



ENGINE

| | |
|-----------------|---|
| Model | : ISUZU-AI-4HK1X |
| Type | : Water-cooled, 4 cycle, 4 cylinders, line type direct injection, turbocharger, intercooler, electronic diesel engine |
| Power | : 172 HP @2000 rpm / SAE J1995 (Gross) : 162 HP @2000 rpm / SAE J1349 (Net) |
| Max. Torque | : 677 Nm @1500 rpm (Gross) : 656 Nm @1500 rpm (Net) |
| Displacement | : 5193 cc |
| Bore and Stroke | : 115 mm x 125 mm |
| Emission Class | : FAZZ III-A (tier III)* (UNECE R96) |

*This engine complies with the Emission Regulations U.S. EPA Tier III, 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 flor 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 | : 18,375 kqf |
| Gradeability | : 35° (%70) |
| Parking Brake | : Hydraulic multi disc type, integrated transmission |
| Ground Pressure (600mm Shoe) | : 0,50 kqf/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 233 L/min |
| Pilot Pump | : Gear, 19 L/min |
| Relief Valves | |
| Attachment | : 330 kqf/cm ² |
| Power Boost | : 350 kqf/cm ² |
| Travel | : 350 kqf/cm ² |
| Swing | : 240 kqf/cm ² |
| Pilot | : 40 kqf/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

- | | |
|---|---|
| <ul style="list-style-type: none"> • Easy-to-use control panel and menus • Overheat prevention and protection system without interrupting the work • Automatical electric power-off • Maximum efficiency by selection of power and work modes • Error mode registry and warning system | <ul style="list-style-type: none"> • Improved fuel economy and productivity • 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 |
| <ul style="list-style-type: none"> • Hidromek Smartlink • 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 L | Engine Oil | : 20,5 L |
| Hydraulic Tank | : 258 L | Swing Reduction | : 5 L |
| Hydraulic System | : 295 L | Travel Reduction | : 2 x 5,3 L |
| Radiator | : 29,3 L | | |

ELECTRICAL SYSTEM

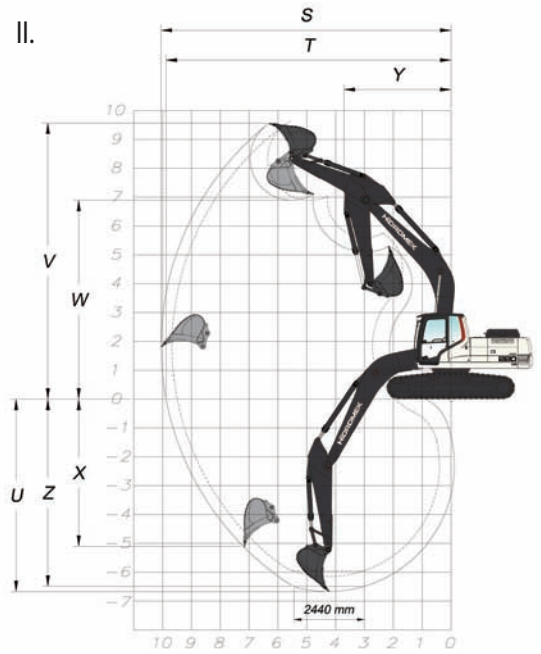
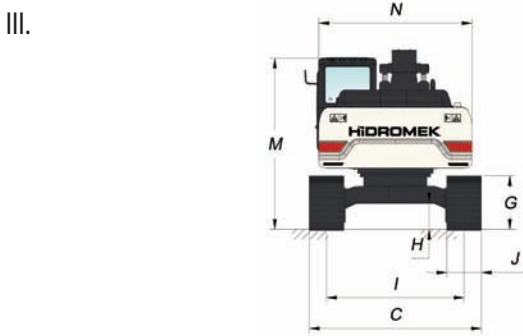
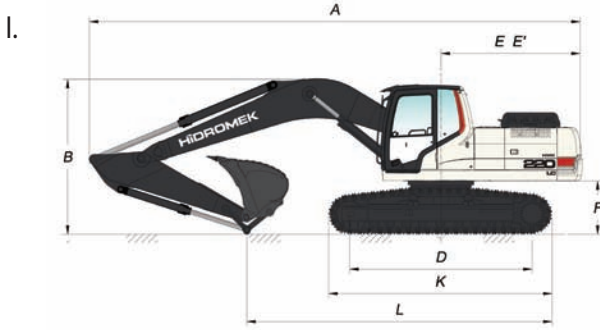
| | |
|----------------|---------------------|
| Voltage | : 24 V |
| Battery | : 2 x 12 V x 100 Ah |
| Alternator | : 24 V / 50 A |
| Starting Motor | : 24V / 5,0 kW |

OPERATING WEIGHT

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|-----------------------------------|-------------|
| Standard machine operating weight | : 23.350 kg |
|-----------------------------------|-------------|

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.

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' - Countweight Turning Radius | 2.840 mm | |
| F - Upper Chasis 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 Chasis 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

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|--|---------------------|
| Standard Bucket Capacity (SAE) | 1,0 m ³ |
| Bucket Digging Force (Power Boost) ISO | 15.800 (16.700) kgf |
| Arm Crowd Force (Power Boost) ISO | 11.600 (12.300) kgf |



HIDROMEK®

FACTORY - HEAD OFFICE

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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.