

**NEW!**

ENGINE

Model	: ISUZU-AI-4HK1X
Type	: Water-cooled, 4 cycle, 4 cylinders, line type direct injection, turbocharger, intercooler, electronic diesel engine
Power	: 172 HP (128 kW) @2000 rpm / SAE J1995 (Gross) : 162 HP (121 kW) @2000 rpm / SAE J1349 (Net)
Max. Torque	: 677 Nm @1600 rpm (Gross) : 656 Nm @1600 rpm (Net)
Displacement	: 5193 cc
Bore and Stroke	: 115 mm x 125 mm

* This engine complies with the Emission Regulations U.S. EPA Tier 3, and EU Stage III-A

UNDERCARRIAGE

X Type Lower Frame Construction Pentagon Box Type Chassis	
Shoe	: Triple grouser
No. Of Shoes	: 2 x 49
No. Of Lower Rollers	: 2 x 9
No. Of Upper Rollers	: 2 x 2
Track Tensioning	: Hydraulic Spring Tensioning

CAB

- Wide cab and easy entrance
- Use of six viscomount cabin mountings that dampen the vibrations
- Cooled storage room
- Colourful, Easy to read TFT indicant monitor
- Glass holder, book and object storage pockets
- Full automatic digitally air-conditioner
- Overclass standards on the visibility
- Pool type floor mat
- Improved operator's comfort through versatile adjustable seat
- Ergonomically redesigned cabin through relocated switch board, and re-styled travel pedals and levers
- USB connected MP3 player
- Easy to open the front sliding glass
- Front and rear sun visor
- Large storage areas
- Height adjustable joystick
- Improved seat to back angle
- The height adjustable seat armrests
- Opera Control System

TRAVEL AND BRAKERS

Travel	: Fully hydrostatic
Travel Motors	: Axial piston type
Reduction	: 2 stage planetary gear
Travel Speed	
High Speed	: 5,8 km/h
Low Speed	: 3,8 km/h
Max. Drawbar Pull	: 18,355 kgf
Gradeability	: 35° (%70)
Parking Brake	: Hydraulic multi disc type
Ground Pressure (600mm Shoe)	: 0,50 kgf/cm ²

LUBRICATION

Centralized lubrication system is provided for lubrication all difficult-to-reach parts on the components, such as boom and arm

HYDRAULIC SYSTEM

Main Pump	
Type	: Double variable displacement axial piston pumps
Max. Flow	: 2 x 231 L/min
Pilot Pump	: Gear, 20 L/min
Relief Valves	
Attachment	: 350 kgf/cm ²
Power Boost	: 370 kgf/cm ²
Travel	: 350 kgf/cm ²
Swing	: 305 kgf/cm ²
Pilot	: 40 kgf/cm ²
Cylinders	
Main Boom	: 2 x ø 120 x ø 85 x 1.300 mm
Stick Cylinder	: 1 x ø 135 x ø 95 x 1.520 mm
Bucket Cylinder	: 1 x ø 120 x ø 85 x 1.060 mm

OPERA CONTROL SYSTEM

- Easy-to-use control panel and menus
- Overheat prevention and protection system without interrupting the work
- Automatic electric power-off
- Maximum efficiency by selection of power and work modes
- Error mode registry and warning system
- Improved fuel economy and productivity
- Automatic idling Selection of multi-language on control panel
- Rear-view, arm-view camera (Optional)
- Possibility to register 27 different operating hours
- Anti-theft system with personal code
- Real time monitoring of operational parameters such as pressure, temperature, engine load

SWING SYSTEM

Swing Motor	: Axial piston type integrated with shock absorber valves
Reduction	: 2 stage planetary gear box.
Swing Brakes	: Hydraulic multi disc type, automatic warnings
Swing Speed	: 12,6 rpm

CAPACITY

Fuel Tank	: 405 L	Engine Oil	: 24 L
Hydraulic Tank	: 152 L	Radiator	: 23 L
Hydraulic System	: 285 L		

ELECTRICAL SYSTEM

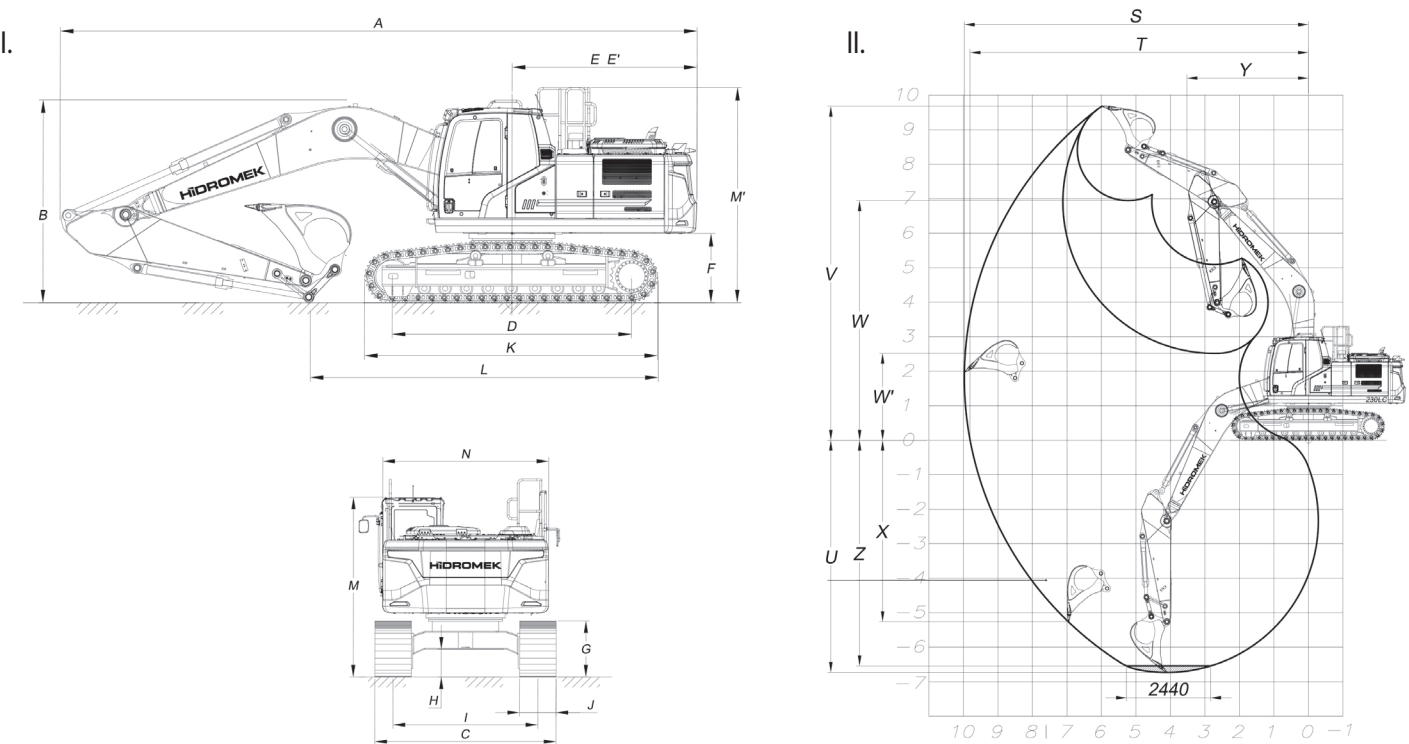
Voltage	: 24 V
Battery	: 2 x 24 V x 100 Ah
Alternator	: 24 V / 50 A
Starting Motor	: 24V / 5,0 kW

OPERATING WEIGHT

Standard machine operating weight	: 23.400 kg
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Operational weight, complying with the ISO 6016 standards, includes full fuel tank, hydraulic system and other liquids, 75kg operator weight and standard equipped machine weight. Optional equipments are not included.

HMK230LC^{H4}



I. GENERAL DIMENSIONS

Boom Dimension	5.70 mm	
Arm Dimension	2.40 mm	*2.92 mm
A - Overall Length	9.680 mm	9.680mm
B - Boom (Shipping) Height	3.120 mm	3.110 mm
C - Lower Frame Width	2.990 mm	
D - Track Base Length	3.640 mm	
E - Counterweight Distance	2.810 mm	
E' - Countweight Turning Radius	2.830 mm	
F - Upper Chasis to Ground Clearance	1.065 mm	
G - Crawler Height	935 mm	
H - Ground Clearance	465 mm	
I - Track Gauge	2.390 mm	
J - Shoe Width	600 mm	
K - Lower Chasis Length (from shoe)	4.460 mm	
L - Shipping Length	5.920 mm	5.320 mm
M - Cab Height	3.010 mm	
N - Upper Frame Width	2.740 mm	

* Standard

II. WORKING DIMENSIONS

Boom Dimension	5.70 mm	
Arm Dimension	2.40 mm	*2.92 mm
S - Maximum Reach Distance	9.560 mm	9.970 mm
T - Maximum Reach at Ground Level	9.390 mm	9.810 mm
U - Maximum Digging Depth	6.210 mm	6.730 mm
V - Maximum Digging Height	9.620 mm	9.680 mm
W - Maximum Unloading Height	6.840 mm	6.950 mm
W' - Maximum Unloading Height	3.040 mm	2.510 mm
X - Minimum Vertical Wall Digging Depth	5.060 mm	5.260 mm
Y - Minimum Swing Radius	3.550 mm	3.520 mm
Z - Maximum Digging Depth (2440 mm level)	6.010 mm	6.550 mm

* Standard

III. DIGGING PERFORMANCE

Standard Bucket Capacity (SAE)	1,10 m ³
Bucket Digging Force (Power Boost) ISO	15.900 kgf
Arm Crowd Force (Power Boost) ISO	11.000 kgf



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FACTORY - HEAD OFFICE

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