



ENGINE

Model	: ISUZU AI-4JJ1X 97/68 EC
Type	: Water cooled, A cycle, A cylinders, line type direct injection, turbocharger, intercooler, electronic diesel engine
Power	: 117 HP / 2200 rpm / SAE J1349 (Net) : 127 HP / 2200 rpm / SAE J1995 (Gross)
Max. Torque	: 393 Nm / 1800 rpm (Net) : 420 Nm / 1800 rpm (Gross)
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	

LOWER STRUCTURE (CHASSIS)

Chassis	: Box shaped, reinforced lower chassis, front dozer blade and rear outriggers (stabilizers) as standard figures.
Axles	: The pivot pin mounted front axle allows two options: 8° in each direction for best matching conditions, or could be locked at any desired position for perfect stability.
Tires	: 9.00-20 (14PR) : 18R 19.5 XF (Optional) : 10.00 - 20 16 TT PR (Optional)

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
- Opera Control System
- 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

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	: 13 rpm

TRAVEL AND BRAKES

Travel	: Fully hydrostatic.
Travel Motors	: Axial piston type.
Reduction	: 2 stage planetary gear.
Travel Speed	
High Speed	: 32 km/h
Low Speed	: 8 km/h
Max. Drawbar Pull	: 7.900 kgf
Gradeability	: 29° (%56)
Service Brake	: Independent front/rear style (double circuit) hydraulic power brake system. Pressure engaged/spring released type. Located "on hub" for ideal stability and safety.

HYDRAULIC SYSTEM

Main Pump	
Type	: Double variable displacement axial piston pumps.
Max. Flow	: 2 x 160 lt/min
Pilot Pump	: Gear, 22 lt/min
Relief Valves	
Attachment (Boom, Arm, Bucket)	: 330 kgf/cm ²
Power Boost	: 360 kgf/cm ²
Travel	: 360 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

- | | |
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| <ul style="list-style-type: none"> • Easy-to-use control panel and menus • Improved fuel economy and productivity • Automatical electric power-off • Selection of multi-language on control panel • Maximum efficiency by selection of power and work modes • Automatic preheating • Anti-theft system with personal code • Hidromek Smartlink (Optional) • Cruise control travel speed • Auto-idle and automatic deceleration system | <ul style="list-style-type: none"> • Overheat prevention and protection system without interrupting the work • Automatical powerboost switch-on and switch-off • Maintenance information and warning system • Rear-view, arm-view camera (Optional) • Possibility to register 26 different operating hours • Error mode registry and warning system • Real time monitoring of operational parameters such as pressure, temperature, engine load |
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STEERING SYSTEM

The "orbital" type steering system controls a steering cylinder located on the front axle. Minimum turning radius is 6,800 mm.

CAPACITY

Fuel Tank	: 270 lt	Transmission	: 2.5 lt
Hydraulic Tank	: 115 lt	Engine Oil	: 16 lt
Hydraulic System	: 235 lt	Radiator	: 21 lt
Swing Reduction	: 2.4 lt	Front/Rear axles	: 14.5/17.4 lt

ELECTRICAL SYSTEM

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

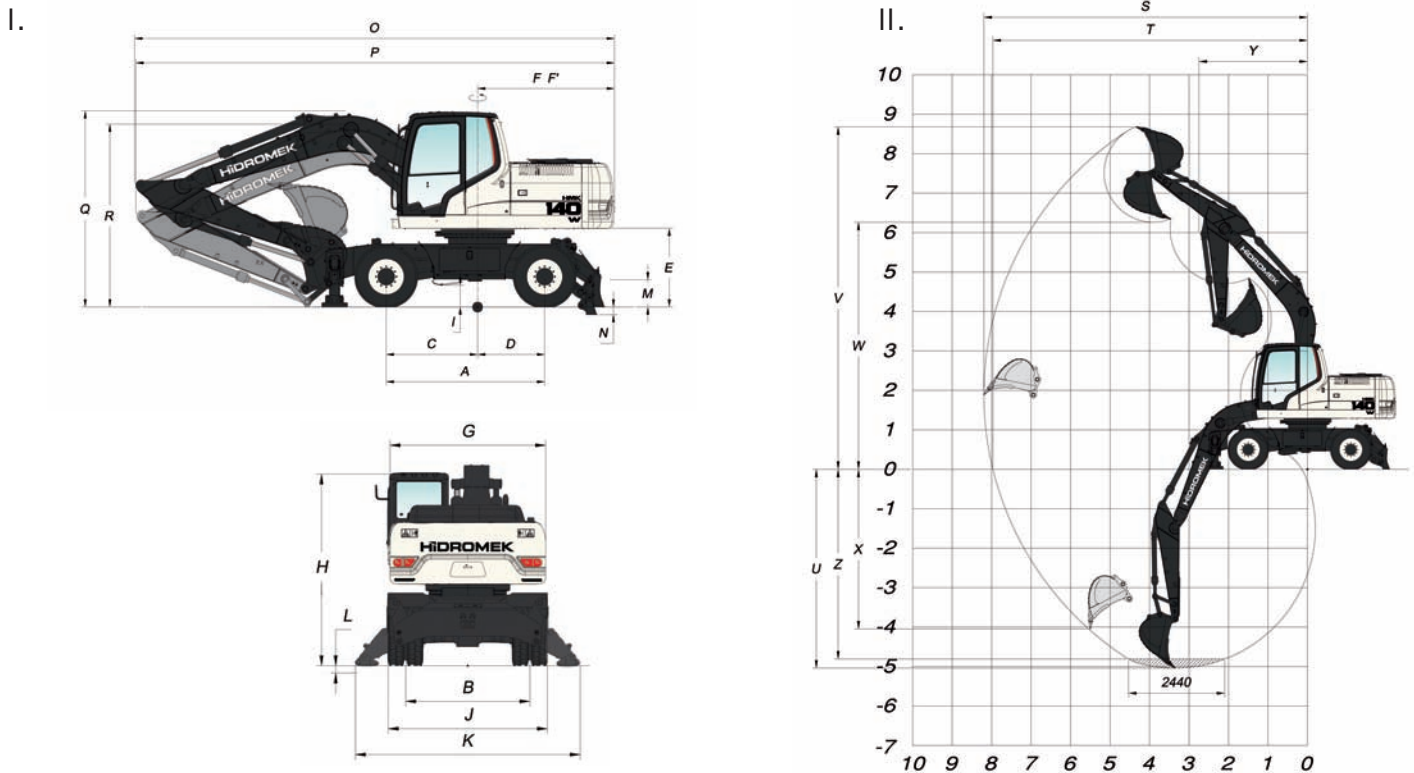
LUBRICATION

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

WEIGHT

Standard machine operating weight	: 15.850 kg
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HMK 140W



I. GENERAL DIMENSIONS

Boom Dimension	4.600 mm			
Arm Dimension	2.000 mm	* 2.300 mm	2.600 mm	2.900 mm
A Axle Distance	2.600 mm			
B Thread	1.944 mm			
C Rotation Axis – Front Axle Distance	1.500 mm			
D Rotation Axis – Rear Axle Distance	1.100 mm			
E Upper Chassis to Ground Clearance	1.295 mm			
F Counterweight Distance	2.250 mm			
F' Countweight Turning Radius	2.340 mm			
G Upper Frame Width	2.500 mm			
H Cab Height	3.280 mm			
I Outrigger Ground Clearance	360 mm			
J Width at Tires (9.0-20/18R19.5/10.0-20)	* 2.494 / 2.491 / 2.555 mm			
K Outrigger Width (Overall)	2.500 mm			
L Outrigger Digging Depth	125 mm			
M Dozer Blade Ground Clearance	450 mm			
N Dozer Blade Digging Depth	120 mm			
O Overall Length / Travel	7.880 mm	7.860 mm	7.760 mm	7.630 mm
P Overall Length/ Transport	8.070 mm	8.120 mm	8.170 mm	8.100 mm
Q Boom Height / Travel	3.110 mm	3.420 mm	3.720 mm	3.920 mm
R Boom Height / Transport	2.800 mm	2.900 mm	3.200 mm	3.500 mm

II. WORKING DIMENSIONS

S Maximum Digging Reach	7.910 mm	8.190 mm	8.490 mm	8.780 mm
T Maximum Digging Reach at Ground Level	7.670 mm	7.960 mm	8.270 mm	8.570 mm
U Maximum Digging Depth	4.740 mm	5.040 mm	5.340 mm	5.640 mm
V Maximum Digging Height	8.470 mm	8.660 mm	8.910 mm	9.090 mm
W Maximum Dumping Clearance	6.060 mm	6.250 mm	6.480 mm	6.660 mm
X Maximum Vertical Didding Depth	3.640 mm	4.020 mm	4.440 mm	4.720 mm
Y Minimum Swing Radius	2.740 mm	2.730 mm	2.770 mm	2.800 mm
Z Maximum Digging Depth (2440 mm level)	4.490 mm	4.810 mm	5.140 mm	5.450 mm

III. DIGGING PERFORMANCE

Standard Bucket Capacity	0.60 m ³ (SAE)	0.60 m ³ (SAE)	0.52 m ³ (SAE)	0.52 m ³ (SAE)
Bucket Digging Force [Power Boost] ISO	10.000 (10.900) kgf	10.000 (10.900) kgf	10.000 (10.900) kgf	10.000 (10.900) kgf
Arm Crowd Force [Power Boost] ISO	7.900 (8.600) kgf	7.200 (7.800) kgf	6.600 (7.200) kgf	6.000 (6.600) kgf

* Standard

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Notice:
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