**Dimensions**

(Unit: mm)

**Standard Equipment**
- New APC mode
- New auto-slow - One-touch-slow
- Multi-mode display monitor
- Adjustable monitor alarm
- 2 service hour meter
- 3 traveling mode
- Automatic travel speed change
- Spring assisted pull-up front window
- 6 points viscous damping cab suspension
- Multi-position operator’s seat
- Adjustable seat suspension
- Adjustable speed window wiper
- Front window wiper (2 sprays)
- Rear emergency escape window
- Cabin light connected to cabin door
- 2 working lights (Upper front right side & Boom left side)
- Main control valve with antifriction valves (Boom and Arm)
- Digging force booster (High power)
- Swing shockless valve
- Automatic swing parking brake
- Automatic travel parking brake
- One free service circuit for attachments
- Rear view mirror (right side)
- Fire wall

**Optional Equipment**
- Tinted transparent hatch
- Seat belt
- Automatic climate control air conditioner
- Hot & cool box contained with AC
- Auto tuning AM/FM radio with clock
- 2 speaker stereo
- Working light (Cabin left side)
- Working light (Boom right side)
- Working light (Cab right side)
- Rear view mirror (left side)
- Cab access step
- Optional piping
- Safety lock valve (Boom and Arm cylinders)
- Cab front half guard
- Cab front full guard
- Cab head guard
- Electronic horn
- Cabin fan
- Swing warming light
- Travel alarm
- Refueling pump
- Air cleaner, double element
- Low temperature spec
- Tool set
- Track guard, 1 pc each side
- Track guard, 2 pcs each side
- Track guard, 3 pcs each side
- Full-length track guard

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

Address inquiries to:

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Fax.: Tokyo (03)3458-1152
URL: http://www.kato-works.co.jp

Bucket capacity: 0.25m³ - 0.60m³ (ISO)
Engine output: 68kW/2,050min⁻¹ (ISO Net)
Operating weight: 12,100kg
Gentle with Nature, Gentle with you
Try and Feel the New Epoch of Performance

Roomy and Comfortable Cabin
- Auto air conditioner (option)
- UV cut glass
- Ideal layout of each controlling gear
- Mono piece big & wide side window
- Anti-static-electricity fabric seat
- Wide range adjustable seating position

Powerful Engine
- Max Output: 68kW/2,050min⁻¹ (ISO Net) with inter-cooler & turbo-charger

Low Noise Emission
- 100dB(A)*, sound power level

Low Engine Emission
- Complying with the latest emission control

Durable Cooling System
- High performance radiator and aluminum oil cooler
- Easy access for cleaning.

Replacement Interval of Hydraulic Oil: 5,000 hours

*JIS Sound power level.
**Technical Specifications**

### ENGINE

- **Model**: Mitsubishi 4D34-TLE2A, 4 cycle turbo charged diesel engine
- **Number of cylinders**: 4
- **Bore & Stroke**: 104mm × 115mm
- **Total displacement**: 3.91 L
- **Rated output**: 68kW/2,050min⁻¹ (ISO Net)
- **Max. torque**: 360N·m/1,600min⁻¹ (ISO Net)
- **Compression ratio**: 16.5:1
- **Combustion system**: Direct injection
- **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
- **Starter**: Electric, 24V-5kW
- **Generator**: Alternator, 24V-50A
- **Governor**: Mechanical, Dry type filter

### CAB & CONTROLS

- **Type**: All weather sound suppressed, 1,000mm wide pressed steel cab mounted on 6 point viscous coupling
- **Right hand lever**: Controls the boom & bucket
- **Inner right hand lever (with foot pedal)**: Controls the right hand track
- **Inner left hand lever (with foot pedal)**: Controls the left hand track
- **Left hand lever**: Controls the arm & swing
- **Engine throttle**: Electric "Accel dial"
- **Meter & gauges**: Hour meter, water temperature, water level, fuel level, battery charge, APC monitor and air cleaner
- **Indicator lamps**: Caution lamp & Engine preheater indicator lamp
- **Working lights**: Provided on the boom left side and mounted on the frame
- **Lubrication chart**: Inside the tool box

### HYDRAULIC SYSTEM

- **Pumps**: Double variable piston pump and gear pump
- **Max. discharge flow**: 2.5 L/min
- **Max. discharge pressure**: 29.4 MPa
- **Max. discharge pressure (travel circuit only)**: 32.9 MPa
- **Oil filtration**: Full-flow filter with replaceable element, drain cartridge filter, pilot line filter, and a suction strainer
- **Control valve**: 3 + 4 section multiple control valve (with one free service circuit)
- **Pilot pump**: Gear type
- **Oil cooler**: Finned tube, forced ventilation
- **Pressure relief valves**: Primary and secondary

### 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**: 12.5min⁻¹
- **Tail swing radius**: 2,120mm
- **Min. front swing radius**: 2,390mm

### SWING SYSTEM

- **Boom cylinders**: Two, double acting
- **Bore & Stroke**: 105mm × 1,080mm
- **Arm cylinder**: One, double acting
- **Bore & Stroke**: 120mm × 1,215mm
- **Bucket cylinder**: One, double acting
- **Bore & Stroke**: 95mm × 995mm
- **Lubrication**: Grease nipples, with centralized greasing for remote points
- **Bucket digging force**: 88kN
  - (High power): 96kN
  - (High power): 71kN
  - (High power can be used with STD arm and short arm)

### SERVICE DATA

- **Fuel tank**: 275 L
- **Cooling system**: 18 L
- **Engine oil**: 17 L
- **Track drive**: 2.0 ± 2.5 L
- **Hydraulic oil tank**: 74 L
- **Operating weight**: 12,100kg
- **Ground pressure**: 38kPa

### TRAVEL SYSTEM

- **Drive**: Independent axial piston motor
- **Brakes**: Independent disk parking brake for each side
- **Gradeability**: 70% (35°)
- **Max. drawbar pull**: 100kN
- **Ground clearance (less grouser bar)**: 440mm
- **Track length**: 3,590mm
### Working Ranges

![Diagram of working ranges](image)

<table>
<thead>
<tr>
<th>Range</th>
<th>Arm (Unit: mm)</th>
<th>STD Arm (2.5m)</th>
<th>Long Arm (3.0m)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Max. digging radius</td>
<td>7,390</td>
<td>8,300</td>
<td>8,900</td>
</tr>
<tr>
<td>Max. digging depth</td>
<td>5,220</td>
<td>5,620</td>
<td>6,130</td>
</tr>
<tr>
<td>Max. digging height</td>
<td>8,380</td>
<td>8,610</td>
<td>8,800</td>
</tr>
<tr>
<td>Max. vertical wall</td>
<td>6,670</td>
<td>5,570</td>
<td>5,470</td>
</tr>
<tr>
<td>Min. swing radius</td>
<td>2,410</td>
<td>2,390</td>
<td>2,470</td>
</tr>
</tbody>
</table>

### Bucket

**Type of bucket**
- Baseline bucket
- Shape limiting bucket

<table>
<thead>
<tr>
<th>Bucket capacity</th>
<th>m³/1000kg</th>
<th>0.25</th>
<th>0.26</th>
<th>0.26</th>
<th>0.40</th>
<th>0.45</th>
<th>0.60</th>
<th>0.65</th>
<th>0.65</th>
<th>0.80</th>
</tr>
</thead>
<tbody>
<tr>
<td>Boom length</td>
<td>5.40</td>
<td>6.05</td>
<td>7.00</td>
<td>7.05</td>
<td>7.95</td>
<td>3.80</td>
<td>5.00</td>
<td>5.80</td>
<td>6.00</td>
<td>6.05</td>
</tr>
<tr>
<td>Arm length</td>
<td>5.00</td>
<td>5.62</td>
<td>6.13</td>
<td>6.24</td>
<td>7.00</td>
<td>4.30</td>
<td>5.52</td>
<td>5.87</td>
<td>6.00</td>
<td>6.05</td>
</tr>
<tr>
<td>Number of bucket teeth</td>
<td>3</td>
<td>4</td>
<td>4</td>
<td>4</td>
<td>5</td>
<td>5</td>
<td>5</td>
<td>5</td>
<td>5</td>
<td>5</td>
</tr>
<tr>
<td>Standard</td>
<td>General purpose</td>
<td>General purpose</td>
<td>General purpose</td>
<td>General purpose</td>
<td>General purpose</td>
<td>General purpose</td>
<td>General purpose</td>
<td>General purpose</td>
<td>General purpose</td>
<td>General purpose</td>
</tr>
<tr>
<td>Boom type</td>
<td>Short arm</td>
<td>Short arm</td>
<td>Short arm</td>
<td>Short arm</td>
<td>Short arm</td>
<td>Short arm</td>
<td>Short arm</td>
<td>Short arm</td>
<td>Short arm</td>
<td>Short arm</td>
</tr>
</tbody>
</table>

**Shape of bucket**
- Standard
- Usable only when 700mm shoe is fitted on.
- Yellow colored area means standard.

### Track Shoes

**Type of shoe**
- Grouser shoe
- Flat shoe
- Triangle shoe

<table>
<thead>
<tr>
<th>Shoe width</th>
<th>mm</th>
<th>500</th>
<th>600</th>
<th>700</th>
<th>500</th>
<th>700</th>
</tr>
</thead>
<tbody>
<tr>
<td>Overall width</td>
<td>mm</td>
<td>2,450</td>
<td>2,550</td>
<td>2,650</td>
<td>2,450</td>
<td>2,650</td>
</tr>
<tr>
<td>Ground pressure</td>
<td>kPa</td>
<td>38</td>
<td>30</td>
<td>28</td>
<td>30</td>
<td>28</td>
</tr>
<tr>
<td>Net weight change</td>
<td>kg</td>
<td>S.T.D</td>
<td>+100</td>
<td>+400</td>
<td>+420</td>
<td>+600</td>
</tr>
</tbody>
</table>

**NOTE**:
1. Lifting capacities are based on ISO 10567.
2. Lifting capacities shown do not exceed 97% of machine hydraulic capacity or 75% of minimum tipping load.
3. Capacities marked with an asterisk (*) are limited by hydraulic capacity.
4. Lifting capacities are based on machine standing on firm, uniform supporting surfaces. User must make allowances for job conditions such as soft or uneven ground.
5. Capacities marked with a dagger (†) may be reduced to 90% of the above lifting capacities. Weight of all lifting accessories must be deducted from the above lifting capacities.
6. Capacities apply only to the machine as originally manufactured and equipped by KATO WORKS CO., LTD.
7. The operator should be fully acquainted with the operation manual before operating the machine.