


**NEW!**

## ENGINE

Model	: ISUZU AR-4HK1X
Type	: Water cooled diesel engine, 4 cycles, 4 cylinders, line-type, direct injection, turbocharger and intercooler
Power	: 172 HP (128,4 kW) @2000 rpm / SAE J1995 (Gross) : 162 HP (120,7 kW) @2000 rpm / SAE J1349 (Net)
Max. Torque	: 677 Nm @1600 rpm (Gross) : 656 Nm @1600 rpm (Net)
Displacement	: 5193 cc
Bore and Stroke	: 115 mm x 125 mm

This new engine complies with the Emission Regulations U.S EPA Tier 4 Final and EU Stage IV

## 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	: 10,00 - 20TT (16 pr)

## 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
- 8" touch TFT screen
- 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

## STEERING SYSTEM

The "orbital" type steering system controls a steering cylinder located on the front axle. Minimum turning radius is 6.800 mm.

## TRAVEL AND BRAKERS

Travel	: Fully hydrostatic
Travel Motors	: Axial piston type
Reduction	: 2 stage planetary gear
Travel Speed	
High Speed	: 30 km/h
Low Speed	: 7,5 km/h
Max. Drawbar Pull	: 11.080 kgf
Gradeability	: 29° (%58)
Parking Brake	: Hydraulic, disc type with automatic warning
Service Brake	: Fully hydraulically operating disc type brakes with spring return, independent for front and rear axles.

## 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	: 2 axial piston type pumps with double variable displacement and inclined plate
Max. Flow Rate	: 2 x 233 L/min
Pilot Pump	: Gear type, 20 L/min
Working Pressures	
Cylinders	: 350 kgf/cm <sup>2</sup>
Power Boost	: 370 kgf/cm <sup>2</sup>
Travel	: 360 kgf/cm <sup>2</sup>
Swing	: 305 kgf/cm <sup>2</sup>
Pilot	: 40 kgf/cm <sup>2</sup>
Cylinders	
Boom	: 2 x ø 120 x ø 85 x 1.300 mm
Arm	: 1 x ø 135 x ø 95 x 1.520 mm
Bucket	: 1 x ø 120 x ø 85 x 1.060 mm

## OPERA CONTROL SYSTEM

- Easy-to-use control panel and menu
- Improved fuel economy and productivity
- Maximum efficiency by selection of power and work modes
- Overheat prevention and protection system without interrupting the work
- Automatic powerboost switch-on and switch-off
- Automatic electric power-off
- Maintenance information and warning system
- Error mode registry and warning system
- Ability to adjust hydraulic flow from Opera screen
- Maintenance information and warning system
- Automatic powershift to improve performance
- Selection of multi-language on control panel.
- Real time monitoring of operational parameters such as pressure, temperature, engine load
- Anti-theft system with personal code
- Possibility to register 26 different operating hours
- Rear-view, arm-view camera (Optional)
- Hidromek Smartlink (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.
Swing Speed	: 12,6

## FILLING CAPACITIES

Fuel Tank	: 330 L	Transmission	: 2,9 L
Hydraulic Tank	: 160 L	Engine Oil	: 27,3 L
Hydraulic System	: 318 L	Engine Cooling Sys	: 29,3 L
Swing Reduction	: 5 L	Front / Rear axles	: 14,6/18 L

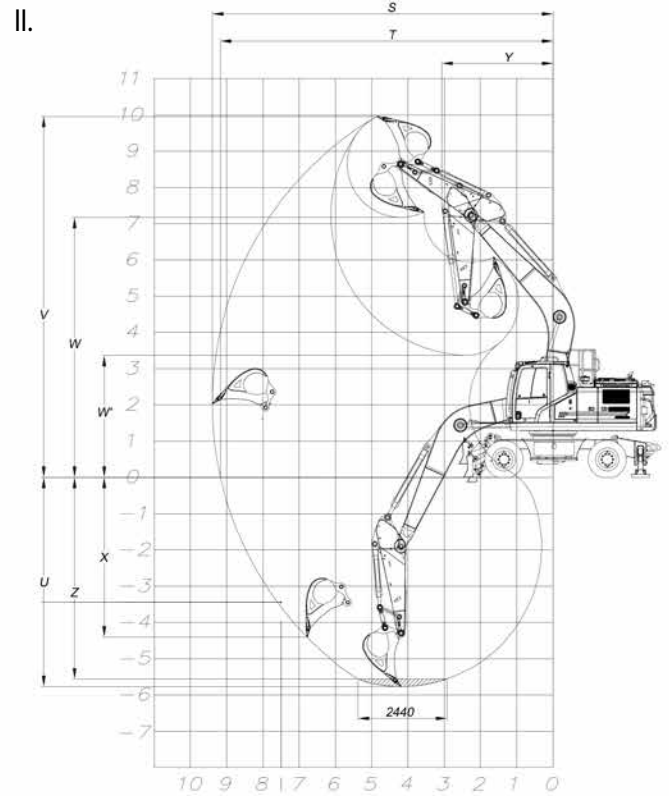
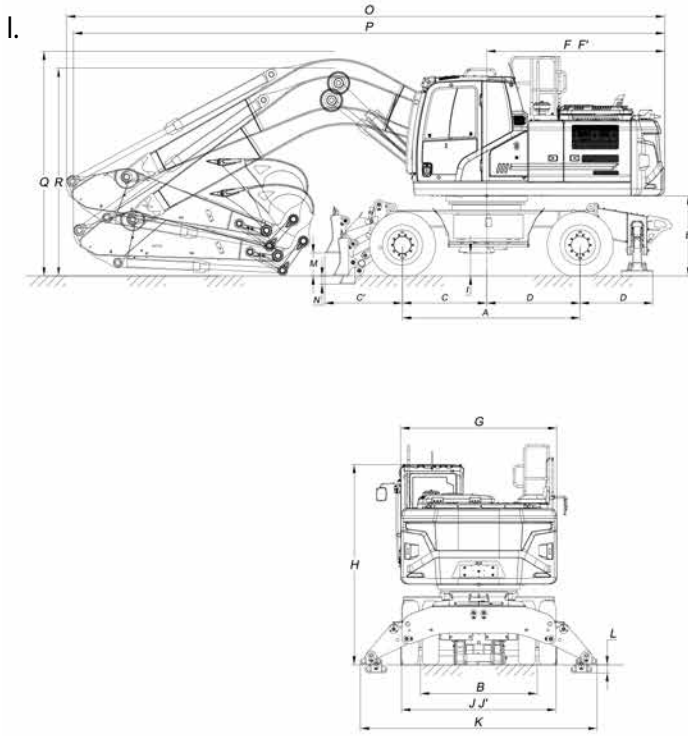
## ELECTRICAL SYSTEM

Voltage	: 24V
Battery	: 2 x 24 V x 150 Ah
Alternator	: 24 V / 50 A
Starting Motor	: 24V / 5,0 kW

## OPERATING WEIGHT

Standard machine operating weight	: 21.950 kg
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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.



## I. GENERAL DIMENSIONS

Boom Dimension	*5.600 mm	
Arm Dimension	*2.400 mm	2.920 mm
A - Axle Distance	2.850 mm	
B - Thread	1.914 mm	
C - Rotation Axis – Front Axle Distance	1.500 mm	
C' - Maximum Front Axle - Dozer Distance	1.140 mm	
D - Rotation Axis – Rear Axle Distance	1.350 mm	
D' - Rear Axle - Foot Distance	1.166 mm	
E - Upper Chassis to Ground Clearance	1.290 mm	
F - Counterweight Distance	2.855 mm	
F' - Counterweight Turning Radius	2.890 mm	
G - Upper Frame Width	2.500 mm	
H - Cab Height	3.220 mm	
I - Outrigger Ground Clearance	335 mm	
J - Dozer Blade Width	2.500 mm	
J' - Width at Tires	2.500 mm	
K - Outrigger Width (Overall)	3.800 mm	
L - Outrigger Digging Depth	130 mm	
M - Dozer Blade Ground Clearance	370 mm	
N - Dozer Blade Digging Depth	135 mm	
O - Overall Length/ Transport	9.590 mm	9.610 mm
P - Overall Length / Travel	9.480 mm	9.550 mm
Q - Boom Height / Travel	3.610 mm	3.690 mm
R - Boom Height / Transport	3.330 mm	3.450 mm

\* Standard

## II. WORKING DIMENSIONS

Boom Dimension	*5.600 mm	
Arm Dimension	*2.400 mm	2.920 mm
S - Maximum Digging Reach	9.400 mm	9.790 mm
T - Maximum Digging Reach at Ground Level	9.170 mm	9.570 mm
U - Maximum Digging Depth	5.770 mm	6.290 mm
V - Maximum Digging Height	9.960 mm	10.020 mm
W - Maximum Dumping Clearance	7.170 mm	7.280 mm
W' - Minimum Dumping Clearance	3.360 mm	2.840 mm
X - Maximum Vertical Digging Depth	4.430 mm	4.620 mm
Y - Minimum Swing Radius	3.080 mm	3.050 mm
Z - Maximum Digging Depth (2440 mm level)	5.560 mm	6.100 mm

\* Standard

## III. DIGGING PERFORMANCE

Standard Bucket Capacity (SAE)	0,9 m <sup>3</sup>
Bucket Digging Force (Power Boost) ISO	15.700 (17.200) kgf
Arm Crowd Force (Power Boost) ISO	13.200 (14.500) kgf