# LIUGONG

Engine Net Power Operating Weight Bucket Capacity

- E.

Yanmar 4TNV98C, Tier 4F/EU Stage V 44 kW (59 hp / 60 ps) 8,700 kg (19,180 lb) 0.23 - 0.32 m<sup>3</sup> (0.3 - 0.42 yd<sup>3</sup>)

# 909E EXCAVATOR

TOUGH WORLD. TOUGH EQUIPMENT.

LIUGONG

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# **TOUGH WORLD. TOUGH EQUIPMENT.**

You don't need to be told it's a tough world. It's your reality, you live it every day and you know how hard it can be on your people and your machines. It's getting tougher to make your business pay too, with rising costs, increasing legislation and greater competition. We understand and we've put that understanding into action with our new 909ECR.

# **909ECR. NO TOUGH COMPROMISES, JUST EVERYTHING** YOU NEED AND NOTHING YOU DON'T

The construction equipment industry has seen an expensive trend towards over-engineered products. Some manufacturers genuinely believe that adding cost, adds perceived value in customers' eyes.

# **BUT YOU TOLD US A DIFFERENT STORY**

You asked for a tough, well-engineered excavator, which can do the job. Any job.

# YOU WANTED AN EXCAVATOR THAT DELIVERS ON 3 ESSENTIAL NEEDS :





# **UPTIME AND SUPPORT**



# **TOTAL COST OF OWNERSHIP**



With the 909ECR, we've met your challenge and given you everything you want - without compromise.



# **TOUGH FACTS**

## AWARD WINNING DESIGN

Our UK-based design team has invested thousands of man hours to really understand how our machines are used every day. This insight shapes our innovative approach to product design. Our design team recently won a prestigious Red Dot Award for our D-Series Grader and our New F-Series shares this award-winning design DNA.

# **TOUGH RESEARCH** AND TESTING

Finding tougher, smarter, safer and more cost-effective ways of working matters to you. It matters to us too. Our new Global Research & Development Centre is a great example of this customer focused approach We've established an international team of industry experts, backed up with the latest world-class technology, all focused on delivering greater value to you.



## **TOUGH QUALITY STANDARDS**

When it comes to quality, we let our actions to speak for themselves.

We follow a rigorous Six Sigma methodology and consistently achieve ISO 9001 standards.

# **TOUGH TALK?** Judge for yourself.

The LiuGong 909ECR Excavator delivers high performance, durability and reliability in short tail swing design to ensure safe and easy operation within a confined space.

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## **POWERFUL ENGINE**

The fuel efficient, Stage V certified Yanmar 4TNV98C engine provides proven and reliable power. 500 hours engine oil service interval.

## **ADVANCED HYDRAULICS**

Advanced hydraulic system is perfectly matched to the engine and components for fast response and smooth operation. The hydraulic system provides a load sensing and flow sharing capability leading to operational precision, efficient performance and greater controllability.

## **BOOM SWING**

When it works alongside obstacles, the swing post and cylinder stay within the tracks when in an offset position, so that you can avoid the risk of damage to your machine.

## BLADE FLOAT FUNCTION

The float function can be enabled with a toggle switch on the right side of the control panel. Because you don't have to adjust the blade height during travel, cleanup and backflling will be easier.



Switching attachments like buckets, breakers and shears can be time consuming and hazardous. We've made it fast, safe and simple with LiuGong's quick coupler and powerlatch tilt coupler. These are perfectly matched to a range of genuine LiuGong attachments including; buckets and breakers which can be changed from the seat of the cab in less than a minute, quick, safe and easy.

job site.

LIUGONG ()





Ergonomically designed controls, clear visibility and convenient features all contribute to operator comfort and overall productivity on the



## SHORT TAIL SWING

The 909ECR model features a short tail swing design. On this model, if you are working in a confined space the short tail swing ensures safe and easy operation within a confined space.





Fit for purpose might convince you to buy your first machine, but it's uptime and support and total cost of ownership which will keep you coming back to buy more machines. Having confidence in the machine's back up and support network is a vital part of the purchasing decision. How do we at LiuGong measure up?

# **FAST RESPONDING GLOBAL NETWORK**

We have an extensive dealer network of over 300 dealers in more than 100 countries.

All supported by 13 regional subsidiaries and 12 regional parts depots offering expert training, parts and service support.





# WHERE YOU NEED US WHEN YOU NEED US

Reliability is built into our machines but all machines have some planned downtime. Our aim is to reduce even planned down time to the minimum by getting it right. Technician training and parts availability are

also high on our agenda, as is keeping you

informed on service and maintenance work and providing clear and accurate estimates, invoices and communication. These may be small things, but customer feedback tells us that these basics really matter – so we aim to get them right.





# LIUGONG SERVICE PROMISE





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Highly trained technicians utilizing the latest diagnostic equipment 15,000+ Genuine LiuGong parts available within 24hrs from our European Parts Distribution Center Multi-lingua and on



## MAINTENANCE AND SUPPORT PACKAGES

From genuine LiuGong parts, to full repair and maintenance contracts, LiuGong has the flexibility to offer the level of support and response to suit your business and applications. Whatever level of support you choose you can be confident that it is backed up by LiuGong's service promise.

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Above all, we get it right the first time.



ulti-lingual service helpline and online support



Transparent estimates and invoicing



Clear communications through electronic parts catalogue

# **SPECIFICATIONS**

## Operating Weight 8,700 kg (19,180 lb)

Operating weight includes coolant, lubricants, full fuel tank, cab, standard shoes, boom, arm, bucket and operator 75 kg (165 lb).

Rusket Consistu	0.23 m <sup>3</sup> - 0.32 m <sup>3</sup>
Bucket Capacity	(0.3 yd <sup>3</sup> - 0.42 yd <sup>3</sup> )

## ENGINE

## Description

Yanmar EPA Tier 4F / EC (NRMM) Stage		
IIIB, inline 4-cylinder, water-cooled, direct		
injection, EGR + DPF + high pressure		
common rail diesel engine.		

Emission rating	Tier 4F / EU Stage V
Engine manufacturer	Yanmar
Engine model	4TNV98C
Aspiration	Natural
Cooling fan drive	Direct
Displacement	3.3 L (0.88 gal)
Rated speed	2,200 rpm
Engine output - net (SAE J1349 / ISO 9249)	44 kW (59 hp / 60 ps)
Engine output - gross (SAE J1995 / ISO 14396)	46.2 kW (62 hp / 63 ps)
Maximum torque	241 N·m (178 lbf·ft) @1,430 rpm
Bore × Stroke	98 × 110 mm (3.86" × 4.33")

## UNDERCARRIAGE

Track shoe each side	39
Link pitch	154 mm (6.1")
Shoe width, triple grouser	450 mm (18")
Bottom rollers each side	6
Top rollers each side	1

## SWING SYSTEM

Description Planetary gear reduction driven by high torque axial piston motor, with oil disk brake. Swing parking brake resets within five seconds after swing pilot controls return to neutral.

Swing speed	10.5 rpm
Swing torque	21,000 N·m (15,489 lbf·ft)

## HYDRAULIC SYSTEM Main

Main pump	
Туре	Variable displacement piston pump and gear pump
Maximum flow	189 L/min (49.9 gal/min)

### **Relief valve setting** Implement 28 MPa (4,061 psi) 31.4 MPa (4,554 psi) Travel circuit Slew circuit 28 MPa (4,061 psi) Pilot circuit 3.9 MPa (566 psi)

## Hydraulic cylinders

Boom Cylinder –	0110 × 879 mm
Bore × Stroke	(Φ4.33" × 34.61")
Arm Cylinder –	0100 × 867 mm
Bore × Stroke	(\$3.94" × 34.13")
Bucket Cylinder –	Ф <b>90 × 710 mm</b>
Bore × Stroke	(\$\Phi 3.54" × 27.95")

ELECTRIC SYSTEM	
System Voltage	

System Voltage	12 V
Batteries	12 V
Alternator	12 V - 80 A
Start motor	12 V - 3 kW (12V - 4 hp)

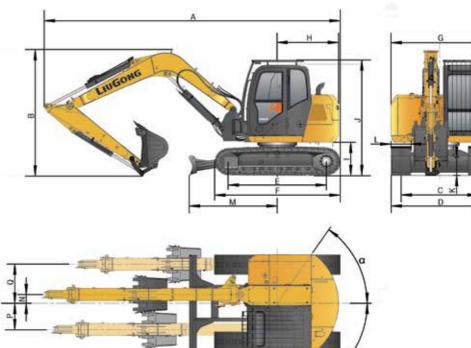
SERVICE CAPACITIES	
Fuel tank	116 L (30.6 gal)
Engine oil	11.6 L (3.1 gal)
Final drive (each)	1.08 L (0.29 gal)
Swing drive	1.6 L (0.42 gal)
Cooling system	14.5 L (3.8 gal)
Hydraulic reservoir	72 L (19.0 gal)
Hydraulic system total	110 L (29.1 gal)

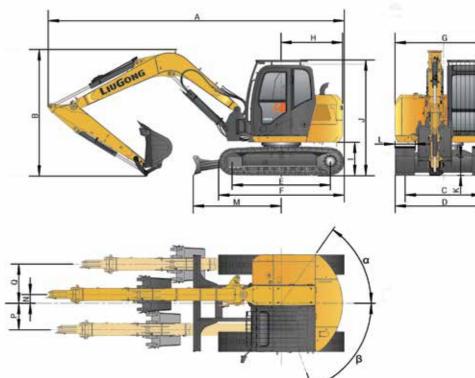
OUND PERFORMANCE	
nterior Sound Power evel (ISO 6396)	73dB(A)
xterior Sound Power evel (ISO 6395)	98 dB(A)

## DRIVE AND BRAKES

Description	
2-speed axial piston motors with oil disk brakes. Steering controlled by two hand levers with pedals.	
Max. travel speed	High: 4.8 km/h (3 mph) Low: 2.8 km/h (1.5 mph)

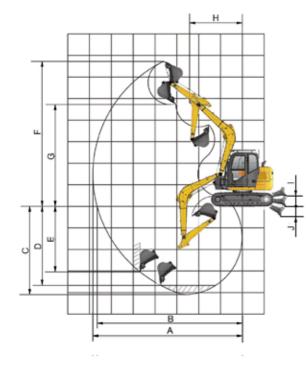
Gradeability	35°/70%
Max. drawbar pull	75 kN (16,861 lbf)





DIMENSIONS			BOOM DI	MENSIONS	
Boom	3,375 m	ım (11'1")	Boom	3,3	75 mm (11'1")
Arm Options	1,650 mm (5'5")	2,100 mm (6'11")	Length	3,5	i10 mm (11'6")
A Shipping Length	6115 / 6	6200 mm	Height	1,2	36 mm (4'1")
B Shipping Height – Top of Cab	2,80	0mm	Width	424	4 mm (1'5")
C Track Gauge	1,750 mm (5'9")	/ 1,950 mm (6'5")	Weight	43	5 kg (959 lb)
D Undercarriage Width – with 450 mm Shoes	2,200 mm (7'3")	/ 2,400 mm (7'10")	Only boon	n.	
E Length to Center of Rollers	2,230 n	nm (7'4")			
F Track Length	2,845 n	nm (9'4")	ARM DIM	ENSIONS	
G Overall Width of Upper Structure	2,200 n	nm (7'3")	Arm	1,650 mm (5'5")	2,100 mm (6'11")
H Tail Swing Radius	1,410 n	nm (4'8")	Length	2,205 mm (7'3")	2,660 mm (8'9")
I Counterweight Ground Clearance	760 m	m (2'6")	Height	510 mm (1'8")	510 mm (1'8")
J Overall Height of Cab	2,800 n	nm (9'2")	Width	220 mm (10")	244 mm (9")
K Min. Ground Clearance	360 m	m (1'2")	Weight	165 kg (364 lb)	210 kg (463 lb)
L Track Shoe Width	450 m	ım (18")	Only arm.		
M Dozer Blade - Maximum Reach at Ground Level	2,033 n	nm (6'8")			
N Offset	200 n	nm (8")			
O Maximum Boom Offset to the Right	886 mr	m (2'11")			
P Maximum Boom Offset to the Left	598 n	nm (2')			
α Maximum Boom Swing Angle to the Right	5	5°			
β Maximum Boom Swing Angle to the Left	6	5°	•		





WORKING RANGE		
Boom	3,375 m	m (11'1")
Arm Options	1,650 mm (5'5")	2,100 mm (6'11")
A. Max. Digging Reach	6,847 mm (22'6")	7,264 mm (23'10")
B. Max. Digging Reach on Ground	6,651 mm (21'10")	7,082 mm (23'3")
C. Max. Digging Depth	4,093 mm (13'5")	4,540 mm (14'11")
D. Max. Digging Depth, 2.44 m (8') Level	3,670 mm (12')	4,163 mm (13'8")
E. Max. Vertical Wall Digging Depth	3,043 mm (10')	3,963 mm (13')
F. Max. Cutting Height	6,724 mm (22'1")	7,016 mm (23')
G. Max. Dumping Height	4,725 mm (15'6")	5,000 mm (16'5")
H. Min. Front Swing Radius	2,421 mm (7'11")	2,421 mm (7'11")
I. Lift above Ground	440 mm (1'5'')	440 mm (1'5'')
J. Depth below Ground	420 mm (1'5'')	420 mm (1'5'')
Bucket Digging Force (ISO)	63 kN (14,163 lbf)	63 kN (14,163 lbf)
Arm Digging Force (ISO)	43 kN (9,667 lbf)	37 kN (8,318 lbf)
Bucket Capacity	0.28 m <sup>3</sup> (0.37 yd <sup>3</sup> )	0.28 m <sup>3</sup> (0.37 yd <sup>3</sup> )
Bucket Tip Radius	1,020 mm (3'4")	1,020 mm (3'4")

MACHINE	WEIGHTS AN	ND GROUND PRESSURE				
Shoe	Shoe	Overall width	Operating weight	Ground pressure	Operating weight	Ground pressure
width	type		3,375 mm (11'1") boom, 1,6 (0.37 yd <sup>3</sup> ) bucket, 1,400 kg		3,375 mm (11'1") boom, 2,1 (0.37 yd³) bucket, 1,400 kg	
450 mm	Metal -	2,200 mm (7'3")	8,700 kg (19,180 lb)	38.4 kPa (5.6 psi)	8,700 kg (19,180 lb)	38.4 kPa (5.6 psi)
(18")	wetar -	2,400 mm (7'10")	8,800 kg (19,400 lb)	38.9 kPa (5.6 psi)	8,800 kg (19,400 lb)	38.9 kPa (5.6 psi)
450 mm	Rubber -	2,200 mm (7'3")	8,500 kg (18,739 lb)	37.6 kPa (5.4 psi)	8,500 kg (18,739 lb)	37.6 kPa (5.4 psi)
(18")	") Rubber 2,400 mm		8,600 kg (18,960 lb)	38 kPa (5.5 psi)	8,600 kg (18,960 lb)	38 kPa (5.5 psi)

BUCKET SELECTION	GUIDE					
					3.375 m (1	1'1") Boom
Bucket type	Capacity	Cutting width	Weight	Teeth pcs	1.65 m (5'5") Arm	2.1 m (6'11") Arm
General purpose	0.28 m³ (0.37 yd³)	765 mm (2'6")	221 kg (487 lb)	4	A	В

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:

A 1,200–1,300 kg/m<sup>3</sup> (2,023–2,191 lb/yd<sup>3</sup>): Coal, Caliche, Shale B 1,400–1,600 kg/m<sup>3</sup> (2,360–2,697 lb/yd<sup>3</sup>): Wet earth and clay, limestone, sandstone C 1,700–1,800 kg/m<sup>3</sup> (2,865–3,034 lb/yd<sup>3</sup>): Granite, wet sand, well blasted rock

D 1,900 kg/m<sup>3</sup> (3,203 lb/yd<sup>3</sup>): Wet mud, Iron ore NA. Not applicable

Lifting capacity at the arm end without bucket. For lifting capacity including bucket, weight of the bucket or the bucket with quick coupler must be deducted from the lifting capacities. Lifting capacities are based on the machine standing on a firm, uniform supporting surface.

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LIFTING CAPACITY (I	METRIC)										
909ECR with 450	mm shoes	s, 1,650 mm	arm (Stan	dard)	Condition	S					
A: Reach from sw B: Bucket hook he C: Lifting capacity Cf: Rating over fro Cs: Rating over sid		Arm length Bucket: No Shoes: 450	n: 1,650 mm one		e boom			V			
					Blade: Do	wn					
					A (Unit: r	m)					
B (m) —		2	3		4		5		MAX REACH		
в (m) –	Cf	Cs	Cf	Cs	Cf	Cs	Cf	Cs	Cf	Cs	A (m)
4					*1,770	*1,770	*1,850	1,290	*1,870	1,250	5.1
3			*2,670	*2,670	*2,150	1,810	*1,950	1,260	*1,940	1,050	5.6
2			*4,250	2,600	*2,720	1,700	*2,200	1,220	*2,030	970	5.8
1			*5,180	2,440	*3,220	1,610	*2,450	1,170	*2,120	950	5.8
GROUND LEVEL			*5,260	2,410	*3,470	1,560	*2,590	1,140	*2,260	990	5.6
-1		5,370	*4,980	2,430	*3,420	1,560	*2,510	1,140	*2,410	1,110	5.1
-2		5,470	*4,260	2,490	*2,940	1,600			*2,580	1,440	4.3

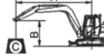
					Blade: U	p						
	A (Unit: m)											
<b>P</b> (m)	2		;	3		4	ļ	5	N		н	
B (m)	Cf	Cs	Cf	Cs	Cf	Cs	Cf	Cs	Cf	Cs	A (m)	
4					*1,770	*1,770	1,320	1,290	1,280	1,250	5.1	
3			*2,670	*2,670	1,850	1,810	1,300	1,260	1,080	1,050	5.6	
2			2,680	2,600	1,750	1,700	1,250	1,220	990	970	5.8	
1			2,520	2,440	1,650	1,610	1,200	1,170	970	950	5.8	
GROUND LEVEL			2,490	2,410	1,610	1,560	1,180	1,140	1,010	990	5.6	
-1	5,590	5,370	2,500	2,430	1,600	1,560	1,180	1,140	1,140	1,110	5.1	
-2	5,690	5,470	2,560	2,490	1,640	1,600			1,480	1,440	4.3	



 Do not attempt to lift or hold any load that is greater than these rated values at their specified load radius and height. Weight of all accessories must be deducted from the above lifting

- The rated loads are in compliance with ISO 10567 Hydraulic Excavator Lift Capacity Rating Standard. They do not exceed 87% of hydraulic lifting capacity or 75% tipping load. 3. Ratings at bucket lift hook.
- 4. Lifting capacities are based on machine standing on level, firm and uniform ground.
- 5. \*Indicates the load is limited by hydraulic capacity rather than tipping capacity.
- 6. Operator should be fully acquainted with the Operator's and Maintenance Instructions before operating this machine and rules for the safe operation of equipment should be adhered to at all times.

capacities.



LIFTING CAPAC	CITY (METRIC)										
909ECR with	450 mm shoes	, 1,650 mn	n arm (Stan	dard)	Condition	IS					
<ul> <li>A: Reach from swing center</li> <li>B: Bucket hook height</li> <li>C: Lifting capacity</li> <li>Cf: Rating over front</li> <li>Cs: Rating over side</li> </ul>					Arm length Bucket: No Shoes: 450						
					Blade: Do	wn					
					A (Unit: r	m)					
<b>D</b> (m)	:	2	;	3		4	Ę	5	Ν	MAX REAC	н
B (m)	Cf	Cs	Cf	Cs	Cf	Cs	Cf	Cs	Cf	Cs	A (m)
4					*1,770	*1,770	*1,850	1,510	*1,870	1,470	5.1
3	3 *2,670 *2,6					2,130	*1,950	1,490	*1,940	1,240	5.6

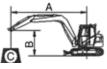
3		2,070	2,070	2,150	2,130	1,950	1,490	1,940	1,240	5.0
2		*4,250	3,150	*2,720	2,020	*2,200	1,440	*2,030	1,140	5.8
1		*5,180	2,980	*3,220	1,920	*2,450	1,390	*2,120	1,120	5.8
GROUND LEVEL		*5,260	2,950	*3,470	1,880	*2,590	1,370	*2,260	1,170	5.6
-1	6,950	*4,980	2,970	*3,420	1,870	*2,510	1,370	*2,410	1,320	5.1
-2	6,910	*4,260	3,030	*2,940	1,910			*2,580	1,720	4.3

					Blade: Up								
	A (Unit: m)												
	2		;	3		4	5		Ν	IAX REAC	н		
B (m)	Cf	Cs	Cf	Cs	Cf	Cs	Cf	Cs	Cf	Cs	A (m)		
4					*1,770	*1,770	1,320	1,510	1,280	1,470	5.1		
3			*2,670	*2,670	1,850	2,130	1,300	1,490	1,080	1,240	5.6		
2			2,680	3,150	1,750	2,020	1,250	1,440	990	1,140	5.8		
1			2,520	2,980	1,650	1,920	1,200	1,390	970	1,120	5.8		
GROUND LEVEL			2,490	2,950	1,610	1,880	1,180	1,370	1,010	1,170	5.6		
-1	5,590	6,950	2,500	2,970	1,600	1,870	1,180	1,370	1,140	1,320	5.1		
-2	5,690	6,910	2,560	3,030	1,640	1,910			1,480	1,720	4.3		

LIFTING CAPACITY (	METRIC)												
909ECR with 450	mm sho	es, 2,100	mm arm			Conditio	ons						
B: Bucket hook h C: Lifting capacit Cf: Rating over fro	B: Bucket hook height C: Lifting capacity							Boom length: 3,375 mm Arm length: 2,100 mm Bucket: None Shoes: 450 mm Undercarriage width: 2,200 mm Unit: kg					
					В	lade: Dov	wn						
						A (Unit: m	1)						
P (m)	3 (m) 2 3					4	ţ	5	6		MAX REACH		н
B (m) -	Cf	Cs	Cf	Cs	Cf	Cs	Cf	Cs	Cf	Cs	Cf	Cs	A (m)
4					*1,410	*1,410	*1,560	1,070			*1,670	870	5.6
3					*1,810	1,520	*1,730	1,040	*1,730	750	*1,730	750	6.0
2			*3,530	2,240	*2,420	1,420	*2,010	990	*1,710	730	*1,820	690	6.2
1			*4,830	2,020	*3,020	1,320	*2,090	940	*1,970	710	*1,920	670	6.2
GROUND LEVEL		4,240	*5,290	1,940	*3,180	1,250	*2,530	910	*2,020	690	*2,040	690	6.0
-1		4,280	*5,220	1,930	*3,490	1,230	*2,580	890			*2,190	760	5.6
-2		4,360	*4,730	1,970	3,240	1,240					*2,370	930	4.9
-3		4,540	*3,520	2,050							*2,610	1,490	3.7

						Blade: Up	)						
	A (Unit: m)												
<b>B</b> (m)		2		3	;	3		4	į	5	М	AX REAC	н
B (m)	Cf	Cs	Cf	Cs	Cf	Cs	Cf	Cs	Cf	Cs	Cf	Cs	A (m)
4					*1,410	*1,410	1,100	1,070			890	870	5.6
3					1,560	1,520	1,070	1,040	770	750	770	750	6.0
2			2,310	2,240	1,460	1,420	1,020	990	820	730	710	690	6.2
1			2,090	2,020	1,360	1,320	1,110	940	730	710	690	670	6.2
GROUND LEVEL		4,240	2,010	1,940	1,290	1,250	930	910	710	690	710	690	6.0
-1		4,280	2,000	1,930	1,270	1,230	920	890			790	760	5.6
-2		4,360	2,030	1,970	1,280	1,240					960	930	4.9
-3		4,540	2,120	2,050							1,540	1,490	3.7





## LIFTING CAPACITY (METRIC)

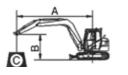
## 909ECR with 450 mm shoes, 2,100 mm arm

5,880 \*3,520 2,510

A: Reach from swing center

- B: Bucket hook height C: Lifting capacity Cf: Rating over front
- Cs: Rating over side

\_\_\_\_\_ -3 Boom length: 3,375 mm Arm length: 2,100 mm Bucket: None Shoes: 450 mm Undercarriage width: 2,400 mm Unit: kg



\*2,610 1,790

3.7

# lade: Dov

Conditions

						biade: Dov	/11						
					4	A (Unit: n	ו)						
		2		3	4	4	Ę	5	6	;	м	AX REAC	ж
B (m) -	Cf	Cs	Cf	Cs	Cf	Cs	Cf	Cs	Cf	Cs	Cf	Cs	A (m)
4					*1,410	*1,410	*1,560	1,260			*1,670	1,030	5.6
3					*1,810	1,800	*1,730	1,230	*1,730	900	*1,730	890	6.0
2			*3,530	2,710	*2,420	1,690	*2,010	1,180	*1,710	880	*1,820	830	6.2
1			*4,830	2,480	*3,020	1,590	*2,090	1,130	*1,970	850	*1,920	810	6.2
GROUND LEVEL		5,550	*5,290	2,400	*3,180	1,520	*2,530	1,090	*2,020	840	*2,040	830	6.0
-1		5,590	*5,220	2,390	*3,490	1,500	*2,580	1,080			*2,190	920	5.6
-2		5,690	*4,730	2,420	*3,240	1,510					*2,370	1,130	4.9

						Blade: Up	þ						
A (Unit: m)													
<b>P</b> (m)		2	3		3		4		ļ	5	Μ	AX REAC	н
B (m) -	Cf	Cs	Cf	Cs	Cf	Cs	Cf	Cs	Cf	Cs	Cf	Cs	A (m)
4					*1,410	*1,410	1,100	1,260			890	1,030	5.6
3					1,560	1,800	1,070	1,230	770	900	770	890	6.0
2			2,310	2,710	1,460	1,690	1,020	1,180	820	880	710	830	6.2
1			2,090	2,480	1,360	1,590	1,110	1,130	730	850	690	810	6.2
GROUND LEVEL		5,550	2,010	2,400	1,290	1,520	930	1,090	710	840	710	830	6.0
-1		5,590	2,000	2,390	1,270	1,500	920	1,080			790	920	5.6
-2		5,690	2,030	2,420	1,280	1,510					960	1,130	4.9
-3		5,880	2,120	2,510							1,540	1,790	3.7

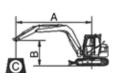
### 909ECR with 5'5" Arm,11'1" Boom, 18" Shoes Conditions A: Reach from swing center B: Bucket hook height C: Lifting capacity Cf: Rating over front Shoes: 18" Cs: Rating over side Unit: Ibs Blade: Down A (Un 6'7" 9'10" B (ft) Cf Cf Cs Cs Cf 13'1" \*3,903 9'10" \*4,741 \*5,887 \*5,887 6'7" \*5,999 \*9,371 5,733 3'3" \*11,422 5,380 \*7,100 GROUND LEVEL \*11,598 5,314 \*7,651 -3'3" 11,841 \*10,981 5,358 \*7,541 -6'7" 12,061 \*9,393 5,490 \*6,483

LIFTING CAPACITY (METRIC)

					Blade: U	р					
					A (Unit: f	t)					
D (64)	6'	7"	9'	10"	13	'1"	16	'5"	n		н
B (ft)	Cf	Cs	Cf	Cs	Cf	Cs	Cf	Cs	Cf	Cs	A (ft)
13'1"					*3,903	*3,903	2,911	2,844	2,822	2,756	16.7
9'10"			*5,887	*5,887	4,079	3,991	2,867	2,778	2,381	2,315	18.3
6'7"			5,909	5,733	3,859	3,749	2,756	2,690	2,183	2,139	19.0
3'3"			5,557	5,380	3,638	3,550	2,646	2,580	2,139	2,095	19.0
GROUND LEVEL			5,490	5,314	3,550	3,440	2,602	2,514	2,227	2,183	18.3
-3'3"	12,326	11,841	5,513	5,358	3,528	3,440	2,602	2,514	2,514	2,448	16.8
-6'7"	12,546	12,061	5,645	5,490	3,616	3,528			3,263	3,175	14.2



Boom length: 11'1" Arm length: 5'5" Bucket: None Undercarriage width: 7'3"



nit:	ft)	
------	-----	--

13	"1"	16	' <b>5</b> "	MAX REACH						
	Cs	Cf	Cs	Cf	Cs	A (ft)				
03	*3,903	*4,079	2,844	*4,123	2,756	16.7				
41	3,991	*4,300	2,778	*4,278	2,315	18.3				
99	3,749	*4,851	2,690	*4,476	2,139	19.0				
00	3,550	*5,402	2,580	*4,675	2,095	19.0				
51	3,440	*5,711	2,514	*4,983	2,183	18.3				
41	3,440	*5,535	2,514	*5,314	2,448	16.8				
33	3,528			*5,689	3,175	14.2				

909ECR with 5'5"	Arm,11'1"	Boom, 18"	Shoes		Condition	s					
A: Reach from swi B: Bucket hook he C: Lifting capacity Cf: Rating over fror Cs: Rating over side	eight / nt				Boom leng Arm length Bucket: No Shoes: 18" Undercarri Unit: Ibs	i: 5'5" one	7'10"		1		V
					Blade: Do	wn					
					A (Unit: f	t)					
D ((1)	6	<b>'</b> 7"	9'1	0"	13'1"		16'5"		N		н
B (ft) –	Cf	Cs	Cf	Cs	Cf	Cs	Cf	Cs	Cf	Cs	A (ft)
13'1"					*3,903	*3,903	*4,079	3,330	*4,123	3,241	16.7
9'10"			*5,887	*5,887	*4,741	4,697	*4,300	3,285	*4,278	2,734	18.3
6'7"			*9,371	6,946	*5,998	4,454	*4,851	3,175	*4,476	2,514	19.0
3'3"			*11,422	6,571	*7,100	4,234	*5,402	3,065	*4,675	2,470	19.0
GROUND LEVEL			*11,598	6,505	*7,651	4,145	*5,711	3,021	*4,983	2,580	18.3
-3'3"		15,325	*10,981	6,549	*7,541	4,123	*5,535	3,021	*5,314	2,911	16.8

\*6,483

4,212

\*5,689

3,793

14.2

6,681

15,237

\*9,393

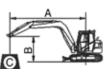
					Blade: U	þ					
					A (Unit: 1	ft)					
D (44)	6'	7"	9'	10"	13	13'1"		16'5"		MAX REACH	
B (ft)	Cf	Cs	Cf	Cs	Cf	Cs	Cf	Cs	Cf	Cs	A (ft)
13'1"					*3,903	*3,903	2,911	3,330	2,822	3,241	16.7
9'10"			*5,887	*5,887	4,079	4,697	2,867	3,285	2,381	2,734	18.3
6'7"			5,909	6,946	3,859	4,454	2,756	3,175	2,183	1,140	19.0
3'3"			5,557	6,571	3,638	4,234	2,646	3,065	2,139	2,470	19.0
GROUND LEVEL			5,490	6,505	3,550	4,145	2,602	3,021	2,227	2,580	18.3
-3'3"	12,326	15,325	5,513	6,549	3,528	4,123	2,602	3,021	2,514	2,911	16.8
-6'7"	12,546	15,237	5,645	6,681	3,616	4,212			3,263	3,793	14.2

LIFTING CAPACITY (METRIC)													
909ECR with 6'11	" Arm,11	'1" Boom	, 18" Shoe	s		Conditio	ons						
A: Reach from sw B: Bucket hook h C: Lifting capacit Cf: Rating over fro Cs: Rating over sig	eight y ont	er				Arm leng Bucket: I Shoes: 1	None						
					В	lade: Dov	vn						
						A (Unit: fi	t)						
D (64)	6	'7"	9'1	0"	13	'1"	16	'5"	19'8"		М	AX REAC	н
B (ft)	Cf	Cs	Cf	Cs	Cf	Cs	Cf	Cs	Cf	Cs	Cf	Cs	A (ft)
13'1"					*3,109	*3,109	*3,440	2,359			*3,682	1,918	18.4
9'10"					*3,991	3,352	*3,815	2,293	*3,815	1,654	*3,815	1,654	19.8
6'7"			*7,784	4,939	*5,336	3,131	*4,432	2,183	*3,771	1,610	*4,013	1,521	20.4
3'3"			*10,650	4,454	*6,659	2,911	*4,608	2,073	*4,344	1,566	*4,234	1,477	20.4
GROUND LEVEL		9,349	*11,664	4,278	*7,012	2,756	*5,579	2,007	*4,454	1,521	*4,498	1,521	19.8
-3'3"		9,437	*11,510	4,256	*7,695	2,712	*5,689	1,962			*4,829	1,676	18.4
-6'7"		9,614	*10,430	4,344	*7,144	2,734					*5,226	2,051	16.1
-9'10"		10,011	*7,762	4,520							*5,755	3,285	12.0

						Blade: Up	)						
						A (Unit: ft	)						
6'7" 9'10" 13'1" 16'5" 19'8" MAX REA												AX REAC	H
B (ft)	Cf	Cs	Cf	Cs	Cf	Cs	Cf	Cs	Cf	Cs	Cf	Cs	A (ft)
13'1"					*3,109	*3,109	2,426	2,359			1,962	1,918	18.4
9'10"					3,440	3,352	2,359	2,293	1,698	1,654	1,698	1,654	19.8
6'7"			5,094	4,939	3,219	3,131	2,249	2,183	1,808	1,610	1,566	1,521	20.4
3'3"			4,608	4,454	2,999	2,911	2,448	2,073	1,610	1,566	1,521	1,477	20.4
GROUND LEVEL		9,349	4,432	4,278	2,844	2,756	2,051	2,007	1,566	1,521	1,566	1,521	19.8
-3'3"		9,437	4,410	4,256	2,800	2,712	2,029	1,962			1,742	1,676	18.4
-6'7"		9,614	4,476	4,344	2,822	2,734					2,117	2,051	16.1
-9'10"		10,011	4,675	4,520							3,396	3,285	12.0

-6'7"





## LIFTING CAPACITY (METRIC)

## 909ECR with 6'11" Arm,11'1" Boom, 18" Shoes

- A: Reach from swing center
- B: Bucket hook height
- Lifting capacity C:
- Cf: Rating over front
- Cs: Rating over side

### Boom length: 11'1" Arm length: 6'11" Bucket: None Shoes: 18" Undercarriage width: 7'10" Unit: lbs

Conditions



						Blade: Do	wn							
	A (Unit: ft)													
D (64)	6	ö'7"	9'10"		13'1"		16'5"		19'8"		MAX REACH		н	
B (ft) -	Cf	Cs	Cf	Cs	Cf	Cs	Cf	Cs	Cf	Cs	Cf	Cs	A (ft)	
13'1"					*3,109	*3,109	*3,440	2,778			*3,682	2,271	18.4	
9'10"					*3,991	3,969	*3,815	2,712	*3,815	1,985	*3,815	1,962	19.8	
6'7"			*7,784	5,976	*5,336	3,726	*4,432	2,602	*3,771	1,940	*4,013	1,830	20.4	
3'3"			*10,650	5,468	*6,659	3,506	*4,608	2,492	*4,344	1,874	*4,234	1,786	20.4	
GROUND LEVEL		12,238	*11,664	5,292	*7,012	3,352	*5,579	2,403	*4,454	1,852	*4,498	1,830	19.8	
-3'3"		12,326	*11,510	5,270	*7,695	3,308	*5,689	2,381			*4,829	2,029	18.4	
-6'7"		12,546	*10,430	5,336	*7,144	3,330					*5,226	2,492	16.1	
-9'10"		12,965	*7,762	5,535							*5,755	3,947	12.0	

						Blade: U	р						
						A (Unit: f	t)						
D (44)													н
B (ft) -	Cf	Cs	Cf	Cs	Cf	Cs	Cf	Cs	Cf	Cs	Cf	Cs	A (ft)
13'1"					*3,109	*3,109	2,426	2,778			1,962	2,271	18.4
9'10"					3,440	3,969	2,359	2,712	1,698	1,985	1,698	1,962	19.8
6'7"			5,094	5,976	3,219	3,726	2,249	2,602	1,808	1,940	1,566	1,830	20.4
3'3"			4,608	5,468	2,999	3,506	2,448	2,492	1,610	1,874	1,521	1,786	20.4
GROUND LEVEL		12,238	4,432	5,292	2,844	3,352	2,051	2,403	1,566	1,852	1,566	1,830	19.8
-3'3"		12,326	4,410	5,270	2,800	3,308	2,029	2,381			1,742	2,029	18.4
-6'7"		12,546	4,476	5,336	2,822	3,330					2,117	2,492	16.1
-9'10"		12,965	4,675	5,535							3,396	3,947	12.0

# **STANDARD EQUIPMENT**

### **ENGINE SYSTEM**

- Yanmar engine, inline 4 cylinders, 4 stroke, water cooled, natural aspiration, common rail, EGR. DPF
- Air filter
- Pre-filter with water separator Engine oil filter
- Auto-idle speed control
- Radiator. oil cooler
- · Engine overheat prevention system
- Fuel refilling pump

### DRIVETRAIN

- · Hydraulic motor, piston type and two-gear reducer
- 2-speed travel system with automatic shift

## HYDRAULIC SYSTEM

- Main pump: one variable displacement piston amua
- Cylinders: boom, arm, bucket, swing, dozer
- · Swing with function of preventing anti-reverse
- Boom and arm regeneration circuits
- Load holding valve at boom and arm cylinder
- Pilot control shut-off lever
- Two way auxiliary pipe with variable flow and variable pressure, and changed by switch valve • Two electrical proportional joysticks

# **OPTIONAL EQUIPMENT**

## HYDRAULIC SYSTEM

- Hydraulic attachments rotation lines with variable flow and variable pressure
- arm supply dropped when the lines split.

- Single auxiliary pipe for oil returning
- Dozer float function
- SAE/BHL option change

ELECTRICAL

Rearview camera

**OPERATOR STATION** 





· High-torque piston swing motor with integral spring set and automatic hydraulic release

• 3,375 mm (11'1") boom

SWING SYSTEM

swing brake

**DIGGING EQUIPMENT** 

• 1,650 mm (5'5") arm

**OPERATOR STATION** 

lower window

· Cigarette lighter

• Fire extinguisher

One key for all locks

· Cup holder

Economy

front of cab

Floor mat

- 0.28 m<sup>3</sup> (0.37 yd<sup>3</sup>) bucket (SAE, heaped)
- · Pressurized and sealed cab, 2-speed wiper with additional intermitted interval and removable
- Auto air conditioner, heater, defroster · Mechanic suspension seat AM/FM radio with blueteeth · Glass-breaking hammer
- Roll-Over Protective System (ROPS) · 2-working mode selection system: Power,
- Operation protection guard, include top and

## INSTRUMENTATION

- Color LCD monitor with alarms, filter/fluid change, fuel rate, water temperature, work mode, fault code, hour meter, etc.
- Fuel gauge
- · Hydraulic oil level gauge

## ELECTRICAL

- Alternator 12 V. 80 A
- One battery 12 V
- Working lights, 2 cab mounted, 1 boom mounted
- Starting, 12 V, 3 kW
- Overloading warning

## UNDERCARRIAGE

- 450 mm (18") track-shoes with triple grousers
- Rollers, bottom 6 each side, top 1 each side
- Towing eye on base frame
- Track gauge 1,750 mm (5'9")

## **GUARDS**

· Cover plate under travel frame

## **OTHER STANDARD EQUIPMENT**

- 1,400 kg (3,086 lb) counterweight
- Maintenance tool kit
- Maintenance parts package

• Air suspension seat with heating Safety net for front window • 3', 2', orange, red seat belt

• LED working lights on cab, 4 front and 2 rear

• Rotating beacon (top cab mounted, for caution,

### **UPPER STRUCTURE**

- Additional counterweight, 350 kg (772 lb)

### UNDERCARRIAGE

- Integral rubber shoes, 450 mm (18")Rubber block on track shoes
- Steel shoes with rubber pads, 450 mm (18")

## DIGGING EQUIPMENT



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