

ZAXIS-3 series Short-tail-swing version

HITACHI

ZAXIS  
52U



## HYDRAULIC EXCAVATOR

- Model Code: ZX52U-3
- Engine Rated Power: 28.4 kW (38.1 HP)
- Operating Weight: 5 180 - 5 340 kg
- Backhoe Bucket: 0.16 m<sup>3</sup>





# Advances in Hitachi Design Prowess for Diverse Job Needs

The Hitachi new ZAXIS-U3 Series comes with a host of refinements and tougher body for higher durability and productivity.

## Boosted Productivity (Page 4)

- The new engine delivers more power and higher operating efficiency.
- The Eco Zone, a new functionality, enhances fuel-efficient operation.
- Smooth combined operations for high production.
- The additional counterweight is equipped standard for higher stability when using a long or special attachment\*.

\*Extra piping is provided standard.

## Higher Durability (Page 5)

- The boom cylinder guard is angled for added strength, protecting the boom cylinder from damage.
- The box-section blade stays are utilized, and the arm cylinder bracket and boom top bracket are strengthened.





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 Backhoe Bucket: 0.16 m<sup>3</sup>



## Compact Body with Short Rear End

The compact short rear end design allows efficient operation even in confined spaces.



## Enhanced Operator Comfort (Page 6)

- High backrest (cab).
- Short-stroke lever for long, continuous operation with less fatigue.

## Higher Maintainability (Page 7)

- Centralised servicing points for simple daily maintenance and servicing.
- Split-type hydraulic hoses can be disconnected at the base and the boom back for quick replacement.
- Cooling fins at the radiator and oil cooler well avoid dirt packing and ease cleaning.

## Enhanced Safety (Page 7)

- The neutral engine start mechanism allows the engine to start only when the pilot-control shut-off lever is in the lock position.
- ROPS/TOPS cab and canopy.

*Notes: Some of the pictures in this brochure show an unmanned machine with attachments in an operating position. These were taken for demonstration purposes only and the actions shown are not recommended under normal operating conditions.*



# Boosted Productivity

The new engine is teamed up with the new hydraulic system to yield more production with less fuel consumption. The Eco Zone is a new fuel-efficient feature.



- **The new engine complies with the Emission Regulations EU Stage III A**



Eco zone



Additional counterweight

The new engine, combined with the new hydraulic system, boosts power and operating efficiency. The Eco Zone helps slash fuel consumption while yielding high production.

The Auto-Idle further cuts fuel consumption: When shifting the control lever to neutral, the engine slows automatically down to idling speed after four seconds later. This reduces emissions and sound as well. The proven Hitachi High-Performance Hydraulic (HHH) system yields smooth combined operations for high production.

The Stack muffler releases emissions in upward direction, a solution to environmental issues in urban or residential areas.

During high-speed traveling, travel motor speed decreases automatically when subjected to heavy load as in steering, and resumes when the load reduces. High/low speed shifting is smooth, too.

The additional counterweight comes standard for higher stability when using a long or special attachment.



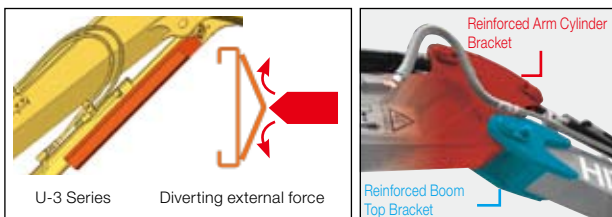


# Rugged Body for Tough Operation

The front attachment and blade are strengthened for higher durability and productivity at tough job sites.

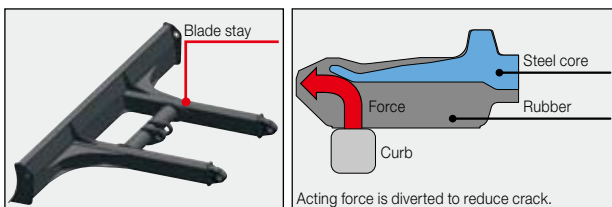


## Reinforced Front Attachment



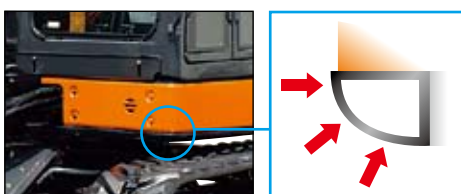
The boom cylinder guard is angled for added strength, and the arm cylinder bracket and boom top bracket are strengthened, too.

## Reinforced Undercarriage



The box-section blade stays are utilized to increase ruggedness for productive leveling. Each track shoe is reinforced with a steel core. So, the edge of track shoe has improved resistance to damage when riding on road shoulder, for example.

## Reinforced Upperstructure

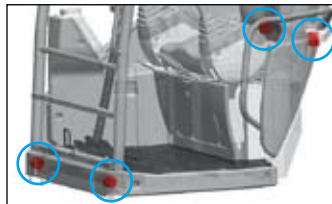
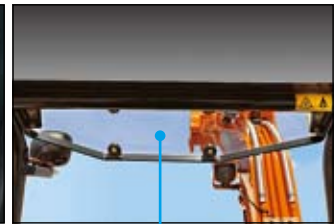


The job-proven D-section frame skirt is utilized to protect the frame skirt from damage.



# Enhanced Operator Comfort

The high backrest and short-stroke levers come standard to enhance operator comfort.



Shock-absorbing rubbers

Roof visor

Operator comfort is further enhanced with an array of sophisticated designs: bright cab interior color scheme, high backrest, short-stroke levers, wrist-rest, retractable seat belt, air conditioner, AM/FM radio, and roof visor (canopy). The cab itself rests on the field-proven four shock-absorbing rubber mounts for pleasant ride.



Short-Stroke Lever

Wrist-rest

# Simple Maintenance and Safety Features

Hitachi design expertise eases pre-start check, shortens cleaning time, and simplifies daily servicing.



## Simplified Maintenance



Split-type hydraulic hoses

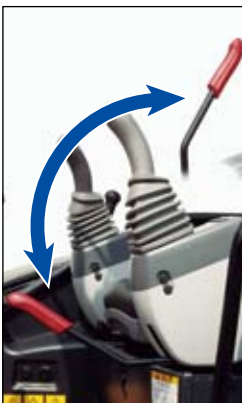
The engine cover slides up and down for easy servicing in confined space. The cab floor can be tilted up to 50° for easy access to the floor bottom and engine rear.

Waved fins at the radiator and oil cooler well avoid dust packing and ease cleaning.

The split-type hydraulic hoses can be disconnected at the base and boom back for quick replacement if a hose is punctured.

*Note: In daily maintenance, there is no need for cab tilting-up.*

## Safety Features



Illustrated is ROPS/OPG cab (with top guard).

When shifting the pilot-control shut-off lever upward, front action, swing, travel and blade action can all be locked to avoid misoperation due to unintentional lever handling. The neutral engine start system allows the engine to start only when the pilot-control shut-off lever is in the lock position.

What's more, the swing and travel parking brakes are equipped standard for easy operation on slope.

The world-class cab, conforming to the ROPS, TOPS and OPG top guard (level 1) standards, is utilized for operator protection.

*ROPS: Roll-Over Protection Structure  
TOPS: Tip-Over Protection Structure  
OPG: Operator Protective Guards*



# SPECIFICATIONS

## ENGINE

|                         |   |
|-------------------------|---|
| Model .....             | Yanmar 4TNV88   |
| Type .....              | 4-cycle water-cooled, direct injection                |
| No. of cylinders .....  | 4   |
| Rated power             |   |
| ISO 9249, net .....     | 28.4 kW (38.1 HP) at 2 400 min <sup>-1</sup> (rpm)    |
| EEC 80/1269, net ...    | 28.4 kW (38.1 HP) at 2 400 min <sup>-1</sup> (rpm)    |
| SAE J1349, net .....    | 28.4 kW (38.1 HP) at 2 400 min <sup>-1</sup> (rpm)    |
| Gross .....             | 29.5 kW (39.5 HP) at 2 400 min <sup>-1</sup> (rpm)    |
| Maximum torque .....    | 141 N·m (14.4 kgf·m) at 1 100 min <sup>-1</sup> (rpm) |
| Piston displacement ... | 2.189 L   |
| Bore and stroke .....   | 88 mm x 90 mm   |
| Electric system         |   |
| Voltage .....           | 12 V  |
| Batteries .....         | 72 Ah   |
| Alternator .....        | 55 A  |
| Starter motor .....     | 2.3 kW  |

## HYDRAULIC SYSTEM

|                      |  |
|----------------------|--|
| Main pumps .....     | 1 variable displacement axial piston pumps |
| Maximum oil flow ... | 1 x 120.0 L/min                            |
| Pilot pump .....     | 1 gear pump                                |
| Maximum oil flow ... | 12.0 L/min                                 |
| Auxiliary            |  |
| Maximum oil flow ... | 85.0 L/min                                 |

## Hydraulic Motors

|              |   |
|--------------|---|
| Travel ..... | 2 variable displacement axial piston motors |
| Swing .....  | 1 axial piston motor                        |

## Relief Valve Settings

|                         |                                     |
|-------------------------|-------------------------------------|
| Implement circuit ..... | 24.5 MPa (250 kgf/cm <sup>2</sup> ) |
| Swing circuit .....     | 18.1 MPa (185 kgf/cm <sup>2</sup> ) |
| Travel circuit .....    | 24.5 MPa (250 kgf/cm <sup>2</sup> ) |
| Pilot circuit .....     | 5.9 MPa (60.2 kgf/cm <sup>2</sup> ) |
| Auxiliary circuit ..... | 24.5 MPa (250 kgf/cm <sup>2</sup> ) |

## Hydraulic Cylinders

High-strength piston rods and tubes. Cylinder cushion mechanisms provided in boom and arm cylinder to absorb shock at stroke ends.

## Dimensions

|            | Quantity | Bore   | Rod diameter | Stroke |
|------------|----------|--------|--------------|--------|
| Boom       | 1        | 95 mm  | 55 mm        | 702 mm |
| Arm        | 1        | 80 mm  | 50 mm        | 731 mm |
| Bucket     | 1        | 75 mm  | 45 mm        | 551 mm |
| Blade      | 1        | 105 mm | 50 mm        | 140 mm |
| Boom swing | 1        | 90 mm  | 50 mm        | 664 mm |

## Hydraulic Filters

Hydraulic circuits use high-quality hydraulic filters. A suction filter is incorporated in the suction line, and full-flow filters in the return line.

## CONTROLS

Hydraulic pilot controls levers for all operations.

|                                 |   |
|---------------------------------|---|
| Implement levers .....          | 2 |
| Travel levers with pedals ..... | 2 |
| Blade lever .....               | 1 |

## NOISE LEVEL

|  |           |
|--|-----------|
| Noise level (LwA) (2000 / 14 / EC) ..... | 96 dB (A) |
| Noise level (LpA) (ISO 6396) .....       | 78 dB (A) |

## UPPERSTRUCTURE

### Revolving Frame

Welded sturdy box construction, using heavy-gauge steel plates for ruggedness. D-section frame for resistance to deformation.

### Swing Device

Axial piston motor with planetary reduction gear is lubricated by hydraulic oil. Swing circle is single-row, shear-type ball bearing with induction-hardened internal gear. Internal gear and pinion gear are immersed in lubricant. Swing parking brake is spring-set/hydraulic-released disc type.

|                    |                             |
|--------------------|-----------------------------|
| Swing speed .....  | 9.0 min <sup>-1</sup> (rpm) |
| Swing torque ..... | 8.92 kN·m (910 kgf·m)       |

### Operator's Cab

Independent spacious cab, 960 mm wide by 1 520 mm high, conforming to ISO\* Standards. Reinforced glass windows on 4 sides for visibility. Front windows (upper and lower) can be opened. Reclining seat.

\* International Standardization Organization

## UNDERCARRIAGE

### Tracks

Tractor-type undercarriage. Welded track frame using selected materials. Side frame welded to track frame.

### Numbers of Rollers and Shoes on Each Side

|                     |   |
|---------------------|---|
| Upper rollers ..... | 1 |
| Lower rollers ..... | 4 |

### Travel Device

Each track driven by 2-speed axial piston motor through planetary reduction gear for counterrotation of the tracks. Sprockets are replaceable.

Parking brake is spring-set/hydraulic-released disc type.

|                     |                     |
|---------------------|---------------------|
| Travel speeds ..... | High: 0 to 4.2 km/h |
|                     | Low: 0 to 2.7 km/h  |

|                              |                     |
|------------------------------|---------------------|
| Maximum traction force ..... | 38.3 kN (3 905 kgf) |
|------------------------------|---------------------|

|                    |                            |
|--------------------|----------------------------|
| Gradeability ..... | 58% (30 degree) continuous |
|--------------------|----------------------------|



## WEIGHTS AND GROUND PRESSURE

Equipped with 2.85 m boom, 1.69 m arm and 0.16 m<sup>3</sup> bucket (ISO heaped) rubber shoes 400 mm.

| Cab type         | Operating weight | Ground pressure                    |
|------------------|------------------|------------------------------------|
| 4-Pillars canopy | 5 180 kg         | 29 kPa (0.30 kgf/cm <sup>2</sup> ) |
| Cab              | 5 340 kg         | 30 kPa (0.31 kgf/cm <sup>2</sup> ) |

\* (Operating weight with 0.16 m<sup>3</sup> bucket, fully serviced, +80 kg operator ISO 6016).

## SERVICE REFILL CAPACITIES

|                                 |        |
|---------------------------------|--------|
| Fuel tank .....                 | 70.0 L |
| Engine coolant .....            | 6.5 L  |
| Engine oil .....                | 8.6 L  |
| Travel device (each side) ..... | 0.9 L  |
| Hydraulic system .....          | 77.0 L |
| Hydraulic oil tank .....        | 50.0 L |

## BACKHOE ATTACHMENTS

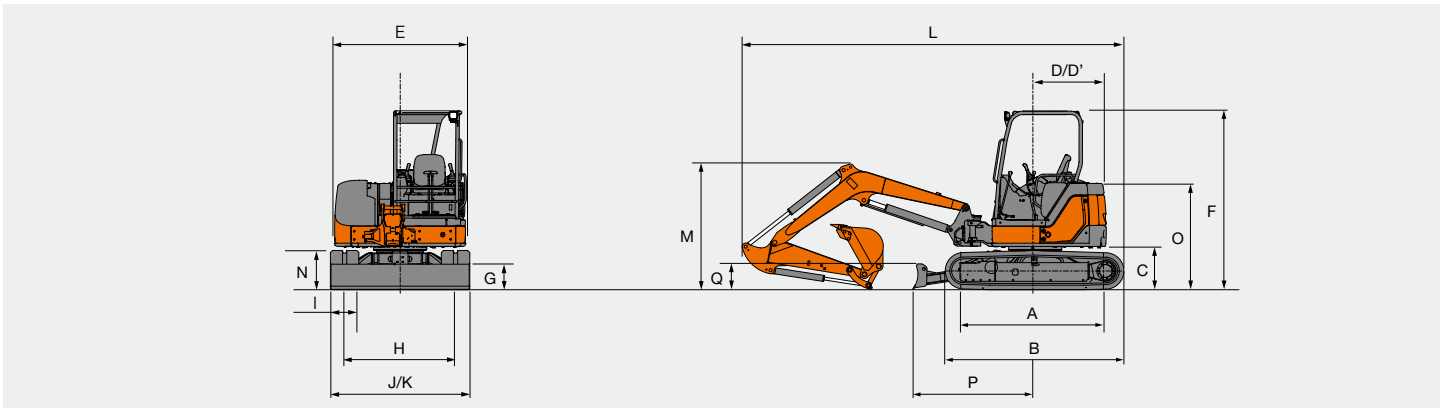
Boom and arms are of welded, box-section design. 2.85 m boom, 1.69 m and 1.38 m arms are available.

### Bucket

| Capacity ISO heaped | Width without side cutters | Weight |
|---------------------|----------------------------|--------|
| 0.16 m <sup>3</sup> | 600 mm                     | 113 kg |

# SPECIFICATIONS

## DIMENSIONS



Unit: mm

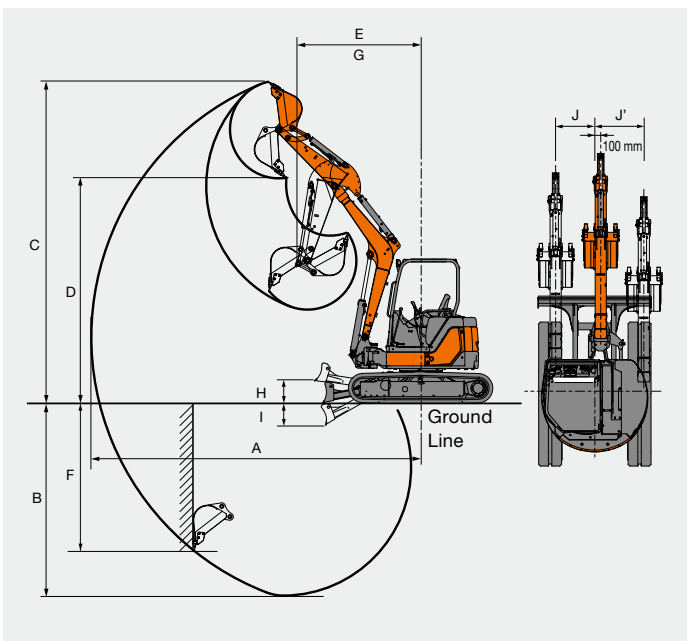
| Model code                        | ZX52U-3       |               |               |               |
|-----------------------------------|---------------|---------------|---------------|---------------|
|                                   | 1.38 m arm    |               | 1.69 m arm    |               |
|                                   | Canopy        | Cab           | Canopy        | Cab           |
| A Distance between tumblers       | 1 990 (1 980) |               | 1 990 (1 980) |               |
| B Undercarriage length            | 2 500 (2 480) |               | 2 500 (2 480) |               |
| * C Counterweight clearance       | 610 (590)     |               | 610 (590)     |               |
| D Rear-end swing radius           | 1 080         |               | 1 080         |               |
| D' Rear-end length                | 1 080         |               | 1 080         |               |
| E Overall width of upperstructure | 1 850         |               | 1 850         |               |
| F Overall height                  | 2 510 (2 490) | 2 550 (2 530) | 2 510 (2 490) | 2 550 (2 530) |
| * G Min. ground clearance         | 340 (320)     |               | 340 (320)     |               |
| H Track gauge                     | 1 600         |               | 1 600         |               |
| I Track shoe width                | 400           |               | 400           |               |
| J Undercarriage width             | 2 000         |               | 2 000         |               |
| K Overall width                   | 2 000         |               | 2 000         |               |
| L Overall length                  | 5 460         |               | 5 520         |               |
| M Overall height of boom          | 1 730         |               | 1 890         |               |
| N Track height                    | 550 (530)     |               | 550 (530)     |               |
| O Engine cover height             | 1 510 (1 490) |               | 1 510 (1 490) |               |
| P Horizontal distance to blade    | 1 720         |               | 1 720         |               |
| Q Blade height                    | 360           |               | 360           |               |

Data in ( ) are dimensions of grouser shoe.

This illustration shows the ZX52U-3 equipment with 1.38 m arm, 0.16 m<sup>3</sup> bucket and 400 mm rubber shoes.

## WORKING RANGES

Unit: mm



| Model code  | ZX52U-3               |       |              |       |
|---|-----------------------|-------|--------------|-------|
|   | 1.38 m arm            |       | 1.69 m arm   |       |
|   | Canopy                | Cab   | Canopy       | Cab   |
| A Max. digging reach  | 5 940                 |       | 6 240        |       |
| B Max. digging depth  | 3 550                 |       | 3 860        |       |
| C Max. cutting height   | 5 760                 | 5 630 | 6 010        | 5 870 |
| D Max. dumping height   | 4 080                 | 3 960 | 4 330        | 4 200 |
| E Min. swing radius   | 2 150                 | 2 300 | 2 260        | 2 320 |
| F Max. vertical wall  | 2 820                 |       | 3 160        |       |
| G Working radius at Min. swing radius (Max. boom-swing angle) | 1 680                 | 1 790 | 1 770        | 1 820 |
| H Blade bottom highest position above ground                  | 430                   |       |              |       |
| I Blade bottom lowest position above ground                   | 335                   |       |              |       |
| J/J' Offset distance (Max. boom-swing angle)                  | 695/860               |       |              |       |
| Bucket digging force ISO: PCSA                                | kN (kgf) 36.8 (3 750) |       | 36.8 (3 750) |       |
| Bucket digging force SAE                                      | kN (kgf) 32.1 (3 270) |       | 32.1 (3 270) |       |
| Arm crowd force ISO: PCSA                                     | kN (kgf) 24.0 (2 450) |       | 21.0 (2 140) |       |
| Arm crowd force SAE   | kN (kgf) 22.8 (2 330) |       | 20.1 (2 050) |       |

This illustration shows the ZX52U-3 equipment with 1.38 m arm, 0.16 m<sup>3</sup> bucket and 400 mm rubber shoes.



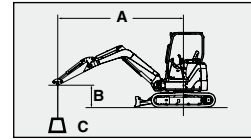
# LIFTING CAPACITIES

Notes: 1. Ratings are based on ISO 10567.

2. Lifting capacity does not exceed 75% of tipping load with the machine on firm, level ground or 87% full hydraulic capacity.

3. The load point is the center-line of the bucket pivot mounting pin on the arm.

4. An asterisk mark (\*) indicates load limited by hydraulic capacity.



A: Load radius

B: Load point height

C: Lifting capacity

## ZX52U-3 Canopy Version, Blade above Ground, 1.38 m Arm



Rating over-side or 360 degrees



Rating over-front

Unit: 1 000 kg

| Conditions          | Load point height | Load radius |       |       |       |       |      |       |      | At max. reach |      |      |
|---------------------|-------------------|-------------|-------|-------|-------|-------|------|-------|------|---------------|------|------|
|                     |                   | 2.0 m       |       | 3.0 m |       | 4.0 m |      | 5.0 m |      | meter         |      |      |
|                     |                   |             |       |       |       |       |      |       |      |               |      |      |
| Rubber shoes 400 mm | 3.0 m             |             |       | *1.25 | *1.25 | 0.84  | 0.98 |       |      | 0.65          | 0.76 | 4.66 |
|                     | 2.0 m             |             |       | 1.24  | 1.49  | 0.81  | 0.95 | 0.57  | 0.67 | 0.57          | 0.67 | 5.00 |
|                     | 1.0 m             |             |       | 1.15  | 1.39  | 0.77  | 0.91 | 0.56  | 0.66 | 0.54          | 0.64 | 5.09 |
|                     | 0 (Ground)        |             |       | 1.11  | 1.35  | 0.75  | 0.89 |       |      | 0.56          | 0.66 | 4.92 |
|                     | -1.0 m            | 2.18        | *2.67 | 1.12  | 1.35  | 0.74  | 0.88 |       |      | 0.64          | 0.76 | 4.48 |

| Conditions   | Load point height | Load radius |       |       |       |       |      |       |      | At max. reach |      |      |
|--|-------------------|-------------|-------|-------|-------|-------|------|-------|------|---------------|------|------|
|  |                   | 2.0 m       |       | 3.0 m |       | 4.0 m |      | 5.0 m |      | meter         |      |      |
|  |                   |             |       |       |       |       |      |       |      |               |      |      |
| Rubber shoes 400 mm<br>Additional counterweight 220 kg | 3.0 m             |             |       | *1.25 | *1.25 | 0.93  | 1.09 |       |      | 0.73          | 0.85 | 4.66 |
|  | 2.0 m             |             |       | 1.37  | 1.64  | 0.90  | 1.06 | 0.64  | 0.75 | 0.64          | 0.75 | 5.00 |
|  | 1.0 m             |             |       | 1.28  | 1.55  | 0.86  | 1.02 | 0.63  | 0.74 | 0.61          | 0.72 | 5.09 |
|  | 0 (Ground)        |             |       | 1.25  | 1.51  | 0.84  | 0.99 |       |      | 0.64          | 0.74 | 4.92 |
|  | -1.0 m            | 2.44        | *2.67 | 1.25  | 1.51  | 0.84  | 0.99 |       |      | 0.72          | 0.85 | 4.48 |

## ZX52U-3 Canopy Version, Blade on Ground, 1.38 m Arm

Unit: 1 000 kg

| Conditions          | Load point height | Load radius |       |       |       |       |       |       |       | At max. reach |       |      |
|---------------------|-------------------|-------------|-------|-------|-------|-------|-------|-------|-------|---------------|-------|------|
|                     |                   | 2.0 m       |       | 3.0 m |       | 4.0 m |       | 5.0 m |       | meter         |       |      |
|                     |                   |             |       |       |       |       |       |       |       |               |       |      |
| Rubber shoes 400 mm | 3.0 m             |             |       | *1.25 | *1.25 | 0.84  | *1.15 |       |       | 0.65          | *0.90 | 4.66 |
|                     | 2.0 m             |             |       | 1.24  | *1.81 | 0.81  | *1.34 | 0.57  | *0.92 | 0.57          | *0.90 | 5.00 |
|                     | 1.0 m             |             |       | 1.15  | *2.37 | 0.77  | *1.55 | 0.56  | *1.22 | 0.54          | *0.97 | 5.09 |
|                     | 0 (Ground)        |             |       | 1.11  | *2.50 | 0.75  | *1.66 |       |       | 0.56          | *1.12 | 4.92 |
|                     | -1.0 m            | 2.18        | *2.67 | 1.12  | *2.30 | 0.74  | *1.55 |       |       | 0.64          | *1.27 | 4.48 |

| Conditions   | Load point height | Load radius |       |       |       |       |       |       |      | At max. reach |       |      |
|--|-------------------|-------------|-------|-------|-------|-------|-------|-------|------|---------------|-------|------|
|  |                   | 2.0 m       |       | 3.0 m |       | 4.0 m |       | 5.0 m |      | meter         |       |      |
|  |                   |             |       |       |       |       |       |       |      |               |       |      |
| Rubber shoes 400 mm<br>Additional counterweight 220 kg | 3.0 m             |             |       | *1.25 | *1.25 | 0.93  | *1.15 |       |      | 0.73          | *0.90 | 4.66 |
|  | 2.0 m             |             |       | 1.37  | *1.81 | 0.90  | *1.34 | 0.64  | 0.92 | 0.64          | *0.90 | 5.00 |
|  | 1.0 m             |             |       | 1.28  | *2.37 | 0.86  | *1.55 | 0.63  | 1.22 | 0.61          | *0.97 | 5.09 |
|  | 0 (Ground)        |             |       | 1.25  | *2.50 | 0.84  | *1.66 |       |      | 0.64          | *1.12 | 4.92 |
|  | -1.0 m            | 2.44        | *2.67 | 1.25  | *2.30 | 0.84  | *1.55 |       |      | 0.72          | *1.27 | 4.48 |

## ZX52U-3 Cab Version, Blade above Ground, 1.69 m Arm

Unit: 1 000 kg

| Conditions          | Load point height | Load radius |       |       |      |       |      |       |      | At max. reach |      |      |
|---------------------|-------------------|-------------|-------|-------|------|-------|------|-------|------|---------------|------|------|
|                     |                   | 2.0 m       |       | 3.0 m |      | 4.0 m |      | 5.0 m |      | meter         |      |      |
|                     |                   |             |       |       |      |       |      |       |      |               |      |      |
| Rubber shoes 400 mm | 3.0 m             |             |       |       |      | 0.86  | 1.01 |       |      | 0.59          | 0.70 | 4.99 |
|                     | 2.0 m             |             |       | 1.29  | 1.54 | 0.83  | 0.98 | 0.58  | 0.69 | 0.53          | 0.62 | 5.31 |
|                     | 1.0 m             |             |       | 1.18  | 1.43 | 0.78  | 0.93 | 0.56  | 0.67 | 0.50          | 0.60 | 5.39 |
|                     | 0 (Ground)        |             |       | 1.13  | 1.37 | 0.75  | 0.90 | 0.55  | 0.65 | 0.52          | 0.61 | 5.24 |
|                     | -1.0 m            | 2.18        | *2.28 | 1.12  | 1.36 | 0.74  | 0.89 |       |      | 0.58          | 0.69 | 4.83 |

| Conditions   | Load point height | Load radius |       |       |       |       |       |       |      | At max. reach |       |      |
|--|-------------------|-------------|-------|-------|-------|-------|-------|-------|------|---------------|-------|------|
|  |                   | 2.0 m       |       | 3.0 m |       | 4.0 m |       | 5.0 m |      | meter         |       |      |
|  |                   |             |       |       |       |       |       |       |      |               |       |      |
| Rubber shoes 400 mm<br>Additional counterweight 220 kg | 3.0 m             |             |       |       |       | 0.96  | *1.02 |       |      | 0.67          | *0.72 | 4.99 |
|  | 2.0 m             |             |       | 1.42  | *1.57 | 0.92  | 1.08  | 0.65  | 0.77 | 0.59          | 0.69  | 5.31 |
|  | 1.0 m             |             |       | 1.32  | 1.59  | 0.88  | 1.04  | 0.64  | 0.75 | 0.57          | 0.67  | 5.39 |
|  | 0 (Ground)        |             |       | 1.26  | 1.53  | 0.84  | 1.00  | 0.62  | 0.73 | 0.58          | 0.69  | 5.24 |
|  | -1.0 m            | *2.28       | *2.28 | 1.25  | 1.52  | 0.84  | 0.99  |       |      | 0.65          | 0.77  | 4.83 |

## ZX52U-3 Cab Version, Blade on Ground, 1.69 m Arm

Unit: 1 000 kg

| Conditions          | Load point height | Load radius |       |       |       |       |       |       |       | At max. reach |       |      |
|---------------------|-------------------|-------------|-------|-------|-------|-------|-------|-------|-------|---------------|-------|------|
|                     |                   | 2.0 m       |       | 3.0 m |       | 4.0 m |       | 5.0 m |       | meter         |       |      |
|                     |                   |             |       |       |       |       |       |       |       |               |       |      |
| Rubber shoes 400 mm | 3.0 m             |             |       |       |       | 0.86  | *1.02 |       |       | 0.59          | *0.72 | 4.99 |
|                     | 2.0 m             |             |       | 1.29  | *1.57 | 0.83  | *1.22 | 0.58  | *1.08 | 0.53          | *0.72 | 5.31 |
|                     | 1.0 m             |             |       | 1.18  | *2.20 | 0.78  | *1.46 | 0.56  | *1.16 | 0.50          | *0.76 | 5.39 |
|                     | 0 (Ground)        |             |       | 1.13  | *2.47 | 0.75  | *1.61 | 0.55  | *1.21 | 0.52          | *0.86 | 5.24 |
|                     | -1.0 m            | 2.18        | *2.28 | 1.12  | *2.37 | 0.74  | *1.59 |       |       | 0.58          | *1.07 | 4.83 |

| Conditions   | Load point height | Load radius |       |       |       |       |       |       |       | At max. reach |       |      |
|--|-------------------|-------------|-------|-------|-------|-------|-------|-------|-------|---------------|-------|------|
|  |                   | 2.0 m       |       | 3.0 m |       | 4.0 m |       | 5.0 m |       | meter         |       |      |
|  |                   |             |       |       |       |       |       |       |       |               |       |      |
| Rubber shoes 400 mm<br>Additional counterweight 220 kg | 3.0 m             |             |       |       |       | 0.96  | *1.02 |       |       | 0.67          | *0.72 | 4.99 |
|  | 2.0 m             |             |       | 1.42  | *1.57 | 0.92  | *1.22 | 0.65  | *1.08 | 0.59          | *0.72 | 5.31 |
|  | 1.0 m             |             |       | 1.32  | *2.20 | 0.88  | *1.46 | 0.64  | *1.16 | 0.57          | *0.76 | 5.39 |
|  | 0 (Ground)        |             |       | 1.26  | *2.47 | 0.84  | *1.61 | 0.62  | *1.21 | 0.58          | *0.86 | 5.24 |
|  | -1.0 m            | *2.28       | *2.28 | 1.25  | *2.37 | 0.84  | *1.59 |       |       | 0.65          | *1.07 | 4.83 |

# EQUIPMENT

## STANDARD EQUIPMENT

Standard equipment may vary by country, so please consult your Hitachi dealer for details.

### ENGINE

- Water-separator for engine fuel
- Radiator reserve tank
- Electrical fuel feed pump
- Cartridge-type engine oil filter
- Fuel filter

### HYDRAULIC SYSTEM

- Hydraulic pilot type control levers
- Pilot control shut-off lever with neutral engine start system
- Swing parking brake
- Travel parking brake
- Two-speed travel system
- Auto idling system
- Suction filter
- Full-flow filter
- Pilot filter
- Boom anti-drift valve
- Valve for extra piping

### CAB

- ROPS/OPG cab
- Air conditioner
- AM/FM radio
- Window washer
- Defroster
- Reclining seat
- Suspension seat
- Retractable seat belt
- Wrist rests
- Spare power supply
- Wiper
- Drink holder
- Electric horn
- Cigarette lighter
- Floor mat
- Anti-slip plate
- Ashtray

### UPPERSTRUCTURE

- Additional counterweight: 220 kg
- Tool box
- Rear view mirror (with cab)
- Stack muffler

### UNDERCARRIAGE

- 400 mm rubber shoes

### FRONT ATTACHMENTS

- HN bushing
- 1.69 m arm
- Extra piping

## OPTIONAL EQUIPMENT

Optional equipment may vary by country, so please consult your Hitachi dealer for details.

### ENGINE

- Engine control lever\*

### 4-PILLARS CANOPY

- ROPS/OPG canopy
- Reclining seat
- Suspension seat
- Retractable seat belt
- Wrist rests
- Spare power supply
- Drink holder
- Electric horn
- Cigarette lighter
- Floor mat

### CAB

- Heater

### UPPERSTRUCTURE

- Pilot accumulator
- Theft deterrent system
- Multi-function lever (3 position switch type)
- Auxiliary overload relief valve

### UNDERCARRIAGE

- 400 mm grouser shoes
- 400 mm pad crawler shoes

### FRONT ATTACHMENTS

- 1.38 m arm

\* An auto-idle function isn't added to this device.

These specifications are subject to change without notice.

Illustrations and photos show the standard models, and may or may not include optional equipment, accessories, and all standard equipment with some differences in color and features. Before use, read and understand the Operator's Manual for proper operation.