

# Specifications

## LIFTING CAPACITY ECR88D

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 point		1.0 m, 3.3 ft		2.0 m, 6.6 ft		3.0 m, 9.9 ft		4.0 m, 13.2 ft		5.0 m, 16.5 ft		6.0, 19.8 ft		Max. reach					
	m	ft	Along	Across	Along	Across	Along	Across	Along	Across	Along	Across	Along	Across	Along	Across	Max.			
	Boom 3.55m, 11'8" Arm 1.7m, 5'7" Shoe 450mm, 18" CWT 1 480kg / 3,260lb Dozer blade down	5.0	kg							*1 520	*1 520					*1 600	*1 600	4.6 m		
		16.5	lb							*3,380	*3,380					*3,550	*3,550	14.9 ft		
4.0		kg							*1 580	*1 580	*1 540	1390			*1 560	1230	5.3 m			
		13.2	lb							*3,470	*3,470	*3,400	3,050			*3,450	2,740	17.5 ft		
3.0		kg					*2 490	*2 490	*1 890	*1 890	*1 640	1360			*1 540	1060	5.8 m			
		9.9	lb					*5,420	*5,420	*4,150	*4,150	*3,610	2,980			*3,400	2,340	19.0 ft		
2.0		kg					*3 700	2830	*2 330	1840	*1 830	1310	*1 590	980	*1 580	980	6.0 m			
		6.6	lb					*8,040	6,200	*5,100	4,040	*4,010	2,870			*3,490	2,160	19.7 ft		
1.0		kg							*2 690	1750	*2 000	1260	*1 630	960	*1 620	950	6.0 m			
		3.3	lb						*5,550	*5,550	*5,870	3,830	*4,380	2,770			*3,580	2,110	19.7 ft	
0.0		kg							*3 800	2640	*2 810	1700	*2 070	1230			*1 670	990	5.8 m	
		0	lb						*8,570	5,760	*6,150	3,720	*4,540	2,700			*3,680	2,180	19.1 ft	
-1.0		kg			*3 560	*3 560	*3 840	2640	*2 690	1690	*1 970	1220					*1 700	1100	5.4 m	
		-3.3	lb			*7,910	*7,910	*8,410	5,780	*5,890	3,690	*4,300	2,680					*3,760	2,430	17.7 ft
-2.0		kg			*4 790	*4 790	*3 200	2690	*2 270	1710								*1 710	1370	4.7 m
		-6.6	lb			*10,470	*10,470	*6,990	5,870	*4,950	3,750							*3,760	3,030	15.4 ft
-3.0	kg					*1 880	*1 880										*1 500	*1 500	3.4 m	
	-9.9	lb					*4,040	*4,040									*3,290	*3,290	11.2 ft	
Boom 3.55m, 11'8" Arm 1.7m, 5'7" Shoe 450mm, 18" CWT 1 480kg / 3,260lb Dozer blade up	5.0	kg							*1 520	*1 520					*1 600	1520	4.6 m			
		16.5	lb							*3,380	*3,380					*3,550	3,400	14.9 ft		
	4.0	kg							*1 580	*1 580	*1 540	1320			1470	1160	5.3 m			
		13.2	lb							*3,470	*3,470	*3,400	2,880			3,270	2,580	17.5 ft		
	3.0	kg					*2 490	*2 490	*1 890	1850	1630	1290			1270	1000	5.8 m			
		9.9	lb					*5,420	*5,420	*4,150	4,040	3,560	2,820			2,820	2,210	19.0 ft		
	2.0	kg					3440	2650	2210	1740	1580	1240	1180	920	1180	920	6.0 m			
		6.6	lb					7,530	5,800	4,850	3,800	3,450	2,710			2,610	2,030	19.7 ft		
	1.0	kg							2120	1640	1530	1190	1160	900	1160	900	6.0 m			
		3.3	lb						*5,550	5,450	4,640	3,600	3,340	2,600			2,550	1,980	19.7 ft	
	0.0	kg					3240	2460	2070	1590	1490	1160			1200	930	5.8 m			
		0	lb					7,080	5,380	4,520	3,490	3,270	2,530			2,650	2,050	19.1 ft		
	-1.0	kg			*3 560	*3 560	3250	2470	2050	1580	1480	1150			1330	1030	5.4 m			
		-3.3	lb			*7,910	*7,910	7,100	5,400	4,490	3,460	3,250	2,510			2,940	2,280	17.7 ft		
	-2.0	kg			*4 790	*4 790	*3 200	2510	2080	1610					1650	1280	4.7 m			
		-6.6	lb			*10,470	*10,470	*6,990	5,490	4,550	3,520				3,660	2,850	15.4 ft			
-3.0	kg					*1 880	*1 880									*1 500	*1 500	3.4 m		
	-9.9	lb					*4,040	*4,040									*3,290	*3,290	11.2 ft	

Notes: 1. The above loads are in compliance with SAE J1097 and ISO 10567 Hydraulic Excavator Lifting Capacity Standards. 2. Rated loads do not exceed 87% of hydraulic lifting capacity or 75% of tipping load. 3. Rated loads marked with an asterisk (\*) are limited by hydraulic capacity rather than tipping load.

**LIFTING CAPACITY ECR88D**

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 point		1.0 m, 3.3 ft		2.0 m, 6.6 ft		3.0 m, 9.9 ft		4.0 m, 13.2 ft		5.0 m, 16.5 ft		6.0, 19.8 ft		Max. reach				
	m	ft	kg	lb	kg	lb	kg	lb	kg	lb	kg	lb	kg	lb	kg	lb	m	ft	
																			Along
Boom 3.55m, 11'8" Arm 2.1m, 6'11" Shoe 450mm, 18" CWT 1 480kg / 3,260lb Dozer blade down	6.0															*1 510	*1 510	4.0 m	
		19.8															*3,350	*3,350	12.8 ft
	5.0										*1 380	*1 380				*1 320	*1 320	5.1 m	
		16.5									*3,080	3,060				*2,930	*2,930	16.6 ft	
	4.0											*1 340	*1 340			*1 230	1 070	5.8 m	
		13.2										*2,960	*2,960			*2,710	2,380	18.9 ft	
	3.0								*1 650	*1 650	*1 470	1 370	*1 390	990	*1 210	940	6.2 m		
		9.9							*3,610	*3,610	*3,230	2,990	*3,080	2,170	*2,660	2,070	20.3 ft		
	2.0						*3 160	2 900	*2 100	1 850	*1 680	1 310	*1 470	970	*1 240	870	6.4 m		
		6.6					*6,870	6,350	*4,600	4,060	*3,690	2,860	*3,230	2,120	*2,730	1,920	20.9 ft		
	1.0						*3 630	2 660	*2 520	1 740	*1 890	1 250	*1 560	940	*1 320	850	6.4 m		
		3.3					*8,300	5,830	*5,500	3,810	*4,130	2,730	*3,410	2,050	*2,920	1,870	21.0 ft		
	0.0						*3 940	2 580	*2 730	1 670	*2 010	1 200	*1 590	920	*1 480	870	6.2 m		
		0					*8,870	5,640	*5,980	3,650	*4,410	2,630	*3,470	2,010	*3,270	1,920	20.4 ft		
	-1.0		kg	*2 660	*2 660	*3 090	*3 090	*4 000	2 570	*2 720	1 640	*2 000	1 180			*1 570	950	5.8 m	
		-3.3	lb	*5,890	*5,890	*6,860	*6,860	*8,740	5,610	*5,950	3,590	*4,370	2,590			*3,420	2,100	19.1 ft	
	-2.0		kg	*3 980	*3 980	*4 940	*4 940	*3 490	2 600	*2 440	1 650	*1 720	1 200			*1 580	1 140	5.2 m	
		-6.6	lb	*8,830	*8,830	*11,000	*11,000	*7,630	5,680	*5,320	3,620	*3,740	2,630			*3,480	2,530	17.0 ft	
	-3.0		kg			*3 870	*3 870	*2 510	*2 510	*1 650	*1 650					*1 530	*1 530	4.1 m	
		-9.9	lb			*8,390	*8,390	*5,450	*5,450	*3,550	*3,550					*3,370	*3,370	13.5 ft	
Boom 3.55m, 11'8" Arm 2.1m, 6'11" Shoe 450mm, 18" CWT 1 480kg / 3,260lb Dozer blade up	6.0															*1 510	*1 510	4.0 m	
		19.8															*3,350	*3,350	12.8 ft
	5.0										*1 380	1 330				*1 320	1 280	5.1 m	
		16.5	kg								*3,080	2,890				*2,930	2,840	16.6 ft	
	4.0											*1 340	1 330			*1 230	1 010	5.8 m	
		13.2	lb									*2,960	2,900			*2,710	2,250	18.9 ft	
	3.0								*1 650	*1 650	*1 470	1 290	1 200	930	1 130	880	6.2 m		
		9.9	lb						*3,610	*3,610	*3,230	2,820	2,620	2,040	2,510	1,950	20.3 ft		
	2.0						*3 160	2 720	*2 100	1 750	1 570	1 230	1 170	910	1 050	810	6.4 m		
		6.6	lb				*6,870	5,950	*4,600	3,820	3,440	2,690	2,560	1,990	2,330	1,800	20.9 ft		
	1.0						3 270	2 480	2 110	1 630	1 510	1 170	1 140	880	1 030	790	6.4 m		
		3.3	lb				7,150	5,440	4,610	3,580	3,300	2,570	2,500	1,930	2,280	1,750	21.0 ft		
	0.0						3 180	2 400	2 030	1 560	1 460	1 130	1 120	860	1 060	810	6.2 m		
		0	lb				6,950	5,260	4,450	3,420	3,210	2,470	2,450	1,880	2,350	1,800	20.4 ft		
	-1.0		kg	*2 660	*2 660	*3 090	*3 090	3 170	2 390	2 010	1 540	1 440	1 110			1 160	890	5.8 m	
		-3.3	lb	*5,890	*5,890	*6,860	*6,860	6,930	5,230	4,390	3,360	3,160	2,430			2,570	1,970	19.1 ft	
	-2.0		kg	*3 980	*3 980	*4 940	*4 940	3 200	2 420	2 020	1 550	1 460	1 120			1 390	1 070	5.2 m	
		-6.6	lb	*8,830	*8,830	*11,000	*11,000	7,000	5,300	4,420	3,390	3,200	2,460			3,070	2,370	17.0 ft	
	-3.0		kg			*3 870	*3 870	*2 510	2 500	*1 650	1 610					*1 530	*1 530	4.1 m	
		-9.9	lb			*8,390	*8,390	*5,450	*5,450	*3,550	3,530					*3,370	*3,370	13.5 ft	

Notes: 1. The above loads are in compliance with SAE J1097 and ISO 10567 Hydraulic Excavator Lifting Capacity Standards. 2. Rated loads do not exceed 87% of hydraulic lifting capacity or 75% of tipping load. 3. Rated loads marked with an asterisk (\*) are limited by hydraulic capacity rather than tipping load.

# Equipment

## STANDARD EQUIPMENT

### Engine

Low-emission Tier 4f / Stage IIIB diesel engine

Standard cooling system

Two-stage air filter

Fuel filter and water separator

Alternator, 70 A

### Electric / Electronic control system

Safe engine start function

Automatic idling system

Halogen working lights:

Cab-mounted 2 (front)

Battery, 12 V / 100 Ah

Start motor, 12 V / 2.5 kW

Travel alarm

Monitor and keypad

Master electrical disconnect switch

### Frame

1 480kg (3,260lb) counterweight

Under cover

Dozer blade

### Undercarriage

Greased and sealed track link

450mm rubber track

### Hydraulic system

Automatic two speed travel motors

Cylinder cushioning

Hydraulic fluid mineral 46

Pilot control pattern change

### Cab and interior

Canopy

PVC operator seat with suspension

Seat belt, 2 inch retractable

Control joystick

Master key

Hour meter (non analog)

### Digging Equipment

Boom: 3.55m (11'8"), Arm: 1.7m (5'7")

Linkage

### Service

Tool kit-daily maintenance

### Official approval

Object handling device conforming to ISO20474-1 and ISO20474-5 standards (when equipped)

FOPS Level 2 conforming to ISO3449 standard (when equipped)

ROPS conforming to ISO12117-2 standards

TOPS conforming to ISO12117 and EN13531 standards

FOG Level 2 conforming to ISO10262 standard and SAE J1356 standard (when equipped)

## OPTIONAL EQUIPMENT

### Electric / Electronic control system

Fuel filler pump: 35 l/min, with automatic shut-off

Extra working lights:

Cab-mounted 1 (rear), Boom-mounted 1

Caretrack

Travel alarm

Anti theft, code-lock

Rotating warning beacon

### Undercarriage / Superstructure

450mm (18"), 600mm (24") steel track

450mm (18") rubber pad

Heavy counterweight

### Frame

Rearview mirror

Dozer blade with floating function

### Hydraulic system

Hydraulic piping:

Breaker & shear (max. flow and pressure: 90lpm/24gpm, 32.4Mpa/4690psi)

Slope & rotator (max. flow and pressure: 35lpm/9gpm, 14.7Mpa/2130psi)

Grapple

Quick coupler

Hose rupture valve for boom and arm

Overload warning device

Hydraulic oil, ISO VG 32, 68

Hydraulic oil, biodegradable 46

Hydraulic oil, longlife oil 46

### Cab and interior

Cab

Carecab

Fabric operator seat with suspension

Heater and air-conditioner

Control joystick, X3 proportional

Seat belt, 3 inch retractable

AM/FM stereo

AM/FM stereo with CD player and USB input

Mechanical hour meter

Cab mounted FOG (Falling Object Guard)

FOPS (Falling Object Protection Structure)

Sun screen, front/roof

Safety net

### Digging Equipment

Arm: 2.1m (6'11")

### Service

Tool kit, full scale

Spare parts