# **E LIUGONG** 975E HD EXCAVATOR

COMPREHENSIVE MINING SOLUTIONS

LIUGONG



# PERFORMANCE

- Powerful Cummins Engine for **Best in class Performance**
- Superior Breakout Forces High Digging Capabilities
- Large Buckets Dig More Earn More
- Power of Dual swing motor Faster cycle time
- Larget Undercarriage Excellent Machine Stability

# EFFICIENCY

- High Fuel Efficiency Lowest fuel per unit work
- Efficient Hydraulic system Efficient Power Utilization
- Hydraulically Operated Variable Speed Cooling Fan
- Precise and Efficient Computer Aided Power Control

# RELIABILITY

- World Reknowned and Proven Powertrain Components
- Heavy Duty Structure with Stress relieved Steel and Castings
- Heavy Duty Undercarraige for all Rough Terrains

# COMFORT

- Smart Cab with Optimized Space
- Best in Class Visibility
- Automatic climate control 9 air cooling vents

# **MAXIMUM UPTIME**

- Easily accessible service points
- Side Walkway for Safe Serviceability
- Reversible cooling Fan
- Centralised Greasing Simplified Maintenance







LOW TCO







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# HIGH PERFORMANCE WORKING HARDER AND FASTER

The 975E HD digs, swings and loads using the most efficient technology and its improved stability, tractive force and Power contributes in its quick cycle and matchless star performance. 975E HD's outstanding digging force gets the job done whether you're working at a any rough application.



The intelligent combination of powerful Hydraulics, Fuel Economy enhancing technologies helps 975E HD to perform best to provide ultimate satisfaction to the end user.

# **LET'S PROVE**

#### **SUPERIOR DIGGING AND LIFTING FORCE**

#### Powerful Engine

- Cummins QSX15 EngineTurbocharge (VGT),
- air to air inter cooler.
- Electronically Controlled
   Direct Injection
- Efficient but simple



#### **Powerful Hydraulics**

Advance electrohydraulic system uses intelligent technology to control on-demand flow and reduces internal losses in the hydraulic circuit. This provides superior digging force, shortens cycletime and increases controllability.



#### FAST AND PRECISE CYCLE TIME







#### Large Bucket

975E HD's heavy-duty Large bucket is built using wear resistant plates made out of reinforced high quality durable materials.

• HD Bucket - 5.6 cum

#### **Higher Stability**

975E HD's wider track gauge contributes in better stability and for a wellbalanced machine when operating in adverse terrains.





# **HIGH EFFICIENCY MOVING MORE FOR LESS**

975E HD strikes the most important factor in TCO which is fuel efficiency and contributes in the profitability by being both productive and efficient. Power, speed, and durability combined with innovative technology result in an optimum machine design that makes a reliable contribution to cost-effective success.





## **OUTSTANDING EFFICIENCY**

High Efficiency in extreme duty applications with reduced fuel consumption & High Output helps User to get reduced TCO and more profitability.

## **LET'S PROVE**

#### **FUEL EFFICIENT ENGINE**

- Inline 6-cylinder, turbocharger, electronically controlled direct injection and charge air cooling.
- Delivers best in all RPM ranges most efficiently.



#### HYDRAULICALLY DRIVEN COOLING FAN

Hydraulically driven reversible variable speed fan employed to reduce parasitic load on the engine and improve fuel consumption.



#### **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 second :** If no hydraulic request signal detected from the joystick, the engine speed is automatically dropped by 100 RPM.



**3 seconds :** if no activity is detected over 3 seconds engine speed automatically goes down leads to high efficiency, fuel saving & better control ability.





975E

# HIGH RELIABILTY READY TO WORK WHEN YOU NEED IT

Reliable Components to achieve precise controlling of work, with extra reinforced structures, manufactured in house with advanced robotic manufacturing, to take on the challenge of extreme duty applications.

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**RELIABLE 975E HD** 

# **LET'S PROVE**

#### **STRENGTHENED UNDERCARRIAGE**

- The reinforced undercarriage is built to withstand tougher conditions for improved durability and reliability.
- Extra stability with high track gauge, 8 heavy duty track rollers and 3 carrier Rollers.
- Thick track shoes









# The use of thick, high-tensile strengthened, stress-relieved steel plates, makes the structures on E-series excavators, extra strong & reliable.

#### **XTREME DUTY BOOM**

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

#### **XTREME DUTY ARM**

- High tensile strengthened steel
- Wear resistant vertical bars

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



# OUTSTANDING COMFORT JUST LIKE HOME

The cab design is optimally adapted to the operator's day-to-day requirements. The roomy and ergonomic operator's cab offers the perfect conditions for fatiguefree, focused work to optimize productivity.



## **CLEAR VISIBILITY**

975E HD's ergonomically designed cabs ensures no obstacles should disturb the operator's vision throughout the operation and enhance his confidence to do the job with more safety which impacts in improved cycle times and maximizing the output.

# **LET'S PROVE**

#### **A SAFER CAB**

- Ergonomical cab with wide Spacious interior.
- It's a clearer cab with best in class visibility.
- 290 degree blind spot behind the driving position has been removed completely.

### **A SMARTER CAB**

- Controls are intelligently positioned for operator's ease and convenience
- A multi-functional display screen delivers real-time information to the operator.

### A COOLER CAB

Airflow and temperature controls also enhanced.
Rear integrated air conditioning and a fully pressurized cab.

### A QUIETER CAB

- We have Reduced in-cab noise by 10%.
- We've reduced vibrations and improved the operator's seat for more comfort.

#### **ADVANCED CLIMATE CONTROL**

An advanced climate control system creates the right environment in any weather.





#### LARGE LCD MONITOR

The easy-to-read, full-color LCD monitor displays all the critical information your operator needs, including working mode, hydraulic oil temperature, hydraulic pressure and service intervals.



## 975E HD HYDRAULIC EXCAVATOR

# **MANTANABILITY** SERVICE : IF EASY, IT GETS DONE



#### EASILY ACCESSIBLE SERVICE POINTS MAKE DAILY CHECKS FAST AND EFFECTIVE

- Easily visible hydraulic oil level gauge
- Accessible, grouped filters
- Easy to replace A/C filter next to the cab door
- Maintenance free air filter

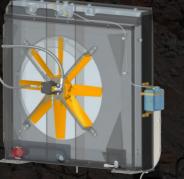
#### **ON BOARD MONITORING**

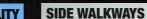
With onboard monitoring, the operator can check the machine's vital signs without leaving his seat. Using the LCD display, the operator can easily check oil temperatures and pressure levels, receive service interval alerts and access other information that contributes to simple maintenance and servicing of the machine.



#### **REVERSIBLE COOLONG FAN**

Smart reversal technology with the back blowing function can clean the radiator core to ensure efficient heat dissipation.







# SPECIFICATIONS

#### OPERATING WEIGHT 75,000 kg

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

5.6 m<sup>3</sup>

BUCKET CAPACITY

#### SWING SYSTEM

#### Description

Planetary gear reduction torque axial piston moto brake. Swing parking bra seconds after swing pilo neutral.

Swing speed

HYDRAULIC SYSTEM

Main pump

Maximum flow

Maximum flow

Implement

Travel circuit

Relief valve setting

Pilot pump

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#### Description

ENGINE

Cummins EPA Tier 3 / I 6-cylinder, turbocharge controlled direct injecti Air cleaner: Cummins c Cooling system: Charg	er, electronically on. lirect flow air filter.
Emission rating	EPA Tier 3 / EU Stage IIIA
Engine manufacturer	Cummins
Engine model	X15
Aspiration	Wastegate Turbo (WGT)
Charged air cooling	Aftercooler
Cooling fan drive	Hydraulic & Direct
Displacement	15 L
Rated speed	1,800 rpm
Engine output - rated	524 hp @ 1,800 rpm
Maximum torque	2,373 N⋅m @1,400 rpm
Bore × Stroke	137 × 169 mm
	1 Areast 1

## UNDERCARRIAGE Track shoe each side 48 Link pitch 260.4 mm Shoe width, double grouser 650 mm

8 3

Bottom rollers each side

Top rollers each side

Slew circuit	
Pilot circuit	
Hydraulic cylinders	
Boom Cylinder – Bore × Stroke	1
Arm Cylinder – Bore × Stroke	
Bucket Cylinder – Bore × Stroke	

	QUICK SERVICEABILITY



7.4 rpm

	l
wo variable	
isplacement piston	
umps	

2 × 476 L/min

Gear pump

30 L/min

34.3 / 37.3 MPa

34.3 MPa

26.5 MPa

3.9 MPa

Φ200 × 1,720 mm

Φ215 × 1,935 mm

Ф210 × 1,415 mm

#### ELECTRIC SYSTEM

System voltage	24 V
Batteries	2 x 12 V
Alternator	24 V - 100 A
Start motor	24 V - 9 kW

#### SERVICE CAPACITIES

Fuel tank	1,100 L
Engine oil	46 L
Final drive (each)	20 L
Swing drive (each)	14 L
Cooling system	72 L
Hydraulic reservoir	360 L
Hydraulic system total	680 L

#### SOUND PERFORMANCE

Interior sound power<br/>level (ISO 6396)71 dB(A)Exterior sound power<br/>level (ISO 6395)107 dB(A)

#### **DRIVE AND BRAKES**

#### Description

2-speed axial piston motors with oil disk brakes. Steering controlled by two hand levers with pedals.

Travel speed

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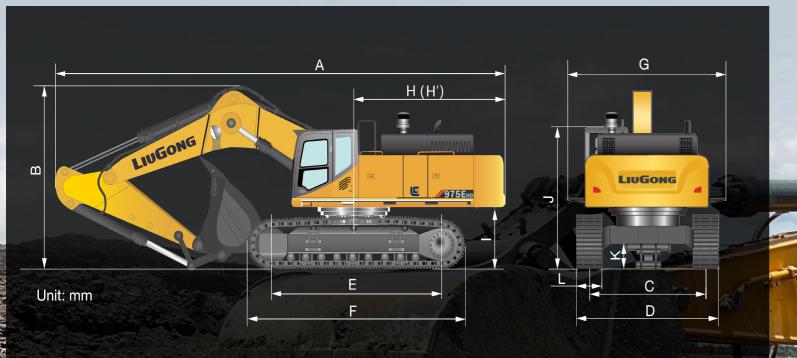
Max. drawbar pull 498

495 kN

35°/70%

4.7 / 3.0 km/h

## 975E HD HYDRAULIC EXCAVATOR



#### DIMENSIONS

Boom	6,600 mm
Arm Options	2,900 mm
A Shipping Length	12,630 mm
B Shipping Height – Top of Boom	4,710 mm
C Track Gauge	*3,350 mm / 2,720 mm
D Undercarriage Width – 650 mm shoes	*4,000 mm / 3,360 mm
E Length to Center of Rollers	4,750 mm
F Track Length	5,981 mm
G Overall Width of Upper Structure	**4,260 mm / 3,390 mm
H Tail Swing Radius	4,490 mm
I Counterweight Ground Clearance	1,495 mm
J Overall Height of Cab	3,620 mm
K Min. Ground Clearance	867 mm
Track Shoe Width	650 mm

\* Adjustable gauge

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#### MACHINE WEIGHT AND GROUND PRESSURE

Operating weight	Overall width
6.6 m boom/2.9 m arm/ 5.6 m <sup>3</sup> bucket/12,500 kg counterweight/650 mm shoe width	· · · · · · · · · · · · · · · · · · ·
75,000 kg	4,260 mm







WORKING RANGE	
Boom Length	6,600 mm
Arm Length	2,900 mm
A. Max. Digging Reach	11,450 mm
B. Max. Digging Reach on Ground	11,170 mm
C. Max. Digging Depth	7,180 mm
D. Max. Digging Depth, 2.44 m (8') level	7,030 mm
E. Max. Vertical Wall Digging Depth	4,080 mm
F. Max. Cutting Height	10,950 mm
G. Max. Dumping Height	7,030 mm
H. Min. Front Swing Radius	4,900 mm
Bucket Digging Force (ISO)	397/425 kN
Arm Digging Force (ISO)	349/372 kN
Bucket Capacity	5.6 m <sup>3</sup>
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## LIUGONG INDIA NETWORK



Always a LiuGong dealer near you.

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