Dimensions

**HD308USV**

Bucket capacity: 0.12m³~0.34m³ (ISO)
Engine output: 40.0kW / 2,000min⁻¹ (ISO Net)
Operating weight: 7,300kg

Address Inquiries to:

NOTE: Illustrations may include optional equipment; Kato products and specifications are subject to improvements and changes without notice.

KATO WORKS CO., LTD.
9-37, Higashi-ohi 1-chome, Shinagawa-ku, Tokyo 140-0011 Japan.
Tel: Head Office Tokyo (03) 3458-1111
   Overseas Marketing Department Tokyo (03) 3458-1115
Fax: Tokyo (03) 3458-1163
URL: http://www.kato-works.co.jp
It is a word of ACTIVE MACHINE with 5 essential design features

- User friendly design
- Environmentally cautious design
- Lower fuel consumption
- Easy Maintenance
- Robotic shape design
**Easier Maintenance**

Maintenance accessibility is improved.
Gathered filters and parallel established radiator & oil cooler through Wide Opening Tail supports easy maintenance.

**Technical Specifications**

**ENGINE**

- **Model**: Isuzu 4LE2X
- **4 cycle Intercooler turbocharged diesel engine**
- **Number of cylinders**: 4
- **Bore & Stroke**: 85.0mm x 96.0mm
- **Total displacement**: 2,179 L
- **Rated output**: 40,9kW/2,000rpm (ISO Net)
- **Max. torque**: 209kNm/m (ISO Net)
- **Compression ratio**: 18.3:1
- **Combustion system**: Direct injection
- **Specific fuel consumption**: 234.7g/kW-hour
- **Cooling system**: Pressurized water circulated by a centrifugal pump with thermostat
- **Lubrication system**: Pressurized oil fed by a gear pump through full-flow and by-pass cartridge filter
- **Starters**: Electric: 24V-3.2kW
- **Generator**: Alternator: 24V-50A
- **Governor**: Mechanical
- **Air cleaner**: Dry type filter

**HYDRAULIC SYSTEM**

- **Pumps**: Double variable piston pump and gear pump
- **Max. discharge flow**: 2x74.0L/min
- **Max. discharge pressure**: 29.4MPa
- **Max. discharge pressure (travel circuit only)**: 31.4MPa
- **Oil filtration**: Full-flow filter with replaceable element, a pilot line filter and suction strainer
- **Control valves**: 5-4-1 section multiple control valves (with one free service circuit)
- **Pilot pump**: Gear type
- **Oil cooler**: Finned tube, forced ventilation
- **Pressure relief valves**: Primary and secondary on each circuit

**SWING SYSTEM**

- **Drive**: Axial piston motor with shockless valve and reduction gear.
- **Brake**: A hydraulic brake that locks automatically when the swing control lever is in the neutral position and a mechanical parking brake which is applied when the safety lock lever is pulled backwards, the engine is turned off or the swing control lever is in the neutral position.
- **Lubrication**: Completely housed and grease bathed
- **Max. swing speed**: 10.0m/min
- **Pitch swing radius**: 1,280mm
- **Min. front swing radius**: 1,630mm

**TRAVEL SYSTEM**

- **Drive**: Independent axial piston motor with reduction for each side.
- **Brakes**: Independent disk parking brake for each side, applied automatically when the travel levers are in the neutral position.
- **Track shoes**: 39 each side
- **Track adjustment**: Grease cylinders with recoil springs.
- **Lubrication**: Sealed-tos-the rollers and front idlers with floating seals.
- **Travel speed**: High: 0~5.0km/h Low: 0~3.2km/h
- **Gradedability**: 70% (30°)
- **Max. drawbar pull**: 64.6kN
- **Ground clearance**: 360mm
- **Boots (grouser bar)**: Track length: 2,820mm

**BOOM, ARM AND BUCKET**

- **Boom cylinders**: One, double acting
- **Bore & Stroke**: 105mm x 360mm
- **Arm cylinder**: One, double acting
- **Bore & Stroke**: 95mm x 920mm
- **Bucket cylinder**: One, double acting
- **Bore & Stroke**: 85mm x 145mm
- **Lubrication**: Grease nipples, with centralized greasing for remote points
- **Bucket digging force**: 61.4kN (6,300kgf)
- **Arm digging force**: 42.0kN (4,300kgf)

**CAB & CONTROLS**

- **Type**: All-weather sound suppressed, cab mounted on 4 point viscous mounting.
- **Right hand lever**: Controls the boom & bucket
- **Inner right hand lever** (with foot pedal): Controls the right hand track

**SERVICE DATA**

- **Fuel tank**: 120 L
- **Cooling system**: 11 L
- **Engine oil**: 10.7 L
- **Track drives**: 2 x 1.2 L
- **Hydraulic oil tank**: 51 L (system: 98 L)
- **In standard figure**, with the 1.62 arm, 450mm grouser shoes and 0.28m² (ISO) bucket.
- **Operating weight**: 7,300kg
- **Ground pressure**: 32kPa

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**New APC (APC150)**

Adoption of new APC system (APC150) offers easier operations and maintenance.
- **Quick selection of working modes**
- **Color monitor display and Back-light at touch switches**
- **12 maintenance information available**

**Improved Stability**

Increased tail radius and new shaped counter weight improve stability.
- **Tail Swinging Radius**: 1,290mm
- **(With Optional Weight)**: 1,370mm

**Clearance for Feet**

Compact established peddles & levers offers wider space for feet.

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**Note:** All measurements and specifications are subject to change without notice.