

V O L V O



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

ECR145

Volvo Construction Equipment

ECR145

A short swing radius machine
that delivers optimum results.



Push the edge of efficiency

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



Operator comfort

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



Smart View with Obstacle Detection

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



Serviceability

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



Fuel Efficiency

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



Productivity

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

Volvo ECR145 in detail

Engine

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

Air Filter: 3-stage and precleaner

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

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

Electrical system

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

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

Undercarriage and structures

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

Track shoe		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 (29.23)
Max. travel speed (low)	km/h (mi/h)	3 (1.86)
Max. travel speed (high)	km/h (mi/h)	5.5 (3.42)
Gradeability	°	35

Cab

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

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

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

Sound Level

Sound level in cab according to ISO 6396

L _{pA}	dB	71
External sound level according to ISO 6395 and EU Noise Directive (2000/14/EC) and 474-1:2006 +A1:2009		
L _{WA}	dB	97

Hydraulic System

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

The following important functions are included in the system:

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

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

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

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

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

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

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

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

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

Main pump: 2 x Variable displacement axial piston pumps

Maximum flow	l/min (gal/min)	2 x 130 (2 x 34.3)
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Pilot pump: Gear pump

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

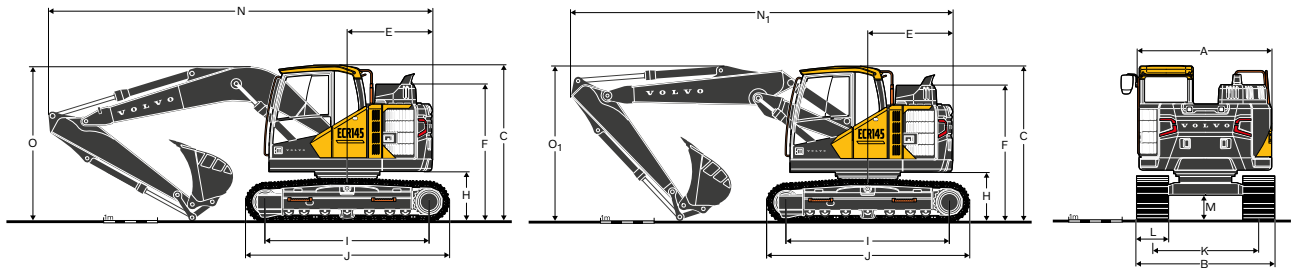
Hydraulic Cylinders

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)
Dozer blade		2
Bore x Stroke	ø x mm (ø x in)	130 x 270 (5.1 x 10.6)

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)	15.50 (4)
Engine coolant	l (gal)	26 (7)
Slew reduction unit	l (gal)	4 (1.10)
Travel reduction unit	l (gal)	2 x 2.2 (2 x 0.6)

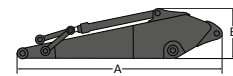
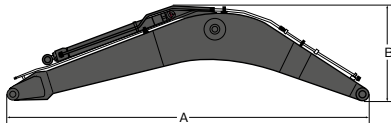
Specifications



DIMENSIONS

Description	Unit	ECR145F L						
		4.6 (15'1") mono or 4.72 (15'6") 2-piece						
Boom								
Arm	m ft in	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"	
B. Overall width	mm ft in	2,590	8'6"	2,590	8'6"	2,590	8'6"	
C. Overall height of cab	mm ft in	2,895	9'6"	2,895	9'6"	2,895	9'6"	
D. Overall height of handrail	mm ft in	2,800	9'2"	2,800	9'2"	2,800	9'2"	
E. Tail swing radius	mm ft in	1,565	5'2"	1,565	5'2"	1,565	5'2"	
F. Overall height of engine hood	mm ft in	2,535	8'4"	2,535	8'4"	2,535	8'4"	
G. Overall height of diffuser	mm ft in	2,725	8'11"	2,725	8'11"	2,725	8'11"	
H. Counterweight clearance *	mm in	900	35.4	900	35.4	900	35.4	
I. Tumbler length	mm ft in	3,040	10'0"	3,040	10'0"	3,040	10'0"	
J. Track length	mm ft in	3,770	12'4"	3,770	12'4"	3,770	12'4"	
K. Track gauge	mm ft in	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"	
M. Min. ground clearance *	mm in	430	16.9	430	16.9	430	16.9	
N. Overall length	mm ft in	7,470	24'6"	7,475	24'6"	7,415	24'4"	
N'. Overall length	mm ft in	7,575	24'10"	7,540	24'9"	7,440	24'5"	
O. Overall height of boom	mm ft in	2,760	9'1"	2,900	9'6"	3,250	10'8"	
O'. Overall height of boom	mm ft in	2,710	8'11"	2,910	9'7"	3,470	11'5"	

* Without shoe grouser , 2-Piece Boom



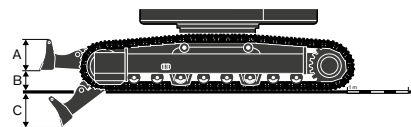
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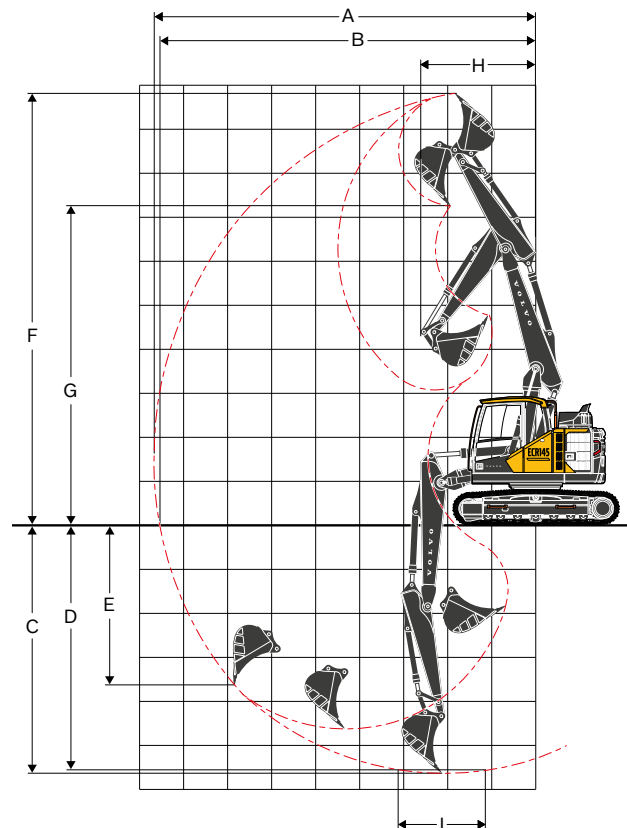
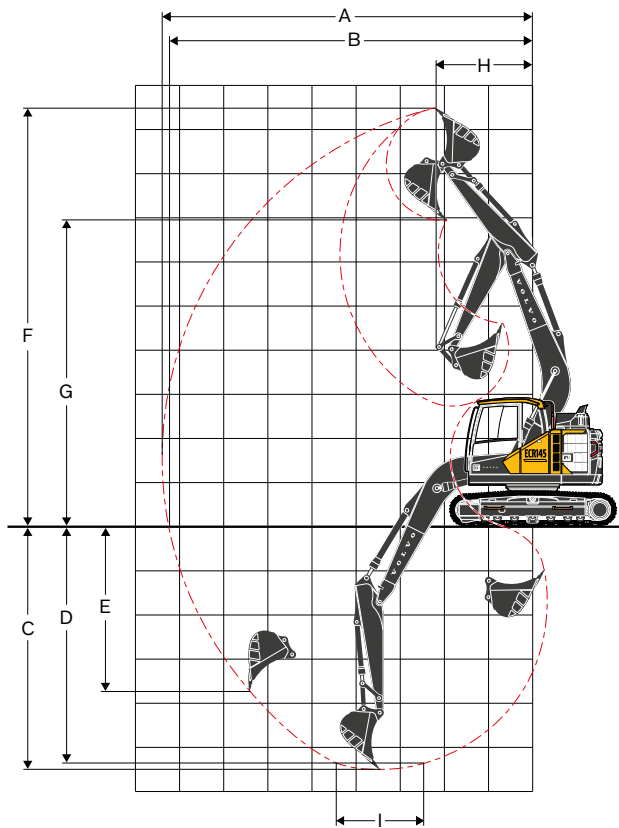
Boom							Arm									
Description	Unit		Mono		2-piece		Description	Unit								
Boom	m	ft in	4.6	15'1"	4.72	15'6"	Arm	m	ft in	2.1	6'11"	2.5	8'2"	3	9'10"	
A (Length)	mm	ft in	4,770	15'8"	4,885	16'0"	A (Length)	mm	ft in	2,790	9'2"	3,195	10'6"	3,690	12'1"	
B (Height)	mm	ft in	1,370	4'6"	1,135	3'9"	B (Height)	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	625	1,380	685	1,510	

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

*Includes cylinder, linkage and pin

Description	Unit		ECR145F L	
A Height	mm	in	585	23
Width 500mm shoe	mm	ft in	2,490	8'2"
Width 600mm shoe	mm	ft in	2,590	8'6"
Width 700mm shoe	mm	ft in	2,690	8'10"
Width 800mm shoe	mm	ft in	-	-
Weight	kg	lb	520	1,145
B Lift height	mm	in	480	18.9
C Digging depth	mm	in	600	23.6





WORKING RANGE

Description	Unit		ECR145F											
			4.6 (15'1") mono						4.72 (15'6") 2-piece					
Boom	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	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	15,435	34,030	46.1	6.68	16,749	16,517	49.0	7.11
	600	24	15,632	34,470	39.3	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	39.3	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	40.3	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, 3,500 kg (7,720 lb) counterweight, Dozer down					
									4.6 m (15'1") boom			4.72 m (15'6") 2-piece boom		
		L	yd ³	mm	ft in	kg	lb	EA	2.1 m (6'11")	2.5 m (8'2")	3.0 m (9'10")	2.1 m (6'11")	2.5 m (8'2")	3.0 m (9'10")
Direct fit Buckets General purpose	Without Quick Coupler	250	0.33	450	17.6	293	647	3	C	C	C	C	C	C
		330	0.43	600	23.4	324	715	3	C	C	C	C	C	C
		420	0.55	750	29.3	355	783	3	C	C	C	C	C	C
		540	0.71	900	35.1	403	889	4	C	C	C	C	C	C
		660	0.86	1,050	41.0	443	977	4	C	C	C	C	C	C
		770	1.01	1,200	46.8	504	1,112	5	C	C	B	C	B	A
	U type quick coupler	250	0.33	450	17.6	293	647	3	C	C	C	C	C	C
		330	0.43	600	23.4	324	715	3	C	C	C	C	C	C
		420	0.55	750	29.3	355	783	3	C	C	C	C	C	C
		540	0.71	900	35.1	403	889	4	C	C	C	C	C	C
		660	0.86	1,050	41.0	443	977	4	C	C	B	C	B	B
		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 material density

D: 2,100 kg/m³ (3,500 lb/yd³)

C: 1,800 kg/m³ (3,100 lb/yd³)

B: 1,500 kg/m³ (2,500 lb/yd³)

A: 1,200 kg/m³ (2,000 lb/yd³)

X : Not recommended

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 3,500 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
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 up	-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
	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
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	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
	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
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	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

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 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
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	-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
	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
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	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
	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
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	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

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 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
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	-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
	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
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	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
	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
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	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

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 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
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	-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
	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
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	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
	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
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	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

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 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
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	-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
	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
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	-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
	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
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	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.

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 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
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

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
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	-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
	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
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	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
	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
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	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

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 3,500 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
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

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 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
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	-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
	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
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	-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
	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

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

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 (15'6") 2pcs	25 ft	lb			*12,640	*12,640							*12,510	*12,510	10.0 ft
Arm	6.0 m	kg			*5,310	*5,310	*5,440	4,090					*4,020	3,170	5.24 m
2.1 m (6'11")	20 ft	lb			*11,900	*11,900	*11,970	8,790					*8,950	7,180	16.9 ft
Shoe	4.5 m	kg			*5,440	*5,440	*5,640	4,020	4,070	2,550			*3,630	2,380	6.24 m
600 mm (24 in)	15 ft	lb			*11,880	*11,880	*12,280	8,670	8,730	5,480			*8,020	5,300	20.4 ft
Undercarriage LC	3.0 m	kg					6,280	3,810	4,000	2,490			3,310	2,060	6.77 m
Counterweight 3,500 kg (7,720 lb)	10 ft	lb					13,520	8,230	8,620	5,370			7,320	4,560	22.2 ft
Dozer without dozer blade	1.5 m	kg					6,020	3,590	3,900	2,400			3,150	1,950	6.93 m
	5 ft	lb					12,960	7,750	8,410	5,190			6,960	4,310	22.7 ft
	0 m	kg					5,870	3,450	3,830	2,340			3,250	2,000	6.75 m
	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 (15'6") 2pcs	25 ft	lb			*12,640	*12,640							*12,510	*12,510	10.0 ft
Arm	6.0 m	kg			*5,310	*5,310	*5,440	4,300					*4,020	3,340	5.24 m
2.1 m (6'11")	20 ft	lb			*11,900	*11,900	*11,970	9,240					*8,950	7,560	16.9 ft
Shoe	4.5 m	kg			*5,440	*5,440	*5,640	4,220	4,380	2,690			*3,630	2,520	6.24 m
600 mm (24 in)	15 ft	lb			*11,880	*11,880	*12,280	9,110	9,400	5,790			*8,020	5,600	20.4 ft
Undercarriage LC	3.0 m	kg					*6,290	4,020	4,310	2,630			*3,550	2,180	6.77 m
Counterweight 3,500 kg (7,720 lb)	10 ft	lb					*13,620	8,670	9,280	5,680			*7,830	4,830	22.2 ft
Dozer with dozer blade up	1.5 m	kg					6,490	3,790	4,210	2,540			3,410	2,070	6.93 m
	5 ft	lb					13,960	8,190	9,080	5,490			7,530	4,570	22.7 ft
	0 m	kg					6,330	3,660	4,140	2,480			3,510	2,120	6.75 m
	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 (15'6") 2pcs	25 ft	lb			*12,640	*12,640							*12,510	*12,510	10.0 ft
Arm	6.0 m	kg			*5,310	*5,310	*5,440	4,620					*4,020	3,590	5.24 m
2.1 m (6'11")	20 ft	lb			*11,900	*11,900	*11,970	9,920					*8,950	8,120	16.9 ft
Shoe	4.5 m	kg			*5,440	*5,440	*5,640	4,540	*4,780	2,890			*3,630	2,700	6.24 m
600 mm (24 in)	15 ft	lb			*11,880	*11,880	*12,280	9,790	*9,630	6,220			*8,020	6,020	20.4 ft
Undercarriage LC	3.0 m	kg					*6,290	4,330	*4,890	2,830			*3,550	2,350	6.77 m
Counterweight 3,500 kg (7,720 lb)	10 ft	lb					*13,620	9,350	*10,630	6,110			*7,830	5,200	22.2 ft
Dozer with dozer blade down	1.5 m	kg					*6,780	4,100	*4,980	2,740			*3,690	2,230	6.93 m
	5 ft	lb					*14,700	8,850	*10,800	5,920			*8,120	4,930	22.7 ft
	0 m	kg					*6,580	3,960	*4,730	2,680			*3,810	2,290	6.75 m
	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.

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 (15'6") 2pcs	25 ft	lb			*12,640	*12,640							*12,510	*12,510	10.0 ft
Arm	6.0 m	kg			*5,310	*5,310	*5,440	4,160					*4,020	3,220	5.24 m
2.1 m (6'11")	20 ft	lb			*11,900	*11,900	*11,970	8,930					*8,950	7,300	16.9 ft
Shoe	4.5 m	kg			*5,440	*5,440	*5,640	4,080	4,140	2,600			*3,630	2,420	6.24 m
700 mm (28 in)	15 ft	lb			*11,880	*11,880	*12,280	8,810	8,900	5,580			*8,020	5,400	20.4 ft
Undercarriage LC	3.0 m	kg					*6,290	3,880	4,080	2,540			*3,370	2,100	6.77 m
Counterweight 3,500 kg (7,720 lb)	10 ft	lb					*13,620	8,370	8,780	5,470			*7,470	4,650	22.2 ft
Dozer without dozer blade	1.5 m	kg					6,130	3,650	3,980	2,450			*3,220	1,990	6.93 m
	5 ft	lb					13,210	7,890	8,570	5,280			*7,100	4,390	22.7 ft
	0 m	kg					5,980	3,520	3,900	2,380			*3,310	2,040	6.75 m
	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 (15'6") 2pcs	25 ft	lb			*12,640	*12,640							*12,510	*12,510	10.0 ft
Arm	6.0 m	kg			*5,310	*5,310	*5,440	4,370					*4,020	3,390	5.24 m
2.1 m (6'11")	20 ft	lb			*11,900	*11,900	*11,970	9,380					*8,950	7,680	16.9 ft
Shoe	4.5 m	kg			*5,440	*5,440	*5,640	4,290	4,450	2,740			*3,630	2,560	6.24 m
700 mm (28 in)	15 ft	lb			*11,880	*11,880	*12,280	9,250	9,560	5,890			*8,020	5,700	20.4 ft
Undercarriage LC	3.0 m	kg					*6,290	4,080	4,380	2,680			*3,550	2,220	6.77 m
Counterweight 3,500 kg (7,720 lb)	10 ft	lb					*13,620	8,820	9,440	5,780			*7,830	4,920	22.2 ft
Dozer with dozer blade up	1.5 m	kg					6,600	3,860	4,280	2,590			*3,470	2,110	6.93 m
	5 ft	lb					14,200	8,330	9,240	5,590			*7,660	4,660	22.7 ft
	0 m	kg					6,440	3,720	4,210	2,530			*3,580	2,160	6.75 m
	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
Boom	7.5 m	kg			*6,210	*6,210							*5,410	*5,410	3.31 m
4.72 m 2pcs (15'6") 2pcs	25 ft	lb			*12,640	*12,640							*12,510	*12,510	10.0 ft
Arm	6.0 m	kg			*5,310	*5,310	*5,440	4,690					*4,020	3,640	5.24 m
2.1 m (6'11")	20 ft	lb			*11,900	*11,900	*11,970	10,070					*8,950	8,250	16.9 ft
Shoe	4.5 m	kg			*5,440	*5,440	*5,640	4,610	*4,780	2,940			*3,630	2,750	6.24 m
700 mm (28 in)	15 ft	lb			*11,880	*11,880	*12,280	9,940	*9,630	6,320			*8,020	6,120	20.4 ft
Undercarriage LC	3.0 m	kg					*6,290	4,400	*4,890	2,880			*3,550	2,390	6.77 m
Counterweight 3,500 kg (7,720 lb)	10 ft	lb					*13,620	9,500	*10,630	6,220			*7,830	5,300	22.2 ft
Dozer with dozer blade down	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

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 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
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

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

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 3,500 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

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 3,500 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
Counterweight 3,500 kg (7,720 lb) Dozer without dozer blade	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
Counterweight 3,500 kg (7,720 lb) Dozer with dozer blade up	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
Counterweight 3,500 kg (7,720 lb) Dozer with dozer blade down	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 3,500 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
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	-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
	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
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	-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
	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	

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 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	
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.





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

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.

V O L V O