

909ECR

Engine	Yanmar 4TNV98C, EU Stage IIIB
Net Power	59 hp (44 kW)
Operating Weight	8,700 kg (19,180 lb)
Bucket Capacity	0.23 - 0.32 m ³ (0.3 - 0.42 yd ³)

909ECR

EXCAVATOR



TOUGH WORLD. TOUGH EQUIPMENT.

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 :

1



**COMPACT IN SIZE,
BIG ON FEATURES**

2



UPTIME AND SUPPORT

3



TOTAL COST OF OWNERSHIP



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



TOUGH FACTS

TOUGH QUALITY STANDARDS

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

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

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 in Liuzhou China, 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 PARTNERS

LiuGong has teamed up with some of the industry's best known names. Here's just a few of our valued joint venture partners;

- German drivetrain components manufacturer ZF Friedrichshafen AG
- Finnish mining and aggregates processing equipment manufacturer Metso
- North American diesel engine manufacturer Cummins

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.

POWERFUL ENGINE

The fuel efficient, Stage IIIB 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 backfilling will be easier.



SIMPLY MULTIFUNCTIONAL

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.

COMFORTABLE OPERATION ENVIRONMENT

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

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.





JOBSITE UPTIME AND SUPPORT

Compact size with many features 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?

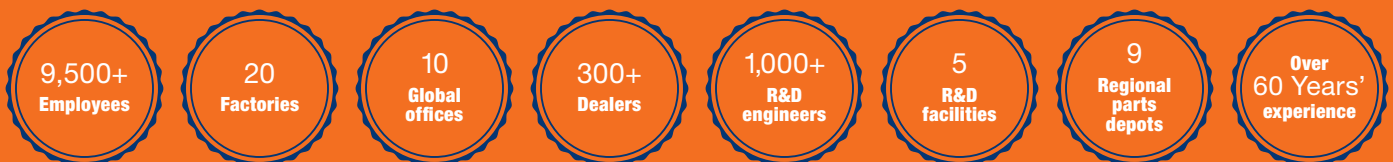
FAST RESPONDING GLOBAL NETWORK

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

All supported by 10 regional subsidiaries and 9 global parts centers offering expert training, parts and service support.



WE ARE LIUGONG. WORKING HARD TO KEEP OUR GLOBAL CUSTOMERS EARNING



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.

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.



**Right parts.
Right price.
Right service.**

**Above all,
we get it right
the first time.**

1st



LIUGONG SERVICE PROMISE



Highly trained technicians
utilizing the latest
diagnostic equipment



15,000+ Genuine LiuGong
parts available within 24hrs
from our European Parts
Distribution Center



Multi-lingual service helpline
and online support



Transparent estimates
and invoicing



Clear communications through
electronic parts catalogue

SPECIFICATIONS

Operating weight 8,700 kg (19,180 lbs)

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

Bucket capacity 0.28 m³ (0.37 yd³)

ENGINE

Description

Yanmar, Stage IIIB, inline 4-cylinder, water-cooled, direct injection, EGR + DPF + high pressure common rail diesel engine.

Emission rating EU Stage IIIB

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) 59 hp (44 kW)

Engine output - gross
(SAE J1995 / ISO 14396) 63 hp (46 kW)

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 pump

Type Variable displacement piston pump

Maximum flow 196 L/min
(51.8 gal/min)

Relief valve setting

Implement 28 MPa (4,061 psi)

Travel circuit 31.4 MPa (4,554 psi)

Slew circuit 28 MPa (4,061 psi)

Pilot circuit 3.9 MPa (566 psi)

Hydraulic cylinders

Boom Cylinder – Bore × Stroke $\Phi 110 \times 879$ mm
($\Phi 4.33" \times 34.61"$)

Stick Cylinder – Bore × Stroke $\Phi 100 \times 867$ mm
($\Phi 3.94" \times 34.13"$)

Bucket Cylinder – Bore × Stroke $\Phi 90 \times 710$ mm
($\Phi 3.54" \times 27.95"$)

ELECTRIC SYSTEM

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)

SOUND PERFORMANCE

Interior Sound Power Level (ISO 6396) 75 dB(A)

Exterior Sound Power Level (ISO 6395) 98 dB(A)

DRIVE AND BRAKES

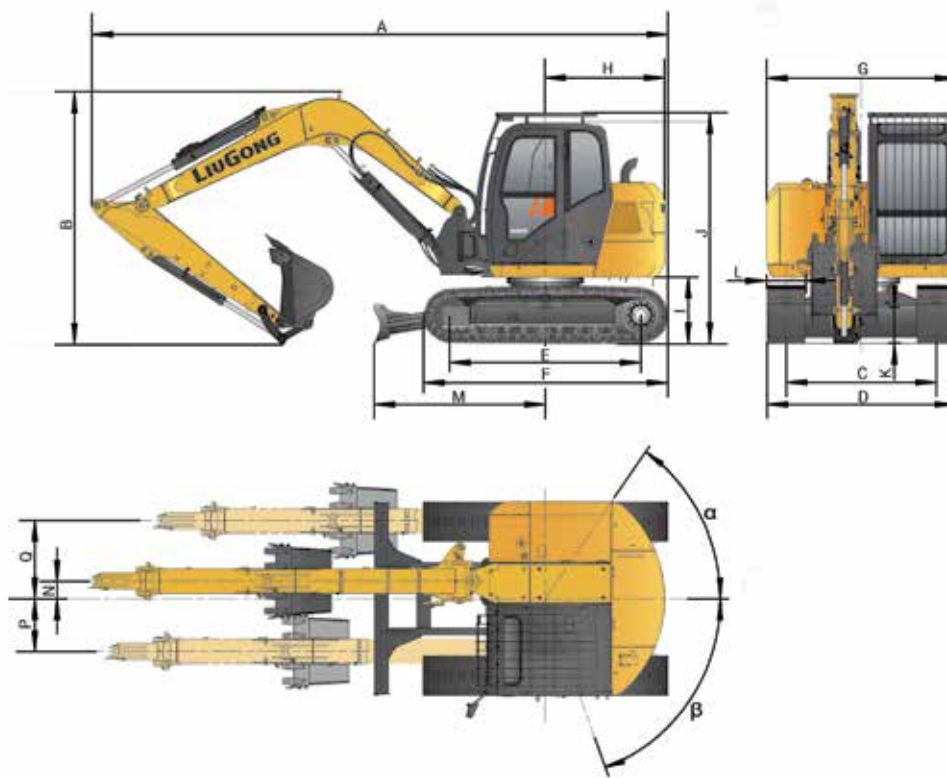
Description

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	3,375 mm (11'1")	
Arm Options	1,650 mm (5'5")	2,100 mm (6'11")
A Shipping Length	6,460 mm (21'2")	
B Shipping Height – Top of Cab	2,730 mm (8'11")	
C Track Gauge	1,750 mm (5'9") / 1,950 mm (6'5")	
D Undercarriage Width – with 450 mm Shoes	2,200 mm (7'3") / 2,400 mm (7'10")	
E Length to Center of Rollers	2,230 mm (7'4")	
F Track Length	2,845 mm (9'4")	
G Overall Width of Upper Structure	2,200 mm (7'3")	
H Tail Swing Radius	1,410 mm (4'8")	
I Counterweight Ground Clearance	760 mm (2'6")	
J Overall Height of Cab	2,800 mm (9'2")	
K Min. Ground Clearance	360 mm (1'2")	
L Track Shoe Width	450 mm (18")	
M Dozer Blade - Maximum Reach at Ground Level	2,033 mm (6'8")	
N Offset	200 mm (8")	
O Maximum Boom Offset to the Right	886 mm (2'11")	
P Maximum Boom Offset to the Left	598 mm (2')	
α Maximum Boom Swing Angle to the Right	55°	
β Maximum Boom Swing Angle to the Left	65°	

BOOM DIMENSIONS

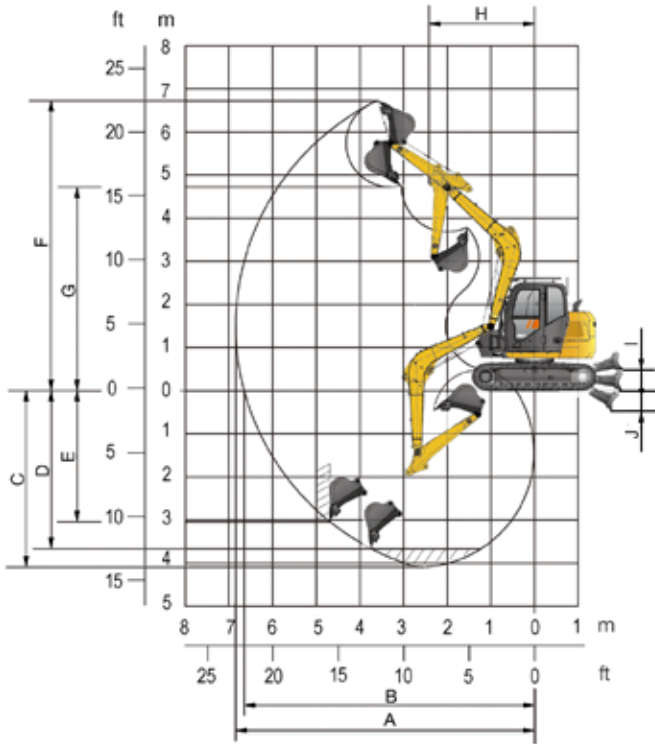
Boom	3,375 mm (11'1")	
Length	3,510 mm (11'6")	
Height	1,236 mm (4'1")	
Width	424 mm (1'5")	
Weight	435 kg (959 lb)	

Only boom.

ARM DIMENSIONS

Arm	1,650 mm (5'5")	2,100 mm (6'11")
Length	2,205 mm (7'3")	2,660 mm (8'9")
Height	510 mm (1'8")	510 mm (1'8")
Width	220 mm (10")	244 mm (9")
Weight	165 kg (364 lb)	210 kg (463 lb)

Only arm.



WORKING RANGE

Boom	3,375 mm (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 ³ (0.37 yd ³)	0.28 m ³ (0.37 yd ³)
Bucket Tip Radius	1,020 mm (3'4")	1,020 mm (3'4")

MACHINE WEIGHTS AND GROUND PRESSURE

Shoe width	Shoe type	Operating weight	Ground pressure	Overall width	Operating weight	Ground pressure	Overall width
		3,375 mm (11'1") boom, 1,650 mm (5'5") arm, 0.28 m ³ (0.37 yd ³) bucket, 1,400 kg (3,086 lb) counterweight			3,375 mm (11'1") boom, 2,100 mm (6'11") arm, 0.28 m ³ (0.37 yd ³) bucket, 1,400 kg (3,086 lb) counterweight		
450 mm (18")	Metal	8,700 kg (19,180 lb)	38.4 kPa (5.6 psi)	2,200 mm (7'3")	8,700 kg (19,180 lb)	38.4 kPa (5.6 psi)	2,200 mm (7'3")
		8,800 kg (19,400 lb)	38.9 kPa (5.6 psi)	2,400 mm (7'10")	8,800 kg (19,400 lb)	38.9 kPa (5.6 psi)	2,400 mm (7'10")
450 mm (18")	Rubber	8,500 kg (18,739 lb)	37.6 kPa (5.4 psi)	2,200 mm (7'3")	8,500 kg (18,739 lb)	37.6 kPa (5.4 psi)	2,200 mm (7'3")
		8,600 kg (18,960 lb)	38 kPa (5.5 psi)	2,400 mm (7'10")	8,600 kg (18,960 lb)	38 kPa (5.5 psi)	2,400 mm (7'10")

BUCKET SELECTION GUIDE

Bucket type	Capacity	Cutting width	Weight	Teeth pcs	3,375 m (11'1") Boom	
					1.65 m (5'5") Arm	2.1 m (6'11") Arm
General purpose	0.28 m ³ (0.37 yd ³)	765 mm (2'6")	221 kg (487 lb)	4	A	B

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/m³ (2,023-2,191 lb/yd³): Coal, Caliche, Shale
- B 1,400-1,600 kg/m³ (2,360-2,697 lb/yd³): Wet earth and clay, limestone, sandstone
- C 1,700-1,800 kg/m³ (2,865-3,034 lb/yd³): Granite, wet sand, well blasted rock
- D 1,900 kg/m³ (3,203 lb/yd³): 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.



Rating over - front (Cf)



Rating over - side (Cs)

1. 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 capacities.
2. 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.

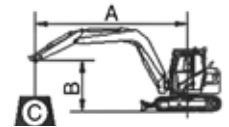
LIFTING CAPACITY (METRIC)

909ECR with 450 mm shoes, 1,650 mm arm (Standard)

Conditions

Boom length: 3,375 mm one-piece boom
Arm length: 1,650 mm
Bucket: None
Shoes: 450 mm
Undercarriage width: 2,200 mm
Unit: kg

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



Blade: Down

A (Unit: m)

B (m)	2		3		4		5		MAX REACH		A (m)
	Cf	Cs	Cf	Cs	Cf	Cs	Cf	Cs	Cf	Cs	
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: Up

A (Unit: m)

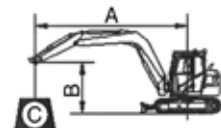
B (m)	2		3		4		5		MAX REACH		A (m)
	Cf	Cs	Cf	Cs	Cf	Cs	Cf	Cs	Cf	Cs	
4					*1,770	*1,770	1,320	1,290	1,280	1,250	5.1
3			*2,670	*2,670	1,850	1,810	1,300	1,260	1,080	1,050	5.6
2			2,680	2,600	1,750	1,700	1,250	1,220	990	970	5.8
1			2,520	2,440	1,650	1,610	1,200	1,170	970	950	5.8
GROUND LEVEL			2,490	2,410	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

LIFTING CAPACITY (METRIC)

909ECR with 450 mm shoes, 1,650 mm arm (Standard)

Conditions

Boom length: 3,375 mm one-piece boom
 Arm length: 1,650 mm
 Bucket: None
 Shoes: 450 mm
 Undercarriage width: 2,400 mm
 Unit: kg



Blade: Down

A (Unit: m)

B (m)	2		3		4		5		MAX REACH		A (m)
	Cf	Cs	Cf	Cs	Cf	Cs	Cf	Cs	Cf	Cs	
4					*1,770	*1,770	*1,850	1,510	*1,870	1,470	5.1
3			*2,670	*2,670	*2,150	2,130	*1,950	1,490	*1,940	1,240	5.6
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)

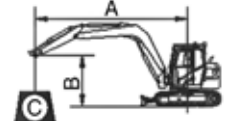
B (m)	2		3		4		5		MAX REACH		A (m)
	Cf	Cs	Cf	Cs	Cf	Cs	Cf	Cs	Cf	Cs	
4					*1,770	*1,770	1,320	1,510	1,280	1,470	5.1
3			*2,670	*2,670	1,850	2,130	1,300	1,490	1,080	1,240	5.6
2			2,680	3,150	1,750	2,020	1,250	1,440	990	1,140	5.8
1			2,520	2,980	1,650	1,920	1,200	1,390	970	1,120	5.8
GROUND LEVEL			2,490	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 shoes, 2,100 mm arm

Conditions

Boom length: 3,375 mm
 Arm length: 2,100 mm
 Bucket: None
 Shoes: 450 mm
 Undercarriage width: 2,200 mm
 Unit: kg



Blade: Down

A (Unit: m)

B (m)	2		3		4		5		6		MAX REACH		A (m)
	Cf	Cs	Cf	Cs	Cf	Cs	Cf	Cs	Cf	Cs	Cf	Cs	
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)

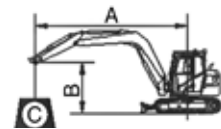
B (m)	2		3		3		4		5		MAX REACH		A (m)
	Cf	Cs	Cf	Cs	Cf	Cs	Cf	Cs	Cf	Cs	Cf	Cs	
4					*1,410	*1,410	1,100	1,070			890	870	5.6
3					1,560	1,520	1,070	1,040	770	750	770	750	6.0
2			2,310	2,240	1,460	1,420	1,020	990	820	730	710	690	6.2
1			2,090	2,020	1,360	1,320	1,110	940	730	710	690	670	6.2
GROUND LEVEL		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

Conditions

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



Blade: Down

A (Unit: m)

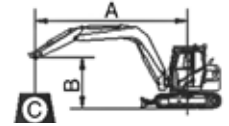
B (m)	2		3		4		5		6		MAX REACH		A (m)
	Cf	Cs	Cf	Cs	Cf	Cs	Cf	Cs	Cf	Cs	Cf	Cs	
4					*1,410	*1,410	*1,560	1,260			*1,670	1,030	5.6
3					*1,810	1,800	*1,730	1,230	*1,730	900	*1,730	890	6.0
2			*3,530	2,710	*2,420	1,690	*2,010	1,180	*1,710	880	*1,820	830	6.2
1			*4,830	2,480	*3,020	1,590	*2,090	1,130	*1,970	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
-3		5,880	*3,520	2,510							*2,610	1,790	3.7

Blade: Up

A (Unit: m)

B (m)	2		3		3		4		5		MAX REACH		A (m)
	Cf	Cs	Cf	Cs	Cf	Cs	Cf	Cs	Cf	Cs	Cf	Cs	
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

LIFTING CAPACITY (METRIC)
909ECR with 5'5" Arm, 11'1" Boom, 18" Shoes
Conditions

 Boom length: 11'1"
 Arm length: 5'5"
 Bucket: None
 Shoes: 18"
 Undercarriage width: 7'3"
 Unit: lbs

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

Blade: Down
A (Unit: ft)

B (ft)	6'7"		9'10"		13'1"		16'5"		MAX REACH		A (ft)
	Cf	Cs	Cf	Cs	Cf	Cs	Cf	Cs	Cf	Cs	
13'1"					*3,903	*3,903	*4,079	2,844	*4,123	2,756	16.7
9'10"			*5,887	*5,887	*4,741	3,991	*4,300	2,778	*4,278	2,315	18.3
6'7"			*9,371	5,733	*5,999	3,749	*4,851	2,690	*4,476	2,139	19.0
3'3"			*11,422	5,380	*7,100	3,550	*5,402	2,580	*4,675	2,095	19.0
GROUND LEVEL			*11,598	5,314	*7,651	3,440	*5,711	2,514	*4,983	2,183	18.3
-3'3"		11,841	*10,981	5,358	*7,541	3,440	*5,535	2,514	*5,314	2,448	16.8
-6'7"		12,061	*9,393	5,490	*6,483	3,528			*5,689	3,175	14.2

Blade: Up
A (Unit: ft)

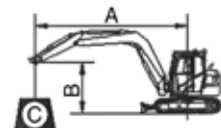
B (ft)	6'7"		9'10"		13'1"		16'5"		MAX REACH		A (ft)
	Cf	Cs	Cf	Cs	Cf	Cs	Cf	Cs	Cf	Cs	
13'1"					*3,903	*3,903	2,911	2,844	2,822	2,756	16.7
9'10"			*5,887	*5,887	4,079	3,991	2,867	2,778	2,381	2,315	18.3
6'7"			5,909	5,733	3,859	3,749	2,756	2,690	2,183	2,139	19.0
3'3"			5,557	5,380	3,638	3,550	2,646	2,580	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

LIFTING CAPACITY (METRIC)

909ECR with 5'5" Arm, 11'1" Boom, 18" Shoes

Conditions

Boom length: 11'1"
 Arm length: 5'5"
 Bucket: None
 Shoes: 18"
 Undercarriage width: 7'10"
 Unit: lbs



Blade: Down

A (Unit: ft)

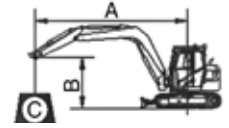
B (ft)	6'7"		9'10"		13'1"		16'5"		MAX REACH		A (ft)
	Cf	Cs	Cf	Cs	Cf	Cs	Cf	Cs	Cf	Cs	
13'1"					*3,903	*3,903	*4,079	3,330	*4,123	3,241	16.7
9'10"			*5,887	*5,887	*4,741	4,697	*4,300	3,285	*4,278	2,734	18.3
6'7"			*9,371	6,946	*5,998	4,454	*4,851	3,175	*4,476	2,514	19.0
3'3"			*11,422	6,571	*7,100	4,234	*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
-6'7"		15,237	*9,393	6,681	*6,483	4,212			*5,689	3,793	14.2

Blade: Up

A (Unit: ft)

B (ft)	6'7"		9'10"		13'1"		16'5"		MAX REACH		A (ft)
	Cf	Cs	Cf	Cs	Cf	Cs	Cf	Cs	Cf	Cs	
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" Shoes
Conditions

 Boom length: 11'1"
 Arm length: 6'11"
 Bucket: None
 Shoes: 18"
 Undercarriage width: 7'3"
 Unit: lbs

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

Blade: Down
A (Unit: ft)

B (ft)	6'7"		9'10"		13'1"		16'5"		19'8"		MAX REACH		A (ft)
	Cf	Cs	Cf	Cs	Cf	Cs	Cf	Cs	Cf	Cs	Cf	Cs	
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)

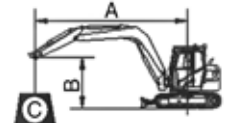
B (ft)	6'7"		9'10"		13'1"		16'5"		19'8"		MAX REACH		A (ft)
	Cf	Cs	Cf	Cs	Cf	Cs	Cf	Cs	Cf	Cs	Cf	Cs	
13'1"					*3,109	*3,109	2,426	2,359			1,962	1,918	18.4
9'10"					3,440	3,352	2,359	2,293	1,698	1,654	1,698	1,654	19.8
6'7"			5,094	4,939	3,219	3,131	2,249	2,183	1,808	1,610	1,566	1,521	20.4
3'3"			4,608	4,454	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

LIFTING CAPACITY (METRIC)

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

Conditions

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



Blade: Down

A (Unit: ft)

B (ft)	6'7"		9'10"		13'1"		16'5"		19'8"		MAX REACH		A (ft)
	Cf	Cs	Cf	Cs	Cf	Cs	Cf	Cs	Cf	Cs	Cf	Cs	
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: Up

A (Unit: ft)

B (ft)	6'7"		9'10"		13'1"		16'5"		19'8"		MAX REACH		A (ft)
	Cf	Cs	Cf	Cs	Cf	Cs	Cf	Cs	Cf	Cs	Cf	Cs	
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 pump
- Cylinders: boom, stick, 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 changed by switch valve
- Two electrical proportional joysticks

SWING SYSTEM

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

DIGGING EQUIPMENT

- 3,375 mm (11'1") boom
- 1,650 mm (5'5") arm
- 0.28 m³ (0.37 yd³) bucket (SAE, heaped)

OPERATOR STATION

- Pressurized and sealed cab, 2-speed wiper with additional intermittent interval and removable lower window
- Auto air conditioner, heater, defroster
- Mechanic suspension seat
- AM/FM radio
- Glass-breaking hammer
- Cigarette lighter
- Cup holder
- Floor mat
- Fire extinguisher
- One key for all locks
- Roll-Over Protective System (ROPS)
- 2-working mode selection system: Power, Economy

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

OPTIONAL EQUIPMENT

HYDRAULIC SYSTEM

- Hydraulic attachments rotation lines with variable flow
- Hose burst safety valves, prevention of boom or arm supply dropped when the lines split.
- Quick coupler liners with alarm (low and high pressure)
- Single auxiliary pipe for oil returning
- Pilot oil preheat
- Dozer float function
- SAE/BHL option change

OPERATOR STATION

- Air suspension seat
- Falling-Object Protective Structures (FOPS)
- Safety net for front window
- 3', 2', orange, red seat belt.
- Safe belt alarm
- Forestry object guards

ELECTRICAL

- LED working lights on cab, 4 front and 2 rear
- Rearview camera
- Travel and swing alarms
- Rotating beacon

UPPER STRUCTURE

- 8 mm thickness platform bottom plate
- Additional counterweight, 300 kg (661 lb)

UNDERCARRIAGE

- Integral rubber shoes, 450 mm (18")
- Rubber block on track shoes
- Track gauge 1,950 mm (6'5")

DIGGING EQUIPMENT

- 2,100 mm (6'11") arm



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