

E385C EVO HYDRAULIC EXCAVATOR



1. ENGINE TIER 3

Type	Water-cooled, 4-cycle diesel, 6-cylinder in line, High pressure common rail system (electric control), Turbocharger with air cooled intercooler
Model	ISUZU GH-6HK1XKSS
Rated flywheel horse power (ISO 9249)	200 kW at 2000 min ⁻¹ (rpm)
(ISO 14396)	212 kW at 2000 min ⁻¹ (rpm)
Piston displacement	7790 cc
Maximum torque (ISO 9249)	983 N-m at 1500 min ⁻¹ (rpm)
(ISO 14396)	1020 N-m at 1500 min ⁻¹ (rpm)
Bore and stroke	115 mm X 125 mm
Voltage	24 V
Alternator	50 Amp
Starter	24 V 5.0 kW

2. HYDRAULIC SYSTEM

Main pumps	2 variable displacement axial piston pumps with regulating system
• Max. oil flow	2 X 300 liter/min at 2000 min ⁻¹
• Working circuit pressure	34.3 MPa
• Boom/Arm/Bucket	37.3 MPa with auto power up
• Swing circuit	30.4 MPa
• Travel circuit	34.3 MPa
Pilot pump	1 gear pump
• Max. oil flow	30 liter/min
• Working circuit pressure	3.9 MPa

Control valves

With Boom/Arm holding valve
One 4-spool valve for Right track travel,
Bucket, Boom and Arm acceleration
One 5-spool valve for Left track travel,
Auxiliary, Swing, Boom acceleration and Arm

Swing device

• Motor	Fixed displacement axial piston motor
• Brake	Mechanical disc brake
• Final drive	Planetary gear reduction
• Turn table bearing	Ball bearing type with internal gear
• Maximum swing speed	10.0 min ⁻¹ (rpm)
• Swing torque	112,000 N-m

Cylinders

	NO. of cylinders – bore X Rod diameter X Stroke
• Boom	2 – Ø 145 mm X Ø 100 mm X 1495 mm
• Arm	1 – Ø 170 mm X Ø 120 mm X 1748 mm
• Bucket	1 – Ø 150 mm X Ø 105 mm X 1210 mm

3. HYDRAULIC CONTROLS

Boom/Arm/Bucket/Swing	Pilot pressure control system (ISO control pattern)
Travel	Pilot pressure control system
Work mode select	
• SP – mode	
• H – mode	
• Auto – mode	
Travel mode select (2-speed travel)	
Attachment cushion control	
Hydraulic lock (gate lock, left side tilt console)	

4. ELECTRICAL SYSTEM

Engine control

- Dial type throttle control
- One touch idle / Auto deceleration / Auto idle shutdown system
- Emergency stop

Monitor system

- Message display (Caution, condition, etc...)
- Work mode display (SP, H, Auto)
- Machine condition (Power boost, etc...)
- Alarm display and buzzer
- Water temperature
- Hydraulic oil temperature
- Fuel level
- Diagnosis system

Wire harness

- Waterproof type connector

Safety

- Travel alarm
- Double horn

Battery 2 X 12 V 128 Ah / 5 HR

Lights

- Working light

Upper	24 V 70 W X 1
Boom	24 V 70 W X 2
CAB	24 V 70 W X 2
Operator's cab	Room 24 V 10 W X 1

5. OPERATOR ENVIRONMENT

Operator's cab

- Smooth and round shape design cab, fabricated by press work
- Safety glass for all windows
- Shock-less cab suspension by 4-point fluid mounting
- Sliding front window with auto lock
- Built-in type full-color LCD monitor display
- Membrane switch on monitor display
- Windshield wiper & washer
- AM/FM Radio with auto-tuner
- Floor mat
- Polycarbonate roof hatch & Sun shade
- Auto air conditioner
- Roll-over protective structure (ROPS)
- Top guard OPG level 1 (in CAB structure)

Operator's seat

Low frequency mechanical suspension with helical springs and double acting hydraulic damper. (Achieves ISO7096 in category EM6)

With following features

- Manual weight adjustment
- Backrest angle adjustment
- Seat height adjustment
- Adjustable pivoting armrests linked to consoles
- Adjustable headrest
- Retractable seat belt
- Adjustable lumbar support
- Control consoles adjust independently of seat

Others

- Rear view mirror (Cab side & Right side)

6. UNDERCARRIAGE

Travel motor	Variable displacement axial piston motor
Brake	Mechanical disc brake
Hydraulic service brake	Brake valve
Final drive	Planetary gear reduction
Travel speeds	
High	5.4 km/h (Automatic travel speed shifting)
Low	3.4 km/h
Drawbar pull	263 KN
Number of carrier rollers	2 (each side)
Number of track rollers	8 (each side)
Number of shoes	48 (each side)
Type of shoe	Triple grouser shoe
Link pitch	216 mm
Width of shoe	600 mm (S.T.D)
Grade-ability	70% (35°)

7. MASS

Operating mass

37,445 kg with 2.63 m HD Arm, 2,0 m³ HD Bucket, 600 mm grouser shoe, operator, lubricant, coolant, full fuel tank

Counter weight mass 7,700 kg

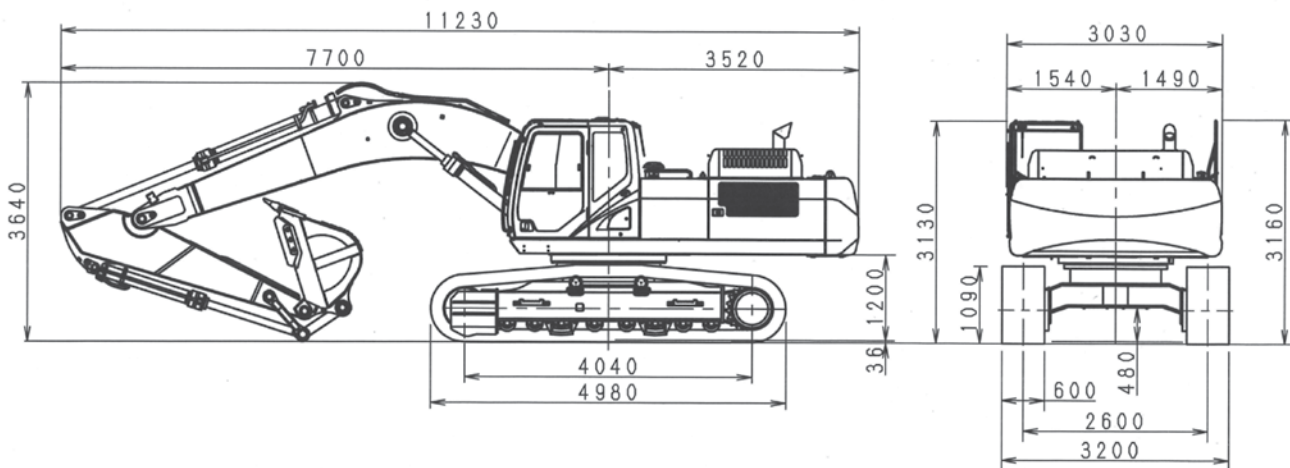
Ground pressure 0.70 MPa (with 2.0 m HD Arm, 1.8 m³ HD Bucket, 600 mm grouser shoe)

8. DIGGING FORCE

(ISO 6015)	(Arm 2,63 m)
Arm digging force	196 kN
With auto power up	213 kN
Bucket digging force	232 kN
With auto power up	252 kN

9. DIMENSIONS

Overall length (without attachment)	6010 mm	(2,63m Arm)
Overall length (with attachment)	11230 mm	
Overall height (with attachment)	3640 mm	
Cab height	3130 mm	
Upper structure overall width	3030 mm	
Swing (rear end) radius	3550 mm	
Clearance height under upper structure	1200 mm	
Minimum ground clearance	480 mm	
Wheel base (Center to center of wheels)	4040 mm	
Crawler overall length	4980 mm	
Track gauge	2600 mm	
Undercarriage overall width (with 600 mm shoes)	3200 mm	
Crawler tracks height	1090 mm	

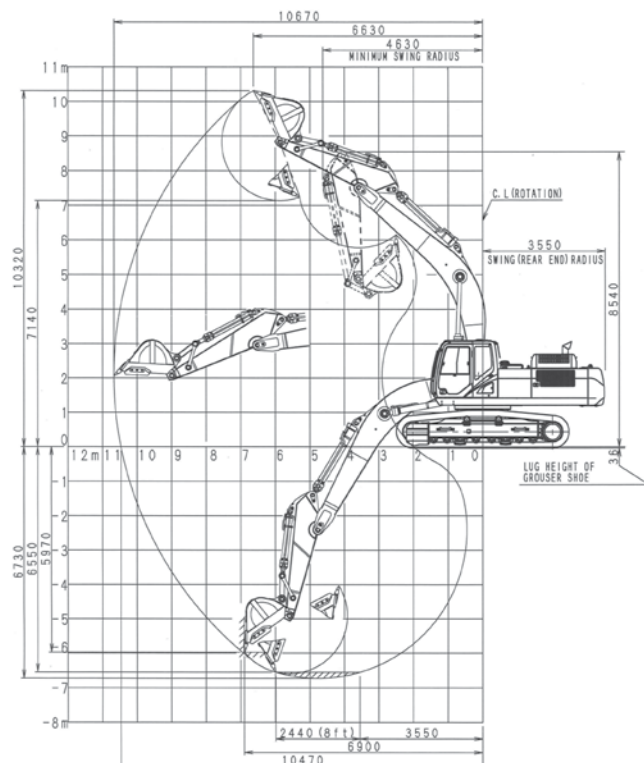


10. WORKING RANGES

	(2,63m Arm)
Boom length	6450 mm
Bucket radius	1680 mm
Bucket wrist action	173°
Maximum reach at GRP	10470 mm
Maximum reach	10670 mm
Max. digging depth	6730 mm
Max. digging height	10320 mm
Max. dumping height	7140 mm

11. SYSTEM FLUID CAPACITIES AND SPECIFICATIONS

Capacities	Specifications
Hydraulic system	350 liter ISO VG 46
Hydraulic sump tank	175 liter ISO VG 46
Fuel tank	580 liter Light oil (Diesel)
Cooling system	32.9 liter Coolant 50%, Water 50%
Final drive case (per side)	11.0 liter API GL-4 90
Swing drive case	5.0 liter API GL-5 90
Engine crank case (With Remote Oil Filter)	41.0 liter API CD SAE 10W-30





E385^{EVO}C

Factory:

Contagem – Minas Gerais – Brasil
Av. General David Sarnoff, 2.237
Inconfidentes – CEP 32210-900
Teléfono: 31 2104-3111

Comercial Office:

Nova Lima – Minas Gerais – Brasil
Rua Senador Milton Campos, 175 / 4º andar
Vila da Serra – CEP 34000-000
Teléfonos: 31 2123-4902 / 31 2123-4904

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