HYDRAULIC EXCAVATOR

HMK 140 W H4

HIDROMEK®

ENGINE

Model	: ISUZU AI-4JJ1X
Type	: Water cooled, 4 cycle, 4 cylinders, line type direct injection, turbocharger, intercooler, electronic diesel engine
Power	: 98 HP (73 kW) @2000 rpm / SAE J1995 (Gross)
	: 95 HP (70,9 kW)@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 III, and EU Stage III-A

LOWER STRUCTURE (CHASSIS)

Chasis	: 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 esch direction for best matching conditions, or could be locked at any desired position for perfect stability.
Tires	: 9,00-20TT (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

TRAVEL AND BRAKERS

Travel	: Fully hydrostatic
Travel Motors	: Axial piston type
Reduction	: 2 stage planetry gear
Travel Speed	
High Speed	: 33 km/h
Low Speed	: 9 km/h
Max. Drawbar Pull	: 7.710 kgf
Gradeability	: 29° (%55)
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.

STEERING SYSTEM

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

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 160 L/min
Pilot Pump	: Gear, 22 L/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

• Easy-to-use control panel and menus	• Overheat prevention and protection system without interrupting the work
• Improved fuel economy and productivity	• Automatical powerboost switch-on and switch-off
• Automatical electric power-off	• Maintenance information and warning system
• Selection of multi-language on control panel	• Rear-view, arm-view camera (Optional)
• Maximum efficiency by selection of power and work modes	• Possibility to register 26 different operating hours
• Automatic preheating	• Error mode registry and warning system
• Anti-theft system with personal code	
• Hidromek Smartlink (Optional)	• Real time monitoring of operational parameters such as pressure, temperature, engine load
• Cruise control travel speed	
• Auto-Idle and automatic deceleration 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	: 13,9 rpm

CAPACITY

Fuel Tank	: 280 L	Engine Oil	: 16 L
Hydraulic Tank	: 120 L	Radiator	: 21 L
Hydraulic System	: 235 L		

ELECTRICAL SYSTEM

Voltage	: 24 V
Battery	: 2 x 12 V x 100 Ah
Alternator	: 24 V / 50 A
Starting Motor	: 24V / 4,0 kW

WEIGHT

Standard machine operating weight	: 16.550 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.

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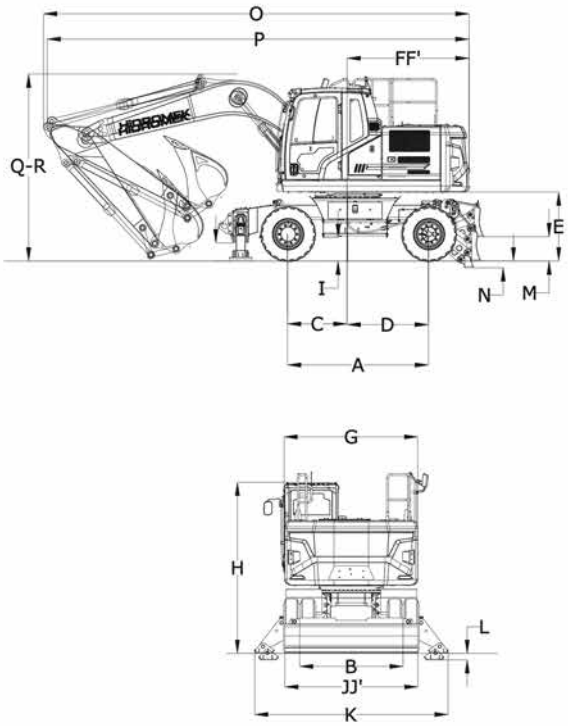

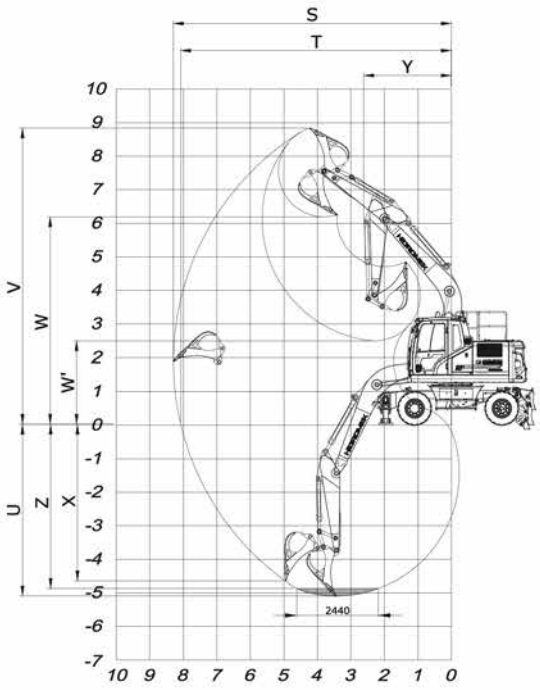

GENERALE DIMENSIONS

Boom Dimension		4600 mm		
Arm Dimension		*2300 mm	2000 mm	2600 mm
A	- Axle Distance	2600 mm		
B	- Thread	1944 mm		
C	- Rotation Axis – Front Axle Distance	1500 mm		
D	- Rotation Axis – Rear Axle Distance	1100 mm		
E	- Upper Chassis to Ground Clearance	1280 mm		
F	- Counterweight Distance	2250 mm		
F'	- Countweight Turning Radius	2310 mm		
G	- Upper Frame Width	2500 mm		
H	- Cab Height	3185 mm		
I	- Outrigger Ground Clearance	355 mm		
J	- Width at Tires (9,0-20/18R19,5/10,0-20)	2500 mm		
K	- Outrigger Width (Overall)	3634 mm		
L	- Outrigger Digging Depth	122 mm		
M	- Dozer Blade Ground Clearance	447 mm		
N	- Dozer Blade Digging Depth	124 mm		
O	- Overall Length / Travel	7850 mm	7850 mm	7770 mm
P	- Overall Length/ Transport	7780 mm	7890 mm	7660 mm
Q	- Boom Height / Travel	3445 mm	43200 mm	3955 mm
R	- Boom Height / Transport	3400 mm	3130 mm	3750 mm

*Standard

WORKING DIMENSIONS

Boom Dimension		4600 mm		
Arm Dimension		*2300 mm	2000 mm	2600 mm
S	- Maximum Digging Reach	8220 mm	7940 mm	8520 mm
T	- Maximum Digging Reach at Ground Level	7990 mm	7700 mm	8310 mm
U	- Maximum Digging Depth	5020 mm	4720 mm	5320 mm
V	- Maximum Digging Height	8780 mm	8600 mm	9020 mm
W	- Maximum Dumping Clearance	6260 mm	6080 mm	6490 mm
W´	- Minimum Dumping Clearance	2560 mm	2860 mm	2270 mm
X	- Maximum Vertical Didding Depth	4540 mm	4250 mm	4840 mm
Y	- Minimum Swing Radius	2620 mm	2580 mm	2670 mm
Z	- Maximum Digging Depth (2440 mm level)	4800 mm	4470 mm	5120 mm

*Standard

DIGGING PERFORMANCE

Standard Bucket Capacity (SAE)	0,60 m^3
Bucket Digging Force (Power Boost) ISO	10.800 kgf
Arm Crowd Force (Power Boost) ISO	7.800 kgf

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HIDROMEK

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