



**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
Max. Torque	: 656 Nm / 1500 rpm
Displacement	: 5193 cc
Bore and Stroke	: 115 mm x 125 mm
Emission Class	: FAZ III-A (Tier III) *
This new engine complies with the Emission Regulations U.S. EPA Tier III, and 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 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	: 3 stage planetary gear
<b>Travel Speed</b>	
High Speed	: 6 km/h
Low Speed	: 3.8 km/h
Max. Drawbar Pull	: 18.500 kgf
Gradeability	: 35° (%70)
Parking Brake	: Hydraulic multi disc type, integrated transmission

**HYDRAULIC SYSTEM**

<b>Main Pump</b>	
Type	: Double variable displacement axial piston pumps
Max. Flow	: 2 x 234 lt/dk
Pilot Pump	: Gear, 1,9 lt/dk
<b>Relief Valves</b>	
Attachment	: 330 kgf/cm <sup>2</sup>
Power Boost	: 360 kgf/cm <sup>2</sup>
Travel	: 360 kgf/cm <sup>2</sup>
Swing	: 240 kgf/cm <sup>2</sup>
Pilot	: 40 kgf/cm <sup>2</sup>
<b>Cylinders</b>	
Main Boom	: 2 x 125 x 85 x 1.325 mm
Stick Cylinder	: 1 x 140 x 100 x 1.640 mm
Bucket Cylinder	: 1 x 125 x 85 x 1.060 mm

**Opera Control System**

- Easy-to-use control panel and menus
- Improved fuel economy and productivity
- Automatical electric power-off
- Maximum efficiency by selection of power and work modes
- Error mode registry and warning system
- Hidromek Smartlink
- Automatic preheating
- Automatical powerboost (Optional)
- Overheat prevention and protection system without interrupting the work
- Automatic idling Selection of multi-language on control panel
- Rear-view, arm-view camera (Optional)
- Possibility to register 26 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	: 11 rpm

**CAPACITY**

Fuel Tank	: 354 lt Engine Oil	: 20.5 lt
Hydraulic Tank	: 160 lt Swing Reduction	: 5 lt
Hydraulic System	: 290 lt Travel Reduction	: 2x5.4 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

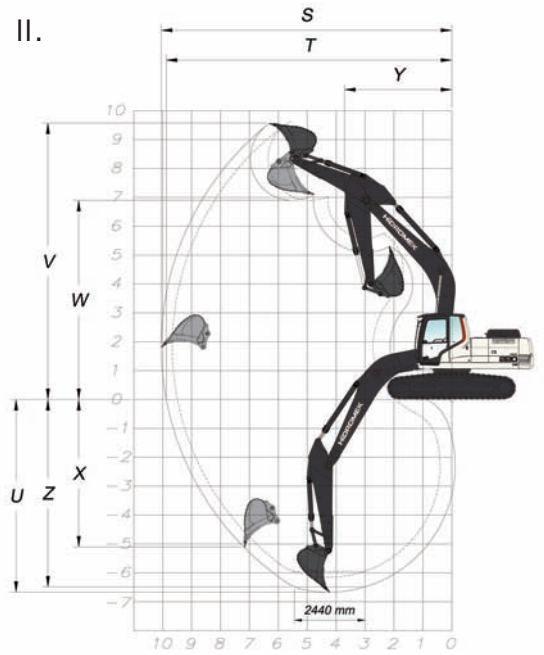
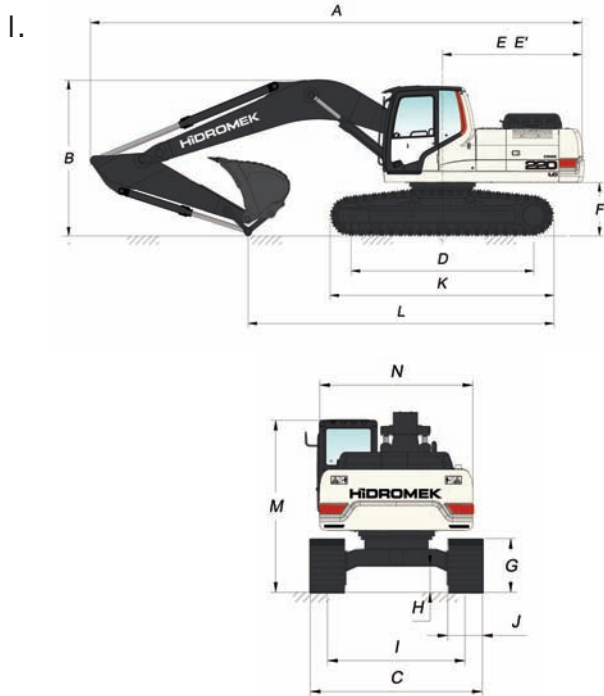
**LUBRICATION**

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	: 22.600 kg
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# 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	2.800 mm
F - Upper Chassis to Ground Clearance	1.060 mm
G - Crawler Height	940 mm
H - Ground Clearance	470 mm
I - Track Gauge (NLC/LC)	2.040 mm / 2.390 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 (NLC/LC)	2.500 mm / 2.660 mm

\* Standard

## II. WORKING DIMENSIONS

Boom Dimension	5.800 mm
Arm Dimension	2.400 mm * 2.920 mm
S - Maximum Reach Distance	9.670 mm / 10.050 mm
T - Maximum Reach at Ground Level	9.490 mm / 9.880 mm
U - Maximum Digging Depth	6.150 mm / 6.670 mm
V - Maximum Digging Height	9.630 mm / 9.560 mm
W - Maximum Unloading Height	6.890 mm / 6.890 mm
X - Maximum Vertical Wall Digging Depth	5.030 mm / 5.270 mm
Y - Minimum Swing Radius	3.790 mm / 3.720 mm
Z - Maximum Digging Depth (2440 mm level)	5.950 mm / 6.490 mm

\* Standard

## III. DIGGING PERFORMANCE

Standard Bucket Capacity	1.0 m <sup>3</sup> (SAE)
Bucket Digging Force (Power Boost) ISO	15.800 (17.200) kgf
Arm Crowd Force (Power Boost) ISO	11.600 (12.600) kgf



## HİDROMEK®

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**Notice:**  
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