



## ENGINE

Model	: ISUZU AJ-4JJ 1X 97/68 EC
Type	: Water cooled, 4 cycle, 4 cylinders, line type direct injection, turbocharger, intercooler, electronic diesel engine
Power	: 95 HP / 2000 rpm / SAE J1349
Max. Torque	: 378 Nm / 1600 rpm
Displacement	: 2999 cc
Bore and Stroke	: 95.4 mm x 104.9 mm
Emission Class	: FAZZ III-A (tier III) *

\* 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 500, 600, 700 mm
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
<b>Travel Speed</b>	
High Speed	: 5.1 km/h
Low Speed	: 3.3 km/h
Max. Drawbar Pull	: 11.700 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 130 lt/dk
Pilot Pump	: Gear, 20 lt/dk
<b>Relief Valves</b>	
Attachment	: 330 kgf/cm <sup>2</sup>
Power Boost	: 350 kgf/cm <sup>2</sup>
Travel	: 350 kgf/cm <sup>2</sup>
Swing	: 260 kgf/cm <sup>2</sup>
Pilot	: 40 kgf/cm <sup>2</sup>
<b>Cylinders</b>	
Main Boom	: 2 x 110 x 75 x 1.080 mm
Stick Cylinder	: 1 x 115 x 80 x 1.225 mm
Bucket Cylinder	: 1 x 100 x 70 x 910 mm

## Opera Control System

• Easy-to-use control panel and menus	• Overheat prevention and protection system without interrupting the work
• Improved fuel economy and productivity	• Automatic idling Selection of multi-language on control panel
• Automatical electric power-off	• Rear-view, arm-view camera (Optional)
• Maximum efficiency by selection of power and work modes	• Possibility to register 26 different operating hours
• Error mode registry and warning system	• Anti-theft system with personal code
• Hidromek Smartlink	• Real time monitoring of operational parameters such as pressure, temperature, engine load
• 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	: 13 rpm

## CAPACITY

Fuel Tank	: 270 lt	Engine Oil	: 15 lt
Hydraulic Tank	: 120 lt	Swing Reduction	: 2.4 lt
Hydraulic System	: 216 lt	Travel Reduction	: 2x2 lt
Radiator	: 21 lt		

## ELECTRICAL SYSTEM

Voltage	: 24 V
Battery	: 2 x 12 V x 100 Ah
Alternator	: 24 V / 50 A
Starting Motor	: 24V / 5.0 kW

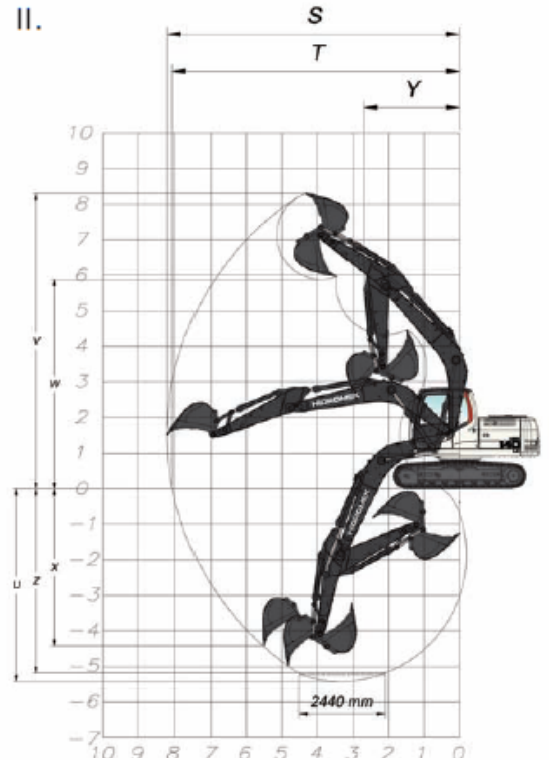
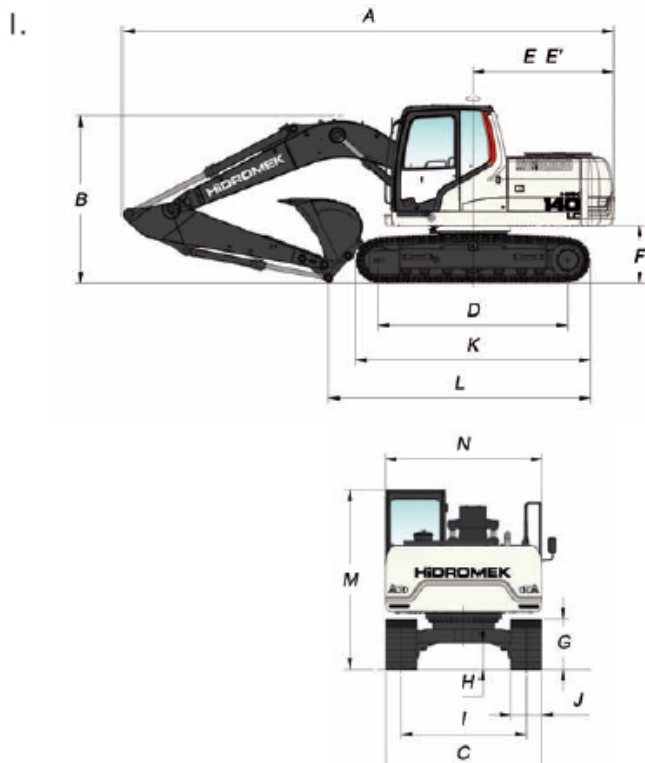
## LUBRICATION

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

## OPERATING WEIGHT

Standart machine operation weighth	: 14.500 kg
Operating Weigth with dozer blade	: 15.450 kg

# HMK 140LC



## 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	7.880 mm	7.890 mm	7.880 mm	7.850 mm
B	Overall height(to top of boom)	2.710 mm	2.820 mm	2.980 mm	3.100 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	2.340 mm			
F	Upperstructure ground clearance	940 mm			
G	Crawler height	800 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	3.775 mm			
L	Length over ground	4.470 mm			
M	Overall height(to top of cab)	2.880 mm			
N	Upperstructure width	2.500 mm			

## II. WORKING DIMENSIONS

S	Max.digging reach	7.910 mm	8.190 mm	8.490 mm	8.780 mm
T	Max.digging reach at ground level	7.750 mm	8.040 mm	8.350 mm	8.640 mm
U	Max.digging depth	5.090 mm	5.390 mm	5.690 mm	5.990 mm
V	Max.digging height	8.120 mm	8.320 mm	8.560 mm	8.740 mm
W	Max.dumping height	5.720 mm	5.900 mm	6.130 mm	6.310 mm
X	Max.vertical digging depth	3.990 mm	4.370 mm	4.790 mm	5.060 mm
Y	Min.swing radius	2.740 mm	2.730 mm	2.770 mm	2.800 mm
Z	Max.digging depth(2440mm level)	4.840 mm	5.160 mm	5.480 mm	5.800 mm

## III. DIGGING PERFORMANCE

Standard Bucket Capacity	0.75 m <sup>3</sup> (SAE)	0.6 m <sup>3</sup> (SAE)	0.6 m <sup>3</sup> (SAE)	0.52 m <sup>3</sup> (SAE)
Bucket Digging Force(Power Boost) ISO	9.700 (10.600) kgf	9.700 (10.600) kgf	9.700 (10.600) kgf	9.700 (10.600) kgf
Arm Crowd Force(Power Boost) ISO	7.600 (8.400) kgf	7.000 (7.600) kgf	6.400 (7.000) kgf	5.800 (6.400) kgf

\* Standard



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