

Engine

Cummins QSG 12, EU Stage IV

Net Power

383 hp (282 kW)

Operating Weight

64 320 kg

Maximum Working Pin Height

30 m

950E

DEMOLITION EXCAVATOR



LIUGONG



TOUGH WORLD. TOUGH EQUIPMENT.

BUILT TO DEMOLISH

Demolition is the first step of progress with some tough and unforgiving work. No matter the task; primary demolition, moving, sorting, loading and processing debris, LiuGong 950E excels in the arena of demolishing. It is built for maximum performance on all types of demolition sites with features that enhance efficiency, durability & safety.

POWER WITHOUT WASTE

Powered by the latest fuel efficient Cummins QSG12 engine, 950E has a net power rating of 383 hp (282 kW) @ 2100 rpm and fully complies with EU Stage IV emission standards without compromising on power or performance.

For operational efficiency, the engine uses a precise, high pressure common-rail fuel injection system, turbo charger (VGT) and air-to-air intercooler, along with electronic engine controls to deliver optimal performance in every cycle in every shift. Engine emissions are virtually eliminated by NOx and Dual reduction Technology, ensuring that the 950E delivers, both for the environment and the bottom line.



INTELLIGENT POWER CONTROL

The 950E's advanced Intelligent Power Control (IPC) system intelligently delivers the power you need – when you need it. This new generation computer-aided IPC system allows the 950E's mechanical, electrical and hydraulic systems to work together in perfect harmony and helps even novice operators get more from the machine. An improved hydraulic pump system delivers efficient oil output under lower engine speeds, resulting in fuel efficiency and reduced noise level.

ADVANCED HYDRAULIC SYSTEM

LiuGong's advanced hydraulic system, regenerates oil in the cylinders more efficiently reducing heat, increasing fuel efficiency and improving cycle times. The hydraulic system is highly effective in delivering power and precise control to where the operator really needs it, making even the toughest job simple.



SMART FUEL ECONOMY

The intelligent combination of powerful digging force, swing torque and lifting performance make the most of every drop of fuel. The 950E maximizes fuel economy by intelligently regulating its idle speed by the second.



1 second: If no hydraulic request signal detected from the joystick, the engine speed is automatically dropped by 100 RPM, saving 1 liter of fuel every 2 hours.



3 seconds: If no activity is detected over three seconds the engine speed will decrease to idle.

In each case, as soon as the system detects the hydraulic signal once more, the engine will immediately return to the previous throttle speed setting.

READY FOR PEAK PERFORMANCE

Demolition contract periods are now becoming shorter and shorter and legislation is more and more stringent. The 950E is designed to get a lot of work done in a short amount of time. Featuring stronger boom, arm and bucket breakout forces, greater hydraulic flows, higher swing speeds and improved cycle times, this excavator will make light work of powering through the toughest demolition sites.

PROVEN PERFORMANCE

LiuGong makes it easy for even the most inexperienced of operators to be productive by harnessing the engine power across the six working modes of the excavator. Just select the mode that matches the work type and the job can be completed in quick time.

SMART HYDRAULICS

Load-sensing hydraulics direct the engine's power to ensure hydraulic pump flow continually adjusts for smooth, quick and efficient operation. It's where intelligence meets brute force. Engine power and hydraulic pump flow are automatically reset to adjust for the load attachment, helping to optimize the productivity of the machine.

RUGGED MACHINE DESIGN

Tough and reliable frame provides increased strength, reduced wear, and improved transmission of power to the ground.

ALWAYS VERSATILE

LiuGong's quick coupler and PowerLatch tilt coupler maximize your uptime by making changeover of attachments like buckets, breakers and shears, quick and simple.

TAKE CONTROL

Ergonomically designed controls, clear and informative displays, enhanced visibility, and outstanding comfort increases operator efficiency and safety. Add to that the easily accessed service points for critical daily servicing and routine maintenance and this machine is sure to be well looked after.

MODULAR DESIGN

The design of the attachment group also allows changing of standard boom & arm group to high reach equipment and vice-versa in 30 minutes or less.



DESIGNED TO MAKE TOUGH WORK EASY ON THE OPERATOR

Climb into the cab of the 950E and you can see that it has been designed by someone who has operated a machine in really tough conditions. Operator comfort and safety are top priority in this demolition application excavator.

The cab is modified by replacing the front window screen with 5-layer laminated glass and also to the same modification, including extending, to the roof glass.

The front and roof glass are then butt joined to the front screen to give unsurpassed upward vision for the operator when working his attachments. Thanks to increased visibility with the tilted cabin, a ROPS/FOPS certified cab and standard rearview camera, the operator can focus on the job with confidence.

The controls are where the operator needs them to be. They are easy to see, easy to reach and easy to handle.

The multi-adjustable air-suspension seats are comfortable and designed to keep the operator fresh and alert.

The cab is sound proofed, vibration protected and well ventilated. It has advanced climate control to handle the changing seasons and is completely sealed to prevent dust contamination.

WE PUT OPERATORS FIRST

It makes good business sense to give operators the very best working environment – a comfortable operator is a productive operator. The 950E keeps operators safer, more alert and more productive.

Smart additions such as; rear view camera, heated seats, refrigerator or personal belonging compartment and an iPod/AUX connection combine to create the best environment – for the best operators.



DAILY CHECKS AND MAINTENANCE SHOULDN'T BE TOUGH

Simple daily checks and maintenance prolong machine performance but, they can be difficult and time consuming on tough jobsites where time is precious.

Not with the 950E.

Smart and effective design makes service and maintenance fast and simple – that's good news for operators who work in some of the toughest places on the planet.

Optional automatic greasing system improves bearing life and reduces repairs by delivering regular and precise amounts of grease to each bearing.

Handrails are fitted as standard on the 950E, enabling safe and easy access to the upper structure for easy engine service and maintenance.



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

ONBOARD 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.



SPECIFICATIONS

Operating weight 64,320 kg (141,801 lbs)

Operating weight includes coolant, lubricants, full fuel tank, cab, standard shoes, 3 piece boom & arm, bucket and operator 75 kg (165 lbs).

ENGINE

Description

Cummins EU Stage IV, 6-cylinder straight Variable-Geometry Turbocharger (VGT), high pressure common rail, electronically controlled direct injection. Air cleaner: Cummins direct flow air filter. Cooling system: Air-to-air intercooler.

Emission rating	EU Stage IV
Engine manufacturer	Cummins
Engine model	QSG12
Aspiration	Variable-Geometry Turbocharger (VGT)
Charged air cooling	Aftercooler
Cooling fan drive	Hydraulic
Displacement	11.8 L (3.12 gal) 11,800 cm ³ (720 in ³)
Rated speed	2,100 rpm
Engine output - net (SAE J1349 / ISO 9249)	383 hp (282 kW)
Engine output - gross (SAE J1995 / ISO 14396)	405 hp (298 kW)
Maximum torque	2,034 N·m (1,500 lbf·ft) @1,400 rpm
Bore × Stroke	132 × 144 mm (5.2" × 5.7")

UNDERCARRIAGE

Track shoe each side	51
Link pitch	216 mm (8.5")
Shoe width, triple grouser	700 mm (28")
Bottom rollers each side	9
Top rollers each side	2

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	8.5 rpm
Swing torque	165,300 N·m (121,919 lbf·ft)

HYDRAULIC SYSTEM

Main pump

Type	Two variable displacement piston pumps
Maximum flow	2 × 380 L/min (2 × 100.4 gal/min)

Pilot pump

Type	Gear pump
Maximum flow	28.5 L/min (7.5 gal/min)

Relief valve setting

Implement	32.3/35 MPa (4,685/ 5,076 psi)
Travel circuit	32.3 MPa (4,685 psi)
Swing circuit	28 MPa (4,061 psi)
Pilot circuit	3.9 MPa (566 psi)

BOOM & ARM

Base boom	12.3 m
Middle arm	2.4 m
Demolition arm	9.5 m

ELECTRIC SYSTEM

System Voltage	24 V
Batteries	2 × 12 V
Alternator	24 V - 70 A
Start motor	24 V - 7.5 kW (24 V - 10.1 hp)

SERVICE CAPACITIES

Fuel tank	650 L (171.7 gal)
Engine oil	34 L (9.0 gal)
Final drive (each)	15 L (4.0 gal)
Swing drive	2 × 5.3 L (2 × 1.4 gal)
Cooling system	33 L (8.7 gal)
Hydraulic reservoir	290 L (76.6 gal)
Hydraulic system total	520 L (137.4 gal)
DEF tank	56.8 L (15 gal)

DRIVE AND BRAKES

Description

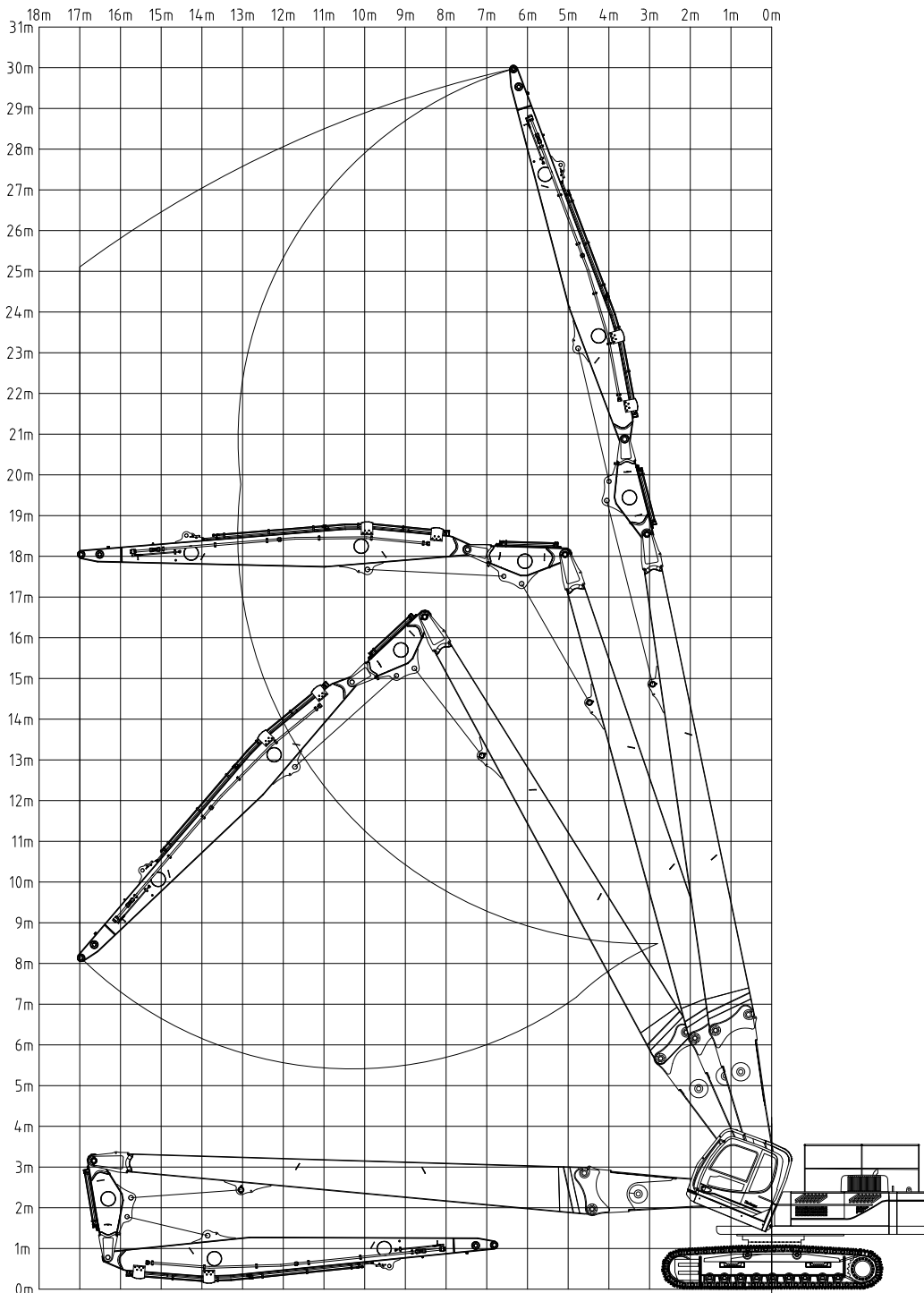
2-speed axial piston motors with oil disk brakes. Steering controlled by two hand levers with pedals.

Max. travel speed	High: 5.5 km/h (3.4 mph) Low: 3.3 km/h (2.1 mph)
Gradeability	35%/70%
Max. drawbar pull	320 kN (71,939 lbf)

WORKING RANGE

Maximum working pin height 30 m

Maximum outreach 17 m



Maximum attachment weight

3 000 kg (including quick coupler)



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