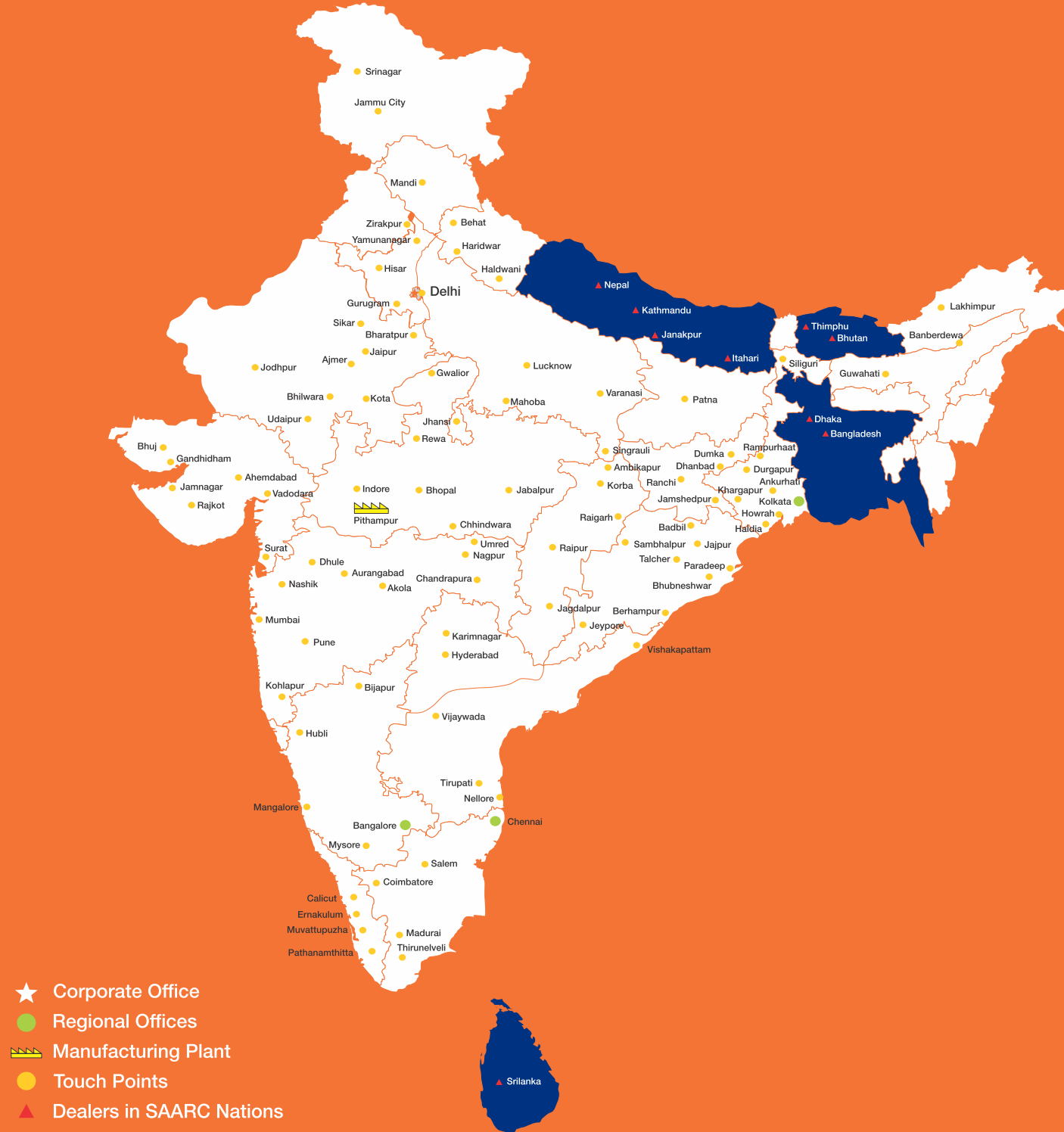


# LIUGONG INDIA NETWORK

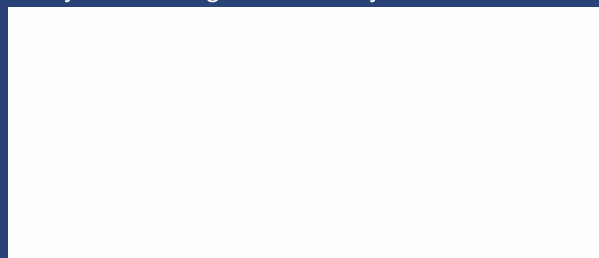


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08/2021 LIPL

Engine	Cummins QSB7
Gross Power	166 hp @ 2050 rpm
Bucket Capacity	1.15 m <sup>3</sup> HD/1.25 m <sup>3</sup> GP
Digging Depth	6,100 mm
Operating Weight	23,600 kg
Cabin	Air Conditioned

## 924E XD EXCAVATOR

TOUGH WORLD. TOUGH EQUIPMENT.

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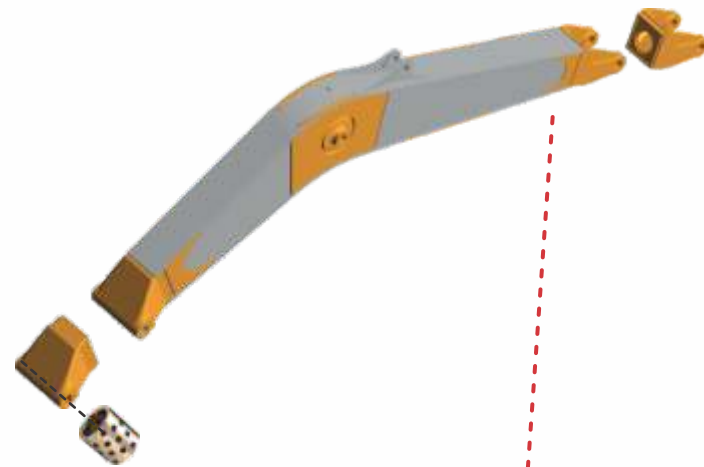
# EXTRA REINFORCED STRUCTURES

Achieve precise controlling of work, with extra reinforced structures, made in house with advanced robotic manufacturing, to take on the challenge of extreme duty applications.

## XTREME DUTY (XD) BOOM

- High tensile strengthened steel
- Single piece cast pivot ends
- Extra reinforced side plates
- Single piece top & bottom plates

## GRAPHITE IMPREGNATED BRONZE BUSHES



## XTREME DUTY(XD) ARM

- High tensile strengthened steel
- Wear resistant vertical bars



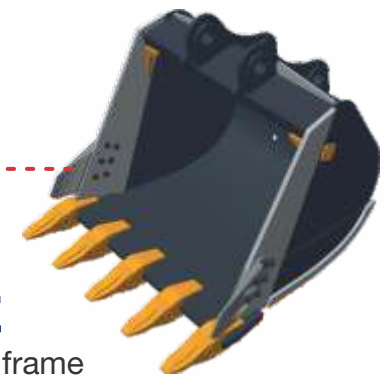
## 1.15 m<sup>3</sup> HD BUCKET

- Hardox reinforced bucket
- Lip protectors & side cutting edge protector
- Internal ribs: Protects wrapper plate



## 1.25 m<sup>3</sup> GP BUCKET

- Bucket with enhanced wear resistant plates
- Durability improved with bolted side cutters



## HEAVY DUTY UPPER FRAME

- High optimized stability, center mounted boom
- Toughened to withstand extreme conditions
- Platform protector collision plates (optional)



## STURDY X-FRAME

- Long run, single plate X frame
- Enhanced durability with box type structure
- Optimized protection on travel motor & idler

## STRENGTHENED UNDERCARRIAGE

- Extra stability with 9 rollers
- 3 bottom track guards
- Thick track shoes
- Heavy duty rollers

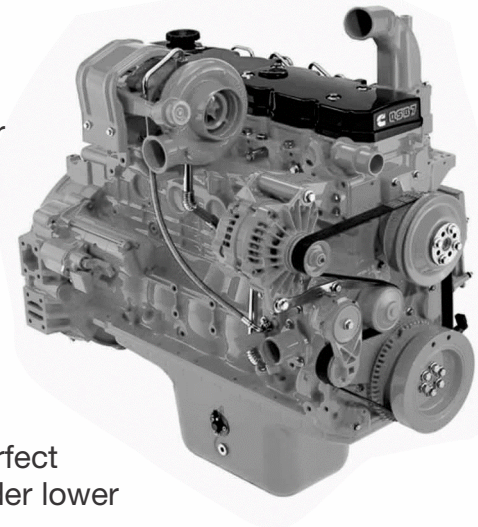


## EXCELLENT PERFORMANCE

The Newly designed 924E XD excavators are belong to LiuGong's Excellence series of excavators which ensure the delivery of Excellent performance in extreme duty applications and reduces fuel consumption by precisely matching power output to the actual work requirement.

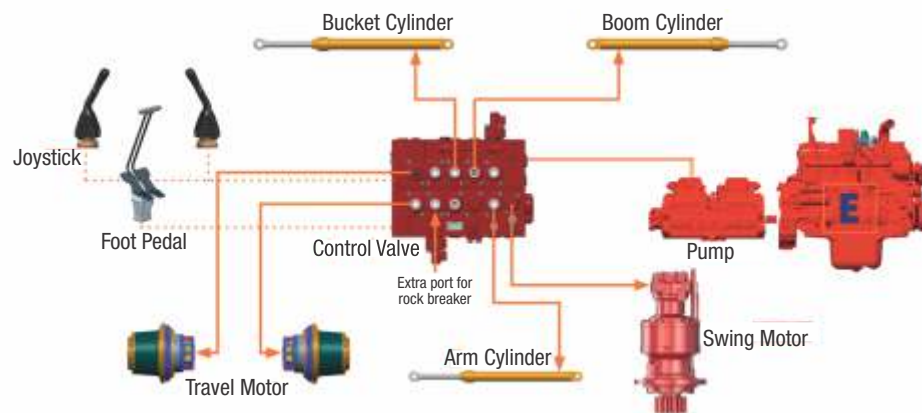
### POWERFUL ENGINE

The new 6 cylinder cummins QSB 7 ADACR engine, delivers unmatched performance, maximizes torque output with more power and breakout force at lower engine speeds. The engine utilize a precise and high pressure common rail fuel injection system, turbocharge (VGT), air to air inter cooler along with electronic controls to optimize machine performance.



### IPC (INTELLIGENT POWER CONTROL)

This new generation computer-aided IPC system allows the 924E's mechanical, electrical and hydraulic systems to work together in perfect harmony. An improved pump system delivers efficient oil output under lower engine speeds, resulting in fuel efficiency and reduced noise levels.



### FUEL COOLER

Improved engine cooling system, with additional diesel cooler to enhance the fuel efficiency and machine availability

## ENHANCED FLOW RATE

Newly upgraded series of hydraulic pump delivers high flow, improved cycle time and optimized power for excellent performance in extreme duty applications. synchronization of advance hydraulic system provides best balance of performance demands and fuel economy during working.



The advanced hydraulic system, regenerates oil in the cylinders more efficiently reducing heat, which also contributes in increasing fuel efficiency improving cycle time. The optimum flexibility of high pressure quality hoses provides smooth flow internally to improve the hydraulic performance in work implementation system which impact the longer life.

Return oil filtration do very important job in maintaining contaminated free hydraulic oil while returning back to hydraulic tank which maintain the quality level of hydraulic oil and enhanced the efficiency as well as ensure the longer life of hydraulic components.

- High swing torque- improved the cycle time and reduces the fuel consumption.
- High draw bar pull- provides superb steering and slop climbing performance
- High arm crowd force – provides the maximum penetration and contributes in increasing digging forces to maximizes the output and reduces the cycles.
- High bucket crowding force - provides the maximum penetration and contributes in increasing digging forces to maximizes the ouput and reduces the cycles



### SMART FUEL ECONOMY

The intelligent combination of powerful digging force, swing torque and lifting performance, Maximize the fuel economy by intelligently regulating its speed as per the actual work requirement.

- ① 1 Second : if no hydraulic request signal detected from the joystick, the engine speed is automatically dropped by 100 RPM.
- ② 1 Second : if no activity is detected over 3 seconds engine speed automatically goes down leads to high efficiency, fuel saving & better control ability

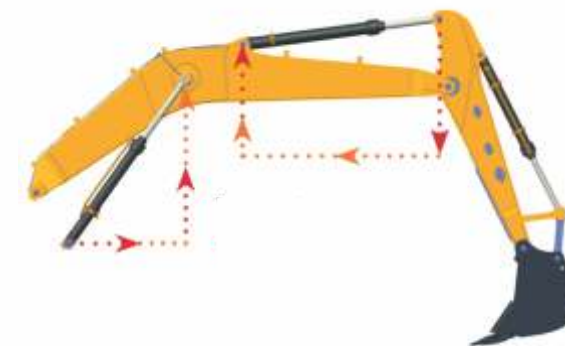
### 3 STAGE FUEL FILTERATION

The Newly designed fuel lines for better efficiency is achieved with the fuel filtration done in 3 stages before entering into engine which enhance the efficiency as well life span of engine and it's component through the operations



### BOOM AND ARM REGENERATION

This system optimizes hydraulic flow when boom or arm goes downward then downward force generated by their weight push the fluid in cylinders, minimizes the need of power from outside the system leading to excellent performance and efficient fuel consumption.



### BOOM PRIORITY

Boom priority spool is auto piloted which boosts hydraulic energy, results in excellent performance during extreme duty applications.



# SMART OPERATION

Multi-function large LCD monitor, enables safe, accurate and smooth work. Improved designed and screen visibility is enhanced which ensure that it can easily readable at various angles and lighting conditions. With quick access touch to 6 working modes, 12 speed settings is define the simple and easy way to operate multifunction operations.

**6 Working Modes.**

- P Power Mode**  
Quickly finish the task with high efficiency
- E Economy Mode**  
Lower efficiency, but it can save fuel
- B Breaker Mode**  
Used in the breaking application
- F Final Mode**  
Working conditions like trimming the inner side or the bottom of a channel.
- L Lifting Mode**  
Used in the lifting application
- A Attachment Mode**  
Used for the attachment like hydraulic shears.

**2 Operation Modes.**

- Leveling Operation**  
Used while doing leveling operation.
- Digging Operation**  
Used while doing digging operation.

**12 Speed Settings.**

Speed	Work Nature	Throttle Knob
3-4	Light & Precise work	
5-6-7-8	Medium Work (Loading /Coil Excavation etc)	
9-10	Heavy Work (Quarry, Stone Digging)	
11-12	Extreme Work (Rock Bed Segregation, Handling Big Rocks)	
6 & 7	Best for Hammer (Rock Breaker)	

**Cabin View**

**7" Colour LCD High Resolution Display**

**Various Indicators**

Service Interval Indicator	
Battery Uncharged	
High Hydraulic Oil Temperature	
High Engine Temperature	
Low Engine Oil Level	
Low Coolant Level	
Low Engine Oil Pressures	
Air Filter Clog Indicator	
Water in Fuel Indicator	
Fuel Low Level Indicator	

**Cabin View**

1. Work Mode	10. HMR
2. Speed Setting	11. Hydraulic Temperature Gauge
3. Engine Auto Warming Up	12. Engine Coolant Temperature
4. Leveling	13. Fuel Level Gauge
5. Digging	14. Video Function, Mute Function
6. Power Boost	Maintenance and Menu Key
7. Auto Idling	15. Function Keys
8. Travel Mode	16. Selection Switches
9. Preheating	

# EASY MAINTENANCE & SAFE OPERATIONS

The Newly designed E-series excavators, servicing become more easier with remote installation of replacement parts & easy accessibility to all the service touch points from ground level.



- 
- 
- 
- 
- 

**6**

1. Easy acceblity to externally placed electric box and A/C filter next to the door make job faster.
2. Flange type connectors used in hydraulic lines
3. Air pre cleaner prevents the dust from entering and damaging the engine.
4. Graphite infused bushes enhanced the greasing intervals.
5. Easy access to various filters from ground level

**7**

**8**

6. Standard Cabin front guard & roof guard (Optional).
7. Safety lever.
8. well placed Anti skid plates and safety rails on the and safety rails on the upper structure

## ERGONOMICALLY DESIGNED CABIN

The Newly designed E-series excavators, are equipped with all the convenient and safety features to give you optimum comfort, peace of mind and help you focus on the job at hand. Premium quality of cab cushioning ensures the operator can work long days in comfort and with less fatigue.



### CLEAR VISIBILITY

The New E series excavators are ergonomically designed cabs which ensure no obstacles should disturb the operator's vision through out the operation and enhance the operator confidence to do the job with more safety. Which impact in improved cycle times and maximizing the output.

## PRESSURIZED SPACIOUS CAB UNIT

The Newly - Designed cab is highly pumped with conditioned air into the cabin in order to create a safe and comfortable environment for operators at various working conditions. Which reduces the operator fatigue and optimize the work efficiency of operator through out the operation

Wide spacious cab includes seat with reclining backrest the seat full degree of adjustable system in height and longitudinal inclination by pull up the lever.



Smooth travel pedal and thin joystick provide excellent grips



Automatic climate control 9 air cooling vents



Large sunroof better visibility



Music system with wireless bluetooth and wiper washer switch



Bottle holder and water chiller



12V Power socket for charging Easy remote monitoring of working parameters



Soft cushioning with fully adjustable seat for optimum operating position.

### ENHANCE VISIBILITY



# 924E XD SPECIFICATIONS >>>



## ENGINE

Make	CUMMINS
Engine Model	QSB7
Gross Power	166 hp @ 2,050 rpm
Peak Torque	158 N·m @ 1,300 rpm
Number of Cylinders	6
Displacement	6.7 L
Aspiration	Turbocharged CAC

## HYDRAULIC SYSTEM

<b>Main Pump</b>	
Type	Two Variable Displacement Piston Pumps
Maximum Flow	2 x 224 LPM
<b>Pilot Pump</b>	
Type	Gear Pump
Maximum Flow	19 LPM
<b>Relief Valve Setting</b>	
Implement	34.3/37.3 MPa
Travel Circuit	34.3 MPa
Swing Circuit	28.5 MPa
Pilot Circuit	3.9 MPa

## SWING SYSTEM

Swing Speed	12 rpm
Swing Torque	68, 591 N·m
Swing Motor	Axial Piston Motor
Swing Reduction	Planetary Gear
Swing Bearing	Lubrication Grease Bathed

## DRIVE SYSTEM

Drive Motor	Axial Piston Motor
Drive Reduction	Planetary Gear
Max. Drawbar Pull	245 kN
Travel Speed (High/Low)	(5.1/3.0) km/h
Gradeability	70% (35°)

## BUCKETS

HD Bucket	1.15 m <sup>3</sup>
GP Bucket	1.25 m <sup>3</sup>
Light Duty Bucket*	1.35 m <sup>3</sup>

## UNDERCARRIAGE

Center Frame	X-Plate
Track Frame	Box Type
Track Shoe Each Side	49
Track Guard	3
Shoe Width, Triple Grouser	600 mm
Bottom Rollers Each Side	9
Top Rollers Each Side	2
Track Shoe Thickness	12.5 mm

## SERVICE CAPACITIES

Fuel Tank	420 L
Engine Oil	25 L
Final Drive	3.4 Lx2
Cooling System	30 L
Hydraulic System Total	330 L
Swing Device	4.6 L
Hydraulic Tank	180 L

## ELECTRICAL SYSTEM

Voltage	24 V
Battery	12 V, 100Ah x2
Working Lights	5

## OPTIONAL

Top Cabin Guard
RB Pipeline
I-Link (GPS)

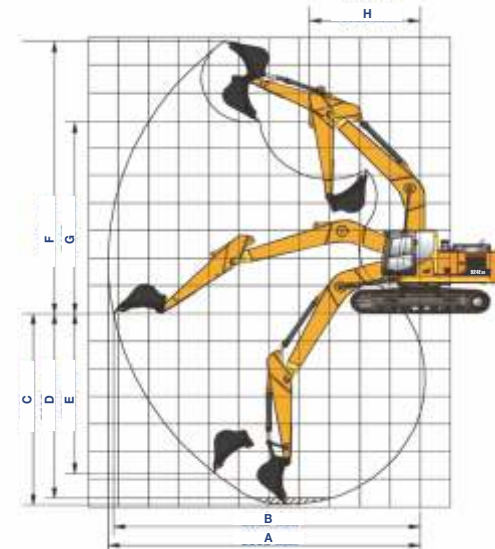
## OPERATING WEIGHT

Operating Weight	23, 600 kg
Shoe Ground Pressure	45.2 kPa

## WORKING RANGE

Boom Length	5,710 mm
Arm Length	2,400 mm
A. Max. Digging Reach	9,328 mm
B. Max. Digging Reach on Ground	9,136 mm
C. Max. Digging Depth	6,100 mm
D. Max. Digging Depth 2.44m (8')	5,820 mm
E. Max. Vertical Wall Digging Depth	4,408 mm
F. Max. Cutting Height	9,464 mm
G. Max. Dumping Height	6,832 mm
H. Min. Front Swing Radius	3,064 mm
Bucket Digging Force (ISO)	159 kN
Arm Digging Force (ISO)	125 kN
Bucket Tip Radius	1,480 mm

## WORKING DIMENSIONS (Reference Bucket - 1.25 m<sup>3</sup>)



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 a 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 80% 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.

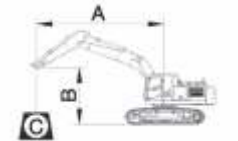
## LIFTING CAPACITY (METRIC)

924E XD with 600 mm shoes, 2,400 mm arm

### Conditions

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

Boom length: 5,710 mm  
Arm length: 2,400 mm  
Bucket: ISO 1.15 m<sup>3</sup>, 1021 kg  
Counter weight: 4,300 kg  
Shoes: 600 mm  
Unit: kg



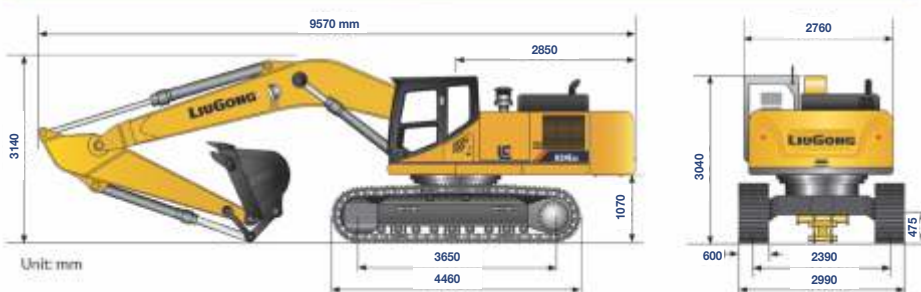
B (m)	A (Unit: m)												MAX REACH A (m)		
	2		3		4		5		6		7				
	Cf	Cs	Cf	Cs	Cf	Cs	Cf	Cs	Cf	Cs	Cf	Cs			
6									*4810	*4810	*3240	*3240	*3240	7.00	
5							*5470	*5470	*5160	*5160	*5010	4310	*3310	7.50	
4			*10090	*10090	*7600	*7600	*6390	*6390	*5710	5400	*5310	4230	*3710	3520	7.80
3			*10440	*10440	*9520	9520	*7470	6860	*6370	5220	*5710	4120	*3970	3320	8.00
2					*11260	9060	*8530	6570	*7040	5050	*6140	4010	*4110	3200	8.10
1					*12410	8750	*9380	6350	*7630	4900	*6530	3920	*4100	3150	8.10
0			*8540	*8540	*12950	8610	*9930	6220	*8060	4800	6480	3850	*4900	3230	7.90
-1	*8320	*8320	*11660	*11660	*13030	8580	*10170	6110	8140	4750	6440	3820	*5610	3400	7.60
-2	*11500	*11500	*15200	*13900	*12730	8610	*10080	6110	8140	4740	6460	3830	6320	3750	7.10
-3	*14880	*14880	*15510	*14070	*12030	8710	*9620	6220	*7820	4800			*7040	4300	6.50
-4	*13450	*13450	*13720	*13720	*10760	8880	*8590	6350					*7440	5420	5.60

Buckets	Bucket Capacity (Heaped m <sup>3</sup> )	Width (mm)	Weight (kg)	Material Density (kg/m <sup>3</sup> )						
				800	1000	1200	1400	1600	1800	
Heavy Duty (HD)	1.15	1362	1028							
General Purpose (GP)	1.25	1463	1054							
Light Duty Bucket* (LD)	1.35	-	-							

\*Available on special Demand

Notes

## STATIC DIMENSIONS



All parameters within (±) 2.5% of the specified values. Specification are subject to change without notice. LiuGong standard and optional equipment may vary from region to region. Please consult your LiuGong dealer for information specific to your area.

\* Items shown as Optional. Availability on demand