HMK 220LC EKSKAVATÖR

HİDROMEK®

ENGINE

Model	: ISUZU-AI-4HK1X
Type	: Water-cooled, 4 cycle, 4 cylinders, line type direct injection, turbocharger, intercooler, electronic diesel engine.
Power	: 162 HP/ 2000 rpm SAE J1995
Max. Torque	: 656 Nm/1500 rpm
Displacement	: 5.193 cc
Bore and Stroke	: 115 mm x 125 mm

This new engine complies with the Emission Regulations U.S. EPA Tier III, and EU Stage IIIA.

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

- Improved operator's all round visibility
- Increased cabin internal space
- Use of six viscomount cabin mountings that dampen the vibrations
- High capacity A/C
- Cooled storage room
- Glass holder, book and object storage pockets
- 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
- Opera Control System

SWING SYSTEM

Swing Motor	: Axial piston type integrated with shock absorber valves.
Reduction	: 2 stage planetary gear box.
Swing Brakes	: Hydraulic multi disc type.
Swing Speed	: 11 rpm.

TRAVEL AND BRAKES

Travel	: Fully hydrostatic.
Travel Motors	: Axial piston type.
Reduction	: 3 stage planetry gear.
Travel Speed	
High Speed	: 6.0 km/h
Low Speed	: 3.8 km/h
Max. Drawbar Pull	: 18.500 kgf
Gradeability	: 35° (%70)
Parking Brake	: Hydraulic multi disc type.

HYDRAULIC SYSTEM

Main Pump	
Type	: Double variable displacement axial piston pumps.
Max. Flow	: 2 x 234 lt/min
Pilot Pump	: Gear, 19 lt/min
Relief Valves	
Attachment	: 330 kgf/cm^2
Power Boost	: 360 kgf/cm^2
Travel	: 360 kgf/cm^2
Swing	: 240 kgf/cm^2
Pilot	: 40 kgf/cm^2
Cylinders	
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
- Maximum efficiency by selection of power and work modes
- Overheat prevention and protection system without interrupting the work
- Automatical powerboost switch-on and switch-off
- Automatical electric power-off
- Maintenance information and warning system
- Error mode registry and warning system
- Hidromek Smartlink (Optional)
- Automatic preheating
- Auto-Idle and automatic deceleration system
- Automatic powershift to improve performance
- Selection of multi - language on control panel
- Real time monitoring of operational parameters such as pressure, temperature, engine load
- Anti-theft system with personal code
- Possibility to register 26 different operating hours
- Rear-view, arm-view camera (Optional)

CAPACITY

Fuel Tank	:	354 lt	Engine Oil	:	20.5 lt
Hydraulic Tank	:	160 lt	Swing Reduction	:	5 lt
Hydraulic System	:	290 lt	Travel Reduction	:	2 x 5.4 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	: 5 kw

LUBRICATION

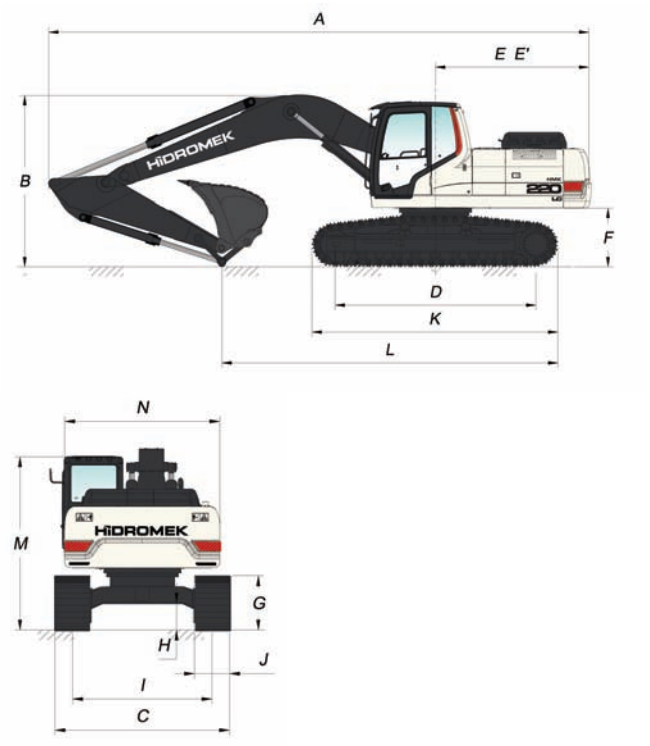
Centralized lubrication system is provided for lubricating all difficult-to-reach parts on the components, such as boom and arm.

OPERATING WEIGHT

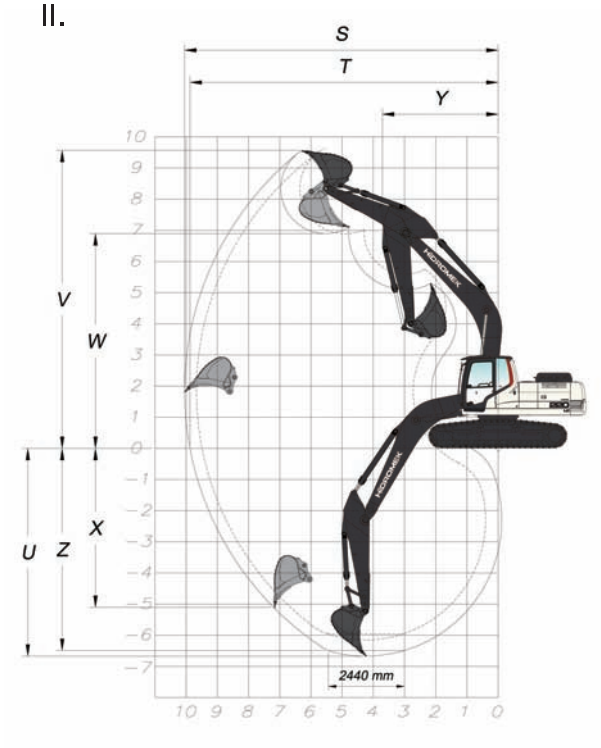
Standard machine operating weight (220LC)	: 22.600 kg
Standard machine operating weight (220NLC)	: 22.200 kg

HMK 220LC

I.



II.



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 . Overall height (to top of boom)	3.150 mm	3.090 mm
C . Overall width (LC)	*2990/3090/3190 mm	
C . Overall width (NLC)	2.540 mm	
D . Idler distance	3.640 mm	
E . Tail swing radius	2.780 mm	
F . Upperstructure ground clearence	1.060 mm	
G . Crawler height	935 mm	
H . Min. ground clearence	465 mm	
I . Track gauge (NLC/LC)	2.040 / 2.390 mm	
J . Shoe width (LC)	*600/700/800 mm	
J . Shoe width (NLC)	*500/600/700 mm	
K . Overall length of crawler	4.460 mm	
L . Length over ground	5.420 mm	
M . Overall height (to top of cab)	2.985 mm	
N . Upperstructure width (NLC/LC)	2.500 / 2.660 mm	

* Standart

II. WORKING DIMENSIONS

Boom Dimension	5,800 mm	
Arm Dimension	2.400 mm	*2.920 mm
S . Max. digging reach	9.670 mm	10.050 mm
T . Max. digging reach at ground level	9.490 mm	9.880 mm
U . Max. digging depth	6.150 mm	6.670 mm
V . Max. digging height	9.620 mm	9.560 mm
W . Max. dumping height	6.890 mm	6.890 mm
X . Max. vertical digging depth	5.200 mm	5.270 mm
Y . Min. swing radius	3.810 mm	3.720 mm
Z . Max. digging depth (2440mm level)	5.950 mm	6.490 mm

* Standart

III. DIGGING PERFORMANCE

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

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HİDROMEK®

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