

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 automaticallycontrolled 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.		

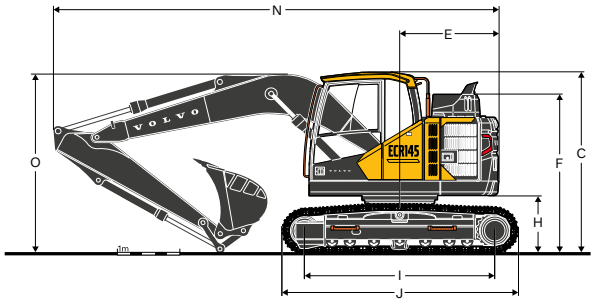
Sound Level		
Sound level in cab according to ISO 6396		
L_{pA}	dB	71
External sound level according to ISO 6395 and EU Noise Directive (2000/14/EC) and 474-1:2006 +A1:2009		
L_{WA}	dB	99

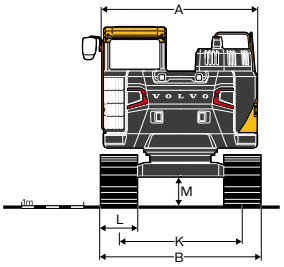
Hydraulic system		
The new electro-hydraulic system and new MCV (main control valve) use intelligent technology to control on-demand flow for high productivity, high-digging capacity and excellent fuel consumption. The following important functions are included in the system: **Summation system:** Combines 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 temprature 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		
Maximum flow	l/min (gal/min)	2 x 130 (2 x 34.3)
Pilot pump: Gear pump		
Maximum flow	l/min (gal/min)	1 x 18 (1 x 4.8)
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)

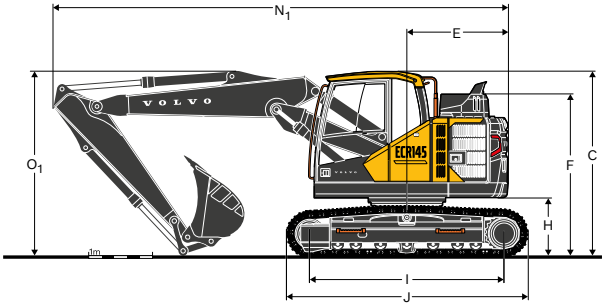
Hydraulic Cylinders		
Mono boom		2
Bore x Stroke	ø x mm (ø x in)	110 x 1 055 (4.3 x 41.5)
1st boom of 2-piece boom		1
Bore x Stroke	ø x mm (ø x in)	110 x 980 (4.3 x 38.6)
2nd boom of 2-piece boom		1
Bore x Stroke	ø x mm (ø x in)	160 x 765 (6.3 x 30.1)
Arm		1
Bore x Stroke	ø x mm (ø x in)	120 x 1 028 (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



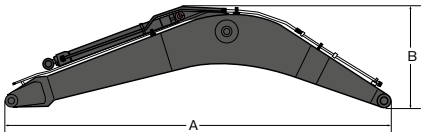


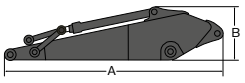


DIMENSIONS

Description	Unit		ECR145F L						ECR145F LM					
Boom			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



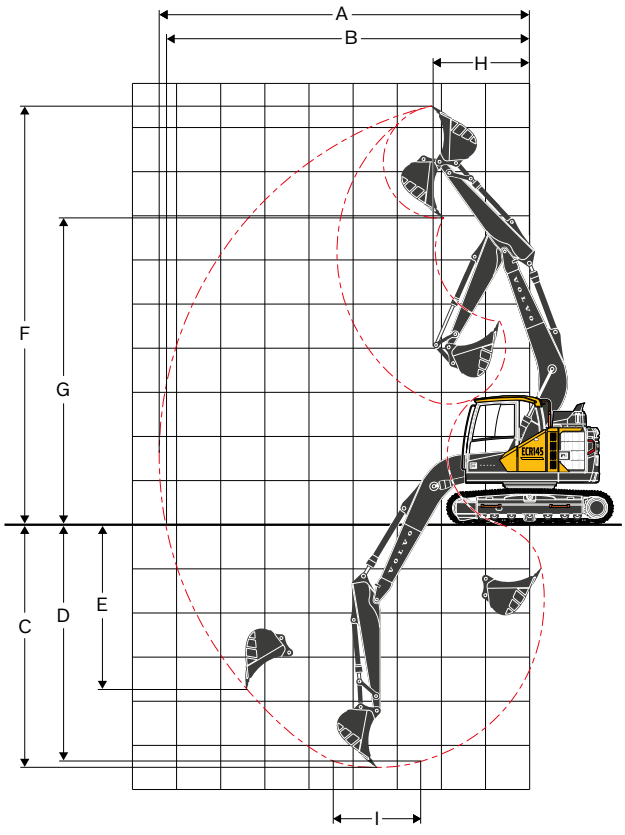


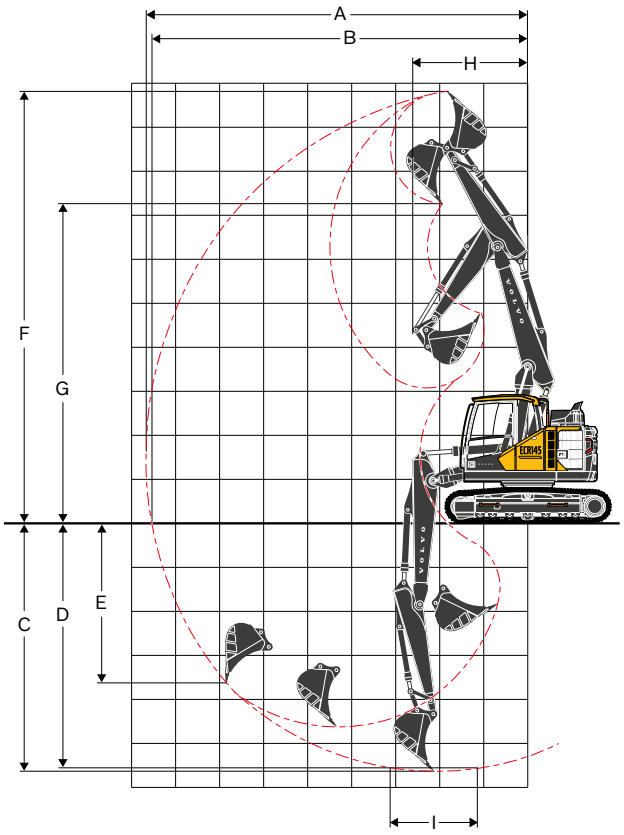
DIMENSIONS

Boom							Arm							
Description	Unit		Mono		2-piece		Description	Unit						
Boom	m	ft in	4.60	15‘1“	4.72	15‘6“	Arm	m	ft in	2.1	6‘11“	2.5	8‘2“	3	9‘10“
A (Length)	mm	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“
B (Height)	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“
Width	mm	ft in	545	1‘9“	545	1‘9“	Width	mm	ft in	275	0‘11“	275	0‘11“	275	0‘11“
Weight	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											
Boom				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“
Breakout force - bucket	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
	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	

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	yd³	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
		770	1.01	1,200	46.8	504	1,112	5	B	A	X	B	A	X
	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	yd³	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
		770	1.01	1,200	46.8	504	1,112	5	B	B	A	B	A	X
	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

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.

Maximum materal 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

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	Along UC	Across UC	
Boom 4.6 m (15‘1“) Arm 2.1 m (6‘11“) Shoe 500 mm (20 in) Undercarriage LC Counterweight 3,200 kg (7,060 lb) Dozer without dozer blade	7.5 m	kg											*5,700	*5,700	2.77 m
	25 ft	lb											*13,280	*13,280	8.10 ft
	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
	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
	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
	1.5 m	kg					5,710	3,410	3,690	2,270			3,130	1,930	6.7 m
	5 ft	lb					12,290	7,360	7,950	4,910			6,910	4,270	22.0 ft
	0 m	kg			*5,560	*5,560	5,560	3,270	3,620	2,210			3,220	1,980	6.51 m
	0 ft	lb			*13,030	12,760	11,960	7,070	7,810	4,780			7,110	4,370	21.4 ft
	-1.5 m	kg	*5,190	*5,190	*9,200	5,950	5,520	3,240					3,670	2,240	5.94 m
	-5 ft	lb	*11,710	*11,710	*19,990	12,800	11,880	7,000					8,120	4,950	19.4 ft
	-3.0 m	kg			*6,950	6,080	*4,760	3,320					*4,180	3,020	4.84 m
	-10 ft	lb			*14,950	13,090	*10,030	7,180					*9,170	6,760	15.7 ft
Boom 4.6 m (15‘1“) Arm 2.1 m (6‘11“) Shoe 500 mm (20 in) Undercarriage LC Counterweight 3,200 kg (7,060 lb) Dozer with dozer blade up	7.5 m	kg											*5,700	*5,700	2.77 m
	25 ft	lb											*13,280	*13,280	8.10 ft
	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
	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
	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
	1.5 m	kg					6,170	3,610	4,000	2,410			3,390	2,060	6.7 m
	5 ft	lb					13,280	7,800	8,610	5,210			7,490	4,550	22.0 ft
	0 m	kg			*5,560	*5,560	6,020	3,480	3,930	2,350			3,500	2,110	6.51 m
	0 ft	lb			*13,030	*13,030	12,950	7,510	8,470	5,080			7,710	4,650	21.4 ft
	-1.5 m	kg	*5,190	*5,190	*9,200	6,310	5,980	3,450					3,980	2,380	5.94 m
	-5 ft	lb	*11,710	*11,710	*19,990	13,580	12,870	7,440					8,810	5,270	19.4 ft
	-3.0 m	kg			*6,950	6,440	*4,760	3,520					*4,180	3,200	4.84 m
	-10 ft	lb			*14,950	13,860	*10,030	7,620					*9,170	7,170	15.7 ft
Boom 4.6 m (15‘1“) Arm 2.1 m (6‘11“) Shoe 500 mm (20 in) Undercarriage LC Counterweight 3,200 kg (7,060 lb) Dozer with dozer blade down	7.5 m	kg											*5,700	*5,700	2.77 m
	25 ft	lb											*13,280	*13,280	8.10 ft
	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
	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
	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
	1.5 m	kg					*6,470	3,900	*4,890	2,600			*4,220	2,220	6.7 m
	5 ft	lb					*14,020	8,430	*10,640	5,620			*9,300	4,900	22.0 ft
	0 m	kg			*5,560	*5,560	*6,820	3,770	*4,970	2,540			*4,470	2,270	6.51 m
	0 ft	lb			*13,030	*13,030	*14,780	8,130	*10,760	5,480			*9,860	5,010	21.4 ft
	-1.5 m	kg	*5,190	*5,190	*9,200	6,930	*6,380	3,740					*4,460	2,570	5.94 m
	-5 ft	lb	*11,710	*11,710	*19,990	14,890	*13,810	8,060					*9,820	5,690	19.4 ft
	-3.0 m	kg			*6,950	*6,950	*4,760	3,810					*4,180	3,460	4.84 m
	-10 ft	lb			*14,950	*14,950	*10,030	8,240					*9,170	7,750	15.7 ft
Boom 4.6 m (15‘1“) Arm 2.1 m (6‘11“) Shoe 500 mm (20 in) Undercarriage LC Counterweight 3,500 kg (7,720 lb) Dozer without dozer blade	7.5 m	kg											*5,700	*5,700	2.77 m
	25 ft	lb											*13,280	*13,280	8.10 ft
	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
	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
	3.0 m	kg			*8,250	6,950	*5,590	3,760	3,910	2,460			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
	1.5 m	kg					5,910	3,550	3,820	2,370			3,240	2,020	6.7 m
	5 ft	lb					12,720	7,670	8,240	5,120			7,160	4,470	22.0 ft
	0 m	kg			*5,560	*5,560	5,750	3,420	3,750	2,310			3,340	2,070	6.51 m
	0 ft	lb			*13,030	*13,030	12,380	7,380	8,090	4,990			7,370	4,570	21.4 ft
	-1.5 m	kg	*5,190	*5,190	*9,200	6,210	5,720	3,390					3,800	2,340	5.94 m
	-5 ft	lb	*11,710	*11,710	*19,990	13,350	12,300	7,310					8,420	5,180	19.4 ft
	-3.0 m	kg			*6,950	6,340	*4,760	3,460					*4,180	3,150	4.84 m
	-10 ft	lb			*14,950	13,640	*10,030	7,490					*9,170	7,050	15.7 ft
Boom 4.6 m (15‘1“) Arm 2.1 m (6‘11“) Shoe 500 mm (20 in) UndercarriageLC Counterweight 3,500 kg (7,720 lb) Dozer with dozer blade up	7.5 m	kg											*5,700	*5,700	2.77 m
	25 ft	lb											*13,280	*13,280	8.10 ft
	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
	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
	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
	1.5 m	kg					6,370	3,760	4,130	2,510			3,510	2,150	6.70 m
	5 ft	lb					13,710	8,110	8,900	5,430			7,740	4,740	22.0 ft
	0 m	kg			*5,560	*5,560	6,220	3,620	4,060	2,450			3,620	2,200	6.51 m
	0 ft	lb			*13,030	*13,030	13,380	7,820	8,750	5,300			7,980	4,850	21.4 ft
	-1.5 m	kg	*5,190	*5,190	*9,200	6,570	6,180	3,590					4,110	2,480	5.94 m
	-5 ft	lb	*11,710	*11,710	*19,990	14,120	13,300	7,750					9,100	5,490	19.4 ft
	-3.0 m	kg			*6,950	6,700	*4,760	3,660					*4,180	3,330	4.84 m
	-10 ft	lb			*14,950	14,410	*10,030	7,930					*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	Along UC	Across UC	
Boom 4.6 m (15‘1“) Arm 2.1 m (6‘11“) Shoe 500 mm (20 in) Undercarriage LC Counterweight 3,500 kg (7,720 lb) Dozer with dozer blade down	7.5 m	kg											*5,700	*5,700	2.77 m
	25 ft	lb											*13,280	*13,280	8.10 ft
	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
	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
	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
	1.5 m	kg					*6,470	4,050	*4,890	2,710			*4,220	2,310	6.70 m
	5 ft	lb					*14,020	8,750	*10,640	5,840			*9,300	5,100	22.0 ft
	0 m	kg			*5,560	*5,560	*6,820	3,920	*4,970	2,640			*4,470	2,370	6.51 m
	0 ft	lb			*13,030	*13,030	*14,780	8,460	*10,760	5,710			*9,860	5,220	21.4 ft
	-1.5 m	kg	*5,190	*5,190	*9,200	7,200	*6,380	3,890					*4,460	2,670	5.94 m
	-5 ft	lb	*11,710	*11,710	*19,990	15,480	*13,810	8,380					*9,820	5,920	19.4 ft
	-3.0 m	kg			*6,950	*6,950	*4,760	3,960					*4,180	3,600	4.84 m
	-10 ft	lb			*14,950	*14,950	*10,030	8,570					*9,170	8,060	15.7 ft
Boom 4.6 m (15‘1“) Arm 2.1 m (6‘11“) Shoe 600 mm (24 in) Undercarriage LC Counterweight 3,200 kg (7,060 lb) Dozer without dozer blade	7.5 m	kg											*5,700	*5,700	2.77 m
	25 ft	lb											*13,280	*13,280	8.10 ft
	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
	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
	3.0 m	kg			*8,250	6,780	*5,590	3,670	3,830	2,390			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
	1.5 m	kg					5,790	3,450	3,740	2,300			3,180	1,960	6.70 m
	5 ft	lb					12,460	7,460	8,070	4,980			7,010	4,330	22.0 ft
	0 m	kg			*5,560	*5,560	5,640	3,320	3,670	2,240			3,270	2,010	6.51 m
	0 ft	lb			*13,030	12,930	12,130	7,170	7,920	4,840			7,210	4,430	21.4 ft
	-1.5 m	kg	*5,190	*5,190	*9,200	6,040	5,600	3,290					3,720	2,270	5.94 m
	-5 ft	lb	*11,710	*11,710	*19,990	12,970	12,050	7,100					8,240	5,020	19.4 ft
	-3.0 m	kg			*6,950	6,160	*4,760	3,360					*4,180	3,060	4.84 m
	-10 ft	lb			*14,950	13,260	*10,030	7,280					*9,170	6,850	15.7 ft
Boom 4.6 m (15‘1“) Arm 2.1 m (6‘11“) Shoe 600 mm (24 in) Undercarriage LC Counterweight 3,200 kg (7,060 lb) Dozer with dozer blade up	7.5 m	kg											*5,700	*5,700	2.77 m
	25 ft	lb											*13,280	*13,280	8.10 ft
	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
	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
	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
	1.5 m	kg					6,260	3,660	4,050	2,450			3,440	2,090	6.70 m
	5 ft	lb					13,470	7,900	8,730	5,280			7,600	4,610	22.0 ft
	0 m	kg			*5,560	*5,560	6,100	3,530	3,980	2,390			3,550	2,140	6.51 m
	0 ft	lb			*13,030	*13,030	13,130	7,610	8,590	5,150			7,830	4,720	21.4 ft
	-1.5 m	kg	*5,190	*5,190	*9,200	6,400	6,060	3,490					4,040	2,410	5.94 m
	-5 ft	lb	*11,710	*11,710	*19,990	13,760	13,050	7,540					8,930	5,340	19.4 ft
	-3.0 m	kg			*6,950	6,530	*4,760	3,570					*4,180	3,250	4.84 m
	-10 ft	lb			*14,950	14,050	*10,030	7,720					*9,170	7,270	15.7 ft
Boom 4.6 m (15‘1“) Arm 2.1 m (6‘11“) Shoe 600 mm (24 in) Undercarriage LC Counterweight 3,200 kg (7,060 lb) Dozer with dozer blade down	7.5 m	kg											*5,700	*5,700	2.77 m
	25 ft	lb											*13,280	*13,280	8.10 ft
	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
	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
	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
	1.5 m	kg					*6,470	3,960	*4,890	2,640			*4,220	2,250	6.70 m
	5 ft	lb					*14,020	8,540	*10,640	5,690			*9,300	4,970	22.0 ft
	0 m	kg			*5,560	*5,560	*6,820	3,820	*4,970	2,570			*4,470	2,300	6.51 m
	0 ft	lb			*13,030	*13,030	*14,780	8,240	*10,760	5,560			*9,860	5,090	21.4 ft
	-1.5 m	kg	*5,190	*5,190	*9,200	7,030	*6,380	3,790					*4,460	2,610	5.94 m
	-5 ft	lb	*11,710	*11,710	*19,990	15,090	*13,810	8,170					*9,820	5,770	19.4 ft
	-3.0 m	kg			*6,950	*6,950	*4,760	3,860					*4,180	3,510	4.84 m
	-10 ft	lb			*14,950	*14,950	*10,030	8,350					*9,170	7,860	15.7 ft
Boom 4.6 m (15‘1“) Arm 2.1 m (6‘11“) Shoe 600 mm (24 in) Undercarriage LC Counterweight 3,500 kg (7,720 lb) Dozer without dozer blade	7.5 m	kg											*5,700	*5,700	2.77 m
	25 ft	lb											*13,280	*13,280	8.10 ft
	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
	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
	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
	1.5 m	kg					5,990	3,600	3,870	2,410			3,290	2,050	6.70 m
	5 ft	lb					12,890	7,770	8,350	5,190			7,260	4,530	22.0 ft
	0 m	kg			*5,560	*5,560	5,840	3,460	3,810	2,340			3,390	2,100	6.51 m
	0 ft	lb			*13,030	*13,030	12,560	7,480	8,210	5,060			7,480	4,630	21.4 ft
	-1.5 m	kg	*5,190	*5,190	*9,200	6,290	5,800	3,430					3,860	2,370	5.94 m
	-5 ft	lb	*11,710	*11,710	*19,990	13,520	12,480	7,410					8,540	5,250	19.4 ft
	-3.0 m	kg			*6,950	6,420	*4,760	3,510					*4,180	3,190	4.84 m
	-10 ft	lb			*14,950	13,810	*10,030	7,590					*9,170	7,140	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.

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	Along UC	Across UC	
Boom 4.6 m (15‘1“) Arm 2.1 m (6‘11“) Shoe 600 mm (24 in) Undercarriage LC Counterweight 3,500 kg (7,720 lb) Dozer with dozer blade up	7.5 m	kg											*5,700	*5,700	2.77 m
	25 ft	lb											*13,280	*13,280	8.10 ft
	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
	4.5 m	kg			*5,640	*5,640	*4,770	4,200					*3,940	2,690	5.99 m
	15 ft	lb			*12,160	*12,160	*10,400	9,060					*8,700	5,990	19.5 ft
	3.0 m	kg			*8,250	7,400	*5,590	4,020	4,280	2,630			3,750	2,310	6.54 m
	10 ft	lb			*17,660	15,970	*12,120	8,670	9,210	5,670			8,290	5,110	21.4 ft
	1.5 m	kg					6,450	3,800	4,180	2,550			3,560	2,180	6.70 m
	5 ft	lb					13,890	8,210	9,020	5,500			7,850	4,800	22.0 ft
	0 m	kg			*5,560	*5,560	6,300	3,670	4,120	2,490			3,670	2,230	6.51 m
	0 ft	lb			*13,030	*13,030	13,560	7,920	8,880	5,370			8,090	4,920	21.4 ft
	-1.5 m	kg	*5,190	*5,190	*9,200	6,660	6,260	3,640					4,170	2,520	5.94 m
	-5 ft	lb	*11,710	*11,710	*19,990	14,310	13,480	7,850					9,230	5,570	19.4 ft
	-3.0 m	kg			*6,950	6,780	*4,760	3,710					*4,180	3,380	4.84 m
	-10 ft	lb			*14,950	14,600	*10,030	8,030					*9,170	7,560	15.7 ft
Boom 4.6 m (15‘1“) Arm 2.1 m (6‘11“) Shoe 600 mm (24 in) Undercarriage LC Counterweight 3,500 kg (7,720 lb) Dozer with dozer blade down	7.5 m	kg											*5,700	*5,700	2.77 m
	25 ft	lb											*13,280	*13,280	8.10 ft
	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
	4.5 m	kg			*5,640	*5,640	*4,770	4,510					*3,940	2,880	5.99 m
	15 ft	lb			*12,160	*12,160	*10,400	9,730					*8,700	6,430	19.5 ft
	3.0 m	kg			*8,250	8,070	*5,590	4,320	*4,600	2,830			*3,950	2,480	6.54 m
	10 ft	lb			*17,660	17,390	*12,120	9,330	*10,030	6,090			*8,710	5,490	21.4 ft
	1.5 m	kg					*6,470	4,110	*4,890	2,740			*4,220	2,340	6.70 m
	5 ft	lb					*14,020	8,870	*10,640	5,920			*9,300	5,170	22.0 ft
	0 m	kg			*5,560	*5,560	*6,820	3,970	*4,970	2,680			*4,470	2,400	6.51 m
	0 ft	lb			*13,030	*13,030	*14,780	8,570	*10,760	5,790			*9,860	5,290	21.4 ft
	-1.5 m	kg	*5,190	*5,190	*9,200	7,300	*6,380	3,940					*4,460	2,710	5.94 m
	-5 ft	lb	*11,710	*11,710	*19,990	15,680	*13,810	8,500					*9,820	6,000	19.4 ft
	-3.0 m	kg			*6,950	*6,950	*4,760	4,010					*4,180	3,650	4.84 m
	-10 ft	lb			*14,950	*14,950	*10,030	8,680					*9,170	8,160	15.7 ft
Boom 4.6 m (15‘1“) Arm 2.1 m (6‘11“) Shoe 700 mm (28 in) Undercarriage LC Counterweight 3,200 kg (7,060 lb) Dozer without dozer blade	7.5 m	kg											*5,700	*5,700	2.77 m
	25 ft	lb											*13,280	*13,280	8.10 ft
	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
	4.5 m	kg			*5,640	*5,640	*4,770	3,920					*3,940	2,490	5.99 m
	15 ft	lb			*12,160	*12,160	*10,400	8,450					*8,700	5,550	19.5 ft
	3.0 m	kg			*8,250	6,900	*5,590	3,730	3,910	2,430			3,420	2,130	6.54 m
	10 ft	lb			*17,660	14,880	*12,120	8,060	8,420	5,250			7,570	4,710	21.4 ft
	1.5 m	kg					5,900	3,520	3,820	2,350			3,240	2,000	6.70 m
	5 ft	lb					12,710	7,600	8,230	5,070			7,150	4,420	22.0 ft
	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
	-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 4.6 m (15‘1“) Arm 2.1 m (6‘11“) Shoe 700 mm (28 in) Undercarriage LC Counterweight 3,200 kg (7,060 lb) Dozer with dozer blade up	7.5 m	kg											*5,700	*5,700	2.77 m
	25 ft	lb											*13,280	*13,280	8.10 ft
	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
	4.5 m	kg			*5,640	*5,640	*4,770	4,120					*3,940	2,630	5.99 m
	15 ft	lb			*12,160	*12,160	*10,400	8,890					*8,700	5,870	19.5 ft
	3.0 m	kg			*8,250	7,260	*5,590	3,940	4,220	2,580			3,690	2,260	6.54 m
	10 ft	lb			*17,660	15,670	*12,120	8,500	9,080	5,560			8,170	5,000	21.4 ft
	1.5 m	kg					6,370	3,720	4,130	2,490			3,510	2,130	6.70 m
	5 ft	lb					13,700	8,040	8,890	5,380			7,740	4,700	22.0 ft
	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
	-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 4.6 m (15‘1“) Arm 2.1 m (6‘11“) Shoe 700 mm (28 in) Undercarriage LC Counterweight 3,200 kg (7,060 lb) Dozer with dozer blade down	7.5 m	kg											*5,700	*5,700	2.77 m
	25 ft	lb											*13,280	*13,280	8.10 ft
	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
	4.5 m	kg			*5,640	*5,640	*4,770	4,430					*3,940	2,830	5.99 m
	15 ft	lb			*12,160	*12,160	*10,400	9,560					*8,700	6,300	19.5 ft
	3.0 m	kg			*8,250	7,920	*5,590	4,240	*4,600	2,770			*3,950	2,430	6.54 m
	10 ft	lb			*17,660	17,080	*12,120	9,160	*10,030	5,970			*8,710	5,380	21.4 ft
	1.5 m	kg					*6,470	4,030	*4,890	2,690			*4,220	2,290	6.70 m
	5 ft	lb					*14,020	8,690	*10,640	5,800			*9,300	5,060	22.0 ft
	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
	-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	Along UC	Across UC	Along UC	Across UC	Along UC	Across UC	Along UC	Across UC	Along UC	Across UC	
Boom 4.6 m (15‘1“) Arm 2.1 m (6‘11“) Shoe 700 mm (28 in) Undercarriage LC Counterweight 3,500 kg (7,720 lb) Dozer without dozer blade	7.5 m	kg											*5,700	*5,700	2.77 m
	25 ft	lb											*13,280	*13,280	8.10 ft
	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
	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	8,760					*8,700	5,770	19.5 ft
	3.0 m	kg			*8,250	7,150	*5,590	3,880	4,040	2,530			3,540	2,220	6.54 m
	10 ft	lb			*17,660	15,430	*12,120	8,370	8,700	5,460			7,830	4,910	21.4 ft
	1.5 m	kg					6,100	3,660	3,950	2,450			3,350	2,090	6.70 m
	5 ft	lb					13,140	7,910	8,510	5,290			7,400	4,610	22.0 ft
	0 m	kg			*5,560	*5,560	5,950	3,530	3,880	2,390			3,460	2,140	6.51 m
	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 4.6 m (15‘1“) Arm 2.1 m (6‘11“) Shoe 700 mm (28 in) Undercarriage LC Counterweight 3,500 kg (7,720 lb) Dozer with dozer blade up	7.5 m	kg											*5,700	*5,700	2.77 m
	25 ft	lb											*13,280	*13,280	8.10 ft
	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
	4.5 m	kg			*5,640	*5,640	*4,770	4,270					*3,940	2,730	5.99 m
	15 ft	lb			*12,160	*12,160	*10,400	9,200					*8,700	6,090	19.5 ft
	3.0 m	kg			*8,250	7,520	*5,590	4,080	4,350	2,680			3,810	2,350	6.54 m
	10 ft	lb			*17,660	16,220	*12,120	8,810	9,370	5,770			8,430	5,200	21.4 ft
	1.5 m	kg					*6,470	3,870	4,260	2,590			3,620	2,220	6.70 m
	5 ft	lb					*14,020	8,360	9,180	5,600			7,990	4,890	22.0 ft
	0 m	kg			*5,560	*5,560	6,410	3,740	4,190	2,530			3,730	2,270	6.51 m
	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 4.6 m (15‘1“) Arm 2.1 m (6‘11“) Shoe 700 mm (28 in) Undercarriage LC Counterweight 3,500 kg (7,720 lb) Dozer with dozer blade down	7.5 m	kg											*5,700	*5,700	2.77 m
	25 ft	lb											*13,280	*13,280	8.10 ft
	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
	4.5 m	kg			*5,640	*5,640	*4,770	4,580					*3,940	2,930	5.99 m
	15 ft	lb			*12,160	*12,160	*10,400	9,880					*8,700	6,530	19.5 ft
	3.0 m	kg			*8,250	8,190	*5,590	4,390	*4,600	2,870			*3,950	2,520	6.54 m
	10 ft	lb			*17,660	*17,660	*12,120	9,480	*10,030	6,200			*8,710	5,580	21.4 ft
	1.5 m	kg					*6,470	4,180	*4,890	2,790			*4,220	2,380	6.70 m
	5 ft	lb					*14,020	9,020	*10,640	6,020			*9,300	5,260	22.0 ft
	0 m	kg			*5,560	*5,560	*6,820	4,040	*4,970	2,730			*4,470	2,440	6.51 m
	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 4.6 m (15‘1“) Arm 2.5 m (8‘2“) Shoe 500 mm (20 in) Undercarriage LC Counterweight 3,200 kg (7,060 lb) Dozer without dozer blade	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
	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
	4.5 m	kg			*4,360	*4,360	*4,380	3,860	3,870	2,440			*3,240	2,180	6.41 m
	15 ft	lb			*9,610	*9,610	*9,560	8,310	8,330	5,240			*7,150	4,850	20.9 ft
	3.0 m	kg			*7,380	6,870	*5,250	3,660	3,800	2,370			3,030	1,880	6.93 m
	10 ft	lb			*15,820	14,810	*11,370	7,910	8,180	5,110			6,700	4,170	22.7 ft
	1.5 m	kg					5,740	3,430	3,690	2,270			2,880	1,780	7.08 m
	5 ft	lb					12,360	7,410	7,960	4,910			6,360	3,930	23.2 ft
	0 m	kg			*6,070	5,910	5,550	3,270	3,610	2,200			2,950	1,810	6.91 m
	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 4.6 m (15‘1“) Arm 2.5 m (8‘2“) Shoe 500 mm (20 in) Undercarriage LC Counterweight 3,200 kg (7,060 lb) Dozer with dozer blade up	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
	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
	4.5 m	kg			*4,360	*4,360	*4,380	4,060	*4,110	2,580			*3,240	2,310	6.41 m
	15 ft	lb			*9,610	*9,610	*9,560	8,750	8,990	5,550			*7,150	5,140	20.9 ft
	3.0 m	kg			*7,380	7,230	*5,250	3,870	4,110	2,510			*3,240	2,000	6.93 m
	10 ft	lb			*15,820	15,590	*11,370	8,340	8,850	5,420			*7,150	4,440	22.7 ft
	1.5 m	kg					6,200	3,630	4,000	2,420			3,130	1,890	7.08 m
	5 ft	lb					13,350	7,850	8,620	5,210			6,900	4,180	23.2 ft
	0 m	kg			*6,070	*6,070	6,010	3,470	3,910	2,340			3,200	1,930	6.91 m
	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	Along UC	Across UC	
Boom 4.6 m (15‘1“) Arm 2.5 m (8‘2“) Shoe 500 mm (20 in) Undercarriage LC Counterweight 3,200 kg (7,060 lb) Dozer with dozer blade down	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
	6.0 m	kg					*4,110	*4,110					*3,470	3,240	5.44 m
	20 ft	lb					*9,110	*9,110					*7,710	7,330	17.6 ft
	4.5 m	kg			*4,360	*4,360	*4,380	4,360	*4,110	2,770			*3,240	2,480	6.41 m
	15 ft	lb			*9,610	*9,610	*9,560	9,400	*9,020	5,960			*7,150	5,520	20.9 ft
	3.0 m	kg			*7,380	*7,380	*5,250	4,160	*4,380	2,700			*3,240	2,160	6.93 m
	10 ft	lb			*15,820	*15,820	*11,370	8,980	*9,550	5,820			*7,150	4,780	22.7 ft
	1.5 m	kg					*6,230	3,930	*4,760	2,600			*3,430	2,040	7.08 m
	5 ft	lb					*13,500	8,480	*10,340	5,620			*7,570	4,510	23.2 ft
	0 m	kg			*6,070	*6,070	*6,760	3,760	*4,960	2,520			*3,860	2,080	6.91 m
	0 ft	lb			*14,120	*14,120	*14,660	8,120	*10,750	5,450			*8,520	4,590	22.7 ft
	-1.5 m	kg	*4,680	*4,680	*9,700	6,870	*6,550	3,700	*4,660	2,500			*4,220	2,310	6.37 m
	-5 ft	lb	*10,540	*10,540	*21,050	14,750	*14,180	7,990	*10,020	5,400			*9,300	5,120	20.9 ft
	-3.0 m	kg	*9,140	*9,140	*7,770	6,970	*5,350	3,750					*4,080	2,960	5.36 m
	-10 ft	lb	*20,680	*20,680	*16,750	14,980	*11,440	8,090					*8,970	6,610	17.4 ft
Boom 4.6 m (15‘1“) Arm 2.5 m (8‘2“) Shoe 500 mm (20 in) Undercarriage LC Counterweight 3,500 kg (7,720 lb) Dozer without dozer blade	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
	6.0 m	kg					*4,110	4,070					*3,470	2,980	5.44 m
	20 ft	lb					*9,110	8,760					*7,710	6,730	17.6 ft
	4.5 m	kg			*4,360	*4,360	*4,380	4,000	4,010	2,540			*3,240	2,270	6.41 m
	15 ft	lb			*9,610	*9,610	*9,560	8,630	8,610	5,460			*7,150	5,050	20.9 ft
	3.0 m	kg			*7,380	7,120	*5,250	3,810	3,930	2,470			3,140	1,970	6.93 m
	10 ft	lb			*15,820	15,360	*11,370	8,220	8,470	5,330			6,940	4,360	22.7 ft
	1.5 m	kg					5,940	3,570	3,830	2,370			2,990	1,860	7.08 m
	5 ft	lb					12,780	7,720	8,250	5,130			6,590	4,110	23.2 ft
	0 m	kg			*6,070	*6,070	5,750	3,410	3,740	2,300			3,060	1,890	6.91 m
	0 ft	lb			*14,120	13,270	12,380	7,360	8,060	4,960			6,750	4,180	22.7 ft
	-1.5 m	kg	*4,680	*4,680	*9,700	6,140	5,680	3,350	3,710	2,270			3,420	2,100	6.37 m
	-5 ft	lb	*10,540	*10,540	*21,050	13,210	12,230	7,240	8,010	4,910			7,560	4,660	20.9 ft
	-3.0 m	kg	*9,140	*9,140	*7,770	6,240	*5,350	3,400					*4,080	2,690	5.36 m
	-10 ft	lb	*20,680	*20,680	*16,750	13,430	*11,440	7,340					*8,970	6,020	17.4 ft
Boom 4.6 m (15‘1“) Arm 2.5 m (8‘2“) Shoe 500 mm (20 in) Undercarriage LC Counterweight 3,500 kg (7,720 lb) Dozer with dozer blade up	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
	6.0 m	kg					*4,110	*4,110					*3,470	3,140	5.44 m
	20 ft	lb					*9,110	*9,110					*7,710	7,090	17.6 ft
	4.5 m	kg			*4,360	*4,360	*4,380	4,200	*4,110	2,680			*3,240	2,400	6.41 m
	15 ft	lb			*9,610	*9,610	*9,560	9,060	*9,020	5,760			*7,150	5,340	20.9 ft
	3.0 m	kg			*7,380	*7,380	*5,250	4,010	4,240	2,610			*3,240	2,090	6.93 m
	10 ft	lb			*15,820	*15,820	*11,370	8,650	9,130	5,630			*7,150	4,620	22.7 ft
	1.5 m	kg					*6,230	3,780	4,130	2,520			3,230	1,980	7.08 m
	5 ft	lb					*13,500	8,160	8,910	5,430			7,140	4,360	23.2 ft
	0 m	kg			*6,070	*6,070	6,210	3,620	4,050	2,440			3,310	2,010	6.91 m
	0 ft	lb			*14,120	14,040	13,370	7,800	8,730	5,270			7,310	4,440	22.7 ft
	-1.5 m	kg	*4,680	*4,680	*9,700	6,500	6,150	3,560	4,020	2,410			3,700	2,240	6.37 m
	-5 ft	lb	*10,540	*10,540	*21,050	13,980	13,220	7,670	8,670	5,210			8,190	4,950	20.9 ft
	-3.0 m	kg	*9,140	*9,140	*7,770	6,600	*5,350	3,600					*4,080	2,860	5.36 m
	-10 ft	lb	*20,680	*20,680	*16,750	14,200	*11,440	7,780					*8,970	6,380	17.4 ft
Boom 4.6 m (15‘1“) Arm 2.5 m (8‘2“) Shoe 500 mm (20 in) Undercarriage LC Counterweight 3,500 kg (7,720 lb) Dozer with dozer blade down	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**
	6.0 m	kg					*4,110	*4,110					*3,470	3,360	**5.44 m**
	20 ft	lb					*9,110	*9,110					*7,710	7,600	**17.6 ft**
	4.5 m	kg			*4,360	*4,360	*4,380	*4,380	*4,110	2,870			*3,240	2,570	**6.41 m**
	15 ft	lb			*9,610	*9,610	*9,560	*9,560	*9,020	6,180			*7,150	5,730	**20.9 ft**
	3.0 m	kg			*7,380	*7,380	*5,250	4,310	*4,380	2,810			*3,240	2,240	**6.93 m**
	10 ft	lb			*15,820	*15,820	*11,370	9,310	*9,550	6,050			*7,150	4,970	**22.7 ft**
	1.5 m	kg					*6,230	4,080	*4,760	2,710			*3,430	2,130	**7.08 m**
	5 ft	lb					*13,500	8,800	*10,340	5,840			*7,570	4,700	**23.2 ft**
	0 m	kg			*6,070	*6,070	*6,760	3,910	*4,960	2,630			*3,860	2,170	**6.91 m**
	0 ft	lb			*14,120	*14,120	*14,660	8,440	*10,750	5,680			*8,520	4,790	**22.7 ft**
	-1.5 m	kg	*4,680	*4,680	*9,700	7,140	*6,550	3,850	*4,660	2,600			*4,220	2,410	**6.37 m**
	-5 ft	lb	*10,540	*10,540	*21,050	15,330	*14,180	8,310	*10,020	5,620			*9,300	5,330	**20.9 ft**
	-3.0 m	kg	*9,140	*9,140	*7,770	7,240	*5,350	3,900					*4,080	3,080	**5.36 m**
	-10 ft	lb	*20,680	*20,680	*16,750	15,560	*11,440	8,410					*8,970	6,880	**17.4 ft**
Boom 4.6 m (15‘1“) Arm 2.5 m (8‘2“) Shoe 600 mm (24 in) Undercarriage LC Counterweight 3,200 kg (7,060 lb) Dozer without dozer blade	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
	6.0 m	kg					*4,110	3,980					*3,470	2,900	5.44 m
	20 ft	lb					*9,110	8,540					*7,710	6,560	17.6 ft
	4.5 m	kg			*4,360	*4,360	*4,380	3,900	3,930	2,470			*3,240	2,200	6.41 m
	15 ft	lb			*9,610	*9,610	*9,560	8,410	8,440	5,310			*7,150	4,910	20.9 ft
	3.0 m	kg			*7,380	6,950	*5,250	3,710	3,850	2,400			3,070	1,910	6.93 m
	10 ft	lb			*15,820	14,990	*11,370	8,000	8,300	5,180			6,800	4,230	22.7 ft
	1.5 m	kg					5,820	3,480	3,750	2,310			2,920	1,800	7.08 m
	5 ft	lb					12,530	7,510	8,080	4,980			6,450	3,980	23.2 ft
	0 m	kg			*6,070	5,990	5,630	3,310	3,660	2,230			2,990	1,840	6.91 m
	0 ft	lb			*14,120	12,890	12,120	7,150	7,890	4,810			6,610	4,050	22.7 ft
	-1.5 m	kg	*4,680	*4,680	*9,700	5,970	5,570	3,260	3,630	2,200			3,350	2,040	6.37 m
	-5 ft	lb	*10,540	*10,540	*21,050	12,830	11,970	7,020	7,840	4,760			7,400	4,520	20.9 ft
	-3.0 m	kg	*9,140	*9,140	*7,770	6,070	*5,350	3,300					*4,080	2,620	5.36 m
	-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	Along UC	Across UC	
Boom 4.6 m (15‘1“) Arm 2.5 m (8‘2“) Shoe 600 mm (24 in) Undercarriage LC Counterweight 3,200 kg (7,060 lb) Dozer with dozer blade up	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
	6.0 m	kg					*4,110	*4,110					*3,470	3,060	5.44 m
	20 ft	lb					*9,110	8,990					*7,710	6,920	17.6 ft
	4.5 m	kg			*4,360	*4,360	*4,380	4,110	*4,110	2,610			*3,240	2,340	6.41 m
	15 ft	lb			*9,610	*9,610	*9,560	8,860	*9,020	5,620			*7,150	5,200	20.9 ft
	3.0 m	kg			*7,380	7,320	*5,250	3,910	4,160	2,550			*3,240	2,030	6.93 m
	10 ft	lb			*15,820	15,770	*11,370	8,450	8,970	5,490			*7,150	4,500	22.7 ft
	1.5 m	kg					*6,230	3,680	4,060	2,450			3,170	1,920	7.08 m
	5 ft	lb					*13,500	7,950	8,740	5,290			7,000	4,240	23.2 ft
	0 m	kg			*6,070	*6,070	6,100	3,520	3,970	2,370			3,250	1,960	6.91 m
	0 ft	lb			*14,120	13,680	13,120	7,600	8,560	5,120			7,170	4,320	22.7 ft
	-1.5 m	kg	*4,680	*4,680	*9,700	6,330	6,030	3,460	3,940	2,350			3,630	2,170	6.37 m
	-5 ft	lb	*10,540	*10,540	*21,050	13,620	12,980	7,470	8,510	5,070			8,040	4,810	20.9 ft
	-3.0 m	kg	*9,140	*9,140	*7,770	6,430	*5,350	3,500					*4,080	2,780	5.36 m
	-10 ft	lb	*20,680	*20,680	*16,750	13,840	*11,440	7,570					*8,970	6,210	17.4 ft
Boom 4.6 m (15‘1“) Arm 2.5 m (8‘2“) Shoe 600 mm (24 in) Undercarriage LC Counterweight 3,200 kg (7,060 lb) Dozer with dozer blade down	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
	6.0 m	kg					*4,110	*4,110					*3,470	3,280	5.44 m
	20 ft	lb					*9,110	*9,110					*7,710	7,420	17.6 ft
	4.5 m	kg			*4,360	*4,360	*4,380	*4,380	*4,110	2,810			*3,240	2,510	6.41 m
	15 ft	lb			*9,610	*9,610	*9,560	9,510	*9,020	6,030			*7,150	5,590	20.9 ft
	3.0 m	kg			*7,380	*7,380	*5,250	4,220	*4,380	2,740			*3,240	2,190	6.93 m
	10 ft	lb			*15,820	*15,820	*11,370	9,100	*9,550	5,900			*7,150	4,840	22.7 ft
	1.5 m	kg					*6,230	3,980	*4,760	2,640			*3,430	2,070	7.08 m
	5 ft	lb					*13,500	8,590	*10,340	5,700			*7,570	4,570	23.2 ft
	0 m	kg			*6,070	*6,070	*6,760	3,810	*4,960	2,560			*3,860	2,110	6.91 m
	0 ft	lb			*14,120	*14,120	*14,660	8,230	*10,750	5,530			*8,520	4,660	22.7 ft
	-1.5 m	kg	*4,680	*4,680	*9,700	6,960	*6,550	3,750	*4,660	2,530			*4,220	2,350	6.37 m
	-5 ft	lb	*10,540	*10,540	*21,050	14,950	*14,180	8,100	*10,020	5,480			*9,300	5,190	20.9 ft
	-3.0 m	kg	*9,140	*9,140	*7,770	7,060	*5,350	3,800					*4,080	3,000	5.36 m
	-10 ft	lb	*20,680	*20,680	*16,750	15,180	*11,440	8,200					*8,970	6,710	17.4 ft
Boom 4.6 m (15‘1“) Arm 2.5 m (8‘2“) Shoe 600 mm (24 in) Undercarriage LC Counterweight 3,500 kg (7,720 lb) Dozer without dozer blade	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
	6.0 m	kg					*4,110	*4,110					*3,470	3,010	5.44 m
	20 ft	lb					*9,110	8,860					*7,710	6,810	17.6 ft
	4.5 m	kg			*4,360	*4,360	*4,380	4,050	4,060	2,570			*3,240	2,300	6.41 m
	15 ft	lb			*9,610	*9,610	*9,560	8,720	8,730	5,530			*7,150	5,120	20.9 ft
	3.0 m	kg			*7,380	7,210	*5,250	3,850	3,990	2,500			3,180	2,000	6.93 m
	10 ft	lb			*15,820	15,540	*11,370	8,320	8,580	5,400			7,040	4,420	22.7 ft
	1.5 m	kg					6,020	3,620	3,880	2,410			3,030	1,890	7.08 m
	5 ft	lb					12,950	7,820	8,360	5,190			6,690	4,160	23.2 ft
	0 m	kg			*6,070	*6,070	5,830	3,460	3,790	2,330			3,100	1,920	6.91 m
	0 ft	lb			*14,120	13,440	12,550	7,460	8,180	5,030			6,850	4,240	22.7 ft
	-1.5 m	kg	*4,680	*4,680	*9,700	6,220	5,760	3,400	3,760	2,300			3,470	2,130	6.37 m
	-5 ft	lb	*10,540	*10,540	*21,050	13,380	12,400	7,340	8,120	4,980			7,670	4,720	20.9 ft
	-3.0 m	kg	*9,140	*9,140	*7,770	6,320	*5,350	3,440					*4,080	2,730	5.36 m
	-10 ft	lb	*20,680	*20,680	*16,750	13,600	*11,440	7,440					*8,970	6,100	17.4 ft
Boom 4.6 m (15‘1“) Arm 2.5 m (8‘2“) Shoe 600 mm (24 in) Undercarriage LC Counterweight 3,500 kg (7,720 lb) Dozer with dozer blade up	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
	6.0 m	kg					*4,110	*4,110					*3,470	3,170	5.44 m
	20 ft	lb					*9,110	*9,110					*7,710	7,170	17.6 ft
	4.5 m	kg			*4,360	*4,360	*4,380	4,250	*4,110	2,710			*3,240	2,430	6.41 m
	15 ft	lb			*9,610	*9,610	*9,560	9,170	*9,020	5,840			*7,150	5,410	20.9 ft
	3.0 m	kg			*7,380	*7,380	*5,250	4,060	4,290	2,650			*3,240	2,120	6.93 m
	10 ft	lb			*15,820	*15,820	*11,370	8,760	9,250	5,710			*7,150	4,690	22.7 ft
	1.5 m	kg					*6,230	3,830	4,190	2,550			3,280	2,000	7.08 m
	5 ft	lb					*13,500	8,260	9,030	5,500			7,240	4,420	23.2 ft
	0 m	kg			*6,070	*6,070	6,300	3,660	4,100	2,470			3,360	2,040	6.91 m
	0 ft	lb			*14,120	*14,120	13,550	7,910	8,850	5,340			7,420	4,500	22.7 ft
	-1.5 m	kg	*4,680	*4,680	*9,700	6,590	6,230	3,600	4,070	2,450			3,750	2,270	6.37 m
	-5 ft	lb	*10,540	*10,540	*21,050	14,170	13,400	7,780	8,790	5,290			8,300	5,010	20.9 ft
	-3.0 m	kg	*9,140	*9,140	*7,770	6,690	*5,350	3,650					*4,080	2,900	5.36 m
	-10 ft	lb	*20,680	*20,680	*16,750	14,390	*11,440	7,880					*8,970	6,460	17.4 ft
Boom 4.6 m (15‘1“) Arm 2.5 m (8‘2“) Shoe 600 mm (24 in) Undercarriage LC Counterweight 3,500 kg (7,720 lb) Dozer with dozer blade down	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
	6.0 m	kg					*4,110	*4,110					*3,470	3,400	5.44 m
	20 ft	lb					*9,110	*9,110					*7,710	7,690	17.6 ft
	4.5 m	kg			*4,360	*4,360	*4,380	*4,380	*4,110	2,910			*3,240	2,610	6.41 m
	15 ft	lb			*9,610	*9,610	*9,560	*9,560	*9,020	6,260			*7,150	5,800	20.9 ft
	3.0 m	kg			*7,380	*7,380	*5,250	4,370	*4,380	2,840			*3,240	2,270	6.93 m
	10 ft	lb			*15,820	*15,820	*11,370	9,420	*9,550	6,130			*7,150	5,040	22.7 ft
	1.5 m	kg					*6,230	4,130	*4,760	2,740			*3,430	2,160	7.08 m
	5 ft	lb					*13,500	8,910	*10,340	5,920			*7,570	4,760	23.2 ft
	0 m	kg			*6,070	*6,070	*6,760	3,960	*4,960	2,660			*3,860	2,200	6.91 m
	0 ft	lb			*14,120	*14,120	*14,660	8,550	*10,750	5,750			*8,520	4,850	22.7 ft
	-1.5 m	kg	*4,680	*4,680	*9,700	7,230	*6,550	3,900	*4,660	2,640			*4,220	2,440	6.37 m
	-5 ft	lb	*10,540	*10,540	*21,050	15,530	*14,180	8,420	*10,020	5,700			*9,300	5,410	20.9 ft
	-3.0 m	kg	*9,140	*9,140	*7,770	7,330	*5,350	3,950					*4,080	3,120	5.36 m
	-10 ft	lb	*20,680	*20,680	*16,750	15,760	*11,440	8,530					*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	Along UC	Across UC	
Boom 4.6 m (15‘1“) Arm 2.5 m (8‘2“) Shoe 700 mm (28 in) Undercarriage LC Counterweight 3,200 kg (7,060 lb) Dozer without dozer blade	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
	6.0 m	kg					*4,110	4,040					*3,470	2,950	5.44 m
	20 ft	lb					*9,110	8,680					*7,710	6,670	17.6 ft
	4.5 m	kg			*4,360	*4,360	*4,380	3,970	4,000	2,520			*3,240	2,250	6.41 m
	15 ft	lb			*9,610	*9,610	*9,560	8,550	8,610	5,410			*7,150	5,000	20.9 ft
	3.0 m	kg			*7,380	7,070	*5,250	3,770	3,930	2,450			3,130	1,950	6.93 m
	10 ft	lb			*15,820	15,240	*11,370	8,140	8,460	5,280			6,940	4,320	22.7 ft
	1.5 m	kg					5,930	3,540	3,820	2,350			2,980	1,840	7.08 m
	5 ft	lb					12,770	7,650	8,240	5,080			6,580	4,070	23.2 ft
	0 m	kg			*6,070	*6,070	5,750	3,380	3,740	2,270			3,060	1,870	6.91 m
	0 ft	lb			*14,120	13,140	12,360	7,290	8,060	4,910			6,740	4,140	22.7 ft
	-1.5 m	kg	*4,680	*4,680	*9,700	6,080	5,680	3,320	3,710	2,250			3,420	2,080	6.37 m
	-5 ft	lb	*10,540	*10,540	*21,050	13,080	12,220	7,170	8,000	4,860			7,560	4,610	20.9 ft
	-3.0 m	kg	*9,140	*9,140	*7,770	6,180	*5,350	3,360					*4,080	2,670	5.36 m
	-10 ft	lb	*20,680	*20,680	*16,750	13,300	*11,440	7,270					*8,970	5,960	17.4 ft
Boom 4.6 m (15‘1“) Arm 2.5 m (8‘2“) Shoe 700 mm (28 in) Undercarriage LC Counterweight 3,200 kg (7,060 lb) Dozer with dozer blade up	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
	6.0 m	kg					*4,110	*4,110					*3,470	3,110	5.44 m
	20 ft	lb					*9,110	*9,110					*7,710	7,040	17.6 ft
	4.5 m	kg			*4,360	*4,360	*4,380	4,170	*4,110	2,660			*3,240	2,380	6.41 m
	15 ft	lb			*9,610	*9,610	*9,560	9,000	*9,020	5,720			*7,150	5,300	20.9 ft
	3.0 m	kg			*7,380	*7,380	*5,250	3,980	4,240	2,590			*3,240	2,070	6.93 m
	10 ft	lb			*15,820	*15,820	*11,370	8,590	9,120	5,590			*7,150	4,580	22.7 ft
	1.5 m	kg					*6,230	3,750	4,130	2,490			3,230	1,960	7.08 m
	5 ft	lb					*13,500	8,090	8,900	5,390			7,130	4,320	23.2 ft
	0 m	kg			*6,070	*6,070	6,210	3,580	4,040	2,420			3,310	1,990	6.91 m
	0 ft	lb			*14,120	13,930	13,360	7,740	8,720	5,220			7,310	4,400	22.7 ft
	-1.5 m	kg	*4,680	*4,680	*9,700	6,450	6,140	3,530	4,010	2,390			3,700	2,220	6.37 m
	-5 ft	lb	*10,540	*10,540	*21,050	13,870	13,210	7,610	8,660	5,170			8,180	4,900	20.9 ft
	-3.0 m	kg	*9,140	*9,140	*7,770	6,550	*5,350	3,570					*4,080	2,830	5.36 m
	-10 ft	lb	*20,680	*20,680	*16,750	14,090	*11,440	7,710					*8,970	6,320	17.4 ft
Boom 4.6 m (15‘1“) Arm 2.5 m (8‘2“) Shoe 700 mm (28 in) Undercarriage LC Counterweight 3,200 kg (7,060 lb) Dozer with dozer blade down	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
	6.0 m	kg					*4,110	*4,110					*3,470	3,340	5.44 m
	20 ft	lb					*9,110	*9,110					*7,710	7,550	17.6 ft
	4.5 m	kg			*4,360	*4,360	*4,380	*4,380	*4,110	2,850			*3,240	2,560	6.41 m
	15 ft	lb			*9,610	*9,610	*9,560	*9,560	*9,020	6,140			*7,150	5,690	20.9 ft
	3.0 m	kg			*7,380	*7,380	*5,250	4,290	*4,380	2,790			*3,240	2,230	6.93 m
	10 ft	lb			*15,820	*15,820	*11,370	9,250	*9,550	6,010			*7,150	4,930	22.7 ft
	1.5 m	kg					*6,230	4,050	*4,760	2,690			*3,430	2,110	7.08 m
	5 ft	lb					*13,500	8,740	*10,340	5,800			*7,570	4,660	23.2 ft
	0 m	kg			*6,070	*6,070	*6,760	3,880	*4,960	2,610			*3,860	2,150	6.91 m
	0 ft	lb			*14,120	*14,120	*14,660	8,380	*10,750	5,630			*8,520	4,750	22.7 ft
	-1.5 m	kg	*4,680	*4,680	*9,700	7,090	*6,550	3,820	*4,660	2,580			*4,220	2,390	6.37 m
	-5 ft	lb	*10,540	*10,540	*21,050	15,220	*14,180	8,250	*10,020	5,580			*9,300	5,290	20.9 ft
	-3.0 m	kg	*9,140	*9,140	*7,770	7,190	*5,350	3,870					*4,080	3,060	5.36 m
	-10 ft	lb	*20,680	*20,680	*16,750	15,450	*11,440	8,350					*8,970	6,830	17.4 ft
Boom 4.6 m (15‘1“) Arm 2.5 m (8‘2“) Shoe 700 mm (28 in) Undercarriage LC Counterweight 3,500 kg (7,720 lb) Dozer without dozer blade	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
	6.0 m	kg					*4,110	*4,110					*3,470	3,060	5.44 m
	20 ft	lb					*9,110	9,000					*7,710	6,930	17.6 ft
	4.5 m	kg			*4,360	*4,360	*4,380	4,110	*4,110	2,620			*3,240	2,340	6.41 m
	15 ft	lb			*9,610	*9,610	*9,560	8,860	8,890	5,630			*7,150	5,210	20.9 ft
	3.0 m	kg			*7,380	7,320	*5,250	3,920	4,060	2,550			3,240	2,030	6.93 m
	10 ft	lb			*15,820	15,790	*11,370	8,460	8,750	5,490			*7,150	4,500	22.7 ft
	1.5 m	kg					6,130	3,690	3,950	2,450			3,090	1,920	7.08 m
	5 ft	lb					13,200	7,960	8,520	5,290			6,820	4,250	23.2 ft
	0 m	kg			*6,070	*6,070	5,940	3,520	3,870	2,370			3,170	1,960	6.91 m
	0 ft	lb			*14,120	13,690	12,790	7,600	8,340	5,130			6,990	4,320	22.7 ft
	-1.5 m	kg	*4,680	*4,680	*9,700	6,340	5,880	3,460	3,840	2,350			3,540	2,180	6.37 m
	-5 ft	lb	*10,540	*10,540	*21,050	13,630	12,650	7,480	8,290	5,080			7,830	4,810	20.9 ft
	-3.0 m	kg	*9,140	*9,140	*7,770	6,440	*5,350	3,510					*4,080	2,780	5.36 m
	-10 ft	lb	*20,680	*20,680	*16,750	13,850	*11,440	7,580					*8,970	6,210	17.4 ft
Boom 4.6 m (15‘1“) Arm 2.5 m (8‘2“) Shoe 700 mm (28 in) Undercarriage LC Counterweight 3,500 kg (7,720 lb) Dozer with dozer blade up	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
	6.0 m	kg					*4,110	*4,110					*3,470	3,220	5.44 m
	20 ft	lb					*9,110	*9,110					*7,710	7,290	17.6 ft
	4.5 m	kg			*4,360	*4,360	*4,380	4,320	*4,110	2,760			*3,240	2,470	6.41 m
	15 ft	lb			*9,610	*9,610	*9,560	9,310	*9,020	5,940			*7,150	5,500	20.9 ft
	3.0 m	kg			*7,380	*7,380	*5,250	4,120	4,370	2,690			*3,240	2,150	6.93 m
	10 ft	lb			*15,820	*15,820	*11,370	8,900	9,410	5,800			*7,150	4,770	22.7 ft
	1.5 m	kg					*6,230	3,890	4,260	2,600			3,340	2,040	7.08 m
	5 ft	lb					*13,500	8,400	9,190	5,600			7,370	4,510	23.2 ft
	0 m	kg			*6,070	*6,070	6,410	3,730	4,180	2,520			3,420	2,080	6.91 m
	0 ft	lb			*14,120	*14,120	13,790	8,050	9,000	5,440			7,550	4,590	22.7 ft
	-1.5 m	kg	*4,680	*4,680	*9,700	6,710	6,340	3,670	4,150	2,490			3,820	2,310	6.37 m
	-5 ft	lb	*10,540	*10,540	*21,050	14,420	13,640	7,920	8,950	5,390			8,450	5,110	20.9 ft
	-3.0 m	kg	*9,140	*9,140	*7,770	6,810	*5,350	3,710					*4,080	2,950	5.36 m
	-10 ft	lb	*20,680	*20,680	*16,750	14,640	*11,440	8,020					*8,970	6,580	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	Along UC	Across UC	
Boom 4.6 m (15‘1“) Arm 2.5 m (8‘2“) Shoe 700 mm (28 in) Undercarriage LC Counterweight 3,500 kg (7,720 lb) Dozer with dozer blade down	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
	6.0 m	kg					*4,110	*4,110					*3,470	3,460	5.44 m
	20 ft	lb					*9,110	*9,110					*7,710	*7,710	17.6 ft
	4.5 m	kg			*4,360	*4,360	*4,380	*4,380	*4,110	2,960			*3,240	2,650	6.41 m
	15 ft	lb			*9,610	*9,610	*9,560	*9,560	*9,020	6,370			*7,150	5,900	20.9 ft
	3.0 m	kg			*7,380	*7,380	*5,250	4,440	*4,380	2,890			*3,240	2,320	6.93 m
	10 ft	lb			*15,820	*15,820	*11,370	9,570	*9,550	6,230			*7,150	5,130	22.7 ft
	1.5 m	kg					*6,230	4,200	*4,760	2,790			*3,430	2,200	7.08 m
	5 ft	lb					*13,500	9,070	*10,340	6,030			*7,570	4,850	23.2 ft
	0 m	kg			*6,070	*6,070	*6,760	4,040	*4,960	2,710			*3,860	2,240	6.91 m
	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	*9,700	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 4.6 m (15‘1“) Arm 3.0 m (9‘10“) Shoe 500 mm (20 in) Undercarriage LC Counterweight 3,200 kg (7,060 lb) Dozer without dozer blade	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	2,470			*2,870	2,430	6.05 m
	20 ft	lb					*7,840	*7,840					*6,380	5,470	19.6 ft
	4.5 m	kg					*3,860	*3,860	*3,730	2,470			*2,710	1,920	6.94 m
	15 ft	lb					*8,430	*8,430	*8,200	5,300			*5,980	4,270	22.6 ft
	3.0 m	kg			*5,650	*5,650	*4,760	3,710	3,820	2,380			*2,710	1,680	7.41 m
	10 ft	lb			*11,860	*11,860	*10,320	8,010	8,220	5,130			*5,970	3,730	24.3 ft
	1.5 m	kg					5,780	3,460	3,690	2,270	2,630	1,610	2,600	1,590	7.56 m
	5 ft	lb					12,430	7,460	7,960	4,900			5,740	3,520	24.8 ft
	0 m	kg			*6,630	5,900	5,550	3,260	3,590	2,170			2,650	1,610	7.39 m
	0 ft	lb			*15,410	12,700	11,930	7,020	7,730	4,690			5,840	3,560	24.3 ft
	-1.5 m	kg	*4,130	*4,130	*8,960	5,800	5,440	3,160	3,530	2,120			2,910	1,760	6.89 m
	-5 ft	lb	*9,290	*9,290	*20,600	12,470	11,700	6,820	7,620	4,580			6,430	3,900	22.6 ft
	-3.0 m	kg	*7,560	*7,560	*8,600	5,860	5,450	3,170					3,580	2,160	5.98 m
	-10 ft	lb	*17,070	*17,070	*18,560	12,600	11,720	6,840					7,980	4,820	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 4.6 m (15‘1“) Arm 3.0 m (9‘10“) Shoe 500 mm (20 in) Undercarriage LC Counterweight 3,200 kg (7,060 lb) Dozer with dozer blade up	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	2,610			*2,870	2,570	6.05 m
	20 ft	lb					*7,840	*7,840					*6,380	5,780	19.6 ft
	4.5 m	kg					*3,860	*3,860	*3,730	2,610			*2,710	2,040	6.94 m
	15 ft	lb					*8,430	*8,430	*8,200	5,610			*5,980	4,530	22.6 ft
	3.0 m	kg			*5,650	*5,650	*4,760	3,920	*4,080	2,520			*2,710	1,790	7.41 m
	10 ft	lb			*11,860	*11,860	*10,320	8,450	8,880	5,440			*5,970	3,970	24.3 ft
	1.5 m	kg					*5,860	3,660	4,000	2,410	2,860	1,720	2,830	1,700	7.56 m
	5 ft	lb					*12,690	7,900	8,620	5,200			6,240	3,760	24.8 ft
	0 m	kg			*6,630	6,260	6,010	3,460	3,890	2,310			2,880	1,720	7.39 m
	0 ft	lb			*15,410	13,480	12,920	7,460	8,390	5,000			6,360	3,800	24.3 ft
	-1.5 m	kg	*4,130	*4,130	*8,960	6,160	5,900	3,360	3,840	2,260			3,160	1,880	6.89 m
	-5 ft	lb	*9,290	*9,290	*20,600	13,250	12,690	7,260	8,280	4,890			6,990	4,160	22.6 ft
	-3.0 m	kg	*7,560	*7,560	*8,600	6,220	*5,840	3,370					*3,880	2,310	5.98 m
	-10 ft	lb	*17,070	*17,070	*18,560	13,380	*12,560	7,280					*8,550	5,140	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 4.6 m (15‘1“) Arm 3.0 m (9‘10“) Shoe 500 mm (20 in) Undercarriage LC Counterweight 3,200 kg (7,060 lb) Dozer with dozer blade down	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	2,800			*2,870	2,760	6.05 m
	20 ft	lb					*7,840	*7,840					*6,380	6,210	19.6 ft
	4.5 m	kg					*3,860	*3,860	*3,730	2,800			*2,710	2,190	6.94 m
	15 ft	lb					*8,430	*8,430	*8,200	6,020			*5,980	4,880	22.6 ft
	3.0 m	kg			*5,650	*5,650	*4,760	4,220	*4,080	2,710			*2,710	1,930	7.41 m
	10 ft	lb			*11,860	*11,860	*10,320	9,090	*8,890	5,850			*5,970	4,280	24.3 ft
	1.5 m	kg					*5,860	3,950	*4,540	2,600	*3,100	1,860	*2,850	1,840	7.56 m
	5 ft	lb					*12,690	8,530	*9,870	5,610			*6,280	4,050	24.8 ft
	0 m	kg			*6,630	*6,630	*6,600	3,750	*4,860	2,500			*3,160	1,860	7.39 m
	0 ft	lb			*15,410	14,800	*14,300	8,090	*10,550	5,400			*6,960	4,110	24.3 ft
	-1.5 m	kg	*4,130	*4,130	*8,960	6,780	*6,650	3,650	*4,800	2,450			*3,760	2,040	6.89 m
	-5 ft	lb	*9,290	*9,290	*20,600	14,560	*14,400	7,880	*10,370	5,290			*8,320	4,500	22.6 ft
	-3.0 m	kg	*7,560	*7,560	*8,600	6,840	*5,840	3,660					*3,880	2,490	5.98 m
	-10 ft	lb	*17,070	*17,070	*18,560	14,690	*12,560	7,900					*8,550	5,550	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.

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	Along UC	Across UC	
Boom 4.6 m (15‘1“) Arm 3.0 m (9‘10“) Shoe 500 mm (20 in) Undercarriage LC Counterweight 3,500 kg (7,720 lb) Dozer without dozer blade	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
	20 ft	lb					*7,840	*7,840					*6,380	5,690	19.6 ft
	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	kg			*5,650	*5,650	*4,760	3,860	3,950	2,480			*2,710	1,760	7.41 m
	10 ft	lb			*11,860	*11,860	*10,320	8,320	8,500	5,350			*5,970	3,900	24.3 ft
	1.5 m	kg					*5,860	3,600	3,830	2,370	2,730	1,690	2,700	1,670	7.56 m
	5 ft	lb					*12,690	7,770	8,240	5,110			5,950	3,690	24.8 ft
	0 m	kg			*6,630	6,160	5,740	3,400	3,720	2,270			2,750	1,690	7.39 m
	0 ft	lb			*15,410	13,250	12,360	7,340	8,020	4,910			6,060	3,730	24.3 ft
	-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
	-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 4.6 m (15‘1“) Arm 3.0 m (9‘10“) Shoe 500 mm (20 in) Undercarriage LC Counterweight 3,500 kg (7,720 lb) Dozer with dozer blade up	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
	20 ft	lb					*7,840	*7,840					*6,380	6,010	19.6 ft
	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	kg			*5,650	*5,650	*4,760	4,060	*4,080	2,620			*2,710	1,870	7.41 m
	10 ft	lb			*11,860	*11,860	*10,320	8,760	*8,890	5,660			*5,970	4,140	24.3 ft
	1.5 m	kg					*5,860	3,800	4,130	2,510	2,960	1,800	*2,850	1,780	7.56 m
	5 ft	lb					*12,690	8,210	8,910	5,420			*6,280	3,920	24.8 ft
	0 m	kg			*6,630	6,520	6,210	3,600	4,030	2,410			2,980	1,800	7.39 m
	0 ft	lb			*15,410	14,030	13,350	7,770	8,680	5,210			6,580	3,970	24.3 ft
	-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
	-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 4.6 m (15‘1“) Arm 3.0 m (9‘10“) Shoe 500 mm (20 in) Undercarriage LC Counterweight 3,500 kg (7,720 lb) Dozer with dozer blade down	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
	20 ft	lb					*7,840	*7,840					*6,380	6,010	19.6 ft
	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	kg			*5,650	*5,650	*4,760	4,370	*4,080	2,820			*2,710	2,020	7.41 m
	10 ft	lb			*11,860	*11,860	*10,320	8,760	*8,890	5,660			*5,970	4,140	24.3 ft
	1.5 m	kg					*5,860	4,100	*4,540	2,700	*3,100	1,940	*2,850	1,920	7.56 m
	5 ft	lb					*12,690	8,210	8,910	5,420			*6,280	3,920	24.8 ft
	0 m	kg			*6,630	*6,630	*6,600	3,900	*4,860	2,610			*3,160	1,940	7.39 m
	0 ft	lb			*15,410	14,030	13,350	7,770	8,680	5,210			6,580	3,970	24.3 ft
	-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
	-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 4.6 m (15‘1“) Arm 3.0 m (9‘10“) Shoe 600 mm (24 in) Undercarriage LC Counterweight 3,200 kg (7,060 lb) Dozer without dozer blade	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
	20 ft	lb					*7,840	*7,840					*6,380	5,540	19.6 ft
	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	kg			*5,650	*5,650	*4,760	3,760	3,870	2,410			*2,710	1,710	7.41 m
	10 ft	lb			*11,860	*11,860	*10,320	8,110	8,330	5,200			*5,970	3,790	24.3 ft
	1.5 m	kg					5,860	3,500	3,750	2,300	2,670	1,640	2,640	1,620	7.56 m
	5 ft	lb					12,600	7,560	8,070	4,970			5,820	3,570	24.8 ft
	0 m	kg			*6,630	5,980	5,630	3,300	3,640	2,200			2,690	1,640	7.39 m
	0 ft	lb			*15,410	12,880	12,100	7,120	7,850	4,760			5,930	3,610	24.3 ft
	-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
	-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	Along UC	Across UC	Along UC	Across UC	Along UC	Across UC	Along UC	Across UC	Along UC	Across UC	
Boom 4.6 m (15‘1“) Arm 3.0 m (9‘10“) Shoe 600 mm (24 in) Undercarriage LC Counterweight 3,200 kg (7,060 lb) Dozer with dozer blade up	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	2,640			*2,870	2,600	6.05 m
	20 ft	lb					*7,840	*7,840					*6,380	5,860	19.6 ft
	4.5 m	kg					*3,860	*3,860	*3,730	2,640			*2,710	2,070	6.94 m
	15 ft	lb					*8,430	*8,430	*8,200	5,680			*5,980	4,600	22.6 ft
	3.0 m	kg			*5,650	*5,650	*4,760	3,960	*4,080	2,560			*2,710	1,820	7.41 m
	10 ft	lb			*11,860	*11,860	*10,320	8,550	*8,890	5,510			*5,970	4,030	24.3 ft
	1.5 m	kg					*5,860	3,710	4,060	2,440	2,900	1,750	*2,850	1,730	7.56 m
	5 ft	lb					*12,690	8,000	8,740	5,280			*6,280	3,810	24.8 ft
	0 m	kg			*6,630	6,350	6,090	3,510	3,950	2,350			2,920	1,750	7.39 m
	0 ft	lb			*15,410	13,660	13,110	7,570	8,510	5,070			6,450	3,860	24.3 ft
	-1.5 m	kg	*4,130	*4,130	*8,960	6,250	5,980	3,410	3,890	2,300			3,210	1,910	6.89 m
	-5 ft	lb	*9,290	*9,290	*20,600	13,430	12,870	7,360	8,400	4,960			7,100	4,230	22.6 ft
	-3.0 m	kg	*7,560	*7,560	*8,600	6,310	*5,840	3,420					*3,880	2,340	5.98 m
	-10 ft	lb	*17,070	*17,070	*18,560	13,560	*12,560	7,390					*8,550	5,210	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 4.6 m (15‘1“) Arm 3.0 m (9‘10“) Shoe 600 mm (24 in) Undercarriage LC Counterweight 3,200 kg (7,060 lb) Dozer with dozer blade down	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	2,830			*2,870	2,790	6.05 m
	20 ft	lb					*7,840	*7,840					*6,380	6,290	19.6 ft
	4.5 m	kg					*3,860	*3,860	*3,730	2,830			*2,710	2,220	6.94 m
	15 ft	lb					*8,430	*8,430	*8,200	6,100			*5,980	4,940	22.6 ft
	3.0 m	kg			*5,650	*5,650	*4,760	4,270	*4,080	2,750			*2,710	1,960	7.41 m
	10 ft	lb			*11,860	*11,860	*10,320	9,210	*8,890	5,930			*5,970	4,340	24.3 ft
	1.5 m	kg					*5,860	4,010	*4,540	2,640	*3,100	1,890	*2,850	1,860	7.56 m
	5 ft	lb					*12,690	8,640	*9,870	5,690			*6,280	4,110	24.8 ft
	0 m	kg			*6,630	*6,630	*6,600	3,800	*4,860	2,540			*3,160	1,890	7.39 m
	0 ft	lb			*15,410	15,000	*14,300	8,200	*10,550	5,480			*6,960	4,170	24.3 ft
	-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 4.6 m (15‘1“) Arm 3.0 m (9‘10“) Shoe 600 mm (24 in) Undercarriage LC Counterweight 3,500 kg (7,720 lb) Dozer without dozer blade	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	2,600			*2,870	2,560	6.05 m
	20 ft	lb					*7,840	*7,840					*6,380	5,760	19.6 ft
	4.5 m	kg					*3,860	*3,860	*3,730	2,600			*2,710	2,030	6.94 m
	15 ft	lb					*8,430	*8,430	*8,200	5,590			*5,980	4,520	22.6 ft
	3.0 m	kg			*5,650	*5,650	*4,760	3,900	4,000	2,510			*2,710	1,790	7.41 m
	10 ft	lb			*11,860	*11,860	*10,320	8,420	8,620	5,420			*5,970	3,960	24.3 ft
	1.5 m	kg					*5,860	3,650	3,880	2,400	2,770	1,710	2,740	1,690	7.56 m
	5 ft	lb					*12,690	7,870	8,360	5,180			6,040	3,740	24.8 ft
	0 m	kg			*6,630	6,240	5,830	3,450	3,770	2,310			2,790	1,710	7.39 m
	0 ft	lb			*15,410	13,430	12,530	7,430	8,130	4,980			6,150	3,790	24.3 ft
	-1.5 m	kg	*4,130	*4,130	*8,960	6,140	5,720	3,350	3,720	2,250			3,060	1,870	6.89 m
	-5 ft	lb	*9,290	*9,290	*20,600	13,200	12,300	7,230	8,020	4,870			6,770	4,150	22.6 ft
	-3.0 m	kg	*7,560	*7,560	*8,600	6,200	5,730	3,360					3,770	2,300	5.98 m
	-10 ft	lb	*17,070	*17,070	*18,560	13,330	12,320	7,250					8,400	5,120	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 4.6 m (15‘1“) Arm 3.0 m (9‘10“) Shoe 600 mm (24 in) Undercarriage LC Counterweight 3,500 kg (7,720 lb) Dozer with dozer blade up	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	2,740			*2,870	2,700	6.05 m
	20 ft	lb					*7,840	*7,840					*6,380	6,080	19.6 ft
	4.5 m	kg					*3,860	*3,860	*3,730	2,740			*2,710	2,150	6.94 m
	15 ft	lb					*8,430	*8,430	*8,200	5,900			*5,980	4,780	22.6 ft
	3.0 m	kg			*5,650	*5,650	*4,760	4,110	*4,080	2,660			*2,710	1,900	7.41 m
	10 ft	lb			*11,860	*11,860	*10,320	8,860	*8,890	5,730			*5,970	4,200	24.3 ft
	1.5 m	kg					*5,860	3,850	4,190	2,540	3,000	1,820	*2,850	1,800	7.56 m
	5 ft	lb					*12,690	8,310	9,030	5,490			*6,280	3,980	24.8 ft
	0 m	kg			*6,630	6,600	6,290	3,650	4,080	2,450			3,020	1,830	7.39 m
	0 ft	lb			*15,410	14,210	13,530	7,880	8,800	5,280			6,670	4,030	24.3 ft
	-1.5 m	kg	*4,130	*4,130	*8,960	6,500	6,180	3,560	4,030	2,400			3,320	2,000	6.89 m
	-5 ft	lb	*9,290	*9,290	*20,600	13,980	13,300	7,670	8,680	5,180			7,340	4,410	22.6 ft
	-3.0 m	kg	*7,560	*7,560	*8,600	6,560	*5,840	3,570					*3,880	2,440	5.98 m
	-10 ft	lb	*17,070	*17,070	*18,560	14,110	*12,560	7,700					*8,550	5,440	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.

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	Along UC	Across UC	
Boom 4.6 m (15‘1“) Arm 3.0 m (9‘10“) Shoe 600 mm (24 in) Undercarriage LC Counterweight 3,500 kg (7,720 lb) Dozer with dozer blade down	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	2,940			*2,870	*2,870	6.05 m
	20 ft	lb					*7,840	*7,840					*6,380	*6,380	19.6 ft
	4.5 m	kg					*3,860	*3,860	*3,730	2,940			*2,710	2,310	6.94 m
	15 ft	lb					*8,430	*8,430	*8,200	6,320			*5,980	5,140	22.6 ft
	3.0 m	kg			*5,650	*5,650	*4,760	4,420	*4,080	2,850			*2,710	2,040	7.41 m
	10 ft	lb			*11,860	*11,860	*10,320	9,530	*8,890	6,150			*5,970	4,520	24.3 ft
	1.5 m	kg					*5,860	4,160	*4,540	2,740	*3,100	1,970	*2,850	1,940	7.56 m
	5 ft	lb					*12,690	8,970	*9,870	5,910			*6,280	4,290	24.8 ft
	0 m	kg			*6,630	*6,630	*6,600	3,950	*4,860	2,640			*3,160	1,970	7.39 m
	0 ft	lb			*15,410	*15,410	*14,300	8,530	*10,550	5,700			*6,960	4,350	24.3 ft
	-1.5 m	kg	*4,130	*4,130	*8,960	7,140	*6,650	3,860	*4,800	2,590			*3,760	2,150	6.89 m
	-5 ft	lb	*9,290	*9,290	*20,600	15,350	*14,400	8,320	*10,370	5,590			*8,320	4,760	22.6 ft
	-3.0 m	kg	*7,560	*7,560	*8,600	7,200	*5,840	3,870					*3,880	2,630	5.98 m
	-10 ft	lb	*17,070	*17,070	*18,560	15,480	*12,560	8,340					*8,550	5,870	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 4.6 m (15‘1“) Arm 3.0 m (9‘10“) Shoe 700 mm (28 in) Undercarriage LC Counterweight 3,200 kg (7,060 lb) Dozer without dozer blade	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	2,540			*2,870	2,510	6.05 m
	20 ft	lb					*7,840	*7,840					*6,380	5,640	19.6 ft
	4.5 m	kg					*3,860	*3,860	*3,730	2,540			*2,710	1,980	6.94 m
	15 ft	lb					*8,430	*8,430	*8,200	5,470			*5,980	4,410	22.6 ft
	3.0 m	kg			*5,650	*5,650	*4,760	3,820	3,950	2,460			*2,710	1,740	7.41 m
	10 ft	lb			*11,860	*11,860	*10,320	8,250	8,500	5,300			*5,970	3,860	24.3 ft
	1.5 m	kg					*5,860	3,570	3,820	2,350	2,730	1,670	2,690	1,650	7.56 m
	5 ft	lb					*12,690	7,700	8,240	5,060			5,950	3,650	24.8 ft
	0 m	kg			*6,630	6,100	5,740	3,370	3,720	2,250			2,740	1,670	7.39 m
	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 4.6 m (15‘1“) Arm 3.0 m (9‘10“) Shoe 700 mm (28 in) Undercarriage LC Counterweight 3,200 kg (7,060 lb) Dozer with dozer blade up	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	2,690			*2,870	2,650	6.05 m
	20 ft	lb					*7,840	*7,840					*6,380	5,960	19.6 ft
	4.5 m	kg					*3,860	*3,860	*3,730	2,690			*2,710	2,100	6.94 m
	15 ft	lb					*8,430	*8,430	*8,200	5,780			*5,980	4,680	22.6 ft
	3.0 m	kg			*5,650	*5,650	*4,760	4,030	*4,080	2,600			*2,710	1,860	7.41 m
	10 ft	lb			*11,860	*11,860	*10,320	8,690	*8,890	5,610			*5,970	4,110	24.3 ft
	1.5 m	kg					*5,860	3,770	4,130	2,490	2,960	1,780	*2,850	1,760	7.56 m
	5 ft	lb					*12,690	8,140	8,900	5,370			*6,280	3,890	24.8 ft
	0 m	kg			*6,630	6,470	6,200	3,570	4,020	2,390			2,980	1,780	7.39 m
	0 ft	lb			*15,410	13,910	13,340	7,710	8,670	5,170			6,570	3,940	24.3 ft
	-1.5 m	kg	*4,130	*4,130	*8,960	6,370	6,090	3,480	3,970	2,340			3,270	1,950	6.89 m
	-5 ft	lb	*9,290	*9,290	*20,600	13,680	13,110	7,500	8,560	5,060			7,230	4,310	22.6 ft
	-3.0 m	kg	*7,560	*7,560	*8,600	6,420	*5,840	3,490					*3,880	2,390	5.98 m
	-10 ft	lb	*17,070	*17,070	*18,560	13,810	*12,560	7,530					*8,550	5,310	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 4.6 m (15‘1“) Arm 3.0 m (9‘10“) Shoe 700 mm (28 in) Undercarriage LC Counterweight 3,200 kg (7,060 lb) Dozer with dozer blade down	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	2,880			*2,870	2,840	6.05 m
	20 ft	lb					*7,840	*7,840					*6,380	*6,380	19.6 ft
	4.5 m	kg					*3,860	*3,860	*3,730	2,880			*2,710	2,260	6.94 m
	15 ft	lb					*8,430	*8,430	*8,200	6,200			*5,980	5,030	22.6 ft
	3.0 m	kg			*5,650	*5,650	*4,760	4,340	*4,080	2,800			*2,710	2,000	7.41 m
	10 ft	lb			*11,860	*11,860	*10,320	9,360	*8,890	6,030			*5,970	4,430	24.3 ft
	1.5 m	kg					*5,860	4,080	*4,540	2,680	*3,100	1,920	*2,850	1,900	7.56 m
	5 ft	lb					*12,690	8,800	*9,870	5,790			*6,280	4,200	24.8 ft
	0 m	kg			*6,630	*6,630	*6,600	3,870	*4,860	2,590			*3,160	1,930	7.39 m
	0 ft	lb			*15,410	15,270	*14,300	8,350	*10,550	5,580			*6,960	4,250	24.3 ft
	-1.5 m	kg	*4,130	*4,130	*8,960	7,000	*6,650	3,780	*4,800	2,540			*3,760	2,110	6.89 m
	-5 ft	lb	*9,290	*9,290	*20,600	15,040	*14,400	8,150	*10,370	5,480			*8,320	4,660	22.6 ft
	-3.0 m	kg	*7,560	*7,560	*8,600	7,060	*5,840	3,790					*3,880	2,580	5.98 m
	-10 ft	lb	*17,070	*17,070	*18,560	15,170	*12,560	8,170					*8,550	5,740	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	Along UC	Across UC	Along UC	Across UC	Along UC	Across UC	Along UC	Across UC	Along UC	Across UC	
Boom 4.6 m (15‘1“) Arm 3.0 m (9‘10“) Shoe 700 mm (28 in) Undercarriage LC Counterweight 3,500 kg (7,720 lb) Dozer without dozer blade	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	2,640			*2,870	2,600	6.05 m
	20 ft	lb					*7,840	*7,840					*6,380	5,860	19.6 ft
	4.5 m	kg					*3,860	*3,860	*3,730	2,640			*2,710	2,070	6.94 m
	15 ft	lb					*8,430	*8,430	*8,200	5,690			*5,980	4,600	22.6 ft
	3.0 m	kg			*5,650	*5,650	*4,760	3,970	*4,080	2,560			*2,710	1,820	7.41 m
	10 ft	lb			*11,860	*11,860	*10,320	8,560	8,780	5,520			*5,970	4,030	24.3 ft
	1.5 m	kg					*5,860	3,710	3,950	2,450	2,820	1,750	2,790	1,730	7.56 m
	5 ft	lb					*12,690	8,010	8,520	5,280			6,160	3,820	24.8 ft
	0 m	kg			*6,630	6,360	5,940	3,510	3,850	2,350			2,850	1,750	7.39 m
	0 ft	lb			*15,410	13,670	12,780	7,570	8,290	5,070			6,280	3,860	24.3 ft
	-1.5 m	kg	*4,130	*4,130	*8,960	6,260	5,830	3,420	3,790	2,300			3,120	1,910	6.89 m
	-5 ft	lb	*9,290	*9,290	*20,600	13,450	12,540	7,370	8,180	4,970			6,910	4,230	22.6 ft
	-3.0 m	kg	*7,560	*7,560	*8,600	6,310	*5,840	3,420					3,850	2,340	5.98 m
	-10 ft	lb	*17,070	*17,070	*18,560	13,580	*12,560	7,390					*8,550	5,220	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 4.6 m (15‘1“) Arm 3.0 m (9‘10“) Shoe 700 mm (28 in) Undercarriage LC Counterweight 3,500 kg (7,720 lb) Dozer with dozer blade up	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	2,790			*2,870	2,750	6.05 m
	20 ft	lb					*7,840	*7,840					*6,380	6,180	19.6 ft
	4.5 m	kg					*3,860	*3,860	*3,730	2,790			*2,710	2,190	6.94 m
	15 ft	lb					*8,430	*8,430	*8,200	6,000			*5,980	4,870	22.6 ft
	3.0 m	kg			*5,650	*5,650	*4,760	4,170	*4,080	2,700			*2,710	1,930	7.41 m
	10 ft	lb			*11,860	*11,860	*10,320	9,010	*8,890	5,830			*5,970	4,280	24.3 ft
	1.5 m	kg					*5,860	3,920	4,260	2,590	3,050	1,860	*2,850	1,840	7.56 m
	5 ft	lb					*12,690	8,450	9,190	5,590			*6,280	4,060	24.8 ft
	0 m	kg			*6,630	*6,630	6,400	3,720	4,150	2,490			3,080	1,860	7.39 m
	0 ft	lb			*15,410	14,460	13,770	8,020	8,960	5,380			6,800	4,110	24.3 ft
	-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 4.6 m (15‘1“) Arm 3.0 m (9‘10“) Shoe 700 mm (28 in) Undercarriage LC Counterweight 3,500 kg (7,720 lb) Dozer with dozer blade down	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	2,990			*2,870	*2,870	6.05 m
	20 ft	lb					*7,840	*7,840					*6,380	*6,380	19.6 ft
	4.5 m	kg					*3,860	*3,860	*3,730	2,990			*2,710	2,350	6.94 m
	15 ft	lb					*8,430	*8,430	*8,200	6,430			*5,980	5,230	22.6 ft
	3.0 m	kg			*5,650	*5,650	*4,760	4,490	*4,080	2,900			*2,710	2,080	7.41 m
	10 ft	lb			*11,860	*11,860	*10,320	9,680	*8,890	6,260			*5,970	4,610	24.3 ft
	1.5 m	kg					*5,860	4,230	*4,540	2,790	*3,100	2,000	*2,850	1,980	7.56 m
	5 ft	lb					*12,690	9,120	*9,870	6,020			*6,280	4,370	24.8 ft
	0 m	kg			*6,630	*6,630	*6,600	4,020	*4,860	2,690			*3,160	2,010	7.39 m
	0 ft	lb			*15,410	*15,410	*14,300	8,680	*10,550	5,810			*6,960	4,430	24.3 ft
	-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 4.72 m 2pcs (15‘6“) 2pcs Arm 2.1 m (6‘11“) Shoe 500 mm (20 in) Undercarriage LC Counterweight 3,200 kg (7,060 lb) Dozer without dozer blade	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
	6.0 m	kg			*5,310	*5,310	*5,440	3,900					*4,020	3,010	5.24 m
	20 ft	lb			*11,900	*11,900	*11,970	8,380					*8,950	6,830	16.9 ft
	4.5 m	kg			*5,440	*5,440	*5,640	3,830	3,880	2,420			3,620	2,250	6.24 m
	15 ft	lb			*11,880	*11,880	*12,280	8,260	8,330	5,190			*8,020	5,020	20.4 ft
	3.0 m	kg					6,000	3,620	3,810	2,360			3,150	1,950	6.77 m
	10 ft	lb					12,920	7,820	8,220	5,090			6,970	4,310	22.2 ft
	1.5 m	kg					5,740	3,400	3,720	2,270			3,000	1,840	6.93 m
	5 ft	lb					12,360	7,340	8,010	4,900			6,620	4,060	22.7 ft
	0 m	kg					5,590	3,260	3,640	2,200			3,090	1,880	6.75 m
	0 ft	lb					12,030	7,040	7,860	4,760			6,820	4,160	22.1 ft
	-1.5 m	kg			*7,200	5,960	*5,520	3,240	3,640	2,200			*3,300	2,120	6.2 m
	-5 ft	lb			*15,710	12,810	*11,930	6,990	*7,680	4,770			*7,250	4,690	20.3 ft
Boom 4.72 m 2pcs (15‘6“) 2pcs Arm 2.1 m (6‘11“) Shoe 500 mm (20 in) Undercarriage LC Counterweight 3,200 kg (7,060 lb) Dozer with dozer blade up	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
	6.0 m	kg			*5,310	*5,310	*5,440	4,110					*4,020	3,180	5.24 m
	20 ft	lb			*11,900	*11,900	*11,970	8,820					*8,950	7,210	16.9 ft
	4.5 m	kg			*5,440	*5,440	*5,640	4,030	4,190	2,560			*3,630	2,390	6.24 m
	15 ft	lb			*11,880	*11,880	*12,280	8,690	8,990	5,500			*8,020	5,320	20.4 ft
	3.0 m	kg					*6,290	3,820	4,120	2,500			3,410	2,070	6.77 m
	10 ft	lb					*13,620	8,260	8,880	5,390			7,550	4,580	22.2 ft
	1.5 m	kg					6,200	3,600	4,020	2,410			3,260	1,960	6.93 m
	5 ft	lb					13,360	7,770	8,670	5,210			7,180	4,320	22.7 ft
	0 m	kg					6,050	3,470	3,950	2,350			3,350	2,010	6.75 m
	0 ft	lb					13,020	7,480	8,520	5,070			7,390	4,430	22.1 ft
	-1.5 m	kg			*7,200	6,320	*5,520	3,440	*3,680	2,340			*3,300	2,260	6.2 m
	-5 ft	lb			*15,710	13,590	*11,930	7,420	*7,680	5,080			*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	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	4,420					*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	0 m	kg					*6,580	3,760	*4,730	2,540			*3,810	2,170	6.75 m
blade down	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	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	4,050					*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	0 m	kg					5,790	3,410	3,780	2,300			3,200	1,970	6.75 m
blade	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	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	4,250					*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	0 m	kg					6,250	3,610	4,080	2,450			3,460	2,090	6.75 m
blade up	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	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	4,570					*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	0 m	kg					*6,580	3,910	*4,730	2,640			*3,810	2,260	6.75 m
blade down	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	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	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	0 m	kg					5,670	3,310	3,700	2,240			3,130	1,910	6.75 m
blade	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	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	20 ft	lb			*11,900	*11,900	*11,970	8,930					*8,950	7,290	16.9 ft
2.1 m (6‘11“)	4.5 m	kg			*5,440	*5,440	*5,640	4,080	4,240	2,590			*3,630	2,420	6.24 m
Shoe	15 ft	lb			*11,880	*11,880	*12,280	8,800	9,120	5,570			*8,020	5,390	20.4 ft
600 mm (24 in)	3.0 m	kg					*6,290	3,870	4,180	2,530			3,460	2,100	6.77 m
Undercarriage LC	10 ft	lb					*13,620	8,360	9,000	5,470			7,660	4,640	22.2 ft
Counterweight	1.5 m	kg					6,290	3,650	4,080	2,440			3,300	1,990	6.93 m
3,200 kg (7,060 lb)	5 ft	lb					13,540	7,880	8,790	5,280			7,280	4,390	22.7 ft
Dozer with dozer	0 m	kg					6,130	3,510	4,010	2,380			3,400	2,040	6.75 m
blade up	0 ft	lb					13,200	7,590	8,640	5,140			7,500	4,490	22.1 ft
	-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	20 ft	lb			*11,900	*11,900	*11,970	9,600					*8,950	7,840	16.9 ft
2.1 m (6‘11“)	4.5 m	kg			*5,440	*5,440	*5,640	4,390	*4,780	2,790			*3,630	2,600	6.24 m
Shoe	15 ft	lb			*11,880	*11,880	*12,280	9,460	*9,630	5,990			*8,020	5,800	20.4 ft
600 mm (24 in)	3.0 m	kg					*6,290	4,180	*4,890	2,730			*3,550	2,260	6.77 m
Undercarriage LC	10 ft	lb					*13,620	9,020	*10,630	5,880			*7,830	5,000	22.2 ft
Counterweight	1.5 m	kg					*6,780	3,950	*4,980	2,640			*3,690	2,140	6.93 m
3,200 kg (7,060 lb)	5 ft	lb					*14,700	8,530	*10,800	5,690			*8,120	4,730	22.7 ft
Dozer with dozer	0 m	kg					*6,580	3,810	*4,730	2,570			*3,810	2,200	6.75 m
blade down	0 ft	lb					*14,280	8,230	*10,210	5,560			*8,410	4,850	22.1 ft
	-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	20 ft	lb			*11,900	*11,900	*11,970	8,790					*8,950	7,180	16.9 ft
2.1 m (6‘11“)	4.5 m	kg			*5,440	*5,440	*5,640	4,020	4,070	2,550			*3,630	2,380	6.24 m
Shoe	15 ft	lb			*11,880	*11,880	*12,280	8,670	8,730	5,480			*8,020	5,300	20.4 ft
600 mm (24 in)	3.0 m	kg					6,280	3,810	4,000	2,490			3,310	2,060	6.77 m
Undercarriage LC	10 ft	lb					13,520	8,230	8,620	5,370			7,320	4,560	22.2 ft
Counterweight	1.5 m	kg					6,020	3,590	3,900	2,400			3,150	1,950	6.93 m
3,500 kg (7,720 lb)	5 ft	lb					12,960	7,750	8,410	5,190			6,960	4,310	22.7 ft
Dozer without dozer	0 m	kg					5,870	3,450	3,830	2,340			3,250	2,000	6.75 m
blade	0 ft	lb					12,630	7,450	8,260	5,050			7,170	4,410	22.1 ft
	-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	20 ft	lb			**11,900**	**11,900**	**11,970**	**9,240**					**8,950**	**7,560**	**16.9 ft**
2.1 m (6‘11“)	4.5 m	kg			**5,440**	**5,440**	**5,640**	**4,220**	**4,380**	**2,690**			**3,630**	**2,520**	**6.24 m**
Shoe	15 ft	lb			**11,880**	**11,880**	**12,280**	**9,110**	**9,400**	**5,790**			**8,020**	**5,600**	**20.4 ft**
600 mm (24 in)	3.0 m	kg					**6,290**	**4,020**	**4,310**	**2,630**			**3,550**	**2,180**	**6.77 m**
Undercarriage LC	10 ft	lb					**13,620**	**8,670**	**9,280**	**5,680**			**7,830**	**4,830**	**22.2 ft**
Counterweight	1.5 m	kg					**6,490**	**3,790**	**4,210**	**2,540**			**3,410**	**2,070**	**6.93 m**
3,500 kg (7,720 lb)	5 ft	lb					**13,960**	**8,190**	**9,080**	**5,490**			**7,530**	**4,570**	**22.7 ft**
Dozer with dozer	0 m	kg					**6,330**	**3,660**	**4,140**	**2,480**			**3,510**	**2,120**	**6.75 m**
blade up	0 ft	lb					**13,630**	**7,900**	**8,930**	**5,360**			**7,750**	**4,680**	**22.1 ft**
	-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	20 ft	lb			*11,900	*11,900	*11,970	9,920					*8,950	8,120	16.9 ft
2.1 m (6‘11“)	4.5 m	kg			*5,440	*5,440	*5,640	4,540	*4,780	2,890			*3,630	2,700	6.24 m
Shoe	15 ft	lb			*11,880	*11,880	*12,280	9,790	*9,630	6,220			*8,020	6,020	20.4 ft
600 mm (24 in)	3.0 m	kg					*6,290	4,330	*4,890	2,830			*3,550	2,350	6.77 m
Undercarriage LC	10 ft	lb					*13,620	9,350	*10,630	6,110			*7,830	5,200	22.2 ft
Counterweight	1.5 m	kg					*6,780	4,100	*4,980	2,740			*3,690	2,230	6.93 m
3,500 kg (7,720 lb)	5 ft	lb					*14,700	8,850	*10,800	5,920			*8,120	4,930	22.7 ft
Dozer with dozer	0 m	kg					*6,580	3,960	*4,730	2,680			*3,810	2,290	6.75 m
blade down	0 ft	lb					*14,280	8,550	*10,210	5,780			*8,410	5,050	22.1 ft
	-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	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	4,020					*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	10 ft	lb					13,330	8,060	8,490	5,250			7,220	4,460	22.2 ft
Counterweight	1.5 m	kg					5,940	3,510	3,840	2,350			3,110	1,900	6.93 m
3,200 kg (7,060 lb)	5 ft	lb					12,780	7,580	8,290	5,070			6,860	4,200	22.7 ft
Dozer without dozer	0 m	kg					5,780	3,370	3,770	2,280			3,200	1,950	6.75 m
blade	0 ft	lb					12,440	7,280	8,140	4,930			7,060	4,310	22.1 ft
	-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	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	4,220					*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	10 ft	lb					*13,620	8,500	9,160	5,560			7,800	4,730	22.2 ft
Counterweight	1.5 m	kg					6,400	3,710	4,150	2,490			3,360	2,020	6.93 m
3,200 kg (7,060 lb)	5 ft	lb					13,770	8,020	8,950	5,380			7,420	4,470	22.7 ft
Dozer with dozer	0 m	kg					6,240	3,580	4,080	2,430			3,460	2,070	6.75 m
blade up	0 ft	lb					13,440	7,730	8,800	5,240			7,640	4,580	22.1 ft
	-1.5 m	kg			*7,200	6,520	*5,520	3,550	*3,680	2,420			*3,300	2,330	6.2 m
	-5 ft	lb			*15,710	14,020	*11,930	7,670	*7,680	5,250			*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	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	4,540					*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	10 ft	lb					*13,620	9,170	*10,630	5,990			*7,830	5,100	22.2 ft
Counterweight	1.5 m	kg					*6,780	4,020	*4,980	2,690			*3,690	2,190	6.93 m
3,200 kg (7,060 lb)	5 ft	lb					*14,700	8,680	*10,800	5,800			*8,120	4,820	22.7 ft
Dozer with dozer	0 m	kg					*6,580	3,880	*4,730	2,620			*3,810	2,240	6.75 m
blade down	0 ft	lb					*14,280	8,380	*10,210	5,660			*8,410	4,950	22.1 ft
	-1.5 m	kg			*7,200	7,170	*5,520	3,860	*3,680	2,620			*3,300	2,520	6.2 m
	-5 ft	lb			*15,710	15,400	*11,930	8,320	*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	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	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	10 ft	lb					*13,620	8,370	8,780	5,470			7,470	4,650	22.2 ft
Counterweight	1.5 m	kg					6,130	3,650	3,980	2,450			3,220	1,990	6.93 m
3,500 kg (7,720 lb)	5 ft	lb					13,210	7,890	8,570	5,280			7,100	4,390	22.7 ft
Dozer without dozer	0 m	kg					5,980	3,520	3,900	2,380			3,310	2,040	6.75 m
blade	0 ft	lb					12,870	7,590	8,420	5,150			7,310	4,500	22.1 ft
	-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	13,780	*11,930	7,540	*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	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	4,370					*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	10 ft	lb					*13,620	8,820	9,440	5,780			*7,830	4,920	22.2 ft
Counterweight	1.5 m	kg					6,600	3,860	4,280	2,590			3,470	2,110	6.93 m
3,500 kg (7,720 lb)	5 ft	lb					14,200	8,330	9,240	5,590			7,660	4,660	22.7 ft
Dozer with dozer	0 m	kg					6,440	3,720	4,210	2,530			3,580	2,160	6.75 m
blade up	0 ft	lb					13,860	8,040	9,090	5,460			7,890	4,770	22.1 ft
	-1.5 m	kg			*7,200	6,780	*5,520	3,700	*3,680	2,520			*3,300	2,430	6.2 m
	-5 ft	lb			*15,710	14,570	*11,930	7,980	*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	Along UC	Across UC	
Boom 4.72 m 2pcs (15‘6“) 2pcs Arm 2.1 m (6‘11“) Shoe 700 mm (28 in) Undercarriage LC Counterweight 3,500 kg (7,720 lb) Dozer with dozer blade down	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
	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
	4.5 m	kg			*5,440	*5,440	*5,640	4,610	*4,780	2,940			*3,630	2,750	6.24 m
	15 ft	lb			*11,880	*11,880	*12,280	9,940	*9,630	6,320			*8,020	6,120	20.4 ft
	3.0 m	kg					*6,290	4,400	*4,890	2,880			*3,550	2,390	6.77 m
	10 ft	lb					*13,620	9,500	*10,630	6,220			*7,830	5,300	22.2 ft
	1.5 m	kg					*6,780	4,170	*4,980	2,790			*3,690	2,270	6.93 m
	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
	0 ft	lb					*14,280	8,710	*10,210	5,890			*8,410	5,140	22.1 ft
	-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 4.72 m 2pcs (15‘6“) 2pcs Arm 2.5 m (8‘2“) Shoe 500 mm (20 in) Undercarriage LC Counterweight 3,200 kg (7,060 lb) Dozer without dozer blade	7.5 m	kg			*5,340	*5,340							*4,110	*4,110	4.09 m
	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
	4.5 m	kg			*4,030	*4,030	*4,850	3,880	3,920	2,450			*2,970	2,030	6.68 m
	15 ft	lb			*8,900	*8,900	*10,660	8,370	8,430	5,280			*6,570	4,530	21.8 ft
	3.0 m	kg					*6,030	3,670	3,830	2,370			2,890	1,780	7.17 m
	10 ft	lb					13,040	7,920	8,260	5,120			6,390	3,940	23.5 ft
	1.5 m	kg					5,770	3,420	3,720	2,270			2,760	1,690	7.32 m
	5 ft	lb					12,430	7,390	8,020	4,900			6,090	3,730	24.0 ft
	0 m	kg					5,580	3,260	3,630	2,190			2,830	1,720	7.15 m
	0 ft	lb					12,020	7,030	7,830	4,730			6,240	3,800	23.5 ft
	-1.5 m	kg			*8,070	5,880	5,520	3,200	3,600	2,160			3,140	1,910	6.63 m
	-5 ft	lb			*17,550	12,650	11,880	6,910	7,770	4,680			6,950	4,220	21.7 ft
	-3.0 m	kg			*5,270	*5,270	*3,990	3,250							5.67 m
	-10 ft	lb			*11,310	*11,310	*8,460	7,020							18.5 ft
Boom 4.72 m 2pcs (15‘6“) 2pcs Arm 2.5 m (8‘2“) Shoe 500 mm (20 in) Undercarriage LC Counterweight 3,200 kg (7,060 lb) Dozer with dozer blade up	7.5 m	kg			*5,340	*5,340							*4,110	*4,110	4.09 m
	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
	4.5 m	kg			*4,030	*4,030	*4,850	4,090	4,230	2,590			*2,970	2,160	6.68 m
	15 ft	lb			*8,900	*8,900	*10,660	8,810	9,090	5,580			*6,570	4,800	21.8 ft
	3.0 m	kg					*6,030	3,870	4,140	2,520			*2,910	1,890	7.17 m
	10 ft	lb					*13,070	8,350	8,920	5,430			*6,420	4,190	23.5 ft
	1.5 m	kg					6,230	3,620	4,030	2,410			3,000	1,800	7.32 m
	5 ft	lb					13,420	7,820	8,680	5,210			*6,610	3,970	24.0 ft
	0 m	kg					6,040	3,460	3,940	2,330			3,070	1,840	7.15 m
	0 ft	lb					13,010	7,460	8,490	5,040			6,780	4,050	23.5 ft
	-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 4.72 m 2pcs (15‘6“) 2pcs Arm 2.5 m (8‘2“) Shoe 500 mm (20 in) Undercarriage LC Counterweight 3,200 kg (7,060 lb) Dozer with dozer blade down	7.5 m	kg			*5,340	*5,340							*4,110	*4,110	4.09 m
	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
	4.5 m	kg			*4,030	*4,030	*4,850	4,390	*4,570	2,790			*2,970	2,320	6.68 m
	15 ft	lb			*8,900	*8,900	*10,660	9,470	*9,930	6,000			*6,570	5,170	21.8 ft
	3.0 m	kg					*6,030	4,170	*4,760	2,710			*2,910	2,040	7.17 m
	10 ft	lb					*13,070	9,010	*10,350	5,840			*6,420	4,520	23.5 ft
	1.5 m	kg					*6,670	3,920	*4,940	2,600			*3,010	1,940	7.32 m
	5 ft	lb					*14,450	8,470	*10,720	5,620			*6,610	4,290	24.0 ft
	0 m	kg					*6,680	3,750	*4,830	2,520			*3,270	1,980	7.15 m
	0 ft	lb					*14,490	8,100	*10,450	5,450			*7,200	4,380	23.5 ft
	-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 4.72 m 2pcs (15‘6“) 2pcs Arm 2.5 m (8‘2“) Shoe 500 mm (20 in) Undercarriage LC Counterweight 3,500 kg (7,720 lb) Dozer without dozer blade	7.5 m	kg			*5,340	*5,340							*4,110	*4,110	4.09 m
	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
	4.5 m	kg			*4,030	*4,030	*4,850	4,030	4,050	2,550			*2,970	2,120	6.68 m
	15 ft	lb			*8,900	*8,900	*10,660	8,680	8,710	5,490			*6,570	4,720	21.8 ft
	3.0 m	kg					*6,030	3,810	3,970	2,470			*2,910	1,860	7.17 m
	10 ft	lb					*13,070	8,230	8,540	5,340			*6,420	4,120	23.5 ft
	1.5 m	kg					5,970	3,560	3,850	2,370			2,860	1,770	7.32 m
	5 ft	lb					12,860	7,700	8,300	5,120			6,320	3,900	24.0 ft
	0 m	kg					5,780	3,400	3,760	2,290			2,930	1,800	7.15 m
	0 ft	lb					12,440	7,340	8,120	4,950			6,470	3,980	23.5 ft
	-1.5 m	kg			*8,070	6,140	5,720	3,350	3,740	2,260			*3,190	2,000	6.63 m
	-5 ft	lb			*17,550	13,200	12,310	7,220	8,060	4,900			*7,020	4,420	21.7 ft
	-3.0 m	kg			*5,270	*5,270	*3,990	3,390							5.67 m
	-10 ft	lb			*11,310	*11,310	*8,460	7,330							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	Along UC	Across UC	
Boom 4.72 m 2pcs (15‘6“) 2pcs Arm 2.5 m (8‘2“) Shoe 500 mm (20 in) Undercarriage LC Counterweight 3,500 kg (7,720 lb) Dozer with dozer blade up	7.5 m	kg			*5,340	*5,340							*4,110	*4,110	4.09 m
	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
	15 ft	lb			*8,900	*8,900	*10,660	9,120	9,380	5,800			*6,570	5,000	21.8 ft
	3.0 m	kg					*6,030	4,010	4,270	2,620			*2,910	1,980	7.17 m
	10 ft	lb					*13,070	8,670	9,210	5,640			*6,420	4,370	23.5 ft
	1.5 m	kg					6,430	3,770	4,160	2,510			*3,010	1,880	7.32 m
	5 ft	lb					13,850	8,130	8,970	5,420			*6,610	4,150	24.0 ft
	0 m	kg					6,240	3,600	4,070	2,430			3,180	1,920	7.15 m
	0 ft	lb					13,440	7,770	8,780	5,250			7,010	4,230	23.5 ft
	-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 4.72 m 2pcs (15‘6“) 2pcs Arm 2.5 m (8‘2“) Shoe 500 mm (20 in) Undercarriage LC Counterweight 3,500 kg (7,720 lb) Dozer with dozer blade down	7.5 m	kg			*5,340	*5,340							*4,110	*4,110	4.09 m
	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
	15 ft	lb			*8,900	*8,900	*10,660	9,790	*9,930	6,220			*6,570	5,370	21.8 ft
	3.0 m	kg					*6,030	4,320	*4,760	2,810			*2,910	2,130	7.17 m
	10 ft	lb					*13,070	9,330	*10,350	6,070			*6,420	4,710	23.5 ft
	1.5 m	kg					*6,670	4,070	*4,940	2,710			*3,010	2,030	7.32 m
	5 ft	lb					*14,450	8,790	*10,720	5,850			*6,610	4,470	24.0 ft
	0 m	kg					*6,680	3,900	*4,830	2,630			*3,270	2,070	7.15 m
	0 ft	lb					*14,490	8,430	*10,450	5,670			*7,200	4,570	23.5 ft
	-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 4.72 m 2pcs (15‘6“) 2pcs Arm 2.5 m (8‘2“) Shoe 600 mm (24 in) Undercarriage LC Counterweight 3,200 kg (7,060 lb) Dozer without dozer blade	7.5 m	kg			*5,340	*5,340							*4,110	*4,110	4.09 m
	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
	15 ft	lb			*8,900	*8,900	*10,660	8,470	8,540	5,340			*6,570	4,590	21.8 ft
	3.0 m	kg					*6,030	3,710	3,890	2,410			*2,910	1,810	7.17 m
	10 ft	lb					*13,070	8,020	8,370	5,190			*6,420	4,000	23.5 ft
	1.5 m	kg					5,850	3,470	3,770	2,300			2,800	1,710	7.32 m
	5 ft	lb					12,600	7,480	8,130	4,970			6,190	3,780	24.0 ft
	0 m	kg					5,660	3,300	3,680	2,220			2,870	1,750	7.15 m
	0 ft	lb					12,190	7,130	7,950	4,800			6,340	3,860	23.5 ft
	-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 4.72 m 2pcs (15‘6“) 2pcs Arm 2.5 m (8‘2“) Shoe 600 mm (24 in) Undercarriage LC Counterweight 3,200 kg (7,060 lb) Dozer with dozer blade up	7.5 m	kg			*5,340	*5,340							*4,110	*4,110	4.09 m
	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
	15 ft	lb			*8,900	*8,900	*10,660	8,910	9,210	5,650			*6,570	4,870	21.8 ft
	3.0 m	kg					*6,030	3,920	4,200	2,550			*2,910	1,920	7.17 m
	10 ft	lb					*13,070	8,460	9,040	5,500			*6,420	4,250	23.5 ft
	1.5 m	kg					6,320	3,670	4,080	2,450			*3,010	1,830	7.32 m
	5 ft	lb					13,600	7,930	8,800	5,280			*6,610	4,030	24.0 ft
	0 m	kg					6,130	3,510	3,990	2,370			3,120	1,860	7.15 m
	0 ft	lb					13,190	7,570	8,610	5,110			6,880	4,110	23.5 ft
	-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 4.72 m 2pcs (15‘6“) 2pcs Arm 2.5 m (8‘2“) Shoe 600 mm (24 in) Undercarriage LC Counterweight 3,200 kg (7,060 lb) Dozer with dozer blade down	7.5 m	kg			*5,340	*5,340							*4,110	*4,110	4.09 m
	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
	15 ft	lb			*8,900	*8,900	*10,660	9,580	*9,930	6,080			*6,570	5,240	21.8 ft
	3.0 m	kg					*6,030	4,230	*4,760	2,740			*2,910	2,070	7.17 m
	10 ft	lb					*13,070	9,120	*10,350	5,920			*6,420	4,590	23.5 ft
	1.5 m	kg					*6,670	3,970	*4,940	2,640			*3,010	1,970	7.32 m
	5 ft	lb					*14,450	8,580	*10,720	5,700			*6,610	4,350	24.0 ft
	0 m	kg					*6,680	3,810	*4,830	2,560			*3,270	2,010	7.15 m
	0 ft	lb					*14,490	8,210	*10,450	5,520			*7,200	4,440	23.5 ft
	-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	Along UC	Across UC	Along UC	Across UC	Along UC	Across UC	Along UC	Across UC	Along UC	Across UC	
Boom 4.72 m 2pcs (15‘6“) 2pcs Arm 2.5 m (8‘2“) Shoe 600 mm (24 in) Undercarriage LC Counterweight 3,500 kg (7,720 lb) Dozer without dozer blade	7.5 m	kg			*5,340	*5,340							*4,110	*4,110	4.09 m
	25 ft	lb			*11,900	*11,900							*9,370	*9,370	12.8 ft
	6.0 m	kg					*4,690	4,160					*3,250	2,750	5.75 m
	20 ft	lb					*10,360	8,950					*7,240	6,210	18.6 ft
	4.5 m	kg			*4,030	*4,030	*4,850	4,070	4,110	2,580			*2,970	2,150	6.68 m
	15 ft	lb			*8,900	*8,900	*10,660	8,780	8,830	5,560			*6,570	4,790	21.8 ft
	3.0 m	kg					*6,030	3,860	4,020	2,510			*2,910	1,890	7.17 m
	10 ft	lb					*13,070	8,330	8,660	5,410			*6,420	4,180	23.5 ft
	1.5 m	kg					6,050	3,610	3,910	2,400			2,900	1,790	7.32 m
	5 ft	lb					13,030	7,800	8,420	5,190			6,410	3,960	24.0 ft
	0 m	kg					5,860	3,440	3,820	2,320			2,980	1,830	7.15 m
	0 ft	lb					12,620	7,440	8,230	5,020			6,570	4,040	23.5 ft
	-1.5 m	kg			*8,070	6,220	5,800	3,390	3,790	2,300			*3,190	2,020	6.63 m
	-5 ft	lb			*17,550	13,380	12,480	7,320	8,170	4,970			*7,020	4,480	21.7 ft
	-3.0 m	kg			*5,270	*5,270	*3,990	3,440							5.67 m
	-10 ft	lb			*11,310	*11,310	*8,460	7,430							18.5 ft
Boom 4.72 m 2pcs (15‘6“) 2pcs Arm 2.5 m (8‘2“) Shoe 600 mm (24 in) Undercarriage LC Counterweight 3,500 kg (7,720 lb) Dozer with dozer blade up	7.5 m	kg			*5,340	*5,340							*4,110	*4,110	4.09 m
	25 ft	lb			*11,900	*11,900							*9,370	*9,370	12.8 ft
	6.0 m	kg					*4,690	4,370					*3,250	2,910	5.75 m
	20 ft	lb					*10,360	9,390					*7,240	6,550	18.6 ft
	4.5 m	kg			*4,030	*4,030	*4,850	4,280	4,410	2,730			*2,970	2,270	6.68 m
	15 ft	lb			*8,900	*8,900	*10,660	9,220	9,500	5,870			*6,570	5,060	21.8 ft
	3.0 m	kg					*6,030	4,060	4,330	2,650			*2,910	2,000	7.17 m
	10 ft	lb					*13,070	8,770	9,330	5,720			*6,420	4,430	23.5 ft
	1.5 m	kg					6,520	3,810	4,220	2,550			*3,010	1,910	7.32 m
	5 ft	lb					14,030	8,240	9,090	5,500			*6,610	4,210	24.0 ft
	0 m	kg					6,330	3,650	4,130	2,470			3,220	1,940	7.15 m
	0 ft	lb					13,620	7,880	8,900	5,320			7,110	4,290	23.5 ft
	-1.5 m	kg			*8,070	6,590	*5,860	3,600	4,100	2,440			*3,190	2,150	6.63 m
	-5 ft	lb			*17,550	14,160	*12,680	7,760	*8,780	5,270			*7,020	4,760	21.7 ft
	-3.0 m	kg			*5,270	*5,270	*3,990	3,650							5.67 m
	-10 ft	lb			*11,310	*11,310	*8,460	7,880							18.5 ft
Boom 4.72 m 2pcs (15‘6“) 2pcs Arm 2.5 m (8‘2“) Shoe 600 mm (24 in) Undercarriage LC Counterweight 3,500 kg (7,720 lb) Dozer with dozer blade down	7.5 m	kg			*5,340	*5,340							*4,110	*4,110	4.09 m
	25 ft	lb			*11,900	*11,900							*9,370	*9,370	12.8 ft
	6.0 m	kg					*4,690	4,690					*3,250	3,120	5.75 m
	20 ft	lb					*10,360	10,080					*7,240	7,030	18.6 ft
	4.5 m	kg			*4,030	*4,030	*4,850	4,600	*4,570	2,930			*2,970	2,450	6.68 m
	15 ft	lb			*8,900	*8,900	*10,660	9,910	*9,930	6,300			*6,570	5,440	21.8 ft
	3.0 m	kg					*6,030	4,380	*4,760	2,850			*2,910	2,160	7.17 m
	10 ft	lb					*13,070	9,440	*10,350	6,140			*6,420	4,770	23.5 ft
	1.5 m	kg					*6,670	4,120	*4,940	2,740			*3,010	2,050	7.32 m
	5 ft	lb					*14,450	8,900	*10,720	5,920			*6,610	4,530	24.0 ft
	0 m	kg					*6,680	3,960	*4,830	2,660			*3,270	2,100	7.15 m
	0 ft	lb					*14,490	8,540	*10,450	5,750			*7,200	4,630	23.5 ft
	-1.5 m	kg			*8,070	7,240	*5,860	3,900	*4,110	2,640			*3,190	2,320	6.63 m
	-5 ft	lb			*17,550	15,550	*12,680	8,420	*8,780	5,700			*7,020	5,140	21.7 ft
	-3.0 m	kg			*5,270	*5,270	*3,990	3,950							5.67 m
	-10 ft	lb			*11,310	*11,310	*8,460	*8,460							18.5 ft
Boom 4.72 m 2pcs (15‘6“) 2pcs Arm 2.5 m (8‘2“) Shoe 700 mm (28 in) Undercarriage LC Counterweight 3,200 kg (7,060 lb) Dozer without dozer blade	7.5 m	kg			*5,340	*5,340							*4,110	*4,110	4.09 m
	25 ft	lb			*11,900	*11,900							*9,370	*9,370	12.8 ft
	6.0 m	kg					*4,690	4,080					*3,250	2,700	5.75 m
	20 ft	lb					*10,360	8,780					*7,240	6,090	18.6 ft
	4.5 m	kg			*4,030	*4,030	*4,850	3,990	4,050	2,530			*2,970	2,100	6.68 m
	15 ft	lb			*8,900	*8,900	*10,660	8,610	8,710	5,440			*6,570	4,680	21.8 ft
	3.0 m	kg					*6,030	3,780	3,960	2,450			*2,910	1,840	7.17 m
	10 ft	lb					*13,070	8,160	8,540	5,290			*6,420	4,080	23.5 ft
	1.5 m	kg					5,970	3,530	3,850	2,350			2,860	1,750	7.32 m
	5 ft	lb					12,840	7,620	8,300	5,070			6,310	3,860	24.0 ft
	0 m	kg					5,780	3,370	3,760	2,270			2,930	1,780	7.15 m
	0 ft	lb					12,430	7,270	8,110	4,900			6,470	3,940	23.5 ft
	-1.5 m	kg			*8,070	6,080	5,720	3,310	3,730	2,240			*3,190	1,980	6.63 m
	-5 ft	lb			*17,550	13,070	12,300	7,150	8,050	4,850			*7,020	4,370	21.7 ft
	-3.0 m	kg			*5,270	*5,270	*3,990	3,360							5.67 m
	-10 ft	lb			*11,310	*11,310	*8,460	7,260							18.5 ft
Boom 4.72 m 2pcs (15‘6“) 2pcs Arm 2.5 m (8‘2“) Shoe 700 mm (28 in) Undercarriage LC Counterweight 3,200 kg (7,060 lb) Dozer with dozer blade up	7.5 m	kg			**5,340**	**5,340**							**4,110**	**4,110**	**4.09 m**
	25 ft	lb			*11,900	*11,900							*9,370	*9,370	12.8 ft
	6.0 m	kg					*4,690	4,290					*3,250	2,850	5.75 m
	20 ft	lb					*10,360	9,220					*7,240	6,420	18.6 ft
	4.5 m	kg			*4,030	*4,030	*4,850	4,200	4,360	2,670			*2,970	2,230	6.68 m
	15 ft	lb			*8,900	*8,900	*10,660	9,050	9,370	5,750			*6,570	4,960	21.8 ft
	3.0 m	kg					*6,030	3,980	4,270	2,600			*2,910	1,960	7.17 m
	10 ft	lb					*13,070	8,600	9,200	5,600			*6,420	4,330	23.5 ft
	1.5 m	kg					6,430	3,740	4,160	2,490			*3,010	1,860	7.32 m
	5 ft	lb					13,840	8,070	8,960	5,380			*6,610	4,110	24.0 ft
	0 m	kg					6,240	3,570	4,070	2,410			3,180	1,900	7.15 m
	0 ft	lb					13,430	7,710	8,770	5,210			7,010	4,190	23.5 ft
	-1.5 m	kg			*8,070	6,450	*5,860	3,520	4,040	2,380			*3,190	2,100	6.63 m
	-5 ft	lb			*17,550	13,860	*12,680	7,590	8,720	5,160			*7,020	4,650	21.7 ft
	-3.0 m	kg			*5,270	*5,270	*3,990	3,570							5.67 m
	-10 ft	lb			*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	Along UC	Across UC	Along UC	Across UC	Along UC	Across UC	Along UC	Across UC	Along UC	Across UC	
Boom 4.72 m 2pcs (15‘6“) 2pcs Arm 2.5 m (8‘2“) Shoe 700 mm (28 in) Undercarriage LC Counterweight 3,200 kg (7,060 lb) Dozer with dozer blade down	7.5 m	kg			*5,340	*5,340							*4,110	*4,110	4.09 m
	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
	15 ft	lb			*8,900	*8,900	*10,660	9,730	*9,930	6,180			*6,570	5,340	21.8 ft
	3.0 m	kg					*6,030	4,300	*4,760	2,790			*2,910	2,110	7.17 m
	10 ft	lb					*13,070	9,270	*10,350	6,030			*6,420	4,670	23.5 ft
	1.5 m	kg					*6,670	4,040	*4,940	2,690			*3,010	2,010	7.32 m
	5 ft	lb					*14,450	8,730	*10,720	5,800			*6,610	4,440	24.0 ft
	0 m	kg					*6,680	3,880	*4,830	2,610			*3,270	2,050	7.15 m
	0 ft	lb					*14,490	8,370	*10,450	5,630			*7,200	4,530	23.5 ft
	-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 4.72 m 2pcs (15‘6“) 2pcs Arm 2.5 m (8‘2“) Shoe 700 mm (28 in) Undercarriage LC Counterweight 3,500 kg (7,720 lb) Dozer without dozer blade	7.5 m	kg			*5,340	*5,340							*4,110	*4,110	4.09 m
	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
	15 ft	lb			*8,900	*8,900	*10,660	8,920	8,990	5,660			*6,570	4,870	21.8 ft
	3.0 m	kg					*6,030	3,920	4,100	2,550			*2,910	1,920	7.17 m
	10 ft	lb					*13,070	8,470	8,820	5,500			*6,420	4,260	23.5 ft
	1.5 m	kg					6,170	3,670	3,980	2,450			2,960	1,830	7.32 m
	5 ft	lb					13,270	7,940	8,580	5,290			6,540	4,040	24.0 ft
	0 m	kg					5,980	3,510	3,890	2,370			3,040	1,860	7.15 m
	0 ft	lb					12,860	7,580	8,390	5,110			6,700	4,120	23.5 ft
	-1.5 m	kg			*8,070	6,340	*5,860	3,460	3,860	2,340			*3,190	2,060	6.63 m
	-5 ft	lb			*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 4.72 m 2pcs (15‘6“) 2pcs Arm 2.5 m (8‘2“) Shoe 700 mm (28 in) Undercarriage LC Counterweight 3,500 kg (7,720 lb) Dozer with dozer blade up	7.5 m	kg			*5,340	*5,340							*4,110	*4,110	4.09 m
	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
	15 ft	lb			*8,900	*8,900	*10,660	9,360	9,660	5,970			*6,570	5,150	21.8 ft
	3.0 m	kg					*6,030	4,130	4,400	2,700			*2,910	2,040	7.17 m
	10 ft	lb					*13,070	8,910	9,490	5,810			*6,420	4,510	23.5 ft
	1.5 m	kg					6,630	3,880	4,290	2,590			*3,010	1,940	7.32 m
	5 ft	lb					14,270	8,380	9,250	5,600			*6,610	4,290	24.0 ft
	0 m	kg					6,440	3,720	4,200	2,510			*3,270	1,980	7.15 m
	0 ft	lb					13,850	8,020	9,060	5,420			*7,200	4,370	23.5 ft
	-1.5 m	kg			*8,070	6,700	*5,860	3,660	*4,110	2,490			*3,190	2,190	6.63 m
	-5 ft	lb			*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 4.72 m 2pcs (15‘6“) 2pcs Arm 2.5 m (8‘2“) Shoe 700 mm (28 in) Undercarriage LC Counterweight 3,500 kg (7,720 lb) Dozer with dozer blade down	7.5 m	kg			*5,340	*5,340							*4,110	*4,110	4.09 m
	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
	15 ft	lb			*8,900	*8,900	*10,660	10,060	*9,930	6,410			*6,570	5,540	21.8 ft
	3.0 m	kg					*6,030	4,450	*4,760	2,900			*2,910	2,200	7.17 m
	10 ft	lb					*13,070	9,600	*10,350	6,250			*6,420	4,860	23.5 ft
	1.5 m	kg					*6,670	4,200	*4,940	2,790			*3,010	2,090	7.32 m
	5 ft	lb					*14,450	9,060	*10,720	6,030			*6,610	4,620	24.0 ft
	0 m	kg					*6,680	4,030	*4,830	2,710			*3,270	2,140	7.15 m
	0 ft	lb					*14,490	8,690	*10,450	5,850			*7,200	4,720	23.5 ft
	-1.5 m	kg			*8,070	7,360	*5,860	3,970	*4,110	2,690			*3,190	2,360	6.63 m
	-5 ft	lb			*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 4.72 m 2pcs (15‘6“) 2pcs Arm 3.0 m (9‘10“) Shoe 500 mm (20 in) Undercarriage LC Counterweight 3,200 kg (7,060 lb) Dozer without dozer blade	7.5 m	kg					*3,980	3,960					*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	2,490			*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
	15 ft	lb					*8,300	*8,300	8,510	5,340			*5,510	3,990	23.6 ft
	3.0 m	kg					*5,040	3,720	3,850	2,390	2,700	1,650	*2,450	1,590	7.67 m
	10 ft	lb					*10,900	8,030	8,300	5,150	5,800	3,550	*5,400	3,520	25.1 ft
	1.5 m	kg					5,810	3,450	3,720	2,270	2,650	1,610	2,490	1,510	7.81 m
	5 ft	lb					12,510	7,440	8,020	4,890	5,710	3,470	5,500	3,340	25.6 ft
	0 m	kg					5,580	3,240	3,610	2,170	2,610	1,570	2,540	1,530	7.65 m
	0 ft	lb					12,000	6,990	7,780	4,680	5,640	3,400	5,610	3,380	25.1 ft
	-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.

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

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	Along UC	Across UC	
Boom 4.72 m 2pcs (15‘6“) 2pcs Arm 3.0 m (9‘10“) Shoe 600 mm (24 in) Undercarriage LC Counterweight 3,200 kg (7,060 lb) Dozer without dozer blade	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	2,530			*2,700	2,260	6.36 m
	20 ft	lb					*8,460	*8,460	*7,240	5,400			*6,000	5,080	20.6 ft
	4.5 m	kg					*3,750	*3,750	*4,000	2,510			*2,500	1,820	7.21 m
	15 ft	lb					*8,300	*8,300	8,620	5,410			*5,510	4,050	23.6 ft
	3.0 m	kg					*5,040	3,770	3,910	2,420	2,740	1,680	*2,450	1,610	7.67 m
	10 ft	lb					*10,900	8,130	8,410	5,220	*5,850	3,600	*5,400	3,570	25.1 ft
	1.5 m	kg					5,890	3,490	3,770	2,300	2,690	1,640	*2,520	1,530	7.81 m
	5 ft	lb					12,680	7,540	8,130	4,960	5,800	3,530	*5,540	3,390	25.6 ft
	0 m	kg					5,660	3,290	3,660	2,200	2,650	1,600	2,580	1,560	7.65 m
	0 ft	lb					12,170	7,090	7,900	4,740	5,720	3,450	5,690	3,440	25.1 ft
	-1.5 m	kg			*7,490	5,870	5,550	3,200	3,610	2,150			2,820	1,700	7.17 m
	-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 4.72 m 2pcs (15‘6“) 2pcs Arm 3.0 m (9‘10“) Shoe 600 mm (24 in) Undercarriage LC Counterweight 3,200 kg (7,060 lb) Dozer with dozer blade up	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	2,670			*2,700	2,390	6.36 m
	20 ft	lb					*8,460	*8,460	*7,240	5,710			*6,000	5,380	20.6 ft
	4.5 m	kg					*3,750	*3,750	*4,000	2,650			*2,500	1,930	7.21 m
	15 ft	lb					*8,300	*8,300	*8,750	5,720			*5,510	4,300	23.6 ft
	3.0 m	kg					*5,040	3,970	4,220	2,560	2,970	1,790	*2,450	1,720	7.67 m
	10 ft	lb					*10,900	8,570	9,080	5,520	*5,850	3,840	*5,400	3,810	25.1 ft
	1.5 m	kg					6,360	3,700	4,080	2,440	2,920	1,750	*2,520	1,640	7.81 m
	5 ft	lb					13,680	7,980	8,800	5,270	6,300	3,760	*5,540	3,620	25.6 ft
	0 m	kg					6,120	3,490	3,970	2,340	2,880	1,710	*2,710	1,660	7.65 m
	0 ft	lb					13,170	7,540	8,560	5,050	6,220	3,690	*5,970	3,670	25.1 ft
	-1.5 m	kg			*7,490	6,240	6,020	3,400	3,920	2,290			*3,040	1,810	7.17 m
	-5 ft	lb			*17,240	13,410	12,940	7,340	8,450	4,950			*6,690	4,010	23.5 ft
	-3.0 m	kg			*6,460	6,310	*4,710	3,420	*2,980	2,320			*2,430	2,190	6.29 m
	-10 ft	lb			*13,900	13,570	*10,070	7,380	*6,040	5,030			*5,290	4,890	20.5 ft
Boom 4.72 m 2pcs (15‘6“) 2pcs Arm 3.0 m (9‘10“) Shoe 600 mm (24 in) Undercarriage LC Counterweight 3,200 kg (7,060 lb) Dozer with dozer blade down	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	2,870			*2,700	2,570	6.36 m
	20 ft	lb					*8,460	*8,460	*7,240	6,140			*6,000	5,780	20.6 ft
	4.5 m	kg					*3,750	*3,750	*4,000	2,850			*2,500	2,080	7.21 m
	15 ft	lb					*8,300	*8,300	*8,750	6,140			*5,510	4,630	23.6 ft
	3.0 m	kg					*5,040	4,280	*4,550	2,760	*3,150	1,930	*2,450	1,860	7.67 m
	10 ft	lb					*10,900	9,240	*9,900	5,950	*5,850	4,150	*5,400	4,110	25.1 ft
	1.5 m	kg					*6,440	4,000	*4,830	2,640	*3,790	1,890	*2,520	1,770	7.81 m
	5 ft	lb					*13,950	8,640	*10,480	5,690	*7,520	4,070	*5,540	3,910	25.6 ft
	0 m	kg					*6,700	3,790	*4,870	2,530	*3,550	1,850	*2,710	1,800	7.65 m
	0 ft	lb					*14,530	8,180	*10,540	5,470	*6,430	4,000	*5,970	3,980	25.1 ft
	-1.5 m	kg			*7,490	6,870	*6,170	3,700	*4,410	2,480			*3,040	1,960	7.17 m
	-5 ft	lb			*17,240	14,760	*13,360	7,980	*9,490	5,360			*6,690	4,350	23.5 ft
	-3.0 m	kg			*6,460	*6,460	*4,710	3,720	*2,980	2,510			*2,430	2,380	6.29 m
	-10 ft	lb			*13,900	*13,900	*10,070	8,020	*6,040	5,450			*5,290	5,290	20.5 ft
Boom 4.72 m 2pcs (15‘6“) 2pcs Arm 3.0 m (9‘10“) Shoe 600 mm (24 in) Undercarriage LC Counterweight 3,500 kg (7,720 lb) Dozer without dozer blade	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	2,630			*2,700	2,350	6.36 m
	20 ft	lb					*8,460	*8,460	*7,240	5,620			*6,000	5,290	20.6 ft
	4.5 m	kg					*3,750	*3,750	*4,000	2,610			*2,500	1,900	7.21 m
	15 ft	lb					*8,300	*8,300	*8,750	5,620			*5,510	4,220	23.6 ft
	3.0 m	kg					*5,040	3,910	4,040	2,520	2,840	1,760	*2,450	1,690	7.67 m
	10 ft	lb					*10,900	8,440	8,700	5,430	*5,850	3,770	*5,400	3,730	25.1 ft
	1.5 m	kg					6,090	3,640	3,910	2,400	2,790	1,710	*2,520	1,610	7.81 m
	5 ft	lb					13,110	7,850	8,420	5,180	6,010	3,690	*5,540	3,550	25.6 ft
	0 m	kg					5,850	3,430	3,800	2,300	2,750	1,680	2,680	1,630	7.65 m
	0 ft	lb					12,600	7,400	8,180	4,960	5,940	3,620	5,900	3,600	25.1 ft
	-1.5 m	kg			*7,490	6,130	5,750	3,340	3,740	2,250			2,920	1,780	7.17 m
	-5 ft	lb			*17,240	13,170	12,370	7,210	8,070	4,860			6,470	3,940	23.5 ft
	-3.0 m	kg			*6,460	6,200	*4,710	3,360	*2,980	2,280			*2,430	2,150	6.29 m
	-10 ft	lb			*13,900	13,340	*10,070	7,250	*6,040	4,940			*5,290	4,800	20.5 ft
Boom 4.72 m 2pcs (15‘6“) 2pcs Arm 3.0 m (9‘10“) Shoe 600 mm (24 in) Undercarriage LC Counterweight 3,500 kg (7,720 lb) Dozer with dozer blade up	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	2,770			*2,700	2,490	6.36 m
	20 ft	lb					*8,460	*8,460	*7,240	5,930			*6,000	5,590	20.6 ft
	4.5 m	kg					*3,750	*3,750	*4,000	2,760			*2,500	2,010	7.21 m
	15 ft	lb					*8,300	*8,300	*8,750	5,930			*5,510	4,480	23.6 ft
	3.0 m	kg					*5,040	4,120	4,350	2,660	3,070	1,870	*2,450	1,790	7.67 m
	10 ft	lb					*10,900	8,880	9,370	5,740	*5,850	4,010	*5,400	3,970	25.1 ft
	1.5 m	kg					*6,440	3,840	4,220	2,540	3,020	1,820	*2,520	1,710	7.81 m
	5 ft	lb					*13,950	8,300	9,090	5,490	6,510	3,930	*5,540	3,780	25.6 ft
	0 m	kg					6,320	3,640	4,100	2,440	2,980	1,790	*2,710	1,740	7.65 m
	0 ft	lb					13,600	7,850	8,850	5,270	*6,430	3,860	*5,970	3,840	25.1 ft
	-1.5 m	kg			*7,490	6,490	*6,170	3,550	4,050	2,390			*3,040	1,890	7.17 m
	-5 ft	lb			*17,240	13,950	*13,360	7,650	8,730	5,170			*6,690	4,190	23.5 ft
	-3.0 m	kg			*6,460	*6,460	*4,710	3,560	*2,980	2,420			*2,430	2,290	6.29 m
	-10 ft	lb			*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.

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	Along UC	Across UC	
Boom 4.72 m 2pcs (15‘6“) 2pcs Arm 3.0 m (9‘10“) Shoe 600 mm (24 in) Undercarriage LC Counterweight 3,500 kg (7,720 lb) Dozer with dozer blade down	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	2,970			*2,700	2,670	6.36 m
	20 ft	lb					*8,460	*8,460	*7,240	6,360			*6,000	*6,000	20.6 ft
	4.5 m	kg					*3,750	*3,750	*4,000	2,960			*2,500	2,170	7.21 m
	15 ft	lb					*8,300	*8,300	*8,750	6,370			*5,510	4,820	23.6 ft
	3.0 m	kg					*5,040	4,430	*4,550	2,860	*3,150	2,010	*2,450	1,930	7.67 m
	10 ft	lb					*10,900	9,560	*9,900	6,170	*5,850	4,320	*5,400	4,280	25.1 ft
	1.5 m	kg					*6,440	4,150	*4,830	2,740	*3,790	1,970	*2,520	1,850	7.81 m
	5 ft	lb					*13,950	8,960	*10,480	5,910	*7,520	4,240	*5,540	4,080	25.6 ft
	0 m	kg					*6,700	3,940	*4,870	2,640	*3,550	1,930	*2,710	1,880	7.65 m
	0 ft	lb					*14,530	8,510	*10,540	5,700	*6,430	4,170	*5,970	4,150	25.1 ft
	-1.5 m	kg			*7,490	7,140	*6,170	3,850	*4,410	2,590			*3,040	2,050	7.17 m
	-5 ft	lb			*17,240	15,340	*13,360	8,310	*9,490	5,590			*6,690	4,530	23.5 ft
	-3.0 m	kg			*6,460	*6,460	*4,710	3,870	*2,980	2,620			*2,430	*2,430	6.29 m
	-10 ft	lb			*13,900	*13,900	*10,070	8,350	*6,040	5,670			*5,290	*5,290	20.5 ft
Boom 4.72 m 2pcs (15‘6“) 2pcs Arm 3.0 m (9‘10“) Shoe 700 mm (28 in) Undercarriage LC Counterweight 3,200 kg (7,060 lb) Dozer without dozer blade	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	2,570			*2,700	2,300	6.36 m
	20 ft	lb					*8,460	*8,460	*7,240	5,500			*6,000	5,170	20.6 ft
	4.5 m	kg					*3,750	*3,750	*4,000	2,560			*2,500	1,850	7.21 m
	15 ft	lb					*8,300	*8,300	*8,750	5,500			*5,510	4,130	23.6 ft
	3.0 m	kg					*5,040	3,830	3,980	2,460	2,790	1,710	*2,450	1,650	7.67 m
	10 ft	lb					*10,900	8,270	8,580	5,310	*5,850	3,680	*5,400	3,640	25.1 ft
	1.5 m	kg					6,010	3,560	3,850	2,340	2,750	1,670	*2,520	1,570	7.81 m
	5 ft	lb					12,930	7,680	8,300	5,060	5,920	3,600	*5,540	3,460	25.6 ft
	0 m	kg					5,770	3,350	3,740	2,240	2,710	1,630	2,630	1,590	7.65 m
	0 ft	lb					12,410	7,230	8,060	4,840	5,840	3,530	5,810	3,510	25.1 ft
	-1.5 m	kg			*7,490	5,990	5,660	3,260	3,680	2,190			2,880	1,740	7.17 m
	-5 ft	lb			*17,240	12,870	12,190	7,040	7,940	4,740			6,370	3,840	23.5 ft
	-3.0 m	kg			*6,460	6,060	*4,710	3,280	*2,980	2,220			*2,430	2,100	6.29 m
	-10 ft	lb			*13,900	13,040	*10,070	7,080	*6,040	4,820			*5,290	4,680	20.5 ft
Boom 4.72 m 2pcs (15‘6“) 2pcs Arm 3.0 m (9‘10“) Shoe 700 mm (28 in) Undercarriage LC Counterweight 3,200 kg (7,060 lb) Dozer with dozer blade up	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	2,710			*2,700	2,430	6.36 m
	20 ft	lb					*8,460	*8,460	*7,240	5,810			*6,000	5,470	20.6 ft
	4.5 m	kg					*3,750	*3,750	*4,000	2,700			*2,500	1,970	7.21 m
	15 ft	lb					*8,300	*8,300	*8,750	5,810			*5,510	4,380	23.6 ft
	3.0 m	kg					*5,040	4,040	4,290	2,610	3,020	1,820	*2,450	1,750	7.67 m
	10 ft	lb					*10,900	8,710	9,240	5,620	*5,850	3,920	*5,400	3,880	25.1 ft
	1.5 m	kg					*6,440	3,760	4,160	2,490	2,980	1,780	*2,520	1,670	7.81 m
	5 ft	lb					13,920	8,130	8,960	5,370	6,420	3,840	*5,540	3,690	25.6 ft
	0 m	kg					6,230	3,560	4,050	2,390	2,940	1,740	*2,710	1,700	7.65 m
	0 ft	lb					13,410	7,680	8,720	5,150	6,340	3,770	*5,970	3,750	25.1 ft
	-1.5 m	kg			*7,490	6,350	6,130	3,470	3,990	2,340			*3,040	1,850	7.17 m
	-5 ft	lb			*17,240	13,660	13,180	7,480	8,610	5,050			*6,690	4,090	23.5 ft
	-3.0 m	kg			*6,460	6,430	*4,710	3,480	*2,980	2,370			*2,430	2,240	6.29 m
	-10 ft	lb			*13,900	13,820	*10,070	7,520	*6,040	5,130			*5,290	4,980	20.5 ft
Boom 4.72 m 2pcs (15‘6“) 2pcs Arm 3.0 m (9‘10“) Shoe 700 mm (28 in) Undercarriage LC Counterweight 3,200 kg (7,060 lb) Dozer with dozer blade down	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	2,920			*2,700	2,620	6.36 m
	20 ft	lb					*8,460	*8,460	*7,240	6,240			*6,000	5,880	20.6 ft
	4.5 m	kg					*3,750	*3,750	*4,000	2,900			*2,500	2,120	7.21 m
	15 ft	lb					*8,300	*8,300	*8,750	6,250			*5,510	4,720	23.6 ft
	3.0 m	kg					*5,040	4,350	*4,550	2,810	*3,150	1,970	*2,450	1,890	7.67 m
	10 ft	lb					*10,900	9,390	*9,900	6,050	*5,850	4,230	*5,400	4,190	25.1 ft
	1.5 m	kg					*6,440	4,070	*4,830	2,690	*3,790	1,930	*2,520	1,810	7.81 m
	5 ft	lb					*13,950	8,790	*10,480	5,800	*7,520	4,150	*5,540	3,990	25.6 ft
	0 m	kg					*6,700	3,860	*4,870	2,580	*3,550	1,890	*2,710	1,840	7.65 m
	0 ft	lb					*14,530	8,340	*10,540	5,580	*6,430	4,080	*5,970	4,060	25.1 ft
	-1.5 m	kg			*7,490	7,000	*6,170	3,770	*4,410	2,530			*3,040	2,000	7.17 m
	-5 ft	lb			*17,240	15,030	*13,360	8,140	*9,490	5,470			*6,690	4,430	23.5 ft
	-3.0 m	kg			*6,460	*6,460	*4,710	3,790	*2,980	2,560			*2,430	2,420	6.29 m
	-10 ft	lb			*13,900	*13,900	*10,070	8,170	*6,040	5,550			*5,290	*5,290	20.5 ft
Boom 4.72 m 2pcs (15‘6“) 2pcs Arm 3.0 m (9‘10“) Shoe 700 mm (28 in) Undercarriage LC Counterweight 3,500 kg (7,720 lb) Dozer without dozer blade	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	2,670			*2,700	2,390	6.36 m
	20 ft	lb					*8,460	*8,460	*7,240	5,720			*6,000	5,380	20.6 ft
	4.5 m	kg					*3,750	*3,750	*4,000	2,660			*2,500	1,940	7.21 m
	15 ft	lb					*8,300	*8,300	*8,750	5,720			*5,510	4,300	23.6 ft
	3.0 m	kg					*5,040	3,980	4,110	2,560	2,890	1,790	*2,450	1,720	7.67 m
	10 ft	lb					*10,900	8,580	8,860	5,530	*5,850	3,850	*5,400	3,810	25.1 ft
	1.5 m	kg					6,200	3,700	3,980	2,440	2,850	1,750	*2,520	1,640	7.81 m
	5 ft	lb					13,350	7,990	8,580	5,280	6,130	3,770	*5,540	3,620	25.6 ft
	0 m	kg					5,970	3,500	3,870	2,340	2,810	1,710	*2,710	1,660	7.65 m
	0 ft	lb					12,840	7,540	8,340	5,060	6,060	3,690	*5,970	3,680	25.1 ft
	-1.5 m	kg			*7,490	6,240	5,860	3,410	3,820	2,290			2,980	1,820	7.17 m
	-5 ft	lb			*17,240	13,420	12,610	7,350	8,230	4,950			6,600	4,020	23.5 ft
	-3.0 m	kg			*6,460	6,320	*4,710	3,420	*2,980	2,320			*2,430	2,200	6.29 m
	-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	Along UC	Across UC	Along UC	Across UC	Along UC	Across UC	Along UC	Across UC	Along UC	Across UC	
Boom 4.72 m 2pcs (15‘6“) 2pcs Arm 3.0 m (9‘10“) Shoe 700 mm (28 in) Undercarriage LC Counterweight 3,500 kg (7,720 lb) Dozer with dozer blade up	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	kg					*5,040	4,180	4,420	2,710	3,120	1,900	*2,450	1,830	7.67 m
	10 ft	lb					*10,900	9,030	9,530	5,840	*5,850	4,080	*5,400	4,050	25.1 ft
	1.5 m	kg					*6,440	3,910	4,290	2,590	3,080	1,860	*2,520	1,740	7.81 m
	5 ft	lb					*13,950	8,440	9,250	5,590	6,630	4,000	*5,540	3,850	25.6 ft
	0 m	kg					6,430	3,700	4,180	2,490	3,040	1,820	*2,710	1,770	7.65 m
	0 ft	lb					13,830	7,990	9,010	5,370	*6,430	3,930	*5,970	3,910	25.1 ft
	-1.5 m	kg			*7,490	6,610	*6,170	3,610	4,120	2,440			*3,040	1,930	7.17 m
	-5 ft	lb			*17,240	14,210	*13,360	7,790	8,890	5,260			*6,690	4,270	23.5 ft
	-3.0 m	kg			*6,460	*6,460	*4,710	3,630	*2,980	2,470			*2,430	2,330	6.29 m
	-10 ft	lb			*13,900	*13,900	*10,070	7,830	*6,040	5,350			*5,290	5,190	20.5 ft
Boom 4.72 m 2pcs (15‘6“) 2pcs Arm 3.0 m (9‘10“) Shoe 700 mm (28 in) Undercarriage LC Counterweight 3,500 kg (7,720 lb) Dozer with dozer blade down	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	kg					*5,040	4,500	*4,550	2,910	*3,150	2,050	*2,450	1,970	7.67 m
	10 ft	lb					*10,900	9,720	*9,900	6,280	*5,850	4,400	*5,400	4,360	25.1 ft
	1.5 m	kg					*6,440	4,220	*4,830	2,790	*3,790	2,010	*2,520	1,880	7.81 m
	5 ft	lb					*13,950	9,120	*10,480	6,020	*7,520	4,320	*5,540	4,160	25.6 ft
	0 m	kg					*6,700	4,010	*4,870	2,690	*3,550	1,970	*2,710	1,920	7.65 m
	0 ft	lb					*14,530	8,660	*10,540	5,800	*6,430	4,250	*5,970	4,230	25.1 ft
	-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	•
Tiltable 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

Not all products are available in all markets. Under our policy of continuous improvement, we reserve the right to change specifications and design without prior notice. The illustrations do not necessarily show the standard version of the machine.

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