

965E EXCAVATOR

COMPREHENSIVE MINING SOLUTIONS



TOUGH WORLD. TOUGH EQUIPMENT.

PERFORMANCE

- Powerful Engine for Groundbreaking Performance
- Superior Breakout Forces High Digging Capabilities
- · Large Buckets High Producitivity
- · Power of Dual swing motor Faster cycle time
- Larget Undercarriage Stable Operation

EFFICIENCY

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

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
- Automatic climate control 9 air cooling vents
- Best in Class Visibility

MAXIMUM UPTIME

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











HIGH F









BEST IN CLASS PERFORMANCE

The intelligent combination of powerful Hydraulics, Fuel Economy enhancing technologies helps 965E to perform best to provide ultimate satisfaction to the end user.

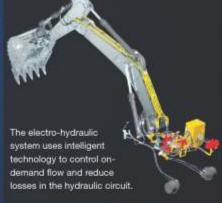
LET'S PROVE

FAST AND PRECISE CYCLE TIME

High hydraulic flow and swing speed combine to ensure fast cycle times on tasks such as truck loading, digging and trenching.



INTELLIGENT ELECTROHYDRAULIC SYSTEM



DUAL SWING MOTOR



SUPERIOR DIGGING AND LIFTING FORCE

Powerful Engine

- Scania Engine
- Turbocharge (VGT), air to air inter cooler.
- Electronically Controlled Direct Injection
 Efficient but simple



Large Bucket

965E's heavy-duty Large bucket is built using wear resistant plates made out of reinforced high quality durable materials.

• HD Bucket - 4.1 cum



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.



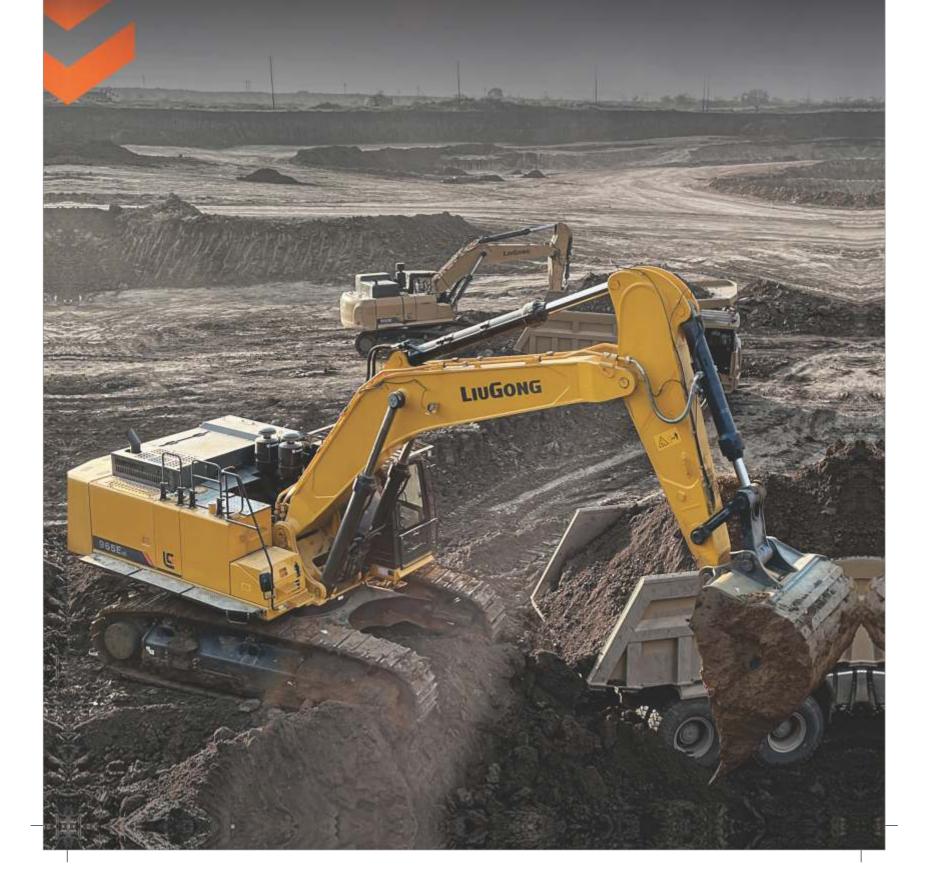
Higher Stability

965E's wider track gauge contributes in better stability and for a well-balanced machine when operating in adverse terrains.



HIGH EFFICIENCY MOVING MORE FOR LESS

Power, speed, and durability combined with innovative technology result in an optimum machine design that makes a reliable contribution to cost-effective success. 965E strikes the most important factor in TCO which is fuel efficiency and contributes in the profitability by being both productive and efficient.





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

- EMS Driven Fuel Efficiency Lowest fuel per unit work
- · 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.



EFFICIENT HYDRAULIC SYSTEM Efficient Power Utilization



965E's efficient Electro-hydraulic system allows more work to be done in lesser time because of its intelligent electronic control and combined pump flow to the bucket for smooth operation, improved cycle time and increased fuel efficiency. The result is maximum controllability and efficiency according to the specific application.

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.

HIGH RELIABILITY 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.





RELIABLE 965E

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

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, 9 heavy duty track rollers and 3 carrier Rollers.
 Thick track shoes



RELIABLE REVOLVING FRAME



4.1 m³ HD BUCKET



XTREME DUTY BOOM

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

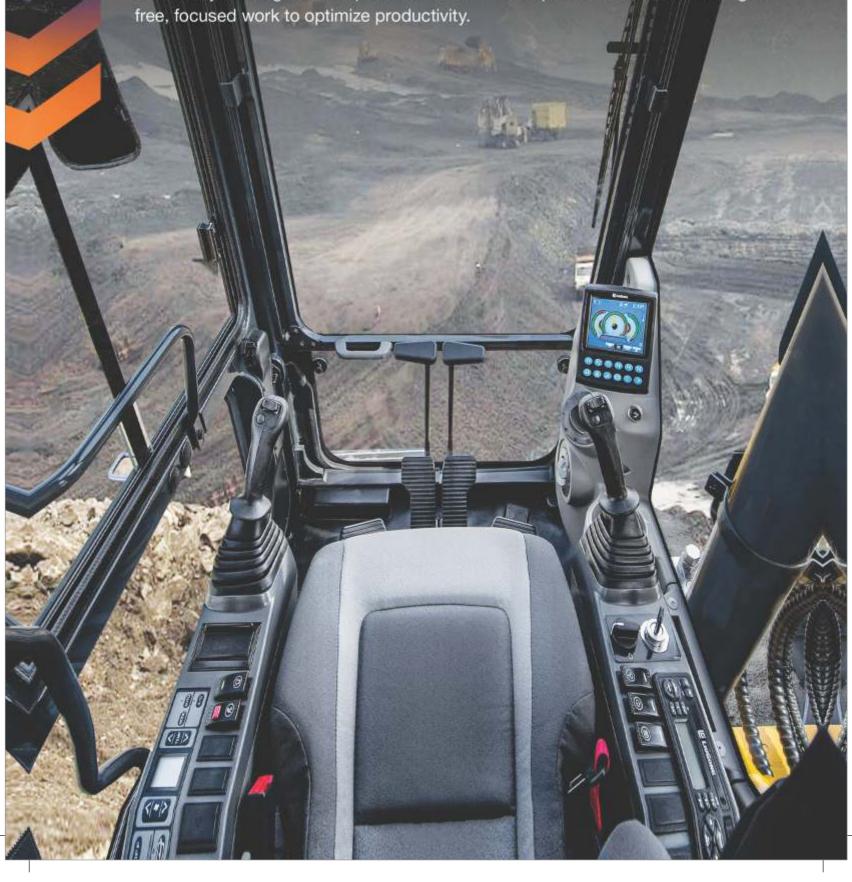
XTREME DUTY ARM

- High tensile strengthened steel
- · Wear resistant vertical bars



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 fatigue-free, focused work to optimize productivity.





CLEAR VISIBILITY

965E'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.



MAINTAINABILITY

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

62,600 kg

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

BUCKET CAPACITY

4.1 m³

ENGINE

Description

Scania EPA Tier 3 / EU Stage IIIA, inline 6-cylinder, turbocharger, electronically controlled direct injection. Air cleaner: Scania direct flow air filter. Cooling system: Charge air cooler (CAC)

Emission rating	EPA Tier 3 /
Emission rating	EU Stage IIIA
Engine manufacturer	SCANIA
Engine model	DC13076A
Aspiration	Wastegate Turbo (WGT)
Charged air cooling	Aftercooler
Cooling fan drive	Hydraulic
Displacement	12.7L
Rated speed	2,100 rpm
Engine output - rated	444 hp@ 2,100 rpm
Maximum torque	2,007 @1,600 rpm
Bore × Stroke	130 × 140 mm

53
228 mm
600 mm
9
3

SWING SYSTEM

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

Swing speed

8.4 rpm

HYDRAULIC SYSTEM

Main pump

Туре	displacement piston pumps	
Maximum flow	2 × 448 L/min	

Pilot pump

Type	Gear pump
Maximum flow	30 L/min

Relief valve setting

35 / 37.2 MPa
35 MPa
32.4 MPa
3.9 MPa

Bucket Cylinder -

Bore x Stroke

Hydraulic cylinders		
Boom Cylinder – Bore × Stroke	Φ185 × 1,560 mm	
Arm Cylinder - Bore × Stroke	Ф200 × 1,980 mm	

Ф190 × 1,290 mm

ELECTRIC SYSTEM

System voltage	24 V
Batteries	2 x 12 V
Alternator	28 V - 100 A
Start motor	24 V - 6 kW

SERVICE CAPACITIES

Fuel tank	880 L
Engine oil	39 L
Final drive (each)	15 L
Swing drive	2 x 5.3 L
Cooling system	39 L
Hydraulic reservoir	310 L
Hydraulic system total	510 L

SOUND PERFORMANCE

Interior Sound Power	71 dB(A)	
Exterior Sound Power	107 dB(A)	

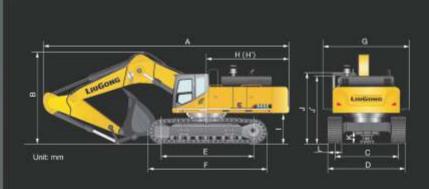
DRIVE AND BRAKES

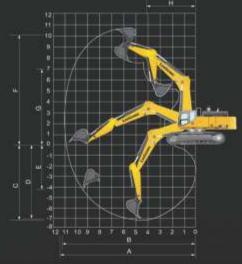
Description

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

Travel speed	4,6/3.0 km/h
Gradeability	35%70%
Max. drawbar pull	460 kN

965E HYDRAULIC EXCAVATOR





DIMENSIONS	_
Boom	6,500 mm
Arm Options	2,550 mm
A Shipping Length	11,870 mm
B Shipping Height – Top of Boom	4,030 mm
C Track Gauge	3,350 / 3190 / 2710 mm
D Undercarriage Width	3,950 mm
E Length to Center of Rollers	4,755 mm
F Track Length	5,800 mm
G Overall Width of Upper Structure	*3,960 mm / 3,510 mm
H Tail Swing Radius	3,910 mm
Counterweight Ground Clearance	1,793 mm
J Overall Height of Cab	3,508 mm
J' Overall Height of Cab (With top guard)	3,648 mm
K Min. Ground Clearance	786 mm
Track Shoe Width	600 mm

WORKING RANGE	
Boom Length	6,500 mm
Arm Length	2,550 mm
A. Max. Digging Reach	11,020 mm
B. Max. Digging Reach on Ground	10,780 mm
C. Max. Digging Depth	6,830 mm
D. Max. Digging Depth, 2.44 m (6") level	6,660 mm
E. Max. Vertical Wall Digging Depth	4,360 mm
F. Max. Cutting Height	10,190 mm
G. Max. Dumping Height	6,840 mm
H. Min. Front Swing Radius	4,880 mm
Bucket Digging Force (ISO)	315 kN/345 kN
Arm Digging Force (ISO)	280 kN/300 kN

HITTORY	S SECTION.	CAPACITIES
WEIGHT	LIFTIME	CAPAGITIES

A : Load Hadius B : Load Point Hieg C : Lift Capacity Rating Cf : Rated Loads Over From

Boom length: 6,500 mm Arm length: 2,550 mm Counterweight: 12,000 kg Shoes: 600 mm



40000000	Load Radius A					MAX Reach						
Load Point Hieght B		3.0 m(10 ft)		4.5 m(15 ft)		6.0 m(20 ft)		7.5 m(25 ft)		Capacity		Distance
rinegin i		Cf	Cs	C1	Cs	Cf	Cs	Cf	Cs	Cf	Cs	A (m)
7.5 m (25 ft)	kg									*15140	13673	7.1
7.5 m (25 ft)	lb									*33378	30143	23
6 m (20 ft)	kg					*16698	*16698	14906	12448	14578	12224	8
0 HI (20 H)	lb					*36812	136812	*32862	27443	132139	24745	26
4.5 m (15 ft)	kg			*24209	*24209	*18374	16651	115539	12112	114369	10052	8.5
4.0 m (10 tu	lb.			*52976	'52976	140509	36710	134259	26702	'31737	22161	28
3.0 m (10 ft)	kg					120125	15772	*16335	11686	14302	9353	8.8
a.u m (1010	lb:					144369	34772	*36012	25763	131531	20619	29
	kg					121183	15109	116856	11318	114306	9181	8.8
1.5 m (5 ft)	lb					*46701	33309	137161	24951	131539	20241	29
	kg			*27503	21939	*21111	14773	*16274	11100	*14374	9500	8.5
Ground level	1b			*60633	48366	146542	32570	*36870	24471	131689	20943	28
	kg	*26090	*26090	*25003	22072	*19756	14735	'15482	11089	114022	10275	8
-1.5 m (-5 ft)	lb	*57519	*57519	*55123	48661	143555	32485	*34132	24447	130914	22653	26
0 - 1 - 0 - 0	kg	*24077	*24077	*20912	*20913	*16688	14981			113605	12347	
-3 m (-10 ft)	lb	*53081	*53081	*46103	*46103	*35790	33028			129993	27220	23
West Property	kg			*13905	*13903					10993	10993	5.6
-4.5 m (-15 ft)	1b			*30656	*30656					124236	124236	18

indicates the load is limited by hydraulic capacity rather than tipping capacity



STANDARD AND OPTIONAL EQUIPMENT

ENGINE	
Aspiration, Wastegate Turbo (WGT)	
6 cylinder, 4 stroke, water cooled.	•
Air filter with dual oil bath pre cleaner	
Pre-filter with water saperator	
Auto-idle speed control	
Electronically controlled direct injection	
Engine oil filter	·
Charge air cooling	•
IPC (Intelligent Power Control) System	
Auto-idle speed control	
Hydraulic Cooling Fan	
6 Working modes	•
Fan Guard	
Reversible cooling system fan	2

Reversible cooling system fan	•
HYDRAULIC SYSTEM	
High-torque Dual swing motor	
Main pump: Two variable displacement piston pumps	
Pliot pump: gear	
Cylinders; boom, arm, bucket	N. C
Power boost function	100
Swing with anti-reverse function	10.53
Boom and arm regeneration circuits	800
Pliat oil filter	1100
Pliat control shut-off lever	// • //
6-working made selection system: Power, Economy, Fine, Lifting, Breaker, Attachment	

OPERATOR'S CAB	
Pressurized and sealed cab with all-around visibility, large roof window with sliding sun visor.	
All weather sound suppressed steel cab	- 10
Front and top guard	
Air suspension seat	100
Bluetooth Music system and FM Radio	1.0
Glass-breaking hammer	
Cigarette lighter	
Cup holder	•
Foot rest	
Rear View camera	8.
Air conditioner, heater, defroster	•
Dust proof Floor mat	
Storage box	
Fire extinguisher	- 10
One key for all locks	- 100
LiuGong i-link (GPS)	770

UNDERCARRIAGE	
600 mm track-shoes with double grousers	
Full length Track-guards (each side)	•
Belly Guard	
Cover plate under travel frame	•
Bottom Rollers - 9 each side, top - 3 each side	•
Adjustable Track Gauge	

BIGGING EQUIPMENT 6,500 mm boom 2,500 mm arm 4.1 m⁵ bucket ELECTRICAL AND INSTRUMENTATION Color LCD monitor with

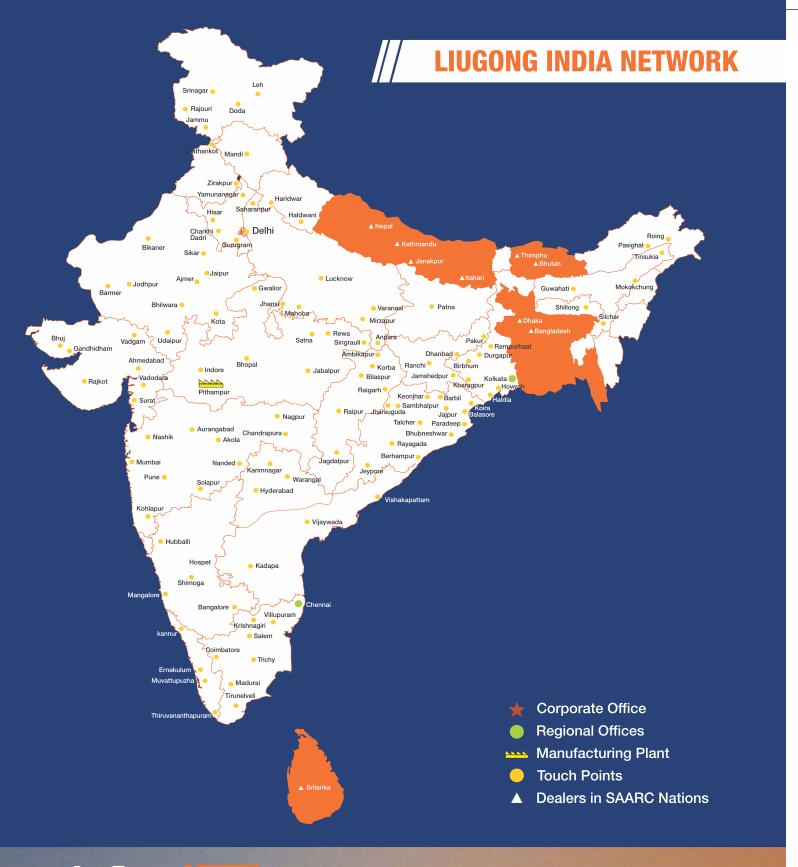
alarms, filter/fluid change, fuel rate, water temperature, work mode, fault code, working hour.	•
Travel alarm	•
Rotating beacon	•
Fuel gauge	
Hydraulic oil level gauge	

Fuel gauge	
Hydraulic oil level gauge	
Alternator 100 A	•
Working lights	•
Two batteries 2 x 12 V	•

MAINTENANCE AND SAFETY	
Maintenance tool kit	
Maintenance parts Manual	•
Skid resistance Tapes, walkways and handrails	
Automatic lubrication system	۰
Auto fire suppression	0

Standard O Optiona







LIUGONG

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