,270	*3,990	3,450						5.67 m
	-10 ft lb		*11,310	*11,310	*8,460	7,460						18.5 ft
Boom	7.5 m kg		*5,340	*5,340					*4,110	*4,110	4.09 m	
4.72 m 2pcs (15'6") 2pcs	25 ft lb		*11,900	*11,900					*9,370	*9,370	12.8 ft	
6.0 m kg					*4,690	4,480			*3,250	2,970	5.75 m	
20 ft lb					*10,360	9,640			*7,240	6,700	18.6 ft	
Arm	4.5 m kg		*4,030	*4,030	*4,850	4,390	*4,570	2,790		*2,970	2,320	6.68 m
2.5 m (8'2")	15 ft lb		*8,900	*8,900	*10,660	9,470	*9,930	6,000		*6,570	5,170	21.8 ft
Shoe	3.0 m kg				*6,030	4,170	*4,760	2,710		*2,910	2,040	7.17 m
500 mm (20 in)	1.5 m kg				*6,670	3,920	*4,940	2,600		*3,010	1,940	7.32 m
Undercarriage LC	5 ft lb				*14,450	8,470	*10,720	5,620		*6,610	4,290	24.0 ft
Counterweight	0 m kg				*6,680	3,750	*4,830	2,520		*3,270	1,980	7.15 m
3,200 kg (7,060 lb)	0 ft lb				*14,490	8,100	*10,450	5,450		*7,200	4,380	23.5 ft
Dozer with dozer blade down	-1.5 m kg		*8,070	6,870	*5,860	3,700	*4,110	2,500		*3,190	2,200	6.63 m
	-5 ft lb		*17,550	14,760	*12,680	7,980	*8,780	5,390		*7,020	4,860	21.7 ft
	-3.0 m kg		*5,270	*5,270	*3,990	3,750						5.67 m
	-10 ft lb		*11,310	*11,310	*8,460	8,100						18.5 ft
Boom	7.5 m kg		*5,340	*5,340					*4,110	*4,110	4.09 m	
4.72 m 2pcs (15'6") 2pcs	25 ft lb		*11,900	*11,900					*9,370	*9,370	12.8 ft	
6.0 m kg					*4,690	4,120			*3,250	2,720	5.75 m	
20 ft lb					*10,360	8,850			*7,240	6,140	18.6 ft	
Arm	4.5 m kg		*4,030	*4,030	*4,850	4,030	4,050	2,550		*2,970	2,120	6.68 m
2.5 m (8'2")	15 ft lb		*8,900	*8,900	*10,660	8,680	8,710	5,490		*6,570	4,720	21.8 ft
Shoe	3.0 m kg				*6,030	3,810	3,970	2,470		*2,910	1,860	7.17 m
500 mm (20 in)	1.5 m kg				*5,970	3,560	3,850	2,370		*6,420	4,120	23.5 ft
Undercarriage LC	5 ft lb				12,860	7,700	8,300	5,120		2,860	1,770	7.32 m
Counterweight	0 m kg				5,780	3,400	3,760	2,290		6,320	3,900	24.0 ft
3,200 kg (7,060 lb)	0 ft lb				12,440	7,340	8,120	4,950		2,930	1,800	7.15 m
Dozer without dozer blade	-1.5 m kg		*8,070	6,140	5,720	3,350	3,740	2,260		6,470	3,980	23.5 ft
	-5 ft lb		*17,550	13,200	12,310	7,220	8,060	4,900		*3,190	2,000	6.63 m
	-3.0 m kg		*5,270	*5,270	*3,990	3,390				*7,020	4,420	21.7 ft
	-10 ft lb		*11,310	*11,310	*8,460	7,330						5.67 m
												18.5 ft

Notes: 1. Machine in "Fine Mode-F" (Power Boost) for lifting capacities. 2. The above loads are in compliance with SAE J1097 and ISO 10567 Hydraulic Excavator Lifting Capacity Standards. 3. Rated loads do not exceed 87% of hydraulic lifting capacity or 75% of tipping load. 4. Rated loads marked with an asterisk (*) are limited by hydraulic capacity rather than tipping load.

Specifications

LIFTING CAPACITY ECR145F L

Lifting capacity at the arm end without bucket.

For lifting capacity including bucket, simply subtract actual weight of the direct fit bucket or the bucket with quick coupler from the following values.

	Lifting hook related to ground level	1.5 m (5")	3.0 m (10")	4.5 m (15")	6.0 m (20")	7.5 m (25")	Max.					
	Along UC	Across UC	Along UC	Across UC	Along UC	Across UC	Along UC	Across UC	Along UC	Across UC		
Boom	7.5 m kg		*5,340	*5,340					*4,110	*4,110	4,09 m	
4.72 m 2pcs (15'6") 2pcs	25 ft lb		*11,900	*11,900					*9,370	*9,370	12.8 ft	
6.0 m kg					*4,690	4,320			*3,250	2,870	5.75 m	
20 ft lb					*10,360	9,290			*7,240	6,470	18.6 ft	
4.5 m kg			*4,030	*4,030	*4,850	4,230	4,360	2,690	*2,970	2,250	6.68 m	
Arm	15 ft lb		*8,900	*8,900	*10,660	9,120	9,380	5,800	*6,570	5,000	21.8 ft	
2.5 m (8'2")					*6,030	4,010	4,270	2,620	*2,910	1,980	7.17 m	
Shoe	3.0 m kg					*13,070	8,670	9,210	5,640	*6,420	4,370	23.5 ft
500 mm (20 in)	1.5 m kg					6,430	3,770	4,160	2,510	*3,010	1,880	7.32 m
Undercarriage LC	5 ft lb					13,850	8,130	8,970	5,420	*6,610	4,150	24.0 ft
Counterweight	0 m kg					6,240	3,600	4,070	2,430	3,180	1,920	7.15 m
3,500 kg (7,720 lb)	0 ft lb					13,440	7,770	8,780	5,250	7,010	4,230	23.5 ft
Dozer with dozer blade up	-1.5 m kg		*8,070	6,500	*5,860	3,550	4,040	2,410	*3,190	2,120	6.63 m	
	-5 ft lb		*17,550	13,980	*12,680	7,660	8,720	5,200	*7,020	4,690	21.7 ft	
	-3.0 m kg		*5,270	*5,270	*3,990	3,600					5.67 m	
	-10 ft lb		*11,310	*11,310	*8,460	7,770					18.5 ft	
Boom	7.5 m kg		*5,340	*5,340					*4,110	*4,110	4.09 m	
4.72 m 2pcs (15'6") 2pcs	25 ft lb		*11,900	*11,900					*9,370	*9,370	12.8 ft	
6.0 m kg					*4,690	4,630			*3,250	3,080	5.75 m	
20 ft lb					*10,360	9,960			*7,240	6,950	18.6 ft	
4.5 m kg			*4,030	*4,030	*4,850	4,540	*4,570	2,890	*2,970	2,410	6.68 m	
Arm	15 ft lb		*8,900	*8,900	*10,660	9,790	*9,930	6,220	*6,570	5,370	21.8 ft	
2.5 m (8'2")					*6,030	4,320	*4,760	2,810	*2,910	2,130	7.17 m	
Shoe	3.0 m kg					*13,070	9,330	*10,350	6,070	*6,420	4,710	23.5 ft
500 mm (20 in)	1.5 m kg					6,670	4,070	*4,940	2,710	*3,010	2,030	7.32 m
Undercarriage LC	5 ft lb					*14,450	8,790	*10,720	5,850	*6,610	4,470	24.0 ft
Counterweight	0 m kg					*6,680	3,900	*4,830	2,630	*3,270	2,070	7.15 m
3,500 kg (7,720 lb)	0 ft lb					*14,490	8,430	*10,450	5,670	*7,200	4,570	23.5 ft
Dozer with dozer blade down	-1.5 m kg		*8,070	7,140	*5,860	3,850	*4,110	2,600	*3,190	2,290	6.63 m	
	-5 ft lb		*17,550	15,340	*12,680	8,310	*8,780	5,620	*7,020	5,060	21.7 ft	
	-3.0 m kg		*5,270	*5,270	*3,990	3,900					5.67 m	
	-10 ft lb		*11,310	*11,310	*8,460	8,420					18.5 ft	
Boom	7.5 m kg		*5,340	*5,340					*4,110	*4,110	4.09 m	
4.72 m 2pcs (15'6") 2pcs	25 ft lb		*11,900	*11,900					*9,370	*9,370	12.8 ft	
6.0 m kg					*4,690	4,020			*3,250	2,650	5.75 m	
20 ft lb					*10,360	8,640			*7,240	5,980	18.6 ft	
4.5 m kg			*4,030	*4,030	*4,850	3,930	3,970	2,480	*2,970	2,060	6.68 m	
Arm	15 ft lb		*8,900	*8,900	*10,660	8,470	8,540	5,340	*6,570	4,590	21.8 ft	
2.5 m (8'2")					*6,030	3,710	3,890	2,410	*2,910	1,810	7.17 m	
Shoe	3.0 m kg					*13,070	8,020	8,370	5,190	*6,420	4,000	23.5 ft
600 mm (24 in)	1.5 m kg					5,850	3,470	3,770	2,300	2,800	1,710	7.32 m
Undercarriage LC	5 ft lb					12,600	7,480	8,130	4,970	6,190	3,780	24.0 ft
Counterweight	0 m kg					5,660	3,300	3,680	2,220	2,870	1,750	7.15 m
3,200 kg (7,060 lb)	0 ft lb					12,190	7,130	7,950	4,800	6,340	3,860	23.5 ft
Dozer without dozer blade	-1.5 m kg		*8,070	5,970	5,600	3,250	3,660	2,200	3,190	1,940	6.63 m	
	-5 ft lb		*17,550	12,830	12,050	7,010	7,890	4,750	*7,020	4,280	21.7 ft	
	-3.0 m kg		*5,270	*5,270	*3,990	3,300					5.67 m	
	-10 ft lb		*11,310	*11,310	*8,460	7,120					18.5 ft	
Boom	7.5 m kg		*5,340	*5,340					*4,110	*4,110	4.09 m	
4.72 m 2pcs (15'6") 2pcs	25 ft lb		*11,900	*11,900					*9,370	*9,370	12.8 ft	
6.0 m kg					*4,690	4,220			*3,250	2,800	5.75 m	
20 ft lb					*10,360	9,080			*7,240	6,320	18.6 ft	
4.5 m kg			*4,030	*4,030	*4,850	4,130	4,280	2,630	*2,970	2,190	6.68 m	
Arm	15 ft lb		*8,900	*8,900	*10,660	8,910	9,210	5,650	*6,570	4,870	21.8 ft	
2.5 m (8'2")					*6,030	3,920	4,200	2,550	*2,910	1,920	7.17 m	
Shoe	3.0 m kg					*13,070	8,460	9,040	5,500	*6,420	4,250	23.5 ft
600 mm (24 in)	1.5 m kg					6,320	3,670	4,080	2,450	*3,010	1,830	7.32 m
Undercarriage LC	5 ft lb					13,600	7,930	8,800	5,280	*6,610	4,030	24.0 ft
Counterweight	0 m kg					6,130	3,510	3,990	2,370	3,120	1,860	7.15 m
3,200 kg (7,060 lb)	0 ft lb					13,190	7,570	8,610	5,110	6,880	4,110	23.5 ft
Dozer with dozer blade up	-1.5 m kg		*8,070	6,330	*5,860	3,450	3,970	2,340	*3,190	2,060	6.63 m	
	-5 ft lb		*17,550	13,610	*12,680	7,450	8,560	5,060	*7,020	4,560	21.7 ft	
	-3.0 m kg		*5,270	*5,270	*3,990	3,500					5.67 m	
	-10 ft lb		*11,310	*11,310	*8,460	7,570					18.5 ft	
Boom	7.5 m kg		*5,340	*5,340					*4,110	*4,110	4.09 m	
4.72 m 2pcs (15'6") 2pcs	25 ft lb		*11,900	*11,900					*9,370	*9,370	12.8 ft	
6.0 m kg					*4,690	4,540			*3,250	3,010	5.75 m	
20 ft lb					*10,360	9,750			*7,240	6,790	18.6 ft	
4.5 m kg			*4,030	*4,030	*4,850	4,450	*4,570	2,820	*2,970	2,350	6.68 m	
Arm	15 ft lb		*8,900	*8,900	*10,660	9,580	*9,930	6,080	*6,570	5,240	21.8 ft	
2.5 m (8'2")					*6,030	4,230	*4,760	2,740	*2,910	2,070	7.17 m	
Shoe	3.0 m kg					*13,070	9,120	*10,350	5,920	*6,420	4,590	23.5 ft
600 mm (24 in)	1.5 m kg					6,670	3,970	*4,940	2,640	*3,010	1,970	7.32 m
Undercarriage LC	5 ft lb					*14,450	8,580	*10,720	5,700	*6,610	4,350	24.0 ft
Counterweight	0 m kg					6,680	3,810	*4,830	2,560	*3,270	2,010	7.15 m
3,200 kg (7,060 lb)	0 ft lb					14,490	8,210	*10,450	5,520	*7,200	4,440	23.5 ft
Dozer with dozer blade down	-1.5 m kg		*8,070	6,970	*5,860	3,750	*4,110	2,530	*3,190	2,230	6.63 m	
	-5 ft lb		*17,550	14,960	*12,680	8,090	*8,780	5,470	*7,020	4,930	21.7 ft	
	-3.0 m kg		*5,270	*5,270	*3,990	3,800					5.67 m	
	-10 ft lb		*11,310	*11,310	*8,460	8,210					18.5 ft	

Notes: 1. Machine in "Fine Mode-F" (Power Boost) for lifting capacities. 2. The above loads are in compliance with SAE J1097 and ISO 10567 Hydraulic Excavator Lifting Capacity Standards. 3. Rated loads do not exceed 87% of hydraulic lifting capacity or 75% of tipping load. 4. Rated loads marked with an asterisk (*) are limited by hydraulic capacity rather than tipping load.

LIFTING CAPACITY ECR145F L

Lifting capacity at the arm end without bucket.

For lifting capacity including bucket, simply subtract actual weight of the direct fit bucket or the bucket with quick coupler from the following values.

	Lifting hook related to ground level	1.5 m (5")		3.0 m (10")		4.5 m (15")		6.0 m (20")		7.5 m (25")		Max.	
		Along UC	Across UC										
Boom	7.5 m kg		*5,340	*5,340								*4,110	*4,110 4,09 m
4.72 m 2pcs	25 ft lb		*11,900	*11,900								*9,370	*9,370 12.8 ft
(15'6") 2pcs	6.0 m kg					*4,690	4,160					*3,250	2,750 5.75 m
Arm	20 ft lb					*10,360	8,950					*7,240	6,210 18.6 ft
2.5 m (8'2")	4.5 m kg		*4,030	*4,030	*4,850	4,070	4,110	2,580				*2,970	2,150 6.68 m
Shoe	15 ft lb		*8,900	*8,900	*10,660	8,780	8,830	5,560				*6,570	4,790 21.8 ft
600 mm (24 in)	3.0 m kg					*6,030	3,860	4,020	2,510			*2,910	1,890 7.17 m
Undercarriage LC	10 ft lb					*13,070	8,330	8,660	5,410			*6,420	4,180 23.5 ft
Counterweight	1.5 m kg					6,050	3,610	3,910	2,400			2,900	1,790 7.32 m
3,500 kg (7,720 lb)	0 m kg					13,030	7,800	8,420	5,190			6,410	3,960 24.0 ft
Dozer without dozer	0 ft lb					12,620	7,440	8,230	5,020			2,980	1,830 7.15 m
blade	-1.5 m kg		*8,070	6,220	5,800	3,390	3,790	2,300				6,570	4,040 23.5 ft
Dozer with dozer	-5 ft lb		*17,550	13,380	12,480	7,320	8,170	4,970				*3,190	2,020 6.63 m
blade up	-3.0 m kg		*5,270	*5,270	*3,990	3,440						*7,020	4,480 21.7 ft
	-10 ft lb		*11,310	*11,310	*8,460	7,430							5.67 m
													18.5 ft
Boom	7.5 m kg		*5,340	*5,340								*4,110	*4,110 4.09 m
4.72 m 2pcs	25 ft lb		*11,900	*11,900								*9,370	*9,370 12.8 ft
(15'6") 2pcs	6.0 m kg					*4,690	4,370					*3,250	2,910 5.75 m
Arm	20 ft lb					*10,360	9,390					*7,240	6,550 18.6 ft
2.5 m (8'2")	4.5 m kg		*4,030	*4,030	*4,850	4,280	4,410	2,730				*2,970	2,270 6.68 m
Shoe	15 ft lb		*8,900	*8,900	*10,660	9,220	9,500	5,870				*6,570	5,060 21.8 ft
600 mm (24 in)	3.0 m kg					*6,030	4,060	4,330	2,650			*2,910	2,000 7.17 m
Undercarriage LC	10 ft lb					*13,070	8,770	9,330	5,720			*6,420	4,430 23.5 ft
Counterweight	1.5 m kg					6,520	3,810	4,220	2,550			*3,010	1,910 7.32 m
3,500 kg (7,720 lb)	0 m kg					14,030	8,240	9,090	5,500			*6,610	4,210 24.0 ft
Dozer with dozer	0 ft lb					6,330	3,650	4,130	2,470			3,220	1,940 7.15 m
blade up	-1.5 m kg		*8,070	6,590	*5,860	3,600	4,100	2,440				7,110	4,290 23.5 ft
Dozer with dozer	-5 ft lb		*17,550	14,160	*12,680	7,760	*8,780	5,270				*3,190	2,150 6.63 m
blade down	-3.0 m kg		*5,270	*5,270	*3,990	3,950						*7,020	4,760 21.7 ft
	-10 ft lb		*11,310	*11,310	*8,460	7,880							5.67 m
													18.5 ft
Boom	7.5 m kg		*5,340	*5,340								*4,110	*4,110 4.09 m
4.72 m 2pcs	25 ft lb		*11,900	*11,900								*9,370	*9,370 12.8 ft
(15'6") 2pcs	6.0 m kg					*4,690	4,690					*3,250	3,120 5.75 m
Arm	20 ft lb					*10,360	10,080					*7,240	7,030 18.6 ft
2.5 m (8'2")	4.5 m kg		*4,030	*4,030	*4,850	4,600	*4,570	2,930				*2,970	2,450 6.68 m
Shoe	15 ft lb		*8,900	*8,900	*10,660	9,910	*9,930	6,300				*6,570	5,440 21.8 ft
600 mm (24 in)	3.0 m kg					*6,030	4,380	*4,760	2,850			*2,910	2,160 7.17 m
Undercarriage LC	10 ft lb					*13,070	9,440	*10,350	6,140			*6,420	4,770 23.5 ft
Counterweight	1.5 m kg					6,670	4,120	*4,940	2,740			*3,010	2,050 7.32 m
3,500 kg (7,720 lb)	0 m kg					*14,450	8,900	*10,720	5,920			*6,610	4,530 24.0 ft
Dozer with dozer	0 ft lb					*14,490	8,950	*10,450	5,750			*3,270	2,100 7.15 m
blade down	-1.5 m kg		*8,070	7,240	*5,860	3,900	*4,110	2,640				*3,190	2,320 6.63 m
Dozer with dozer	-5 ft lb		*17,550	15,550	*12,680	8,420	*8,780	5,700				*7,020	5,140 21.7 ft
blade up	-3.0 m kg		*5,270	*5,270	*3,990	3,950							5.67 m
	-10 ft lb		*11,310	*11,310	*8,460	7,260							18.5 ft
Boom	7.5 m kg		*5,340	*5,340								*4,110	*4,110 4.09 m
4.72 m 2pcs	25 ft lb		*11,900	*11,900								*9,370	*9,370 12.8 ft
(15'6") 2pcs	6.0 m kg					*4,690	4,080					*3,250	2,700 5.75 m
Arm	20 ft lb					*10,360	8,780					*7,240	6,090 18.6 ft
2.5 m (8'2")	4.5 m kg		*4,030	*4,030	*4,850	3,990	4,050	2,530				*2,970	2,100 6.68 m
Shoe	15 ft lb		*8,900	*8,900	*10,660	8,610	8,710	5,440				*6,570	4,680 21.8 ft
700 mm (28 in)	3.0 m kg					*6,030	3,780	3,960	2,450			*2,910	1,840 7.17 m
Undercarriage LC	10 ft lb					*13,070	8,160	8,540	5,290			*6,420	4,080 23.5 ft
Counterweight	1.5 m kg					5,970	3,530	3,850	2,350			2,860	1,750 7.32 m
3,200 kg (7,060 lb)	0 m kg					12,840	7,620	8,300	5,070			6,310	3,860 24.0 ft
Dozer without dozer	0 ft lb					5,780	3,370	3,760	2,270			2,930	1,780 7.15 m
blade	-1.5 m kg					12,430	7,270	8,110	4,900			6,470	3,940 23.5 ft
Dozer without dozer	-5 ft lb					*8,070	6,080	5,720	3,310			*3,190	1,980 6.63 m
blade up	-3.0 m kg					*17,550	13,070	12,300	7,150			*7,020	4,370 21.7 ft
	-10 ft lb					*5,270	*5,270	*3,990	3,360				5.67 m
						*11,310	*11,310	*8,460	7,260				18.5 ft
Boom	7.5 m kg		*5,340	*5,340								*4,110	*4,110 4.09 m
4.72 m 2pcs	25 ft lb		*11,900	*11,900								*9,370	*9,370 12.8 ft
(15'6") 2pcs	6.0 m kg					*4,690	4,290					*3,250	2,850 5.75 m
Arm	20 ft lb					*10,360	9,220					*7,240	6,420 18.6 ft
2.5 m (8'2")	4.5 m kg		*4,030	*4,030	*4,850	4,200	4,360	2,670				*2,970	2,230 6.68 m
Shoe	15 ft lb		*8,900	*8,900	*10,660	9,050	9,370	5,750				*6,570	4,960 21.8 ft
700 mm (28 in)	3.0 m kg					*6,030	3,980	4,270	2,600			*2,910	1,960 7.17 m
Undercarriage LC	10 ft lb					*13,070	8,600	9,200	5,600			*6,420	4,330 23.5 ft
Counterweight	1.5 m kg					6,430	3,740	4,160	2,490			*3,010	1,860 7.32 m
3,200 kg (7,060 lb)	0 m kg					13,840	8,070	8,960	5,380			*6,610	4,110 24.0 ft
Dozer	0 ft lb					6,240	3,570	4,070	2,410			3,180	1,900 7.15 m
with dozer blade up	-1.5 m kg					13,430	7,710	8,770	5,210			7,010	4,190 23.5 ft
	-5 ft lb					*8,070	6,450	*5,860	3,520			*3,190	2,100 6.63 m
	-3.0 m kg					*17,550	13,860	*12,680	7,590			*7,020	4,650 21.7 ft
	-10 ft lb					*5,270	*5,270	*3,990	3,570				5.67 m
						*11,310	*11,310	*8,460	7,710				18.5 ft

Notes: 1. Machine in "Fine Mode-F" (Power Boost) for lifting capacities. 2. The above loads are in compliance with SAE J1097 and ISO 10567 Hydraulic

Excavator Lifting Capacity Standards. 3. Rated loads do not exceed 87% of hydraulic lifting capacity or 75% of tipping load. 4. Rated loads marked with an asterisk (*) are limited by hydraulic capacity rather than tipping load.

Specifications

LIFTING CAPACITY ECR145F L

Lifting capacity at the arm end without bucket.

For lifting capacity including bucket, simply subtract actual weight of the direct fit bucket or the bucket with quick coupler from the following values.

	Lifting hook related to ground level	1.5 m (5")		3.0 m (10")		4.5 m (15")		6.0 m (20")		7.5 m (25")		Max.			
		Along UC	Across UC												
Boom	7.5 m kg			*5,340	*5,340							*4,110	*4,110	4,09 m	
4.72 m 2pcs (15'6") 2pcs	25 ft lb			*11,900	*11,900							*9,370	*9,370	12.8 ft	
6.0 m kg						*4,690	4,610					*3,250	3,060	5.75 m	
20 ft lb						*10,360	9,900					*7,240	6,900	18.6 ft	
4.5 m kg				*4,030	*4,030	*4,850	4,520	*4,570	2,870			*2,970	2,400	6.68 m	
Arm	15 ft lb			*8,900	*8,900	*10,660	9,730	*9,930	6,180			*6,570	5,340	21.8 ft	
2.5 m (8'2")						*6,030	4,300	*4,760	2,790			*2,910	2,110	7.17 m	
Shoe	3.0 m kg							*10,350	6,030						
700 mm (28 in)	10 ft lb							*13,070	9,270						
Undercarriage LC	1.5 m kg							*6,670	4,040	*4,940	2,690				
Counterweight	5 ft lb							*14,450	8,730	*10,720	5,800				
3,200 kg (7,060 lb)	0 m kg							*6,680	3,880	*4,830	2,610				
Dozer with dozer blade down	0 ft lb							*14,490	8,370	*10,450	5,630				
	-1.5 m kg			*8,070	7,090	*5,860	3,820	*4,110	2,580			*3,190	2,270	6.63 m	
	-5 ft lb			*17,550	15,240	*12,680	8,250	*8,780	5,580			*7,020	5,030	21.7 ft	
	-3.0 m kg			*5,270	*5,270	*3,990	3,870							5.67 m	
	-10 ft lb			*11,310	*11,310	*8,460	8,360							18.5 ft	
Boom	7.5 m kg			*5,340	*5,340							*4,110	*4,110	4,09 m	
4.72 m 2pcs (15'6") 2pcs	25 ft lb			*11,900	*11,900							*9,370	*9,370	12.8 ft	
6.0 m kg						*4,690	4,230					*3,250	2,800	5.75 m	
20 ft lb						*10,360	9,090					*7,240	6,320	18.6 ft	
4.5 m kg				*4,030	*4,030	*4,850	4,140	4,180	2,630			*2,970	2,190	6.68 m	
Arm	15 ft lb			*8,900	*8,900	*10,660	8,920	8,990	5,660			*6,570	4,870	21.8 ft	
2.5 m (8'2")						*6,030	3,920	4,100	2,550			*2,910	1,920	7.17 m	
Shoe	3.0 m kg							*13,070	8,470	8,820	5,500				
700 mm (28 in)	10 ft lb							*6,170	3,670	3,980	2,450				
Undercarriage LC	1.5 m kg							13,270	7,940	8,580	5,290				
Counterweight	5 ft lb							5,980	3,510	3,890	2,370				
3,500 kg (7,720 lb)	0 m kg							12,860	7,580	8,390	5,110				
Dozer without dozer blade	0 ft lb			*8,070	6,340	*5,860	3,460	3,860	2,340			*3,190	2,060	6.63 m	
	-1.5 m kg			*17,550	13,620	*12,680	7,460	8,340	5,060			*7,020	4,570	21.7 ft	
	-3.0 m kg			*5,270	*5,270	*3,990	3,510							5.67 m	
	-10 ft lb			*11,310	*11,310	*8,460	7,570							18.5 ft	
Boom	7.5 m kg			*5,340	*5,340							*4,110	*4,110	4,09 m	
4.72 m 2pcs (15'6") 2pcs	25 ft lb			*11,900	*11,900							*9,370	*9,370	12.8 ft	
6.0 m kg						*4,690	4,430					*3,250	2,950	5.75 m	
20 ft lb						*10,360	9,530					*7,240	6,660	18.6 ft	
4.5 m kg				*4,030	*4,030	*4,850	4,340	4,490	2,770			*2,970	2,320	6.68 m	
Arm	15 ft lb			*8,900	*8,900	*10,660	9,360	9,660	5,970			*6,570	5,150	21.8 ft	
2.5 m (8'2")						*6,030	4,130	4,400	2,700			*2,910	2,040	7.17 m	
Shoe	3.0 m kg							*13,070	8,910	9,490	5,810				
700 mm (28 in)	10 ft lb							*6,630	3,880	4,290	2,590				
Undercarriage LC	1.5 m kg							14,270	8,380	9,250	5,600				
Counterweight	5 ft lb							6,440	3,720	4,200	2,510				
3,500 kg (7,720 lb)	0 m kg							13,850	8,020	9,060	5,420				
Dozer with dozer blade up	0 ft lb			*8,070	6,700	*5,860	3,660	*4,110	2,490			*3,190	2,190	6.63 m	
	-1.5 m kg			*17,550	14,410	*12,680	7,900	*8,780	5,370			*7,020	4,850	21.7 ft	
	-3.0 m kg			*5,270	*5,270	*3,990	3,710							5.67 m	
	-10 ft lb			*11,310	*11,310	*8,460	8,020							18.5 ft	
Boom	7.5 m kg			*5,340	*5,340							*4,110	*4,110	4,09 m	
4.72 m 2pcs (15'6") 2pcs	25 ft lb			*11,900	*11,900							*9,370	*9,370	12.8 ft	
6.0 m kg						*4,690	*4,690					*3,250	3,170	5.75 m	
20 ft lb						*10,360	10,230					*7,240	7,150	18.6 ft	
4.5 m kg				*4,030	*4,030	*4,850	4,670	*4,570	2,980			*2,970	2,490	6.68 m	
Arm	15 ft lb			*8,900	*8,900	*10,660	10,060	*9,930	6,410			*6,570	5,540	21.8 ft	
2.5 m (8'2")						*6,030	4,450	*4,760	2,900			*2,910	2,200	7.17 m	
Shoe	3.0 m kg							*13,070	9,600	*10,350	6,250				
700 mm (28 in)	10 ft lb							*6,670	4,200	*4,940	2,790				
Undercarriage LC	1.5 m kg							*14,450	9,060	*10,720	6,030				
Counterweight	5 ft lb							*6,680	4,030	*4,830	2,710				
3,500 kg (7,720 lb)	0 m kg							*14,490	8,690	*10,450	5,850				
Dozer with dozer blade down	0 ft lb			*8,070	7,360	*5,860	3,970	*4,110	2,690			*3,190	2,360	6.63 m	
	-1.5 m kg			*17,550	15,820	*12,680	8,570	*8,780	5,800			*7,020	5,230	21.7 ft	
	-3.0 m kg			*5,270	*5,270	*3,990	3,990							5.67 m	
	-10 ft lb			*11,310	*11,310	*8,460	*8,460							18.5 ft	
Boom	7.5 m kg			*3,980	3,960							*3,250	*3,250	4.92 m	
4.72 m 2pcs (15'6") 2pcs	25 ft lb			*8,320	*8,320							*7,330	*7,330	15.6 ft	
6.0 m kg				*3,800	*3,800	*3,520	2,490					*2,700	2,230	6.36 m	
20 ft lb				*8,460	*8,460	*7,240	5,340					*6,000	5,010	20.6 ft	
4.5 m kg				*3,750	*3,750	3,960	2,480					*2,500	1,790	7.21 m	
Arm	15 ft lb			*8,300	*8,300	8,510	5,340					*5,510	3,990	23.6 ft	
3.0 m (9'10")				*5,040	3,720	3,850	2,390	2,700	1,650			*2,450	1,590	7.67 m	
Shoe	10 ft lb			*10,900	8,030	8,300	5,150	5,800	3,550			*5,400	3,520	25.1 ft	
500 mm (20 in)	1.5 m kg					5,810	3,450	3,720	2,270	2,650	1,610		*2,490	1,510	7.81 m
Undercarriage LC	5 ft lb					12,510	7,440	8,020	4,890	5,710	3,470		*5,500	3,340	25.6 ft
Counterweight	0 m kg					5,580	3,240	3,610	2,170	2,610	1,570		*2,540	1,530	7.65 m
3,200 kg (7,060 lb)	0 ft lb					12,000	6,990	7,780	4,680	5,640	3,400		*5,610	3,380	25.1 ft
Dozer without dozer blade	-1.5 m kg			*7,490	5,790	5,470	3,150	3,550	2,120			*2,780	1,670	7.17 m	
	-5 ft lb			*17,240	12,450	11,770	6,800	7,670	4,570			6,140	3,700	23.5 ft	
	-3.0 m kg			*6,460	5,870	*4,710	3,170	*2,980	2,150			*2,430	2,030	6.29 m	
	-10 ft lb			*13,900	12,610	*10,070	6,840	*6,040	4,650			*5,290	4,520	20.5 ft	

Notes: 1. Machine in "Fine Mode-F" (Power Boost) for lifting capacities. 2. The above loads are in compliance with SAE J1097 and ISO 10567 Hydraulic Excavator Lifting Capacity Standards. 3. Rated loads do not exceed 87% of hydraulic lifting capacity or 75% of tipping load. 4. Rated loads marked with an asterisk (*) are limited by hydraulic capacity rather than tipping load.

Excavator Lifting Capacity Standards. 3. Rated loads do not exceed 87% of hydraulic lifting capacity or 75% of tipping load. 4. Rated loads marked with an asterisk (*) are limited by hydraulic capacity rather than tipping load.

LIFTING CAPACITY ECR145F L

Lifting capacity at the arm end without bucket.

For lifting capacity including bucket, simply subtract actual weight of the direct fit bucket or the bucket with quick coupler from the following values.

	Lifting hook related to ground level	1.5 m (5")		3.0 m (10")		4.5 m (15")		6.0 m (20")		7.5 m (25")		Max.	
		Along UC	Across UC										
Boom	7.5 m kg					*3,980	*3,980					*3,250	*3,250 4.92 m
25 ft lb						*8,320	*8,320					*7,330	*7,330 15.6 ft
4.72 m 2pcs	6.0 m kg					*3,800	*3,800	*3,520	2,640			*2,700	2,360 6.36 m
(15'6") 2pcs	20 ft lb					*8,460	*8,460	*7,240	5,640			*6,000	5,310 20.6 ft
Arm	4.5 m kg					*3,750	*3,750	*4,000	2,620			*2,500	1,910 7.21 m
3.0 m (9'10")	15 ft lb					*8,300	*8,300	*8,750	5,640			*5,510	4,240 23.6 ft
Shoe	3.0 m kg					*5,040	3,920	4,160	2,530	2,930	1,760	*2,450	1,690 7.67 m
500 mm (20 in)	1.5 m kg					6,270	3,650	4,030	2,410	2,880	1,720	*2,520	1,610 7.81 m
Undercarriage LC	5 ft lb					13,500	7,880	8,680	5,200	6,210	3,710	*5,540	3,560 25.6 ft
Counterweight	0 m kg					6,040	3,440	3,920	2,310	2,840	1,680	*2,710	1,640 7.65 m
3,200 kg (7,060 lb)	0 ft lb					12,990	7,430	8,440	4,980	6,130	3,630	*5,970	3,620 25.1 ft
Dozer with dozer blade up	-1.5 m kg					*7,490	6,150	5,930	3,350	3,860	2,260		3,020 1,790 7.17 m
	-5 ft lb					*17,240	13,220	12,760	7,240	8,330	4,880		6,680 3,950 23.5 ft
	-3.0 m kg					*6,460	6,230	*4,710	3,370	*2,980	2,290	*2,430	2,160 6.29 m
	-10 ft lb					*13,900	13,390	*10,070	7,270	*6,040	4,960	*5,290	4,820 20.5 ft
Boom	7.5 m kg					*3,980	*3,980					*3,250	*3,250 4.92 m
25 ft lb						*8,320	*8,320					*7,330	*7,330 15.6 ft
4.72 m 2pcs	6.0 m kg					*3,800	*3,800	*3,520	2,830			*2,700	2,540 6.36 m
(15'6") 2pcs	20 ft lb					*8,460	*8,460	*7,240	6,060			*6,000	5,710 20.6 ft
Arm	4.5 m kg					*3,750	*3,750	*4,000	2,820			*2,500	2,060 7.21 m
3.0 m (9'10")	15 ft lb					*8,300	*8,300	*8,750	6,060			*5,510	4,570 23.6 ft
Shoe	3.0 m kg					*5,040	4,230	*4,550	2,720	*3,150	1,900	*2,450	1,830 7.67 m
500 mm (20 in)	1.5 m kg					*10,900	9,130	*9,900	5,870	*5,850	4,090	*5,400	4,050 25.1 ft
Undercarriage LC	5 ft lb					*6,440	3,950	*4,830	2,600	*3,790	1,860	*2,520	1,750 7.81 m
Counterweight	0 m kg					*13,950	8,530	*10,480	5,610	*7,520	4,010	*5,540	3,860 25.6 ft
3,200 kg (7,060 lb)	0 ft lb					*6,700	3,740	*4,870	2,500	*3,550	1,820	*2,710	1,770 7.65 m
Dozer with dozer blade down	-1.5 m kg					*14,530	8,070	*10,540	5,390	*6,430	3,940	*5,970	3,920 25.1 ft
	-5 ft lb					*17,240	14,550	*13,360	7,870	*9,490	5,290		*6,690 4,280 23.5 ft
	-3.0 m kg					*6,460	*6,460	*4,710	3,660	*2,980	2,480	*2,430	2,340 6.29 m
	-10 ft lb					*13,900	*13,900	*10,070	7,910	*6,040	5,370	*5,290	5,210 20.5 ft
Boom	7.5 m kg					*3,980	*3,980					*3,250	*3,250 4.92 m
25 ft lb						*8,320	*8,320					*7,330	*7,330 15.6 ft
4.72 m 2pcs	6.0 m kg					*3,800	*3,800	*3,520	2,590			*2,700	2,320 6.36 m
(15'6") 2pcs	20 ft lb					*8,460	*8,460	*7,240	5,550			*6,000	5,220 20.6 ft
Arm	4.5 m kg					*3,750	*3,750	*4,000	2,580			*2,500	1,870 7.21 m
3.0 m (9'10")	15 ft lb					*8,300	*8,300	*8,750	5,550			*5,510	4,170 23.6 ft
Shoe	3.0 m kg					*5,040	3,870	3,990	2,490	2,800	1,730	*2,450	1,660 7.67 m
500 mm (20 in)	1.5 m kg					*10,900	8,340	8,580	5,360	*5,850	3,720	*5,400	3,680 25.1 ft
Undercarriage LC	5 ft lb					6,010	3,590	3,850	2,370	*2,750	1,690	*2,520	1,580 7.81 m
Counterweight	0 m kg					5,770	3,390	3,740	2,270	2,710	1,650	*5,540	3,500 25.6 ft
3,500 kg (7,720 lb)	0 ft lb					12,420	7,750	8,300	5,110	5,930	3,640	*5,820	3,550 25.1 ft
Dozer without dozer blade	-1.5 m kg					*7,490	6,050	5,670	3,290	*3,690	2,220		2,880 1,750 7.17 m
	-5 ft lb					*17,240	13,000	12,200	7,110	7,950	4,790		6,370 3,880 23.5 ft
	-3.0 m kg					*6,460	6,120	*4,710	3,310	*2,980	2,250	*2,430	2,120 6.29 m
	-10 ft lb					*13,900	13,160	*10,070	7,150	*6,040	4,870	*5,290	4,730 20.5 ft
Boom	7.5 m kg					*3,980	*3,980					*3,250	*3,250 4.92 m
25 ft lb						*8,320	*8,320					*7,330	*7,330 15.6 ft
4.72 m 2pcs	6.0 m kg					*3,800	*3,800	*3,520	2,740			*2,700	2,450 6.36 m
(15'6") 2pcs	20 ft lb					*8,460	*8,460	*7,240	5,860			*6,000	5,520 20.6 ft
Arm	4.5 m kg					*3,750	*3,750	*4,000	2,720			*2,500	1,990 7.21 m
3.0 m (9'10")	15 ft lb					*8,300	*8,300	*8,750	5,860			*5,510	4,420 23.6 ft
Shoe	3.0 m kg					*5,040	4,070	*4,290	2,630	3,030	1,840	*2,450	1,770 7.67 m
500 mm (20 in)	1.5 m kg					*10,900	8,780	9,250	5,670	*5,850	3,950	*5,400	3,920 25.1 ft
Undercarriage LC	5 ft lb					*6,440	3,790	4,160	2,510	*2,980	1,800	*2,520	1,690 7.81 m
Counterweight	0 m kg					13,930	8,190	8,970	5,410	6,420	3,870	*5,540	3,720 25.6 ft
3,500 kg (7,720 lb)	0 ft lb					6,240	3,590	4,050	2,410	2,940	1,760	*2,710	1,710 7.65 m
Dozer with dozer blade up	-1.5 m kg					13,420	7,740	8,730	5,200	6,350	3,800	*5,970	3,780 25.1 ft
	-5 ft lb					*7,490	6,410	6,130	3,500	*3,990	2,360	*3,040	1,870 7.17 m
	-3.0 m kg					*17,240	13,770	13,190	7,550	8,610	5,090	*6,690	4,130 23.5 ft
	-10 ft lb					*6,460	*6,460	*4,710	3,510	*2,980	2,390	*2,430	2,260 6.29 m
						*13,900	*13,900	*10,070	7,580	*6,040	5,180	*5,290	5,030 20.5 ft
Boom	7.5 m kg					*3,980	*3,980					*3,250	*3,250 4.92 m
25 ft lb						*8,320	*8,320					*7,330	*7,330 15.6 ft
4.72 m 2pcs	6.0 m kg					*3,800	*3,800	*3,520	2,930			*2,700	2,640 6.36 m
(15'6") 2pcs	20 ft lb					*8,460	*8,460	*7,240	6,290			*6,000	5,920 20.6 ft
Arm	4.5 m kg					*3,750	*3,750	*4,000	2,920			*2,500	2,140 7.21 m
3.0 m (9'10")	15 ft lb					*8,300	*8,300	*8,750	6,290			*5,510	4,750 23.6 ft
Shoe	3.0 m kg					*5,040	4,380	*4,550	2,830	*3,150	1,980	*2,450	1,910 7.67 m
500 mm (20 in)	1.5 m kg					*10,900	9,450	*9,900	6,090	*5,850	4,260	*5,400	4,220 25.1 ft
Undercarriage LC	5 ft lb					*6,440	4,100	*4,830	2,700	*3,790	1,940	*2,520	1,820 7.81 m
Counterweight	0 m kg					*13,950	8,850	*10,480	5,840	*7,520	4,180	*5,540	4,020 25.6 ft
3,500 kg (7,720 lb)	0 ft lb					*6,700	3,890	*4,870	2,600	*3,550	1,900	*2,710	1,850 7.65 m
Dozer with dozer blade down	-1.5 m kg					*14,530	8,400	*10,540	5,620	*6,430	4,110	*5,970	4,090 25.1 ft
	-5 ft lb					*7,490	7,050	*6,170	3,800	*4,410	2,550		*3,040 2,020 7.17 m
	-3.0 m kg					*17,240	15,140	*13,360	8,190	*9,490	5,510		*6,690 4,470 23.5 ft
	-10 ft lb					*6,460	*6,460	*4,710	3,820	*2,980	2,580	*2,430	*2,430 6.29 m
						*13,900	*13,900	*10,070	8,230	*6,040	5,600	*5,290	*5,290 20.5 ft

Notes: 1. Machine in "Fine Mode-F" (Power Boost) for lifting capacities. 2. The above loads are in compliance with SAE J1097 and ISO 10567 Hydraulic Excavator Lifting Capacity Standards. 3. Rated loads do not exceed 87% of hydraulic lifting capacity or 75% of tipping load. 4. Rated loads marked with an asterisk (*) are limited by hydraulic capacity rather than tipping load.

Excavator Lifting Capacity Standards. 3. Rated loads do not exceed 87% of hydraulic lifting capacity or 75% of tipping load. 4. Rated loads marked with an asterisk (*) are limited by hydraulic capacity rather than tipping load.

Specifications

LIFTING CAPACITY ECR145F L

Lifting capacity at the arm end without bucket.

For lifting capacity including bucket, simply subtract actual weight of the direct fit bucket or the bucket with quick coupler from the following values.

	Lifting hook related to ground level	1.5 m (5")		3.0 m (10")		4.5 m (15")		6.0 m (20")		7.5 m (25")		Max.	
		Along UC	Across UC										
Boom	7.5 m kg					*3,980	*3,980					*3,250	*3,250 4.92 m
4.72 m 2pcs	25 ft lb					*8,320	*8,320					*7,330	*7,330 15.6 ft
(15'6") 2pcs	6.0 m kg					*3,800	*3,800	*3,520	2,530			*2,700	2,260 6.36 m
Arm	20 ft lb					*8,460	*8,460	*7,240	5,400			*6,000	5,080 20.6 ft
3.0 m (9'10")	4.5 m kg					*3,750	*3,750	*4,000	2,510			*2,500	1,820 7.21 m
Shoe	15 ft lb					*8,300	*8,300	8,620	5,410			*5,510	4,050 23.6 ft
600 mm (24 in)	3.0 m kg					*5,040	3,770	3,910	2,420	2,740	1,680	*2,450	1,610 7.67 m
Undercarriage LC	1.5 m kg					5,890	3,490	3,770	2,300	2,690	1,640	*2,520	1,530 7.81 m
Counterweight	0 m kg					12,680	7,540	8,130	4,960	5,800	3,530	*5,540	3,390 25.6 ft
3,200 kg (7,060 lb)	0 ft lb					12,170	7,090	7,900	4,740	5,720	3,450	5,690	3,440 25.1 ft
Dozer without dozer	-1.5 m kg					*7,490	5,870	5,550	3,200	3,610	2,150		2,820 1,700 7.17 m
blade	-5 ft lb					*17,240	12,620	11,940	6,900	7,780	4,640		6,240 3,760 23.5 ft
	-3.0 m kg					*6,460	5,950	*4,710	3,210	*2,980	2,180		*2,430 2,060 6.29 m
	-10 ft lb					*13,900	12,790	*10,070	6,940	*6,040	4,720		*5,290 4,590 20.5 ft
Boom	7.5 m kg					*3,980	*3,980					*3,250	*3,250 4.92 m
4.72 m 2pcs	25 ft lb					*8,320	*8,320					*7,330	*7,330 15.6 ft
(15'6") 2pcs	6.0 m kg					*3,800	*3,800	*3,520	2,670			*2,700	2,390 6.36 m
Arm	20 ft lb					*8,460	*8,460	*7,240	5,710			*6,000	5,380 20.6 ft
3.0 m (9'10")	4.5 m kg					*3,750	*3,750	*4,000	2,650			*2,500	1,930 7.21 m
Shoe	15 ft lb					*8,300	*8,300	*8,750	5,720			*5,510	4,300 23.6 ft
600 mm (24 in)	3.0 m kg					*5,040	3,970	4,220	2,560	2,970	1,790	*2,450	1,720 7.67 m
Undercarriage LC	1.5 m kg					6,360	3,700	4,080	2,440	2,920	1,750	*2,520	1,640 7.81 m
Counterweight	0 m kg					13,680	7,980	8,800	5,270	6,300	3,760	*5,540	3,620 25.6 ft
3,200 kg (7,060 lb)	0 ft lb					6,120	3,490	3,970	2,340	2,880	1,710	*2,710	1,660 7.65 m
Dozer with dozer	-1.5 m kg					13,170	7,540	8,560	5,050	6,220	3,690	*5,970	3,670 25.1 ft
blade up	-5 ft lb					*7,490	6,240	6,020	3,400	3,920	2,290		*3,040 1,810 7.17 m
	-3.0 m kg					*17,240	13,410	12,940	7,340	8,450	4,950		*6,690 4,010 23.5 ft
	-10 ft lb					*6,460	6,310	*4,710	3,420	*2,980	2,320		*2,430 2,190 6.29 m
						*13,900	13,570	*10,070	7,380	*6,040	5,030		*5,290 4,890 20.5 ft
Boom	7.5 m kg					*3,980	*3,980					*3,250	*3,250 4.92 m
4.72 m 2pcs	25 ft lb					*8,320	*8,320					*7,330	*7,330 15.6 ft
(15'6") 2pcs	6.0 m kg					*3,800	*3,800	*3,520	2,870			*2,700	2,570 6.36 m
Arm	20 ft lb					*8,460	*8,460	*7,240	6,140			*6,000	5,780 20.6 ft
3.0 m (9'10")	4.5 m kg					*3,750	*3,750	*4,000	2,850			*2,500	2,080 7.21 m
Shoe	15 ft lb					*8,300	*8,300	*8,750	6,140			*5,510	4,630 23.6 ft
600 mm (24 in)	3.0 m kg					*5,040	4,280	*4,550	2,760	*3,150	1,930	*2,450	1,860 7.67 m
Undercarriage LC	1.5 m kg					*10,900	9,240	*9,900	5,950	*5,850	4,150	*5,400	4,110 25.1 ft
Counterweight	0 m kg					*6,440	4,000	*4,830	2,640	*3,790	1,890	*2,520	1,770 7.81 m
3,200 kg (7,060 lb)	0 ft lb					*13,950	8,640	*10,480	5,690	*7,520	4,070	*5,540	3,910 25.6 ft
Dozer with dozer	-1.5 m kg					*6,700	3,790	*4,870	2,530	*3,550	1,850	*2,710	1,800 7.65 m
blade down	-5 ft lb					*14,530	8,180	*10,540	5,470	*6,430	4,000	*5,970	3,980 25.1 ft
	-3.0 m kg					*7,490	6,870	*6,170	3,700	*4,410	2,480		*3,040 1,960 7.17 m
	-10 ft lb					*17,240	14,760	*13,360	7,980	*9,490	5,360		*6,690 4,350 23.5 ft
						*6,460	*6,460	*4,710	3,720	*2,980	2,510		*2,430 2,380 6.29 m
						*13,900	*13,900	*10,070	8,020	*6,040	5,450		*5,290 5,290 20.5 ft
Boom	7.5 m kg					*3,980	*3,980					*3,250	*3,250 4.92 m
4.72 m 2pcs	25 ft lb					*8,320	*8,320					*7,330	*7,330 15.6 ft
(15'6") 2pcs	6.0 m kg					*3,800	*3,800	*3,520	2,630			*2,700	2,350 6.36 m
Arm	20 ft lb					*8,460	*8,460	*7,240	5,620			*6,000	5,290 20.6 ft
3.0 m (9'10")	4.5 m kg					*3,750	*3,750	*4,000	2,610			*2,500	1,900 7.21 m
Shoe	15 ft lb					*8,300	*8,300	*8,750	5,620			*5,510	4,220 23.6 ft
600 mm (24 in)	3.0 m kg					*5,040	3,910	4,040	2,520	*2,840	1,760	*2,450	1,690 7.67 m
Undercarriage LC	1.5 m kg					*10,900	8,440	8,700	5,430	*5,850	3,770	*5,400	3,730 25.1 ft
Counterweight	0 m kg					6,090	3,640	3,910	2,400	2,790	1,710	*2,520	1,610 7.81 m
3,500 kg (7,720 lb)	0 ft lb					13,110	7,850	8,420	5,180	6,010	3,690	*5,540	3,550 25.6 ft
Dozer without dozer	-1.5 m kg					5,850	3,430	3,800	2,300	2,750	1,680	2,680	1,630 7.65 m
blade	-5 ft lb					12,600	7,400	8,180	4,960	5,940	3,620	5,900	3,600 25.1 ft
	-3.0 m kg					*7,490	6,130	5,750	3,340	3,740	2,250		2,920 1,780 7.17 m
	-10 ft lb					*17,240	13,170	12,370	7,210	8,070	4,860		6,470 3,940 23.5 ft
						*6,460	6,200	*4,710	3,360	*2,980	2,280		*2,430 2,150 6.29 m
						*13,900	13,340	*10,070	7,250	*6,040	4,940		*5,290 4,800 20.5 ft
Boom	7.5 m kg					*3,980	*3,980					*3,250	*3,250 4.92 m
4.72 m 2pcs	25 ft lb					*8,320	*8,320					*7,330	*7,330 15.6 ft
(15'6") 2pcs	6.0 m kg					*3,800	*3,800	*3,520	2,770			*2,700	2,490 6.36 m
Arm	20 ft lb					*8,460	*8,460	*7,240	5,930			*6,000	5,590 20.6 ft
3.0 m (9'10")	4.5 m kg					*3,750	*3,750	*4,000	2,760			*2,500	2,010 7.21 m
Shoe	15 ft lb					*8,300	*8,300	*8,750	5,930			*5,510	4,480 23.6 ft
600 mm (24 in)	3.0 m kg					*5,040	4,120	4,350	2,660	3,070	1,870	*2,450	1,790 7.67 m
Undercarriage LC	1.5 m kg					*10,900	8,880	9,370	5,740	*5,850	4,010	*5,400	3,970 25.1 ft
Counterweight	0 m kg					*6,440	3,840	4,220	2,540	3,020	1,820	*2,520	1,710 7.81 m
3,500 kg (7,720 lb)	0 ft lb					*13,950	8,300	9,090	5,490	6,510	3,930	*5,540	3,780 25.6 ft
Dozer with dozer	-1.5 m kg					6,320	3,640	4,100	2,440	*2,980	1,790	*2,710	1,740 7.65 m
blade up	-5 ft lb					13,600	7,850	8,850	5,270	*6,430	3,860	*5,970	3,840 25.1 ft
	-3.0 m kg					*7,490	6,490	*6,170	3,550	4,050	2,390		*3,040 1,890 7.17 m
	-10 ft lb					*17,240	13,950	*13,360	7,650	8,730	5,170		*6,690 4,190 23.5 ft
						*6,460	*6,460	*4,710	3,560	*2,980	2,420		*2,430 2,290 6.29 m
						*13,900	*13,900	*10,070	7,690	*6,040	5,250		*5,290 5,100 20.5 ft

Notes: 1. Machine in "Fine Mode-F" (Power Boost) for lifting capacities. 2. The above loads are in compliance with SAE J1097 and ISO 10567 Hydraulic Excavator Lifting Capacity Standards. 3. Rated loads do not exceed 87% of hydraulic lifting capacity or 75% of tipping load. 4. Rated loads marked with an asterisk (*) are limited by hydraulic capacity rather than tipping load.

Excavator Lifting Capacity Standards. 3. Rated loads do not exceed 87% of hydraulic lifting capacity or 75% of tipping load. 4. Rated loads marked with an asterisk (*) are limited by hydraulic capacity rather than tipping load.

LIFTING CAPACITY ECR145F L

Lifting capacity at the arm end without bucket.

For lifting capacity including bucket, simply subtract actual weight of the direct fit bucket or the bucket with quick coupler from the following values.

	Lifting hook related to ground level	1.5 m (5")		3.0 m (10")		4.5 m (15")		6.0 m (20")		7.5 m (25")		Max.			
		Along UC	Across UC												
Boom	7.5 m kg					*3,980	*3,980					*3,250	*3,250	4.92 m	
25 ft lb						*8,320	*8,320					*7,330	*7,330	15.6 ft	
4.72 m 2pcs	6.0 m kg					*3,800	*3,800	*3,520	2,970			*2,700	2,670	6.36 m	
(15'6") 2pcs	20 ft lb					*8,460	*8,460	*7,240	6,360			*6,000	*6,000	20.6 ft	
Arm	4.5 m kg					*3,750	*3,750	*4,000	2,960			*2,500	2,170	7.21 m	
3.0 m (9'10")	15 ft lb					*8,300	*8,300	*8,750	6,370			*5,510	4,820	23.6 ft	
Shoe	3.0 m kg					*5,040	4,430	*4,550	2,860	*3,150	2,010	*2,450	1,930	7.67 m	
600 mm (24 in)	1.5 m kg					*6,440	4,150	*4,830	2,740	*3,790	1,970	*2,520	1,850	7.81 m	
Undercarriage LC	5 ft lb					*13,950	8,960	*10,480	5,910	*7,520	4,240	*5,540	4,080	25.6 ft	
Counterweight	0 m kg					*6,700	3,940	*4,870	2,640	*3,550	1,930	*2,710	1,880	7.65 m	
3,500 kg (7,720 lb)	0 ft lb					*14,530	8,510	*10,540	5,700	*6,430	4,170	*5,970	4,150	25.1 ft	
Dozer with dozer	-1.5 m kg					*7,490	7,140	*6,170	3,850	*4,410	2,590		*3,040	2,050	7.17 m
blade down	-5 ft lb					*17,240	15,340	*13,360	8,310	*9,490	5,590		*6,690	4,530	23.5 ft
Dozer without dozer	-3.0 m kg					*6,460	*6,460	*4,710	3,870	*2,980	2,620		*2,430	*2,430	6.29 m
blade up	-10 ft lb					*13,900	*13,900	*10,070	8,350	*6,040	5,670		*5,290	*5,290	20.5 ft
Boom	7.5 m kg					*3,980	*3,980					*3,250	*3,250	4.92 m	
25 ft lb						*8,320	*8,320					*7,330	*7,330	15.6 ft	
4.72 m 2pcs	6.0 m kg					*3,800	*3,800	*3,520	2,570			*2,700	2,300	6.36 m	
(15'6") 2pcs	20 ft lb					*8,460	*8,460	*7,240	5,500			*6,000	5,170	20.6 ft	
Arm	4.5 m kg					*3,750	*3,750	*4,000	2,560			*2,500	1,850	7.21 m	
3.0 m (9'10")	15 ft lb					*8,300	*8,300	*8,750	5,500			*5,510	4,130	23.6 ft	
Shoe	3.0 m kg					*5,040	3,830	3,980	2,460	2,790	1,710	*2,450	1,650	7.67 m	
700 mm (28 in)	1.5 m kg					*10,900	8,270	8,580	5,310	*5,850	3,680	*5,400	3,640	25.1 ft	
Undercarriage LC	5 ft lb					6,010	3,560	3,850	2,340	2,750	1,670	*2,520	1,570	7.81 m	
Counterweight	0 m kg					12,930	7,680	8,300	5,060	5,920	3,600	*5,540	3,460	25.6 ft	
3,200 kg (7,060 lb)	0 ft lb					5,770	3,350	3,740	2,240	2,710	1,630	2,630	1,590	7.65 m	
Dozer without dozer	-1.5 m kg					12,410	7,230	8,060	4,840	5,840	3,530	5,810	3,510	25.1 ft	
blade up	-5 ft lb					*7,490	5,990	5,660	3,260	3,680	2,190		2,880	1,740	7.17 m
Dozer with dozer	-3.0 m kg					*17,240	12,870	12,190	7,040	7,940	4,740		6,370	3,840	23.5 ft
blade up	-10 ft lb					*6,460	6,060	*4,710	3,280	*2,980	2,220		*2,430	2,100	6.29 m
Dozer without dozer	-10 ft lb					*13,900	13,040	*10,070	7,080	*6,040	4,820		*5,290	4,680	20.5 ft
Boom	7.5 m kg					*3,980	*3,980					*3,250	*3,250	4.92 m	
25 ft lb						*8,320	*8,320					*7,330	*7,330	15.6 ft	
4.72 m 2pcs	6.0 m kg					*3,800	*3,800	*3,520	2,710			*2,700	2,430	6.36 m	
(15'6") 2pcs	20 ft lb					*8,460	*8,460	*7,240	5,810			*6,000	5,470	20.6 ft	
Arm	4.5 m kg					*3,750	*3,750	*4,000	2,700			*2,500	1,970	7.21 m	
3.0 m (9'10")	15 ft lb					*8,300	*8,300	*8,750	5,810			*5,510	4,380	23.6 ft	
Shoe	3.0 m kg					*5,040	4,040	4,290	2,610	3,020	1,820	*2,450	1,750	7.67 m	
700 mm (28 in)	1.5 m kg					*10,900	8,710	9,240	5,620	*5,850	3,920	*5,400	3,880	25.1 ft	
Undercarriage LC	5 ft lb					13,920	8,130	8,960	5,370	6,420	3,840	*5,540	3,690	25.6 ft	
Counterweight	0 m kg					6,230	3,560	4,050	2,390	2,940	1,740	*2,710	1,700	7.65 m	
3,200 kg (7,060 lb)	0 ft lb					13,410	7,680	8,720	5,150	6,340	3,770	*5,970	3,750	25.1 ft	
Dozer with dozer	-1.5 m kg					*7,490	6,350	6,130	3,470	3,990	2,340		*3,040	1,850	7.17 m
blade up	-5 ft lb					*17,240	13,660	13,180	7,480	8,610	5,050		*6,690	4,090	23.5 ft
Dozer with dozer	-3.0 m kg					*6,460	6,430	*4,710	3,480	*2,980	2,370		*2,430	2,240	6.29 m
blade up	-10 ft lb					*13,900	13,820	*10,070	7,520	*6,040	5,130		*5,290	4,980	20.5 ft
Boom	7.5 m kg					*3,980	*3,980					*3,250	*3,250	4.92 m	
25 ft lb						*8,320	*8,320					*7,330	*7,330	15.6 ft	
4.72 m 2pcs	6.0 m kg					*3,800	*3,800	*3,520	2,920			*2,700	2,620	6.36 m	
(15'6") 2pcs	20 ft lb					*8,460	*8,460	*7,240	6,240			*6,000	5,880	20.6 ft	
Arm	4.5 m kg					*3,750	*3,750	*4,000	2,900			*2,500	2,120	7.21 m	
3.0 m (9'10")	15 ft lb					*8,300	*8,300	*8,750	6,250			*5,510	4,720	23.6 ft	
Shoe	3.0 m kg					*5,040	4,350	*4,550	2,810	*3,150	1,970	*2,450	1,890	7.67 m	
700 mm (28 in)	1.5 m kg					*10,900	9,390	*9,900	6,050	*5,850	4,230	*5,400	4,190	25.1 ft	
Undercarriage LC	5 ft lb					*6,440	4,070	*4,830	2,690	*3,790	1,930	*2,520	1,810	7.81 m	
Counterweight	0 m kg					*13,950	8,790	*10,480	5,800	*7,520	4,150	*5,540	3,990	25.6 ft	
3,200 kg (7,060 lb)	0 ft lb					*6,700	3,860	*4,870	2,580	*3,550	1,890	*2,710	1,840	7.65 m	
Dozer with dozer	-1.5 m kg					*14,530	8,340	*10,540	5,580	*6,430	4,080	*5,970	4,060	25.1 ft	
blade up	-5 ft lb					*7,490	7,000	*6,170	3,770	*4,410	2,530		*3,040	2,000	7.17 m
Dozer with dozer	-3.0 m kg					*17,240	15,030	*13,360	8,140	*9,490	5,470		*6,690	4,430	23.5 ft
blade up	-10 ft lb					*6,460	*6,460	*4,710	3,790	*2,980	2,560		*2,430	2,420	6.29 m
Dozer without dozer	-10 ft lb					*13,900	*13,900	*10,070	8,170	*6,040	5,550		*5,290	*5,290	20.5 ft
Boom	7.5 m kg					*3,980	*3,980					*3,250	*3,250	4.92 m	
25 ft lb						*8,320	*8,320					*7,330	*7,330	15.6 ft	
4.72 m 2pcs	6.0 m kg					*3,800	*3,800	*3,520	2,920			*2,700	2,620	6.36 m	
(15'6") 2pcs	20 ft lb					*8,460	*8,460	*7,240	6,240			*6,000	5,880	20.6 ft	
Arm	4.5 m kg					*3,750	*3,750	*4,000	2,900			*2,500	2,120	7.21 m	
3.0 m (9'10")	15 ft lb					*8,300	*8,300	*8,750	5,720			*5,510	4,300	23.6 ft	
Shoe	3.0 m kg					*5,040	4,350	*4,550	2,810	*3,150	1,970	*2,450	1,720	7.67 m	
700 mm (28 in)	1.5 m kg					*10,900	8,580	8,860	5,530	*5,850	3,850	*5,400	3,810	25.1 ft	
Undercarriage LC	5 ft lb					6,200	3,700	3,980	2,440	2,850	1,750	*2,520	1,640	7.81 m	
Counterweight	0 m kg					13,350	7,990	8,580	5,280	6,130	3,770	*5,540	3,620	25.6 ft	
3,200 kg (7,060 lb)	0 ft lb					5,970	3,500	3,870	2,340	2,810	1,710	*2,710	1,660	7.65 m	
Dozer with dozer	-1.5 m kg					12,840	7,540	8,340	5,060	6,060	3,690	*5,970	3,680	25.1 ft	
blade up	-5 ft lb					*7,490	6,240	5,860	3,410	3,820	2,290		2,980	1,820	7.17 m
Dozer with dozer	-3.0 m kg					*17,240	13,420	12,610	7,350	8,230	4,950		6,600	4,020	23.5 ft
blade up	-10 ft lb					*6,460	6,320	*4,710	3,420	*2,980	2,320		*2,430	2,200	6.29 m
Dozer without dozer	-10 ft lb					*13,900	13,590	*10,070	7,390	*6,040	5,040		*5,290	4,890	20.5 ft

Notes: 1. Machine in "Fine Mode-F" (Power Boost) for lifting capacities. 2. The above loads are in compliance with SAE J1097 and ISO 10567 Hydraulic Excavator Lifting Capacity Standards. 3. Rated loads do not exceed 87% of hydraulic lifting capacity or 75% of tipping load. 4. Rated loads marked with an asterisk (*) are limited by hydraulic capacity rather than tipping load.

Specifications

LIFTING CAPACITY ECR145F L

Lifting capacity at the arm end without bucket.

For lifting capacity including bucket, simply subtract actual weight of the direct fit bucket or the bucket with quick coupler from the following values.

	Lifting hook related to ground level	1.5 m (5")		3.0 m (10")		4.5 m (15")		6.0 m (20")		7.5 m (25")		Max.	
		Along UC	Across UC										
Boom	7.5 m kg					*3,980	*3,980					*3,250	*3,250 4.92 m
25 ft lb						*8,320	*8,320					*7,330	*7,330 15.6 ft
6.0 m kg						*3,800	*3,800	*3,520	2,810			*2,700	2,530 6.36 m
20 ft lb						*8,460	*8,460	*7,240	6,030			*6,000	5,680 20.6 ft
4.5 m kg						*3,750	*3,750	*4,000	2,800			*2,500	2,050 7.21 m
15 ft lb						*8,300	*8,300	*8,750	6,030			*5,510	4,560 23.6 ft
3.0 m (9'10")	3.0 m kg					*5,040	4,180	4,420	2,710	3,120	1,900	*2,450	1,830 7.67 m
Shoe	10 ft lb					*10,900	9,030	9,530	5,840	*5,850	4,080	*5,400	4,050 25.1 ft
700 mm (28 in)	1.5 m kg					*6,440	3,910	4,290	2,590	3,080	1,860	*2,520	1,740 7.81 m
Undercarriage LC	5 ft lb					*13,950	8,440	9,250	5,590	6,630	4,000	*5,540	3,850 25.6 ft
Counterweight	0 m kg											*5,970	3,910 25.1 ft
3,500 kg (7,720 lb)	0 ft lb											*3,040	1,930 7.17 m
Dozer with dozer blade up	-1.5 m kg			*7,490	6,610	*6,170	3,610	4,120	2,440			*6,690	4,270 23.5 ft
	-5 ft lb			*17,240	14,210	*13,360	7,790	8,890	5,260			*2,430	2,330 6.29 m
	-3.0 m kg			*6,460	*6,460	*4,710	3,630	*2,980	2,470			*5,290	5,190 20.5 ft
	-10 ft lb			*13,900	*13,900	*10,070	7,830	*6,040	5,350				
Boom	7.5 m kg					*3,980	*3,980					*3,250	*3,250 4.92 m
25 ft lb						*8,320	*8,320					*7,330	*7,330 15.6 ft
6.0 m kg						*3,800	*3,800	*3,520	3,020			*2,700	*2,700 6.36 m
20 ft lb						*8,460	*8,460	*7,240	6,470			*6,000	*6,000 20.6 ft
4.5 m kg						*3,750	*3,750	*4,000	3,010			*2,500	2,210 7.21 m
15 ft lb						*8,300	*8,300	*8,750	6,470			*5,510	4,910 23.6 ft
3.0 m (9'10")	3.0 m kg					*5,040	4,500	*4,550	2,910	*3,150	2,050	*2,450	1,970 7.67 m
Shoe	10 ft lb					*10,900	9,720	*9,900	6,280	*5,850	4,400	*5,400	4,360 25.1 ft
700 mm (28 in)	1.5 m kg					*6,440	4,220	*4,830	2,790	*3,790	2,010	*2,520	1,880 7.81 m
Undercarriage LC	5 ft lb					*13,950	9,120	*10,480	6,020	*7,520	4,320	*5,540	4,160 25.6 ft
Counterweight	0 m kg					*6,700	4,010	*4,870	2,690	*3,550	1,970	*2,710	1,920 7.65 m
3,500 kg (7,720 lb)	0 ft lb			*14,530	8,660	*10,540	5,800	*6,430	4,250			*5,970	4,230 25.1 ft
Dozer with dozer blade down	-1.5 m kg			*7,490	7,270	*6,170	3,920	*4,410	2,640			*3,040	2,090 7.17 m
	-5 ft lb			*17,240	15,610	*13,360	8,460	*9,490	5,690			*6,690	4,620 23.5 ft
	-3.0 m kg			*6,460	*6,460	*4,710	3,940	*2,980	2,670			*2,430	*2,430 6.29 m
	-10 ft lb			*13,900	*13,900	*10,070	8,500	*6,040	5,780			*5,290	*5,290 20.5 ft

Notes: 1. Machine in "Fine Mode-F" (Power Boost) for lifting capacities. 2. The above loads are in compliance with SAE J1097 and ISO 10567 Hydraulic Excavator Lifting Capacity Standards. 3. Rated loads do not exceed 87% of hydraulic lifting capacity or 75% of tipping load. 4. Rated loads marked with an asterisk (*) are limited by hydraulic capacity rather than tipping load.



ECR145

Equipment

Standard And Optional Equipment

• = Standard / o = Optional

Engine

Turbocharged, 4 stroke diesel engine with water cooling, direct injection and charged air cooler that meets NA T4f requirements	•
Electric cooling fan with reversible function	•
Fuel shut off valve	•
Fuel filter and water separator	•
Engine block heater	o
Coolant heater by diesel	o
Automatic engine shutdown	o
Delayed engine Shutdown	o
Water separator with heater	o
Arctic regeneration	o
Oil sampling for engine oil	o

Electric / electronic control system

Anti-theft with code lock system	•
Alternator, 180 A	•
Automatic idling system	•
Lock Out / Tag Out function on main battery switch	•
Standard light	•
Batteries, 2 x 12 V / 100 Ah	•
Start motor, 24 V / 5.5 kW	•
Basic light package	o
Advanced light package	o
Deluxe light package	o
Arm light	o
LH light	o

Undercarriage and structures

3-point side access	•
Direct filling DEF(AdBlue) / Sight gauge and splash guard	•
Access way with handrail	•
Hydraulic track adjusters	•
Greased and sealed track link	•
500 / 600 / 700 / 750 mm (20 / 24 / 28 / 30 in) with triple grousers	o
600 / 700 mm (24 / 28 in) HD	o
500 / 600 mm (20 / 24 in) rubber pad & add on rubber pad	o
GP/HD under cover	o
GP/HD Belly cover	o
3,200 kg (7,060 lb) counterweight	•
3,500 kg (7,720 lb) counterweight	o
Dozer blade	o

Standard And Optional Equipment

• = Standard / o = Optional

Hydraulic system

EH(Electro-Hydraulic) control system	•
New work mode with 10 steps	•
Auto power boost	•
One touch power boost	•
Priority Adjustment	•
Boom down speed control	•
Shock reduction function	•
Hose rupture valve for boom	o
Hose rupture valve for arm	o
Joystick, Semi-long / 4 switch / 4 switch & 1 proportional / Simple L8 / L8	o
Hydraulic oil mineral 32 / 46 / 68	o
Longlife hyd oil mineral 32 / 46 / 68	o
Hydraulic oil bio 46	o
Pattern change	o
Boom float function	o
Straight travel pedal	o
Comfort driving control	o
Creep mode	o
Dedicated drain line	o
Variable X3 P-Q control	o

Cab and interior

Keyless engine start and stop	•
8" HD display	•
ROPS certified cab	•
Tilttable left console	•
Digital hour meter	•
Various storage space with cool/heated	•
Wireless mobile charger with Kinematic sensor package option	o
1 piece wind shield cab	o
Cabin large mirror, Heated	o
Cabin large mirror	o
Basic / Premium / Deluxe seat	o
Seat belt, 2 inch 2 point / 3 inch 2 point	o
Climate control-HEPA filter	o
Radio with MP3/USB/Bluetooth	o
Front rain shield	o
Sun screen	o
Lower wiper	o
Sun shield, roof hatch	o
Foot rest, High mount	o
FOG (Falling Object Guard)	o
FOPS (Falling Object Protection Structure)	o
Safety net	o

Standard And Optional Equipment

• = Standard / o = Optional

Digging equipment

4.6 m (15'1") mono boom	•
4.72 m (15'6") 2-piece boom	o
3.0 m (9'10") arm	•
2.1 m (6'11") / 2.5 m (8'2") arm	o
Linkage	•
Likage with lifting eye	o

Machine controls

Kinematic sensor package	o
Volvo Co-Pilot 2nd display, 12.8" touchable Full HD	o
Dig Assist, Start	o
Dig Assist, 2D	o
Dig Assist, In-Field Design	o
Dig Assist, Topcon 3D-MC	o
Dig Assist, Trimble Earthworks	o
Dig Assist, Infield-Design Advanced	o
Dig Assist, On-Board Weighing	o
Volvo Active Control	o
Dig Assist, Boundary Limit	o

Safety and security

Travel alarm, beep / white noise	o
Flashing beacon, LED	o
Green light beacon	o
Rear view camera	•
Side view camera	o
HD VSV (Volvo Smart View)	o
HD VSV with obstacle detection	o
Provision, HD VSV with obstacle detection	o

Service and maintenance

Fuel filler pump	o
Jump start connector	o
Auto lubrication system	o
Tool kit	o

V O L V O