



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 J1349 (Net) : 172 HP/ 2000 rpm SAE J1995 (Gross)
Max. Torque	: 656 Nm/1500 rpm (Net) : 677 Nm/1500 rpm (Gross)
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 planetary 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 890 mm
Stick Cylinder	: 2 x 125 x 85 x 940 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
- Automatic powerboost switch-on and switch-off
- Automatic 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

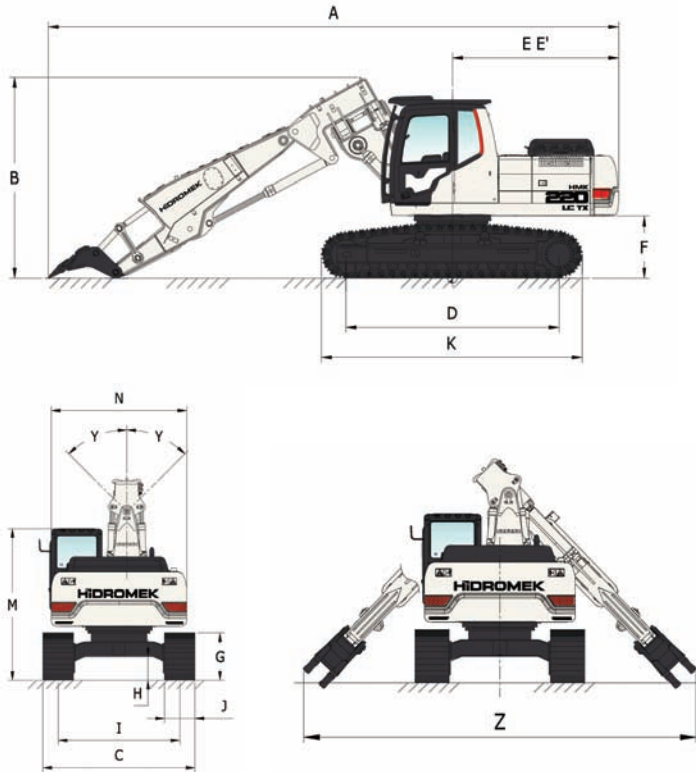
Centralized lubrication system is provided for lubricating all difficult-to-reach parts on the components, such as boom and arm.

OPERATING WEIGHT

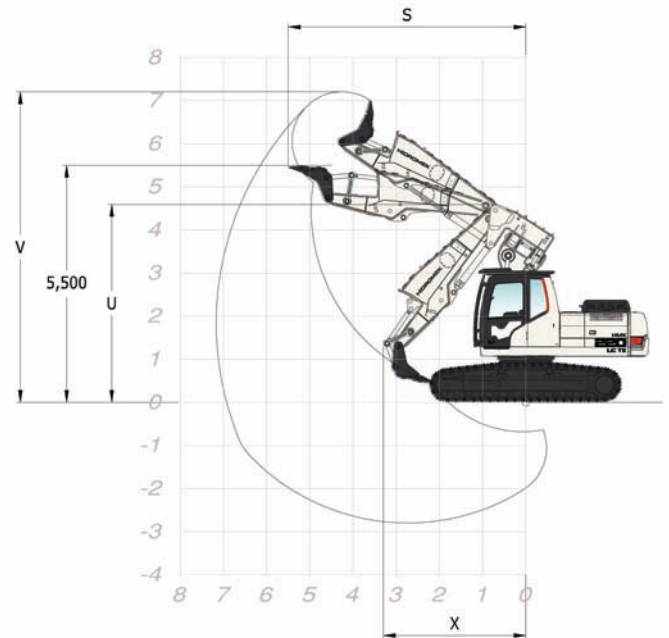
Standard machine operating weight	: 23.850 kg
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HMK 220 LCTX

I.



II.



I. GENERAL DIMENSIONS

Boom Dimension	2.700 mm
Arm Dimension	3.890 mm
A . Overall length	9.750 mm
B . Overall height (to top of boom)	3.430 mm
C . Overall width	2.990 mm
D . Idler distance	3.640 mm
E . Tail swing radius	2.820 mm
F . Upperstructure ground clearance	2.800 mm
G . Crawler height	1.060 mm
H . Min. ground clearance	940 mm
I . Track gauge	470 mm
J . Shoe width	2.390 mm
K . Overall length of crawler	600 mm
L . Length over ground	4.460 mm
M . Overall height (to top of cab)	2.985 mm
N . Upperstructure width	2.660 mm

II. WORKING DIMENSIONS

Boom Dimension	2.700 mm
Arm Dimension	3.890 mm
S - Vertical reach at 5.5m	5.500 mm
U - Maximum Digging Height	4.600 mm
V - Max. digging height	7.200 mm
Y - Boom swing angle	45°
Z - Maximum working width	6.900 mm
X - Attachment swing Radius	3.350 mm

III. DIGGING PERFORMANCE

Ripper Breakout force	11.370 kgf
Ripper Breakout force (powerboost)	12.400 kgf

HIDROMEK®

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Notice:

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