



ENGINE

Model	: ISUZU-AI-4HK1X
Type	: Water-cooled, 4 cycle, 4 cylinders, line type direct injection, turbocharger, intercooler, electronic diesel engine
Power	: 162HP / 2000 d/d SAE J1349 (Net) : 172HP / 2000 d/d SAE J1995 (Gross)
Max. Torque	: 653 Nm / 1500 rpm (Net) : 674 Nm / 1500 rpm (Gross)
Displacement	: 5193 cc
Bore and Stroke	: 115 mm x 125 mm
Emission Class	: FAZ III-B (Tier 4 interim)

This new engine complies with the Emission Regulations U.S. EPA Tier 4 interim, and EU Stage III-B

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 standarts 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	: 18,435 kgf
Gradeability	: 35° (%70)
Parking Brake	: Hydraulic multi disc type, integrated transmission
Ground pressure (700mm) 220LC	: 0.42 kgf/cm ²
Ground pressure (500mm) 220NLC	: 0.58 kgf/cm ²

HYDRAULIC SYSTEM

Main Pump	
Type	: Double variable displacement axial piston pumps
Max. Flow	: 2 x 234 lt/dk
Pilot Pump	: Gear, 19 lt/dk
Relief Valves	
Attachment	: 330 kgf/cm ²
Power Boost	: 350 kgf/cm ²
Travel	: 350 kgf/cm ²
Swing	: 240 kgf/cm ²
Pilot	: 40 kgf/cm ²
Cylinders	
Main Boom	: 2 x ø 125 x ø 85 x 1.325 mm
Stick Cylinder	: 1 x ø 140 x ø 100 x 1.640 mm
Bucket Cylinder	: 1 x ø 125 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 |
| • Improved fuel economy and productivity | • Automatic idling Selection of multi-language on control panel |
| • Automatical electric power-off | • Rear-view, arm-view camera (Optional) |
| • Maximum efficiency by selection of power and work modes | • Possibility to register 26 different operating hours |
| • Error mode registry and warning system | • Anti-theft system with personal code |
| • Hidromek Smartlink | • Real time monitoring of operational parameters such as pressure, temperature, engine load |
| • Automatic preheating | |
| • Automatical powerboost (Optional) | |

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	: 10.8 rpm

CAPACITY

Fuel Tank	: 354 lt	Engine Oil	: 20.5 lt
Hydraulic Tank	: 155 lt	Swing Reduction	: 5 lt
Hydraulic System	: 295 lt	Travel Reduction	: 2x5.3 lt
Radiator	: 29.3 lt		

ELECTRICAL SYSTEM

Voltage	: 24 V
Battery	: 2 x 12 V x 100 Ah
Alternator	: 24 V / 50 A
Starting Motor	: 24 V / 5.0 kw

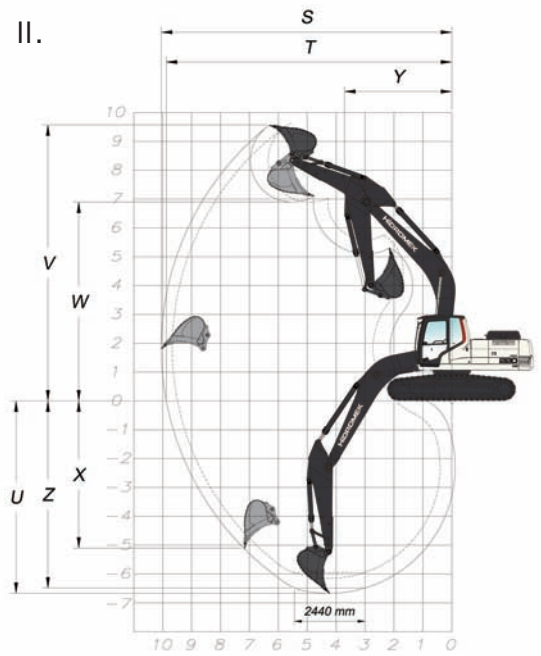
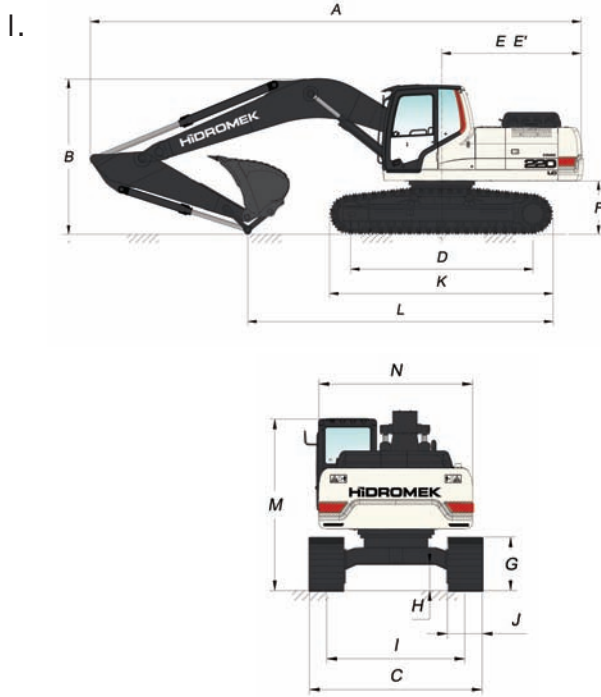
LUBRICATION

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

OPERATING WEIGHT

Standard machine operating weight (LC)	: 22.950 kg
Standard machine operating weight (NLC)	: 22.750 kg

HMK 220 LC



I. GENERAL DIMENSIONS

Boom Dimension	5.800 mm	
Arm Dimension	2.400 mm	* 2.920 mm
A - Overall Length	9.800 mm	9.790 mm
B - Boom (Shipping) Height	3.150 mm	3.090 mm
C - Lower Frame Width (LC)	* 2.990 / 3.090 / 3.190 mm	
C* - Lower Frame Width (NLC)	2.540 mm	
D - Track Base Length	3.640 mm	
E - Counterweight Distance	2.820 mm	
E* - Counterweight Turning Radius	2.840 mm	
F - Upper Chassis to Ground Clearance	1.065 mm	
G - Crawler Height	935 mm	
H - Ground Clearance	465 mm	
I - Track Gauge (LC / NLC)	2.390 mm / 2.040 mm	
J - Shoe Width (LC)	* 600 / 700 / 800 mm	
J - Shoe Width (NLC)	500 mm	
K - Lower Chassis Length (from shoe)	4.460 mm	
L - Shipping Length	5.420 mm	
M - Cab Height	2.985 mm	
N - Upper Frame Width	2.660 mm	

* Standard

II. WORKING DIMENSIONS

Boom Dimension	5.800 mm	
Arm Dimension	2.400 mm	* 2.920 mm
S - Maximum Reach Distance	9.640 mm	10.050 mm
T - Maximum Reach at Ground Level	9.460 mm	9.880 mm
U - Maximum Digging Depth	6.150 mm	6.670 mm
V - Maximum Digging Height	9.530 mm	9.550 mm
W - Maximum Unloading Height	6.810 mm	6.890 mm
X - Maximum Vertical Wall Digging Depth	5.070 mm	5.250 mm
Y - Minimum Swing Radius	3.790 mm	3.750 mm
Z - Maximum Digging Depth (2440 mm level)	5.950 mm	6.490 mm

* Standard

III. DIGGING PERFORMANCE

Standard Bucket Capacity	1.0 m ³ (SAE)
Bucket Digging Force (Power Boost) ISO	15.800 (16.700) kgf
Arm Crowd Force (Power Boost) ISO	11.600 (12.300) kgf



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HİDROMEK®

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Notice:

Hidromek has the right to modify the specifications and design of the model indicated on this brochure without prior notice.