



ENGINE

| | |
|-----------------|---|
| Model | : ISUZU AM-4JJ1X 97/68 EC |
| Type | : Water cooled, 4 cycle, 4 cylinders, line type direct injection, turbocharger, intercooler, electronic diesel engine |
| Power | : 103 HP @2000 rpm / SAE J1995 (Gross) : 100 HP @2000 rpm / SAE J1349 (Net) |
| Max. Torque | : 385 Nm @1600 rpm (Gross) : 378 Nm @1600 rpm (Net) |
| Displacement | : 2999 cc |
| Bore and Stroke | : 95,4 mm x 104,9 mm |

* This 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 46 |
| No. Of Lower Rollers | : 2 x 7 |
| 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 | : 5,7 km/h |
| Low Speed | : 3,4 km/h |
| Max. Drawbar Pull | : 11.390 kgf |
| Gradeability | : 35° (%70) |
| Parking Brake | : Hydraulic multi disc type |
| Ground Pressure (500mm Shoe) | : 0,44 kgf/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 130 L/min |
| Pilot Pump | : Gear, 20 L/min (10 cc/rev) |
| Relief Valves | |
| Attachment | : 320 kgf/cm ² |
| Power Boost | : 350 kgf/cm ² |
| Travel | : 350 kgf/cm ² |
| Swing | : 260 kgf/cm ² |
| Pilot | : 40 kgf/cm ² |
| Cylinders | |
| Main Boom | : 2 x ø 110 x ø 75 x 1.080 mm |
| Stick Cylinder | : 1 x ø 115 x ø 80 x 1.225 mm |
| Bucket Cylinder | : 1 x ø 100 x ø 70 x 910 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 • 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 | : 11,2 rpm |

CAPACITY

| | | | |
|------------------|---------|------------------|-----------|
| Fuel Tank | : 270 L | Engine Oil | : 16 L |
| Hydraulic Tank | : 116 L | Swing Reduction | : 3 L |
| Hydraulic System | : 210 L | Travel Reduction | : 2x2,1 L |
| Radiator | : 21 L | | |

ELECTRICAL SYSTEM

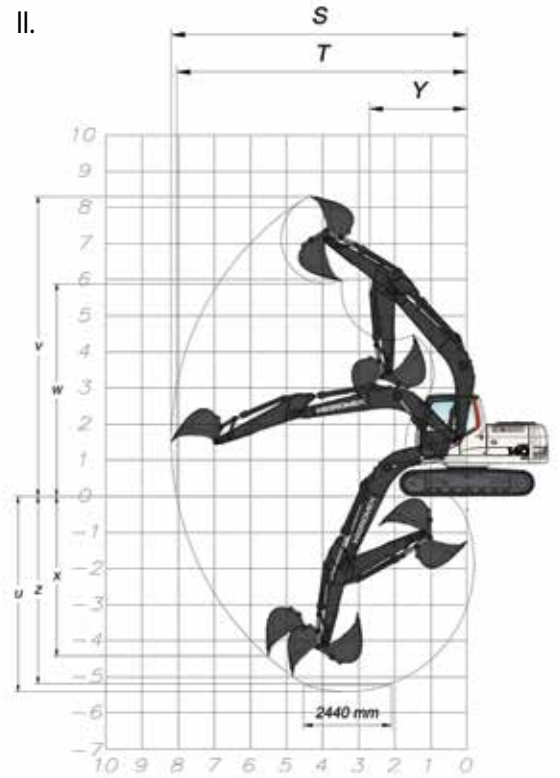
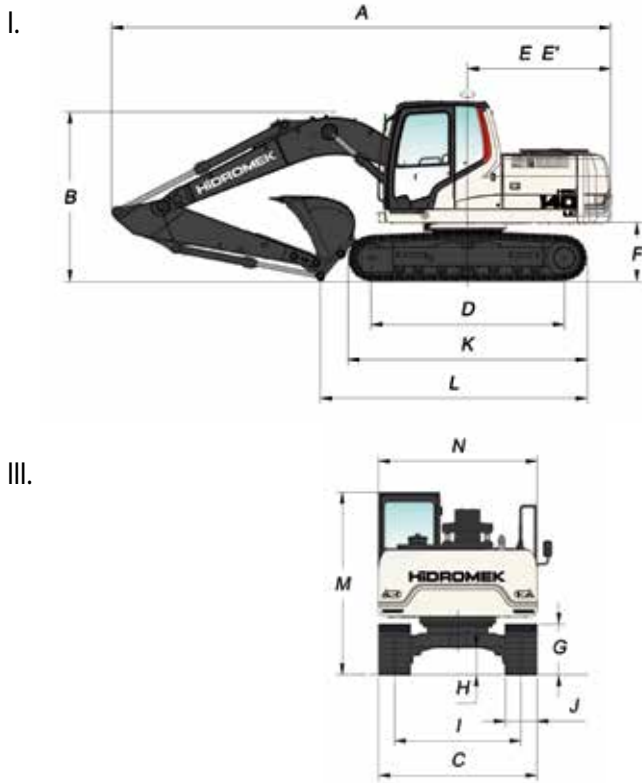
| | |
|----------------|--------------------|
| Voltage | : 24V |
| Battery | : 2 x 12V x 100 Ah |
| Alternator | : 24V / 50 A |
| Starting Motor | : 24V / 4 kW |

OPERATING WEIGHT

| | |
|--|-------------|
| Standard machine operating weight (500mm Shoe) | : 14.650 kg |
| Operating weight (With dozer blade) (500mm Shoe) | : 15.650 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.

HMK140 LC



I. GENERALE DIMENSIONS

| Boom dimension | 4.600 mm | | | |
|--|---------------------------|-----------|----------|----------|
| Arm dimension | 2.000 mm | *2.300 mm | 2.600 mm | 2.900 mm |
| A - Overall length | 7.870 mm | 7.890 mm | 7.880 mm | 7.870 mm |
| B - Overall height(to top of boom) | 2.730 mm | 2.830 mm | 2.950 mm | 3.030 mm |
| C - Overall width (of lower structure) | *2.490 / 2.590 / 2.690 mm | | | |
| D - Idler distance | 3.035 mm | | | |
| E - Tall swing radius | 2.250 mm | | | |
| E' - Tall swing distance | 2.270 mm | | | |
| F - Upperstructure ground clearance | 940 mm | | | |
| G - Crawler height | 830 mm | | | |
| H - Min. Ground clearance | 430 mm | | | |
| I - Track gauge | 1.990 mm | | | |
| J - Shoe width | *500 / 600 / 700 mm | | | |
| K - Overall length of crawler | 3.780 mm | | | |
| L - Length over ground | 4.840 mm | 4.650 mm | 4.500 mm | 4.260 mm |
| M - Overall height(to top of cab) | 2.880 mm | | | |
| N - Upperstructure width | 2.500 mm | | | |

II. WORKING DIMENSIONS

| | | | | |
|---------------------------------------|----------|----------|----------|----------|
| S - Max.digging reach | 8.000 mm | 8.290 mm | 8.590 mm | 8.870 mm |
| T - Max.digging reach at ground level | 7.850 mm | 8.140 mm | 8.440 mm | 8.730 mm |
| U - Max.digging depth | 5.130 mm | 5.430 mm | 5.730 mm | 6.030 mm |
| V - Max.digging height | 8.300 mm | 8.500 mm | 8.750 mm | 8.930 mm |
| W - Max.dumping height | 5.670 mm | 5.850 mm | 6.080 mm | 6.270 mm |
| W' - Min.dumping height | 2.450 mm | 2.150 mm | 1.860 mm | 1.550 mm |
| X - Max.vertical digging depth | 4.710 mm | 5.010 mm | 5.310 mm | 5.610 mm |
| Y - Min. swing radius | 2.630 mm | 2.620 mm | 2.670 mm | 2.690 mm |
| Z - Max. digging depth(2440mm level) | 4.890 mm | 5.210 mm | 5.530 mm | 5.850 mm |

III. DIGGING PERFORMANCE

| | | | | |
|---------------------------------------|---------------------------|--------------------------|--------------------------|---------------------------|
| Standard Bucket Capacity | 0,75 m ³ (SAE) | 0,6 m ³ (SAE) | 0,6 m ³ (SAE) | 0,52 m ³ (SAE) |
| Bucket Digging Force(Power Boost) ISO | 9.700 (8.600) kgf | 9.100 (10.000) kgf | 9.100 (10.000) kgf | 9.100 (10.000) kgf |
| Arm Crowd Force(Power Boost) ISO | 7.500 (8.200) kgf | 6.800 (7.500) kgf | 6.200 (6.800) kgf | 5.700 (6.300) kgf |

* Standard

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Notice:
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