

LIUGONG

909E_{CR} EXCAVATOR

E-SERIES

Engine	Yanmar 4TNV98C-SLY
Net Power	44 kW @ 2,200 rpm
Operating Weight	8,700-10,000kg
Bucket Capacity	0.1-0.5 m ³



TOUGH WORLD. TOUGH EQUIPMENT.

BUILT FOR THE TOUGHEST APPLICATIONS

For over 65 years, LiuGong has built machines that thrive in the toughest environments. The 909E_{CR}, part of our advanced E-Series, is engineered for maximum power, precision, and durability.

Designed to excel in demanding applications, this machine combines cutting-edge technology with proven reliability to keep you working efficiently in even the harshest conditions.

Since launching our first hydraulic excavator in 1992, we've remained committed to innovation, ensuring every LiuGong machine is built to perform, wherever the job takes you.



YOUR PERFORMANCE DASHBOARD

Research tells us that 6 key performance areas really matter to you. We'd like to use this performance dashboard to present the real, tough facts about our 909E_{CR}.



POWER & PERFORMANCE



HYDRAULICS & CONTROLABILITY



TOUGHNESS & RELIABILITY



SAFETY & VISIBILITY



ERGONOMICS & COMFORT



UPTIME & MAINTENANCE

THIS IS LIUGONG



65+
YEARS
EST 1958



30+
PRODUCT LINES



12
GLOBAL R&D CENTERS



30+
GLOBAL OFFICES



16,000+
EMPLOYEES



20+
GLOBAL MANUFACTURING FACILITIES

THE 909E_{CR} IN ACTION...

The 909E_{CR} features a short-tail swing and boom swing, making it ideal for construction operation in confined spaces. Equipped with advanced hydraulic technology and electronic control systems, the machine offers diverse configurations, delivering outstanding performance and excellent user experience.



LET'S TAKE A CLOSER LOOK...



POWER & PERFORMANCE

- With the intelligent power-matching technology, the proven EU Stage V engine delivers robust, reliable power to match the application's demands for maximum performance and efficiency.
- Auto-idle function further enhances fuel efficiency and reduces emissions by automatically dropping the engine speed to idle if the operator stops using the controls for four seconds.
- Four working modes precisely match machine performance to various applications — P (Power) for maximum efficiency, E (Economy) for optimal fuel saving, L (Lifting) for enhanced lifting capability, and ATT (Attachment) for optimal attachment performance.



HYDRAULICS & CONTROLABILITY

- The advanced load-sensing hydraulic system provides the precise control needed to complete grading and levelling tasks faster with superior accuracy.
- A high-displacement main pump delivers consistent hydraulic flow for heavy-duty attachments like cutters and shears to operate at their maximum capability.
- The attachment electro-proportional pilot control allow the operator to adjust attachment flow with feather-touch control, significantly increasing operation accuracy and job site efficiency.



TOUGHNESS & RELIABILITY

- Built for exceptional durability, the upper structure is reinforced in high-stress areas. This ensures optimised weight distribution and enhanced stability.
- The robust X-frame undercarriage protects critical components—like travel motors—from extreme stress, even in demanding demolition and construction work.
- The boom and arm are constructed from high-strength steel to resist bending and torsion during operation. Oil-impregnated bushings in the joints offers superior protection against wear and tear for durability.



SAFETY & VISIBILITY

- The boom swing allows the operator to dig parallel to the dozer blade. This improves the ability to dig with minimum repositioning and reduces chance of damaging the machine.
- The short tail swing design significantly reduces accidental damage when you're working in a confined space or near obstacles.
- The standard rearview camera sends images to the in-cab LCD monitor, providing 360-degree visibility to the operator, creating a safer working environment.



ERGONOMICS & COMFORT

- The heated air suspension seat and automatic air conditioning system reduce operator fatigue and enhance operating experience for all-day comfort.
- The new 7 inch LCD display enables on-board monitoring with the alerts and warnings of low fluid levels, fault codes and service reminder. The pressure and flow of the attachment can also be set on the display.
- The low-effort joysticks and travel pedals enable easy machine operation, allowing the operators to work longer.
- An integrated radio with Bluetooth, hands-free calls, and USB charging ports keep the operators connected throughout the workday.



UPTIME & MAINTENANCE

- Ground-level maintenance with wide open panels provide convenient access to all major components and service points.
- 500-hour engine oil service interval reduce maintenance frequency allowing the operators to spend less time on maintenance.
- The gear of the swing bearing can be greased remotely for easy routine service and maintenance.
- The externally located refrigerant sight glass allows quick inspections without opening the panels.



909E_{CR} SPECIFICATIONS

Operating Weight	8,700-10,000 kg
Operating weight includes coolant, lubricants, full fuel tank, cab, standard shoes, boom, arm, bucket and operator 75 kg.	
Bucket Capacity	0.1 - 0.5 m ³

ENGINE	
Description	
Yanmar EPA Tier 4F / EU Stage V, inline 4-cylinder, water-cooled, direct injection, EGR + DPF + high pressure common rail diesel engine.	
Emission rating	EPA Tier 4 final / EU Stage V
Engine manufacturer	Yanmar
Engine model	4TNV98C-SLY
Aspiration	Natural
Cooling fan drive	Direct
Displacement	3,319 L
Engine output - net (SAE J1349 / ISO 9249)	44 kW @ 2,200 rpm
Engine output - rated (SAE J1995 / ISO 14396)	46.2 kW @ 2,200 rpm
Maximum torque	241 N·m @ 1,430 rpm
Bore × Stroke	98 × 110 mm

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

HYDRAULIC SYSTEM	
Main pump	
Type	Variable displacement piston pump
Maximum flow	209 L/min
Relief valve setting	
Implement	29 MPa
Travel circuit	29 MPa
Slew circuit	23 MPa
Pilot circuit	3.5 MPa
Hydraulic cylinders	
	MONO BOOM Φ110 × 849 mm
	2-PIECE BOOM (Top Boom) Φ110 × 849 mm
	2-PIECE BOOM (Lower Boom) Φ120 × 522 mm
Stick Cylinder – Bore × Stroke	Φ100 × 867 mm
Bucket Cylinder – Bore × Stroke	Φ90 × 710 mm

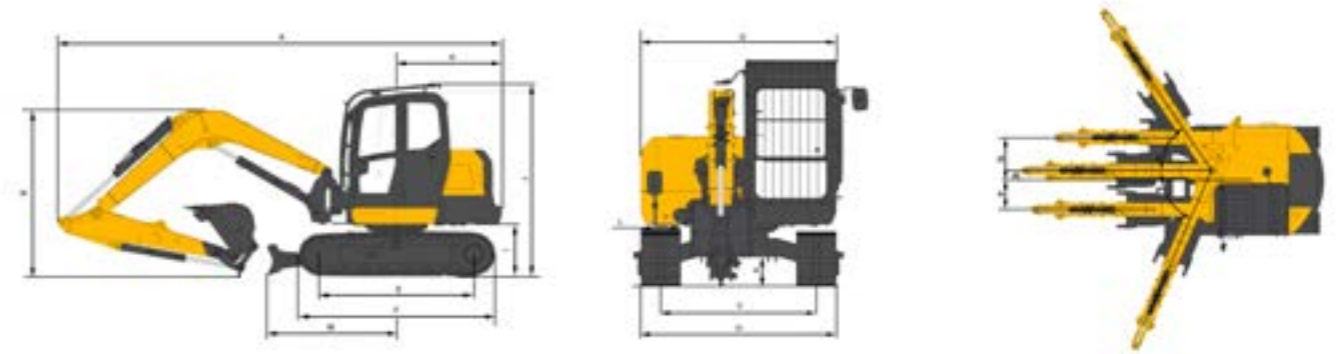
DRIVE AND BRAKES	
Description	
2-speed axial piston motors with oil disk brakes. Steering controlled by two hand levers with pedals.	
Max. travel speed	High: 4.8 km/h Low: 2.4 km/h
Gradeability	35°/70%
	MONO BOOM 75 kN
Max. drawbar pull	2-PIECE BOOM 80 kN

UNDERCARRIAGE	
	MONO BOOM
Track shoe each side	39
	2-PIECE BOOM 43
Link pitch	154 mm
Shoe width, triple grouser	450 mm
	MONO BOOM
Bottom rollers each side	6
	2-PIECE BOOM 7
Top rollers each side	1

SERVICE CAPACITIES	
Fuel tank	116 L
Engine oil	11.6 L
Final drive (each)	1.08 L
Swing drive	1.6 L
Cooling system	14.5 L
	MONO BOOM 72 L
Hydraulic reservoir	2-PIECE BOOM 70 L
	MONO BOOM 110 L
Hydraulic system total	2-PIECE BOOM 120.5 L

ELECTRIC SYSTEM	
System Voltage	12 V
Batteries	12 V
Alternator	12 V - 80 A
Start motor	12 V - 3 kW

SOUND PERFORMANCE	
Interior sound power level (ISO 6396)	73 dB(A)
Exterior sound power level (ISO 6395)	98 dB(A)



DIMENSIONS	909E _{CR} MONO BOOM	
Boom	3,375 mm	
Arm Options	1,650 mm	2,100 mm
A. Shipping Length	6,155 mm	6,200 mm
B. Height – Top of Boom	2,210 mm	2,415 mm
C. Track Gauge	1,950 mm	
D. Undercarriage Width – with 450 mm Shoes	2,200 mm / 2,400 mm	
E. Length to Center of Rollers	2,230 mm	
F. Track Length	2,845 mm	
G. Overall Width of Upper Structure	2,200 mm	
H. Tail Swing Radius	1,410 mm	
I. Counterweight Ground Clearance	760 mm	
J. Shipping Height– Top of Cab (without or with top guard)	2,800 mm	
K. Min. Ground Clearance	360 mm	
L. Track Shoe Width	450 mm	
M. Dozer Blade - Maximum Reach at Ground Level	2,033 mm	
N. Offset	200 mm	
Q. Maximum Boom Offset to the Right	886 mm	
P. Maximum Boom Offset to the Left	598 mm	
α. Maximum Boom Swing Angle to the Right	55°	
β. Maximum Boom Swing Angle to the Left	65°	

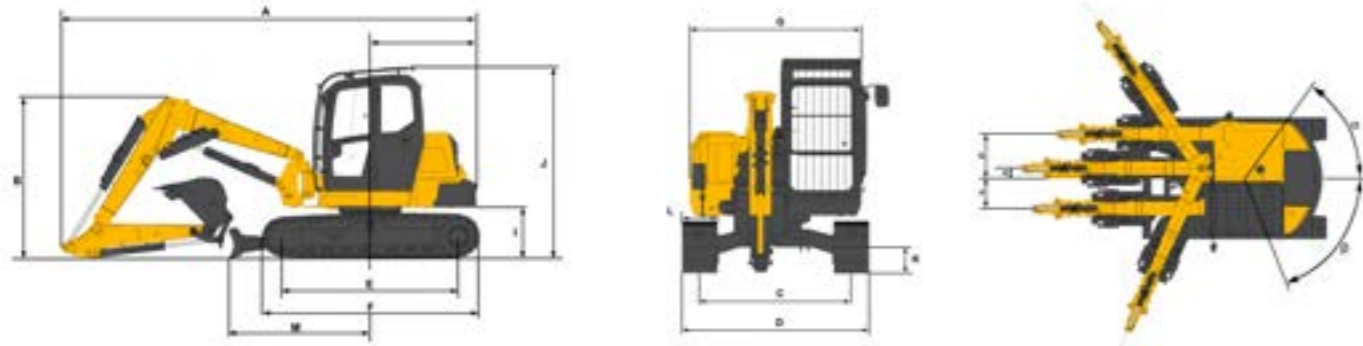


BOOM DIMENSIONS	909E _{CR} MONO BOOM	
Boom	3,375 mm	
A Length	3,510 mm	
B Height	1,236 mm	
C Width	424 mm	
Weight	435 kg	

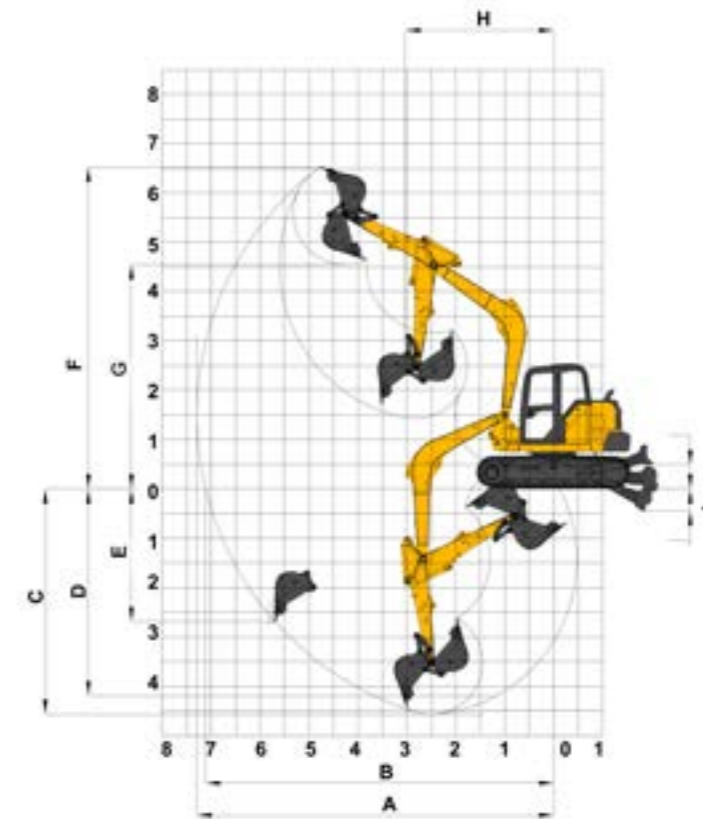
Includes arm cylinder, piping and pin.

ARM DIMENSIONS	909E _{CR} MONO BOOM	
Arm	1,650 mm	2,100 mm
A Length	2,205 mm	2,660 mm
B Height	510 mm	510 mm
C Width	220 mm	244 mm
Weight	165 kg	210 kg

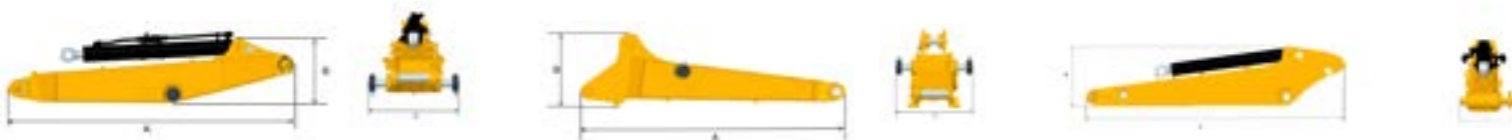
Includes bucket cylinder, linkage and pin.



DIMENSIONS	909E _{CR} 2-PIECE BOOM	
Boom (Top)	2,100 mm	
Boom (Lower)	2,011 mm	
Arm Options	1,650 mm	2,100 mm
A. Shipping Length	6,200 mm	
B. Height – Top of Boom	2,710 mm	
C. Track Gauge	1,950 mm	
D. Undercarriage Width– 450 mm shoes	2,400 mm	
E. Length to Center of Rollers	2,532 mm	
F. Track Length	3,147 mm	
G. Overall Width of Upper Structure	2,200 mm	
H. Tail Swing Radius	1,410 mm	
I. Counterweight Ground Clearance	760 mm	
J. Shipping Height– Top of Cab (without or with top guard)	2,800 mm	
K. Min. Ground Clearance	360 mm	
L. Track Shoe Width	450 mm	
M. Dozer Blade - Maximum Reach at Ground Level	1,993 mm	
N. Offset	200 mm	
Q Maximum Boom Offset to the Right	886 mm	
P Maximum Boom Offset to the Left	598 mm	
α. Maximum Boom Swing Angle to the Right	55°	
β. Maximum Boom Swing Angle to the Left	65°	



WORKING RANGE	909E _{CR} MONO BOOM	
Boom (Top)	2,100 mm	
Boom (Lower)	2,011 mm	
Arm Length	1,650 mm	2,100 mm
A. Max. Digging Reach	7,540 mm	7,927 mm
B. Max. Digging Reach on Ground	7,336 mm	7,763 mm
C. Max. Digging Depth	3,848 mm	4,299 mm
D. Max. Digging Depth, 2.44 m Level	3,540 mm	4,040 mm
E. Max. Vertical Wall Digging Depth	3,190 mm	3,738 mm
F. Max. Cutting Height	7,950 mm	8,247 mm
G. Max. Dumping Height	5,905 mm	6,170 mm
H. Min. Front Swing Radius	2,038 mm	2,422 mm
I. Lift above Ground	489 mm	489 mm
J. Depth below Ground	443 mm	443 mm
Bucket Digging Force (ISO)	63 kN	67 kN
Arm Digging Force (ISO)	43 kN	37 kN
Bucket Capacity	0.28 m ³	0.28 m ³
Bucket Tip Radius	1,020 mm	1,020 mm

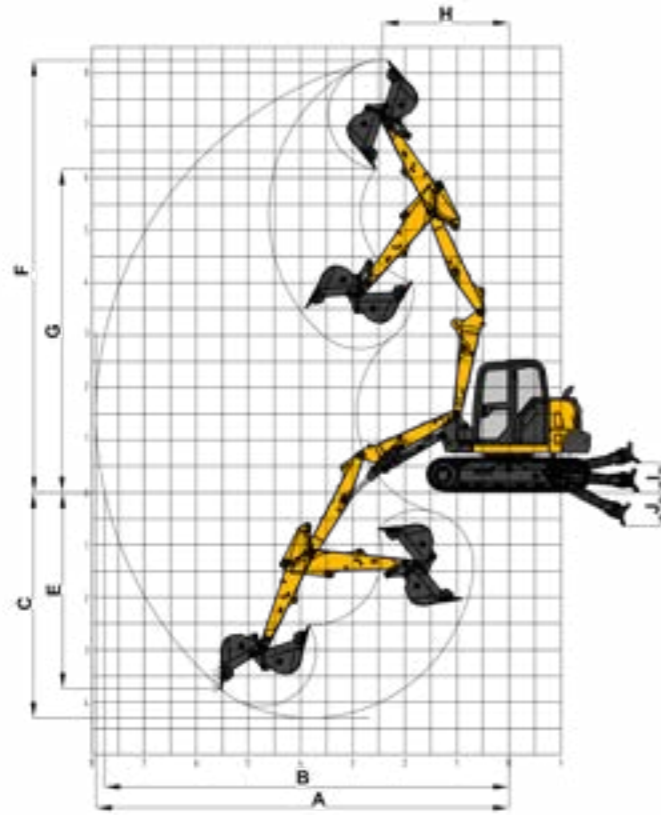


BOOM DIMENSIONS	909E _{CR} 2-PIECE BOOM	
Boom(Top/Lower)	2,100 mm	2,011 mm
A. Length	2,230 mm	2,146 mm
B. Height	503 mm	542 mm
C. Width	625 mm	625 mm
Weight	350 kg	310 kg

ARM DIMENSIONS	909E _{CR} 2-PIECEBOOM	
Arm	1,650 mm	2,100 mm
A. Length	2,205 mm	2,660 mm
B. Height	510 mm	510 mm
C. Width	220 mm	244 mm
Weight	165 kg	210 kg

Includes arm cylinder, piping and pin.

Includes bucket cylinder, linkage and pin.



WORKING RANGE	909E _{CR} 2-PIECE BOOM	
Boom Length	3,375 mm	
Arm Length	1,650 mm	2,100 mm
A. Max. Digging Reach	6,847 mm	7,264 mm
B. Max. Digging Reach on Ground	6,651 mm	7,082 mm
C. Max. Digging Depth	4,093 mm	4,540 mm
D. Max. Digging Depth, 2.44 m Level	3,670 mm	4,163 mm
E. Max. Vertical Wall Digging Depth	3,043 mm	3,963 mm
F. Max. Cutting Height	6,300 mm	6,525 mm
G. Max. Dumping Height	4,532 mm	4,577 mm
H. Min. Front Swing Radius	2,421 mm	2,421 mm
I. Lift above Ground	440 mm	440 mm
J. Depth below Ground	420 mm	420 mm
Bucket Digging Force (ISO)	63 kN	63 kN
Arm Digging Force (ISO)	43 kN	37 kN
Bucket Capacity	0.28 m ³	0.28 m ³
Bucket Tip Radius	1,020 mm	1,020 mm

MACHINE WEIGHTS AND GROUND PRESSURE

909E _{CR} MONO BOOM						
Shoe width	Operating weight	Ground pressure	Overall width	Operating weight	Ground pressure	Overall width
	3,375 mm boom, 1,650 mm, 0.28 m ³ bucket, 1,400 kg counterweight			3,375 mm boom, 2,100 mm arm, 0.28 m ³ bucket, 1,750 kg counterweight		
450 mm Metal track	8,700 kg	38.7 kPa	2,200 mm	9,000 kg	40 kPa	2,200 mm
450 mm Rubber track	8,700 kg	38.7 kPa	2,200 mm	9,000 kg	40 kPa	2,200 mm
450 mm Metal track with rubber pads	9,000 kg	40 kPa	2,200 mm	9,300 kg	41.4 kPa	2,200 mm
909E _{CR} 2-PIECE BOOM						
Shoe width	Operating weight	Ground pressure	Overall width	Operating weight	Ground pressure	Overall width
	1,650 mm, 0.28 m ³ bucket, 2,100 kg counterweight			2,100 mm arm, 0.28 m ³ bucket, 2,100 kg counterweight		
450 mm Metal track	9,650 kg	38.3 kPa	2,200 mm	9,650 kg	38.3 kPa	2,200 mm
450 mm Rubber track	9,650 kg	38.3 kPa	2,200 mm	9,650 kg	38.3 kPa	2,200 mm
450 mm Metal track with rubber pads	10,000 kg	39.7 kPa	2,200 mm	10,000 kg	39.7 kPa	2,200 mm

BUCKET SELECTION GUIDE

Bucket type	Capacity	Cutting width	Weight	Teeth pcs	2,100 mm arm	1,650 mm arm
General Purpose Bucket	0.17 m ³	507 mm	167 kg	3	A	B
General Purpose Bucket	0.23 m ³	606 mm	197 kg	4	A	B
General Purpose Bucket	0.28 m ³	770 mm	236 kg	4	A	B
General Purpose Bucket	0.32 m ³	852 mm	264 kg	5	A	B
Ditch Cleaning Bucket	0.50 m ³	1,228 mm	375 kg	0	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: Coal, Caliche, Shale
 B. 1,400-1,600 kg/m³: Wet earth and clay, limestone, sandstone
 C. 1,700-1,800 kg/m³: Granite, wet sand, well blasted rock
 D. 1,900 kg/m³: 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)

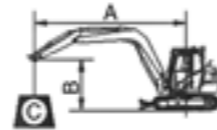
- Do not attempt to lift or hold any load that is greater than these rated values at their specified load radius and height. Weight of all accessories must be deducted from the above lifting capacities.
- The rated loads are in compliance with ISO 10567 Hydraulic Excavator Lift Capacity Rating Standard. They do not exceed 87% of hydraulic lifting capacity or 75% tipping load.
- Ratings at bucket lift hook.
- Lifting capacities are based on machine standing on level, firm and uniform ground.
- *Indicates the load is limited by hydraulic capacity rather than tipping capacity.
- 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)

909E_{CR} MONO BOOM with 450 mm shoes, 1,650 mm arm Conditions

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

Boom length: 3,375 mm
Arm length: 1,650 mm
Bucket: None
Shoes: 450 mm
Undercarriage width: 2,200 mm
Unit: kg
Counterweight: 1,750 kg
Track gauge: 1,750 mm



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					*1,890	1,410	*1,980	980	*2,010	930	5.15
3			*2,870	2,090	*2,300	1,350	*2,080	970	*2,070	800	5.6
2					*2,900	1,270	*2,340	930	*2,150	740	5.82
1					*3,430	1,200	*2,600	890	2,140	720	5.82
GROUND LEVEL			*5,570	1,730	*3,690	1,170	2,710	870	2,260	750	5.6
-1	*5,100	3,440	*5,280	1,740	*3,630	1,160	*2,660	870	*2,530	840	5.15
-2	*7,310	3,500	*4,510	1,780	*3,120	1,180			*2,700	1,060	4.35

Blade: Up

A (Unit: m)

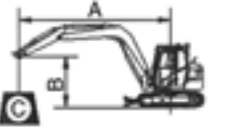
B (m)	2		3		4		5		MAX REACH		A (m)
	Cf	Cs	Cf	Cs	Cf	Cs	Cf	Cs	Cf	Cs	
4					*1,890	1,410	1,350	980	1,290	930	5.15
3			*2,870	2,090	1,880	1,350	1,330	970	1,110	800	5.6
2					1,800	1,270	1,300	930	1,030	740	5.82
1					1,720	1,200	1,260	890	1,010	720	5.82
GROUND LEVEL			2,590	1,730	1,680	1,170	1,230	870	1,060	750	5.6
-1	*5,100	3,440	2,600	1,740	1,670	1,160	1,230	870	1,190	840	5.15
-2	5,810	3,500	2,640	1,780	1,700	1,180			1,520	1,060	4.35

LIFTING CAPACITY (METRIC)

909E_{CR} MONO BOOM with 450 mm shoes, 2,100 mm arm Conditions

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

Boom length: 3,375 mm
Arm length: 2,100 mm
Bucket: None
Shoes: 450 mm
Undercarriage width: 2,200 mm
Unit: kg
Counterweight: 2,100 kg
Track gauge: 1,750 mm



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	
5									*1,450	*1,450	4.93
4							*1,390	*1,390	*1,480	1,300	5.63
3					*1,610	*1,610	*1,520	*1,520	*1,520	1,150	6.04
2			*3,100	*3,100	*2,130	2,100	*1,760	1,510	*1,590	1,080	6.24
1			*3,010	*3,010	*2,630	2,000	*2,020	1,460	*1,670	1,060	6.24
GROUND LEVEL			*3,530	3,000	*2,950	1,940	*2,200	1,420	*1,770	1,100	6.04
-1	*2,790	*2,790	*4,500	2,980	*3,020	1,920	*2,240	1,410	*1,880	1,200	5.63
-2	*5,020	*5,020	*4,070	3,010	*2,790	1,930			*2,020	1,450	4.93
-3	*4,980	*4,980	*3,010	*3,010					*2,170	*2,170	3.73

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	
5									*1,450	*1,450	4.93
4							*1,390	*1,390	1,260	1,300	5.63
3					*1,610	*1,610	1,510	*1,520	1,120	1,150	6.04
2			*3,100	*3,100	2,030	2,100	1,460	1,510	1,050	1,080	6.24
1			2,960	*3,010	1,940	2,000	1,410	1,460	1,030	1,060	6.24
GROUND LEVEL			2,880	3,000	1,880	1,940	1,380	1,420	1,070	1,100	6.04
-1	*2,790	*2,790	2,870	2,980	1,850	1,920	1,360	1,410	1,160	1,200	5.63
-2	*5,020	*5,020	2,900	3,010	1,860	1,930			1,400	1,450	4.93
-3	*4,980	*4,980	2,970	*3,010					2,130	*2,170	3.73

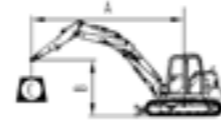
LIFTING CAPACITY (METRIC)

909E_{CR} 2-PIECE BOOM 1,650mm Arm

A: Load radius
 B: Load point height
 C: Lifting capacity rating
 Cf: Rating loads over front
 Cs: Rating loads over side

Conditions:

Arm length: 1,650 mm
 Bucket: None
 Shoes: 450 mm triple grouser
 Undercarriage width: 2,200 mm
 Unit: kg
 Counterweight: 2,100 kg
 Track gauge: 1,750 mm



Blade: Down

B (m)	A (Unit: m)												MAX REACH A (m)
	2		3		4		5		6				
	Cf	Cs	Cf	Cs	Cf	Cs	Cf	Cs	Cf	Cs	Cf	Cs	
6	kg		*2,920	*2,920	*2,610	1,920					*2,610	1,920	4
5	kg				*2,400	1,980	*2,210	1,340			*2,210	1,290	5.1
4	kg		*3,270	3,040	*2,570	1,920	*2,210	1,340			*2,050	1,020	5.8
3	kg				*2,950	1,790	*2,340	1,280	*2,010	960	*1,960	900	6.2
2	kg				*3,340	1,640	*2,510	1,210	*2,050	930	*1,900	830	6.4
1	kg				*3,490	1,530	*2,590	1,150	*2,050	900	*1,840	820	6.4
GROUND LEVEL	kg				*3,330	1,490	*2,520	1,120	*1,920	880	*1,780	850	6.2
-1	kg		*3,620	2,280	*2,930	1,500	*2,240	1,110			*1,660	930	5.8
-2	kg		*2,660	2,350	*2,210	1,540	*1,540	1,160			*1,440	1,130	5.1

Blade: Up

B (ft)	A (Unit: ft)												MAX REACH A (m)
	2		3		4		5		6				
	Cf	Cs	Cf	Cs	Cf	Cs	Cf	Cs	Cf	Cs	Cf	Cs	
6	kg		*2,920	2,920*	*2,610	1,920					*2,610	1,920	4
5	kg				*2,400	1,980	*2,210	1,340			2,170	1,290	5.1
4	kg		*3,270	3,040	*2,570	1,920	*2,210	1,340			1,750	1,020	5.8
3	kg				*2,950	1,790	2,190	1,280	1,640	960	1,550	900	6.2
2	kg				2,920	1,640	2,110	1,210	1,610	930	1,460	830	6.4
1	kg				2,800	1,530	2,040	1,150	1,580	900	1,440	820	6.4
GROUND LEVEL	kg				2,760	1,490	2,000	1,120	1,560	880	1,500	850	6.2
-1	kg		*3,620	2,280	2,760	1,500	2,000	1,110			1,650	930	5.8
-2	kg		*2,660	2,350	*2,210	1,540	*1,540	1,160			*1,440	1,130	5.1

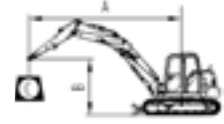
LIFTING CAPACITY (METRIC)

909E_{CR} 2-PIECE BOOM 2,100mm Arm

A: Load radius
 B: Load point height
 C: Lifting capacity rating
 Cf: Rating loads over front
 Cs: Rating loads over side

Conditions:

Arm length: 2,100 mm
 Bucket: None
 Shoes: 450 mm triple grouser
 Undercarriage width: 2,200 mm
 Unit: kg
 Counterweight: 2,100 kg
 Track gauge: 1,750 mm



Blade: Down

B (m)	A (Unit: m)												MAX REACH A (m)		
	2		3		4		5		6						
	Cf	Cs	Cf	Cs	Cf	Cs	Cf	Cs	Cf	Cs	Cf	Cs			
7	kg				*3,170	3,100							*3,170	3,100	3
6	kg						*2,220	2,040					*2,190	1,530	4.7
5	kg						*2,140	2,060	*2,000	1,420			*1,970	1,110	5.7
4	kg						*2,320	2,000	*2,050	1,400	*1,880	1,020	*1,860	930	6.3
3	kg						*2,710	1,870	*2,210	1,340	*1,930	1,000	*1,810	850	6.6
2	kg						*3,160	1,720	*2,420	1,260	*2,000	960	*1,760	790	6.8
1	kg						*3,450	1,590	*2,560	1,190	*2,050	920	*1,730	770	6.8
GROUND LEVEL	kg						*3,440	1,520	*2,570	1,140	*2,010	900	*1,700	790	6.6
-1	kg				*3,050	2,280	*3,160	1,510	*2,400	1,130	*1,800	900	*1,570	850	6.3
-2	kg				*3,360	2,330	*2,600	1,540	*1,950	1,140			*1,400	990	5.7

Blade: Up

B (ft)	A (Unit: ft)												MAX REACH A (m)		
	2		3		4		5		6						
	Cf	Cs	Cf	Cs	Cf	Cs	Cf	Cs	Cf	Cs	Cf	Cs			
7	kg				*3,170	3,100							*3,170	3,100	3
6	kg						*2,220	2,040					*2,190	1,530	4.7
5	kg						*2,140	2,060	*2,000	1,420			1,850	1,110	5.7
4	kg						*2,320	2,000	*2,050	1,400	1,710	1,020	1,570	930	6.3
3	kg						*2,710	1,870	*2,210	1,340	1,690	1,000	1,450	850	6.6
2	kg						3,010	1,720	2,160	1,260	1,650	960	1,360	790	6.8
1	kg						2,870	1,590	2,080	1,190	1,610	920	1,350	770	6.8
GROUND LEVEL	kg						2,790	1,520	2,030	1,140	1,580	900	1,390	790	6.6
-1	kg				*3,050	2,280	2,780	1,510	2,010	1,130	1,580	900	1,490	850	6.3
-2	kg				*3,360	2,330	*2,600	1,540	*1,950	1,140			*1,400	990	5.7

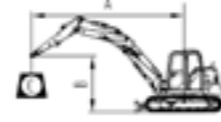
LIFTING CAPACITY (METRIC)

909E_{CR} 2-PIECE BOOM 1,650mm Arm

A: Load radius
 B: Load point height
 C: Lifting capacity rating
 Cf: Rating loads over front
 Cs: Rating loads over side

Conditions:

Arm length: 1,650 mm
 Bucket: None
 Shoes: 450 mm triple grouser
 Undercarriage width: 2,400 mm
 Unit: kg
 Counterweight: 2,100 kg
 Track gauge: 1,950 mm



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	
6	kg		*2,920	*2,920	*2,610	2,230					*2,610	2,230	4
5	kg				*2,400	2,280	*2,210	1,560			*2,210	1,500	5.1
4	kg		*3,270	*3,270	*2,570	2,220	*2,210	1,550			*2,050	1,200	5.8
3	kg				*2,950	2,090	*2,340	1,500	*2,010	1,120	*1,960	1,060	6.2
2	kg				*3,340	1,930	*2,510	1,420	*2,050	1,090	*1,900	990	6.4
1	kg				*3,490	1,830	*2,590	1,360	*2,050	1,060	*1,840	970	6.4
GROUND LEVEL	kg				*3,330	1,780	*2,520	1,330	*1,920	1,050	*1,780	1,000	6.2
-1	kg		*3,620	3,270	*2,930	1,790	*2,240	1,320			*1,660	1,110	5.8
-2	kg		*2,660	*2,660	*2,210	1,830	*1,540	1,370			*1,440	1,340	5.1

Blade: Up

A (Unit: ft)

B (ft)	2		3		4		5		6		MAX REACH		A (m)
	Cf	Cs	Cf	Cs	Cf	Cs	Cf	Cs	Cf	Cs	Cf	Cs	
6	kg		*2,920	2,920*	*2,610	2,230					*2,610	2,230	4
5	kg				*2,400	2,280	*2,210	1,560			2,170	1,500	5.1
4	kg		*3,270	3,270*	*2,570	2,220	*2,210	1,550			1,750	1,200	5.8
3	kg				*2,950	2,090	2,190	1,500	1,640	1,120	1,550	1,060	6.2
2	kg				2,920	1,930	2,110	1,420	1,610	1,090	1,460	990	6.4
1	kg				2,800	1,830	2,040	1,360	1,580	1,060	1,440	970	6.4
GROUND LEVEL	kg				2,760	1,780	2,000	1,330	1,560	1,050	1,500	1,000	6.2
-1	kg		*3,620	2,760	2,760	1,790	2,000	1,320			1,650	1,110	5.8
-2	kg		*2,660	*2,660	*2,210	1,830	*1,540	1,370			*1,440	1,340	5.1

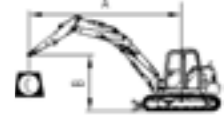
LIFTING CAPACITY (METRIC)

909E_{CR} 2-PIECE BOOM 2,100mm Arm

A: Load radius
 B: Load point height
 C: Lifting capacity rating
 Cf: Rating loads over front
 Cs: Rating loads over side

Conditions:

Arm length: 2,100 mm
 Bucket: None
 Shoes: 450 mm triple grouser
 Undercarriage width: 2,400 mm
 Unit: kg
 Counterweight: 2,100 kg
 Track gauge: 1,950 mm



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	
7	kg		*3,170	3,100							*3,170	3,100	3
6	kg				*2,220	2,040					*2,190	1,530	4.7
5	kg				*2,140	2,060	*2,000	1,420			*1,970	1,110	5.7
4	kg				*2,320	2,000	*2,050	1,400	*1,880	1,020	*1,860	930	6.3
3	kg				*2,710	1,870	*2,210	1,340	*1,930	1,000	*1,810	850	6.6
2	kg				*3,160	1,720	*2,420	1,260	*2,000	960	*1,760	790	6.8
1	kg				*3,450	1,590	*2,560	1,190	*2,050	920	*1,730	770	6.8
GROUND LEVEL	kg				*3,440	1,520	*2,570	1,140	*2,010	900	*1,700	790	6.6
-1	kg		*3,050	2,280	*3,160	1,510	*2,400	1,130	*1,800	900	*1,570	850	6.3
-2	kg		*3,360	2,330	*2,600	1,540	*1,950	1,140			*1,400	990	5.7

Blade: Up

A (Unit: ft)

B (ft)	2		3		4		5		6		MAX REACH		A (m)
	Cf	Cs	Cf	Cs	Cf	Cs	Cf	Cs	Cf	Cs	Cf	Cs	
7	kg		*3,170	*3,170							*3,170	*3,170	3
6	kg				*2,220	*2,220					*2,190	1,770	4.7
5	kg				*2,140	*2,140	*2,000	1,640			1,850	1,290	5.7
4	kg				*2,320	2,310	*2,050	1,610	1,710	1,190	1,570	1,080	6.3
3	kg				*2,710	2,180	*2,210	1,550	1,690	1,160	1,450	990	6.6
2	kg				3,010	2,020	2,160	1,470	1,650	1,130	1,360	930	6.8
1	kg				2,870	1,880	2,080	1,400	1,610	1,090	1,350	910	6.8
GROUND LEVEL	kg				2,790	1,820	2,030	1,350	1,580	1,060	1,390	940	6.6
-1	kg		*3,050	2,760	2,780	1,800	2,010	1,340	1,580	1,060	1,490	1,000	6.3
-2	kg		*3,360	2,810	*2,600	1,830	*1,950	1,360			*1,400	1,160	5.7

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

HYDRAULIC SYSTEM

Main pump: one variable displacement piston pump

Boom and arm regeneration circuits

Boom and arm load holding valves

Pilot control shut-off lever

Dual-way auxiliary circuit via electronic proportional joystick control

Dozer blade load holding valve

Long dozer blade w/o float function

Quick coupler lines (low and high pressure)

SAE-BHL control pattern change

ELECTRICAL SYSTEM

Alternator 12 V, 80 A

12 V battery

LED working lights on cab, 4 front and 2 rear

Starting, 12 V, 3 kW

Overloading warning

Rearview camera

Travel and swing alarms

Rotating beacon

BOOM & ARM

3,375 mm boom

1,650 mm arm

DRIVETRAIN

Hydraulic motor, piston type and two-gear reducer

2-speed travel system with automatic shift

OPERATOR STATION

ROPS certified cab

Removable lower front windshield

Front windshield wiper with intermittent feature

Auto air conditioner with heater and defroster

Heated air suspension seat

3 inch retractable seatbelt

AM/FM radio with bluetooth

Glass-breaking hammer

Cigarette lighter

Cup holder

Floor mat

Fire extinguisher

One key for all locks

2-working mode selection system: Power, Economy

Blind Spot mirror on cab rear right

SWING SYSTEM

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

INSTRUMENTATION

7 inch color monitor with alarms, working hours, fuel level, water temperature, work mode, fault code, working status, etc

UNDERCARRIAGE

Rubber track shoes, 450 mm

Rollers, bottom - 6 each side, top - 1 each side (**MONO BOOM**)

Towing eye on base frame

Track gauge 1,750 mm

OTHER STANDARD EQUIPMENT

Counterweight, 1,750 kg

Maintenance tool kit

Maintenance parts package

OPTIONAL EQUIPMENT

HYDRAULIC SYSTEM

Attachment oil drain line

Dozer blade float function

Auxiliary rotation line with flow adjustment

UPPERSTRUCTURE

Heavy duty undercovers

Additional counterweight, 350 kg

UNDERCARRIAGE

Steel track shoes, 450 mm

Chain-on steel track shoes with rubber pads, 450 mm

Steel track shoes with rubber pads, 450 mm

Track gauge, 1950 mm

OPERATOR STATION

Operator protective guard (OPG)

Bucket cylinder guard

Seatbelt reminder

BOOM & ARM

2-piece boom

2,100 mm arm

ATTACHMENT

0.17 m³ general purpose bucket

0.23 m³ general purpose bucket

0.28 m³ general purpose bucket

0.32 m³ general purpose bucket

0.5 m³ ditch cleaning bucket

Mechanical quick coupler

Hydraulic quick coupler

LGB68 Hydraulic breaker

LGB75 Hydraulic breaker



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