

**ZAXIS-6 series**

**HITACHI**

**Reliable solutions**

# **ZAXIS48U**



## **HYDRAULIC EXCAVATOR**

Model code : ZX48U-6

Engine rated power : 29.1 kW (ISO14396)

Operating weight : Cab 4 580 – 4 960 kg

Canopy 4 450 – 4 830 kg

Bucket ISO heaped : 0.10 – 0.17 m<sup>3</sup>

# ZX48U-6

## The efficient excavator



6. Enhanced performance



8. Exceptional comfort



10. Easy to maintain

## No compromise





# Perfect fit

The ZX48U-6 has been designed to enhance productivity on a variety of job sites, including utilities, foundation work, landscaping, and indoor demolition and construction. Equipped with a powerful Stage V-compliant engine and muffler filter after-treatment device, it benefits from reduced fuel costs and emissions. Also suitable for rental projects, the ZX48U-6 is easy to operate and maintain, and offers an exceptionally comfortable working environment.



## Improved performance

The long blade enhances efficiency.



## Short-tail swing radius

The short-tail swing radius of the ZX48U-6 is ideal for confined spaces.





### Ultimate comfort

The spacious cab has a wide operator seat, adjustable arm rest and is easy to access.



### Enhanced durability

LED lights on the cab and boom last longer than halogen alternatives.



### Easy maintenance

Components are easily accessible.



### Smooth operation

The auxiliary function lever ensures excellent control of attachments.

# Enhanced performance

Thanks to the short-tail swing radius of the ZX48U-6, it is the perfect fit for urban job sites where space is often limited. Fast, powerful and fuel-efficient, it will ensure high levels of productivity, and performs with lower levels of fuel consumption and fewer emissions than previous models.

## Efficient productivity

The ZX48U-6 delivers high levels of productivity on the job site thanks to a powerful Stage V-compliant engine, quick cycle time and an efficient hydraulic system. The EGR and muffler filter reduce NOx and particulate matter, and a common rail system helps the engine to run optimally. This not only reduces emissions, but also contributes to greater fuel efficiency and reduced running costs.

## Built to last

Durable features of the ZX48U-6 – such as strengthened front joints, improved swing post and boom cylinder guard – ensure a reliable performance, helping you to get the job done on time and on budget.

## Lower fuel costs

The advanced energy-saving system combines ECO mode, auto idle and isochronous control features to significantly reduce fuel consumption. It also reduces noise levels and emissions.



Durable features contribute to a reliable performance.



Quick cycle time and efficient hydraulics ensure high productivity.



Multifunctional LCD monitor shows data at a glance.



A clear view from the cab.



LED lights have a longer lifetime than halogen alternatives.



# Exceptional comfort

The spacious, air-conditioned cab of the ZX48U-6 has been designed to make the operator feel at ease during the working day. It offers excellent visibility of the job site, and several user-friendly features to ensure easy and safe operation.

## Spacious cab

The ROPS-compliant cab of the ZX48U-6 is spacious and easy to access via the entrance step. Fitted with a wide and adjustable sliding suspension seat, folding foot pedals and adjustable arm rest, the ZX48U-6 provides a high level of comfort for operators.

## Easy operation

User-friendly controls are in easy reach of the operator and the hydraulic pilot control levers ensure a smooth operation. The blade is 90mm longer than on the previous model, and the distance between the tip of the bucket and blade is now shorter, which means more material can be gathered and less remains for the operator to clear manually.

## Enhanced design

The ZX48U-6 is equipped with new LED lights, which have a longer lifetime than halogen alternatives for efficient energy use. Options include a sun visor on the front window and an auxiliary function lever with proportional switch for easy control of the front attachment.



Controls are within easy reach.

# Easy to maintain

Routine maintenance and servicing of the ZX48U-6 can be carried out with minimum effort, resulting in maximum uptime. Components are accessible for inspection and are designed to be easily cleaned, ensuring an optimum performance.

## Convenient access

The engine and radiator covers have been designed to allow easy access. Sufficient space around the fuel tank opening makes the new mini excavator easier to refuel. The battery is positioned on the same side as the radiator for easy maintenance.

## Quick cleaning

The undercarriage is easy to clean due to the soil-free truck structure from which accumulated mud and sand can be easily removed. Dozer blade openings help to minimise the build-up of dirt and make it quicker to remove.

## Safety first

The battery disconnect switch is now available as standard for safer and easier maintenance.



The battery disconnect switch allows maintenance to be carried out safely.



Easy to open covers provide quick access.



The tilting floor enables easy access to the engine and control valve for quick servicing.

# SPECIFICATIONS

## ENGINE

|                           |                                                    |
|---------------------------|----------------------------------------------------|
| Model .....               | 4TNV88C                                            |
| Type .....                | 4-cycle water-cooled, common rail direct injection |
| Aspiration .....          | Coold EGR                                          |
| Aftertreatment .....      | Muffler filter                                     |
| No. of cylinders .....    | 4                                                  |
| Rated power               |                                                    |
| ISO 14396 .....           | 29.1 kW at 2 400 min <sup>-1</sup>                 |
| ISO 9249, net .....       | 27.1 kW at 2 400 min <sup>-1</sup>                 |
| SAE J1349, net .....      | 27.1 kW at 2 400 min <sup>-1</sup>                 |
| Maximum torque .....      | 135.8 Nm at 1 560 min <sup>-1</sup>                |
| Piston displacement ..... | 2.189 L                                            |
| Bore and stroke .....     | 88 mm x 90 mm                                      |
| Battery .....             | 1 x 12 V / 72 Ah                                   |

## HYDRAULIC SYSTEM

### Hydraulic Pumps

|                        |                                           |
|------------------------|-------------------------------------------|
| Main pumps .....       | 1 variable displacement axial piston pump |
| Maximum oil flow ..... | 1 x 120 L/min                             |
| Pilot pump .....       | 1 gear pump                               |
| Maximum oil flow ..... | 12.0 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 .....     | 18.3 MPa (187 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> ) |

### Hydraulic Cylinders

|            | Quantity | Bore   | Rod diameter | Stroke |
|------------|----------|--------|--------------|--------|
| Boom       | 1        | 90 mm  | 55 mm        | 699 mm |
| Arm        | 1        | 80 mm  | 50 mm        | 698 mm |
| Bucket     | 1        | 70 mm  | 40 mm        | 551 mm |
| Blade      | 1        | 105 mm | 50 mm        | 140 mm |
| Boom swing | 1        | 90 mm  | 50 mm        | 666 mm |

## UPPERSTRUCTURE

### Revolving Frame

D-section frame for resistance to deformation.

### Swing Device

Axial piston motor with planetary reduction gear is bathed in oil. Swing circle is single-row. Swing parking brake is spring-set/hydraulic-released disc type.

|                    |                             |
|--------------------|-----------------------------|
| Swing speed .....  | 9.0 min <sup>-1</sup> (rpm) |
| Swing torque ..... | 8.6 kNm (877 kgfm)          |

### Operator's Cab

Independent spacious cab, 1 049 mm wide by 1 611 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 Organization for Standardization

## UNDERCARRIAGE

### Tracks

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

### Numbers of Rollers on Each Side

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

### Travel Device

Each track driven by 2-speed axial piston motor. Parking brake is spring-set/hydraulic-released disc type. Automatic transmission system: High-Low.

|                     |                      |
|---------------------|----------------------|
| Travel speeds ..... | High : 0 to 4.2 km/h |
|                     | Low : 0 to 2.5 km/h  |

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

Gradeability .....

58 % (30 degree) continuous

## SOUND LEVEL

Sound level in cab according to ISO 6396 ..... LpA 75 dB(A)

External sound level according to ISO 6395 and

EU Directive 2000/14/EC ..... LwA 96 dB(A)

## SERVICE REFILL CAPACITIES

|                                 |        |
|---------------------------------|--------|
| Fuel tank .....                 | 70.0 L |
| Engine coolant .....            | 4.7 L  |
| Engine oil .....                | 8.6 L  |
| Travel device (each side) ..... | 0.9 L  |
| Hydraulic system .....          | 66.0 L |
| Hydraulic oil tank .....        | 42.0 L |

## WEIGHTS AND GROUND PRESSURE

### Operating Weight and Ground Pressure

#### 4-PILLAR CANOPY

| Shoe type        | Shoe width | Arm length | kg     | kPa (kgf/cm <sup>2</sup> ) |
|------------------|------------|------------|--------|----------------------------|
| Rubber shoe      | 400 mm     | 1.38 m     | 4 450  | 26 (0.26)                  |
|                  |            | 1.69 m     | 4 660* | 27 (0.27)*                 |
| Grouser shoe     | 400 mm     | 1.38 m     | 4 560  | 26 (0.27)                  |
|                  |            | 1.69 m     | 4 770* | 27 (0.28)*                 |
| Pad crawler shoe | 400 mm     | 1.38 m     | 4 620  | 27 (0.27)                  |
|                  |            | 1.69 m     | 4 830* | 28 (0.28)*                 |

Including 0.14 m<sup>3</sup> (ISO heaped), bucket weight (109 kg).

\*Including 0.11 m<sup>3</sup> (ISO heaped), bucket weight (96 kg), additional counterweight (200 kg)

#### CAB

| Shoe type        | Shoe width | Arm length | kg     | kPa (kgf/cm <sup>2</sup> ) |
|------------------|------------|------------|--------|----------------------------|
| Rubber shoe      | 400 mm     | 1.38 m     | 4 580  | 26 (0.27)                  |
|                  |            | 1.69 m     | 4 790* | 27 (0.28)*                 |
| Grouser shoe     | 400 mm     | 1.38 m     | 4 690  | 27 (0.28)                  |
|                  |            | 1.69 m     | 4 900* | 28 (0.29)                  |
| Pad crawler shoe | 400 mm     | 1.38 m     | 4 750  | 27 (0.28)                  |
|                  |            | 1.69 m     | 4 960* | 29 (0.29)                  |

Including 0.14 m<sup>3</sup> (ISO heaped), bucket weight (109 kg).

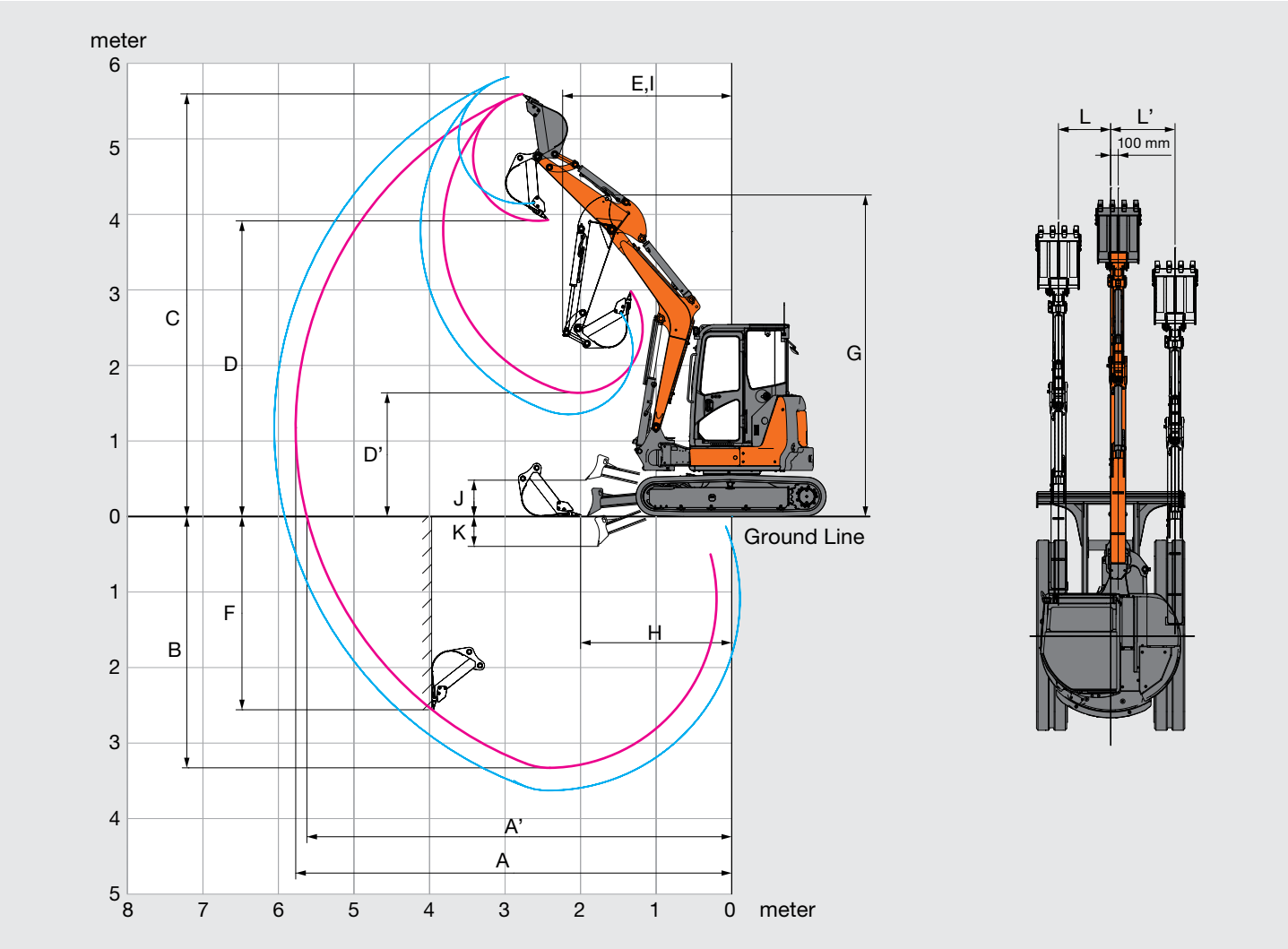
\*Including 0.11 m<sup>3</sup> (ISO heaped), bucket weight (96 kg), additional counterweight (200 kg)

## BUCKET AND ARM DIGGING FORCE

| Arm length                      | 1.38 m              | 1.69 m              |
|---------------------------------|---------------------|---------------------|
| Bucket digging force ISO        | 32.1 kN (3 270 kgf) |                     |
| Bucket digging force SAE : PCSA | 27.9 kN (2 850 kgf) |                     |
| Arm crowd force ISO             | 24.0 kN (2 450 kgf) | 21.0 kN (2 140 kgf) |
| Arm crowd force SAE : PCSA      | 22.8 kN (2 330 kgf) | 20.1 kN (2 050 kgf) |

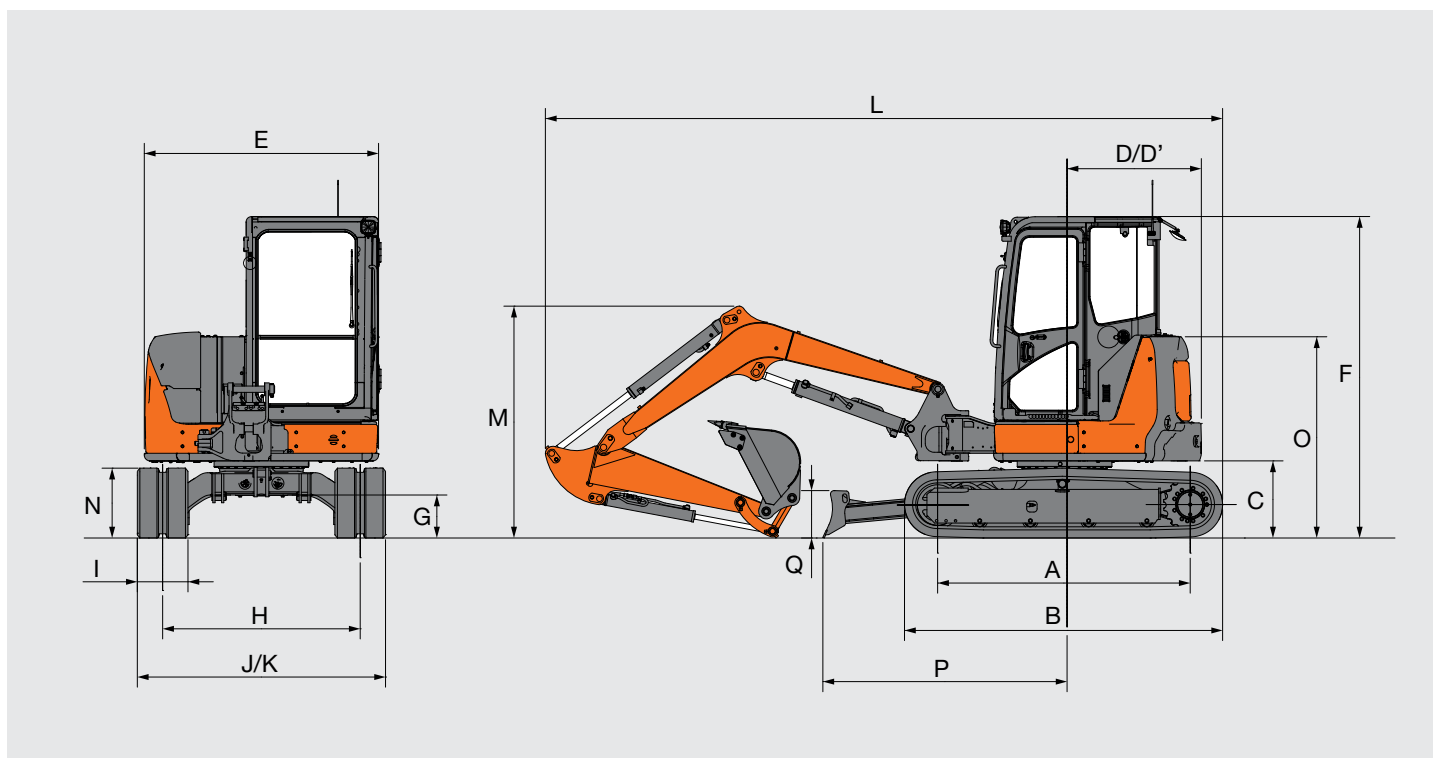
# SPECIFICATIONS

## WORKING RANGES



| Unit: mm                                                      |           |           |
|---------------------------------------------------------------|-----------|-----------|
| Arm length                                                    | 1.38 m    | 1.69 m    |
| A Max. digging reach                                          | 5 760     | 6 060     |
| A' Max. digging reach (on ground)                             | 5 610     | 5 920     |
| B Max. digging depth                                          | 3 320     | 3 630     |
| C Max. cutting height                                         | 5 590     | 5 820     |
| D Max. dumping height                                         | 3 910     | 4 140     |
| D' Min. dumping height                                        | 1 630     | 1 350     |
| E Min. swing radius                                           | 2 240     | 2 370     |
| F Max. vertical wall digging depth                            | 2 550     | 2 880     |
| G Front height at Min. swing radius                           | 4 250     | 4 250     |
| H Min. level crowding distance                                | 2 000     | 1 870     |
| I Working radius at Min. swing radius (Max. boom-swing angle) | 1 750     | 1 860     |
| J Blade bottom highest position above ground                  | 460       | 460       |
| K Blade bottom lowest position above ground                   | 365       | 365       |
| L/L' Offset distance (Max. boom-swing angle)                  | 690 / 850 | 690 / 850 |
| Max. boom-swing angle (deg.)                                  | 80 / 60   | 80 / 60   |

## DIMENSIONS



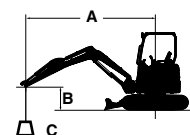
Unit: mm

|                                   | ZAXIS 48U                                 |
|-----------------------------------|-------------------------------------------|
| A Distance between tumblers       | 2 000 (1 990)                             |
| B Undercarriage length            | 2 500 (2 490)                             |
| *C Counterweight clearance        | 610 (590)                                 |
| D Rear-end swing radius           | 980 (1 080 with additional counterweight) |
| D' Rear-end length                | 980 (1 080 with additional counterweight) |
| E Overall width of upperstructure | 1 850                                     |
| F Overall height of cab           | 2 530                                     |
| *G Min. ground clearance          | 340 (320)                                 |
| H Track gauge                     | 1 560                                     |
| I Track shoe width                | 400                                       |
| J Undercarriage width             | 1 960                                     |
| K Overall width (Blade width)     | 1 960                                     |
| L Overall length                  |                                           |
| With 1.38 m arm                   | 5 350                                     |
| With 1.69 m arm                   | 5 390                                     |
| *M Overall height of boom         |                                           |
| With 1.38 m arm                   | 1 840                                     |
| With 1.69 m arm                   | 2 035                                     |
| N Track height                    | 550 (530)                                 |
| O Engine cover-height             | 1 590 (1 570)                             |
| P Horizontal distance to blade    | 1 910                                     |
| Q Blade height                    | 375                                       |

\* Excluding track shoe lug    Data in ( ) are dimensions of grouser shoe.

# MACHINE 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. \*Indicates load limited by hydraulic capacity.
  5. 0 m = Ground.



A: Load radius  
B: Load point height  
C: Lifting capacity

To determine lifting capacities, apply "Rating over-side or 360 degrees" machine capacities from table with "Blade above Ground" and deduct weight of installed attachment and quick hitch.

## ZAXIS 48U Cab Version, Blade above Ground

Rating over-front Rating over-side or 360 degrees Unit : 1 000 kg

| Conditions                                                                         | Load point height<br>m | Load radius |       |       |      |       |      |       |      |       |      | At max. reach |      |       |
|------------------------------------------------------------------------------------|------------------------|-------------|-------|-------|------|-------|------|-------|------|-------|------|---------------|------|-------|
|                                                                                    |                        | 1.0 m       |       | 2.0 m |      | 3.0 m |      | 4.0 m |      | 5.0 m |      | At max. reach |      |       |
|                                                                                    |                        |             |       |       |      |       |      |       |      |       |      |               |      | meter |
| Boom 2.68 m<br>Arm 1.69 m<br>Additional counterweight 200 kg<br>Rubber shoe 400 mm | 3.0                    |             |       |       |      |       |      | *0.98 | 0.82 |       |      | 0.74          | 0.60 | 4.80  |
|                                                                                    | 2.0                    |             |       |       |      | *1.44 | 1.22 | 0.98  | 0.79 | 0.68  | 0.55 | 0.66          | 0.53 | 5.13  |
|                                                                                    | 1.0                    |             |       |       |      | 1.44  | 1.13 | 0.93  | 0.75 | 0.67  | 0.54 | 0.63          | 0.51 | 5.21  |
|                                                                                    | 0 (Ground)             |             |       |       |      | 1.39  | 1.08 | 0.91  | 0.72 | 0.66  | 0.53 | 0.65          | 0.52 | 5.04  |
|                                                                                    | -1.0                   | *1.92       | *1.92 | *2.58 | 2.07 | 1.38  | 1.07 | 0.90  | 0.71 |       |      | 0.74          | 0.59 | 4.60  |
|                                                                                    | -2.0                   |             |       | *2.63 | 2.12 | 1.41  | 1.09 |       |      |       |      | 1.00          | 0.80 | 3.76  |

## ZAXIS 48U Cab Version, Blade on Ground

Rating over-front Rating over-side or 360 degrees Unit : 1 000 kg

| Conditions                                                                         | Load point height<br>m | Load radius |       |       |      |       |      |       |      |       |      | At max. reach |      |       |
|------------------------------------------------------------------------------------|------------------------|-------------|-------|-------|------|-------|------|-------|------|-------|------|---------------|------|-------|
|                                                                                    |                        | 1.0 m       |       | 2.0 m |      | 3.0 m |      | 4.0 m |      | 5.0 m |      | At max. reach |      |       |
|                                                                                    |                        |             |       |       |      |       |      |       |      |       |      |               |      | meter |
| Boom 2.68 m<br>Arm 1.69 m<br>Additional counterweight 200 kg<br>Rubber shoe 400 mm | 3.0                    |             |       |       |      |       |      | *0.98 | 0.82 |       |      | *0.85         | 0.60 | 4.80  |
|                                                                                    | 2.0                    |             |       |       |      | *1.44 | 1.22 | *1.14 | 0.79 | *1.01 | 0.55 | *0.86         | 0.53 | 5.13  |
|                                                                                    | 1.0                    |             |       |       |      | *2.01 | 1.13 | *1.35 | 0.75 | *1.07 | 0.54 | *0.92         | 0.51 | 5.21  |
|                                                                                    | 0 (Ground)             |             |       |       |      | *2.25 | 1.08 | *1.47 | 0.72 | *1.08 | 0.53 | *1.06         | 0.52 | 5.04  |
|                                                                                    | -1.0                   | *1.92       | *1.92 | *2.58 | 2.07 | *2.12 | 1.07 | *1.40 | 0.71 |       |      | *1.09         | 0.59 | 4.60  |
|                                                                                    | -2.0                   |             |       | *2.63 | 2.12 | *1.60 | 1.09 |       |      |       |      | *1.07         | 0.80 | 3.76  |

## ZAXIS 48U Cab Version, Blade above Ground

Rating over-front Rating over-side or 360 degrees Unit : 1 000 kg

| Conditions                                      | Load point height<br>m | Load radius |  |       |      |       |      |       |      |       |  | At max. reach |      |       |
|-------------------------------------------------|------------------------|-------------|--|-------|------|-------|------|-------|------|-------|--|---------------|------|-------|
|                                                 |                        | 1.0 m       |  | 2.0 m |      | 3.0 m |      | 4.0 m |      | 5.0 m |  | At max. reach |      |       |
|                                                 |                        |             |  |       |      |       |      |       |      |       |  |               |      | meter |
| Boom 2.68 m<br>Arm 1.38 m<br>Rubber shoe 400 mm | 3.0                    |             |  |       |      | *1.19 | 1.17 | 0.91  | 0.73 |       |  | 0.76          | 0.61 | 4.47  |
|                                                 | 2.0                    |             |  |       |      | 1.39  | 1.09 | 0.88  | 0.71 |       |  | 0.66          | 0.53 | 4.83  |
|                                                 | 1.0                    |             |  |       |      | 1.30  | 1.01 | 0.85  | 0.68 |       |  | 0.63          | 0.50 | 4.91  |
|                                                 | 0 (Ground)             |             |  |       |      | 1.26  | 0.98 | 0.83  | 0.65 |       |  | 0.65          | 0.52 | 4.73  |
|                                                 | -1.0                   |             |  | 2.64  | 1.90 | 1.27  | 0.98 | 0.83  | 0.65 |       |  | 0.76          | 0.61 | 4.25  |
|                                                 | -2.0                   |             |  | *2.05 | 1.96 | 1.30  | 1.01 |       |      |       |  | *1.10         | 0.89 | 3.28  |

## ZAXIS 48U Cab Version, Blade on Ground

Rating over-front Rating over-side or 360 degrees Unit : 1 000 kg

| Conditions                                      | Load point height<br>m | Load radius |  |       |      |       |      |       |      |       |  | At max. reach |      |       |
|-------------------------------------------------|------------------------|-------------|--|-------|------|-------|------|-------|------|-------|--|---------------|------|-------|
|                                                 |                        | 1.0 m       |  | 2.0 m |      | 3.0 m |      | 4.0 m |      | 5.0 m |  | At max. reach |      |       |
|                                                 |                        |             |  |       |      |       |      |       |      |       |  |               |      | meter |
| Boom 2.68 m<br>Arm 1.38 m<br>Rubber shoe 400 mm | 3.0                    |             |  |       |      | *1.19 | 1.17 | *1.11 | 0.73 |       |  | *1.06         | 0.61 | 4.47  |
|                                                 | 2.0                    |             |  |       |      | *1.66 | 1.09 | *1.25 | 0.71 |       |  | *1.07         | 0.53 | 4.83  |
|                                                 | 1.0                    |             |  |       |      | *2.16 | 1.01 | *1.43 | 0.68 |       |  | *1.14         | 0.50 | 4.91  |
|                                                 | 0 (Ground)             |             |  | *3.06 | 1.90 | *2.28 | 0.98 | *1.50 | 0.65 |       |  | *1.17         | 0.52 | 4.73  |
|                                                 | -1.0                   |             |  | *2.05 | 1.96 | *2.04 | 0.98 | *1.34 | 0.65 |       |  | *1.19         | 0.61 | 4.25  |
|                                                 | -2.0                   |             |  |       |      | *1.31 | 1.01 |       |      |       |  | *1.10         | 0.89 | 3.28  |

**ZAXIS 48U 4-Pillar Canopy Version, Blade above Ground**
 Rating over-front    Rating over-side or 360 degrees   Unit : 1 000 kg

| Conditions                                                                         | Load point height<br>m | Load radius                                                                       |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                    |                                                                                     |                                                                                     | At max. reach                                                                       |                                                                                     |       |
|------------------------------------------------------------------------------------|------------------------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------|
|                                                                                    |                        | 1.0 m                                                                             |                                                                                   | 2.0 m                                                                             |                                                                                   | 3.0 m                                                                             |                                                                                   | 4.0 m                                                                             |                                                                                    | 5.0 m                                                                               |                                                                                     |                                                                                     |                                                                                     |       |
|                                                                                    |                        |  |  |  |  |  |  |  |  |  |  |  |  | meter |
| Boom 2.68 m<br>Arm 1.69 m<br>Additional counterweight 200 kg<br>Rubber shoe 400 mm | 3.0                    |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                   | 0.97                                                                              | 0.79                                                                               |                                                                                     |                                                                                     | 0.71                                                                                | 0.58                                                                                | 4.80  |
|                                                                                    | 2.0                    |                                                                                   |                                                                                   |                                                                                   |                                                                                   | *1.44                                                                             | 1.18                                                                              | 0.94                                                                              | 0.76                                                                               | 0.66                                                                                | 0.53                                                                                | 0.63                                                                                | 0.51                                                                                | 5.13  |
|                                                                                    | 1.0                    |                                                                                   |                                                                                   |                                                                                   |                                                                                   | 1.39                                                                              | 1.09                                                                              | 0.90                                                                              | 0.72                                                                               | 0.64                                                                                | 0.52                                                                                | 0.60                                                                                | 0.49                                                                                | 5.21  |
|                                                                                    | 0 (Ground)             |                                                                                   |                                                                                   |                                                                                   |                                                                                   | 1.34                                                                              | 1.04                                                                              | 0.87                                                                              | 0.69                                                                               | 0.63                                                                                | 0.51                                                                                | 0.63                                                                                | 0.50                                                                                | 5.04  |
|                                                                                    | -1.0                   | *1.92                                                                             | *1.92                                                                             | *2.58                                                                             | 1.99                                                                              | 1.33                                                                              | 1.03                                                                              | 0.86                                                                              | 0.68                                                                               |                                                                                     |                                                                                     | 0.71                                                                                | 0.57                                                                                | 4.60  |
|                                                                                    | -2.0                   |                                                                                   |                                                                                   | *2.63                                                                             | 2.04                                                                              | 1.35                                                                              | 1.05                                                                              |                                                                                   |                                                                                    |                                                                                     |                                                                                     | 0.97                                                                                | 0.77                                                                                | 3.76  |

**ZAXIS 48U 4-Pillar Canopy Version, Blade on Ground**
 Rating over-front    Rating over-side or 360 degrees   Unit : 1 000 kg

| Conditions                                                                         | Load point height<br>m | Load radius                                                                       |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                    |                                                                                     |                                                                                     | At max. reach                                                                       |                                                                                     |       |
|------------------------------------------------------------------------------------|------------------------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------|
|                                                                                    |                        | 1.0 m                                                                             |                                                                                   | 2.0 m                                                                             |                                                                                   | 3.0 m                                                                             |                                                                                   | 4.0 m                                                                             |                                                                                    | 5.0 m                                                                               |                                                                                     |                                                                                     |                                                                                     |       |
|                                                                                    |                        |  |  |  |  |  |  |  |  |  |  |  |  | meter |
| Boom 2.68 m<br>Arm 1.69 m<br>Additional counterweight 200 kg<br>Rubber shoe 400 mm | 3.0                    |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                   | *0.98                                                                             | 0.79                                                                               |                                                                                     |                                                                                     | *0.85                                                                               | 0.58                                                                                | 4.80  |
|                                                                                    | 2.0                    |                                                                                   |                                                                                   |                                                                                   |                                                                                   | *1.44                                                                             | 1.18                                                                              | *1.14                                                                             | 0.76                                                                               | *1.01                                                                               | 0.53                                                                                | *0.86                                                                               | 0.51                                                                                | 5.13  |
|                                                                                    | 1.0                    |                                                                                   |                                                                                   |                                                                                   |                                                                                   | *2.01                                                                             | 1.09                                                                              | *1.35                                                                             | 0.72                                                                               | *1.07                                                                               | 0.52                                                                                | *0.92                                                                               | 0.49                                                                                | 5.21  |
|                                                                                    | 0 (Ground)             |                                                                                   |                                                                                   |                                                                                   |                                                                                   | *2.25                                                                             | 1.04                                                                              | *1.47                                                                             | 0.69                                                                               | *1.08                                                                               | 0.51                                                                                | *1.06                                                                               | 0.50                                                                                | 5.04  |
|                                                                                    | -1.0                   | *1.92                                                                             | *1.92                                                                             | *2.58                                                                             | 1.99                                                                              | *2.12                                                                             | 1.03                                                                              | *1.40                                                                             | 0.68                                                                               |                                                                                     |                                                                                     | *1.09                                                                               | 0.57                                                                                | 4.60  |
|                                                                                    | -2.0                   |                                                                                   |                                                                                   | *2.63                                                                             | 2.04                                                                              | *1.60                                                                             | 1.05                                                                              |                                                                                   |                                                                                    |                                                                                     |                                                                                     | *1.07                                                                               | 0.77                                                                                | 3.76  |

**ZAXIS 48U 4-Pillar Canopy Version, Blade above Ground**
 Rating over-front    Rating over-side or 360 degrees   Unit : 1 000 kg

| Conditions                                      | Load point height<br>m | Load radius                                                                         |                                                                                     |                                                                                     |                                                                                     |                                                                                     |                                                                                     |                                                                                     |                                                                                      |                                                                                       |                                                                                       | At max. reach                                                                         |                                                                                       |       |
|-------------------------------------------------|------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|-------|
|                                                 |                        | 1.0 m                                                                               |                                                                                     | 2.0 m                                                                               |                                                                                     | 3.0 m                                                                               |                                                                                     | 4.0 m                                                                               |                                                                                      | 5.0 m                                                                                 |                                                                                       |                                                                                       |                                                                                       |       |
|                                                 |                        |  |  |  |  |  |  |  |  |  |  |  |  | meter |
| Boom 2.68 m<br>Arm 1.38 m<br>Rubber shoe 400 mm | 3.0                    |                                                                                     |                                                                                     |                                                                                     |                                                                                     | *1.19                                                                               | 1.13                                                                                | 0.87                                                                                | 0.71                                                                                 |                                                                                       |                                                                                       | 0.73                                                                                  | 0.59                                                                                  | 4.47  |
|                                                 | 2.0                    |                                                                                     |                                                                                     |                                                                                     |                                                                                     | 1.34                                                                                | 1.05                                                                                | 0.85                                                                                | 0.68                                                                                 |                                                                                       |                                                                                       | 0.63                                                                                  | 0.51                                                                                  | 4.83  |
|                                                 | 1.0                    |                                                                                     |                                                                                     |                                                                                     |                                                                                     | 1.25                                                                                | 0.97                                                                                | 0.81                                                                                | 0.65                                                                                 |                                                                                       |                                                                                       | 0.60                                                                                  | 0.48                                                                                  | 4.91  |
|                                                 | 0 (Ground)             |                                                                                     |                                                                                     |                                                                                     |                                                                                     | 1.21                                                                                | 0.94                                                                                | 0.79                                                                                | 0.63                                                                                 |                                                                                       |                                                                                       | 0.63                                                                                  | 0.50                                                                                  | 4.73  |
|                                                 | -1.0                   |                                                                                     |                                                                                     | 2.53                                                                                | 1.83                                                                                | 1.21                                                                                | 0.94                                                                                | 0.79                                                                                | 0.63                                                                                 |                                                                                       |                                                                                       | 0.73                                                                                  | 0.58                                                                                  | 4.25  |
|                                                 | -2.0                   |                                                                                     |                                                                                     | *2.05                                                                               | 1.88                                                                                | 1.25                                                                                | 0.97                                                                                |                                                                                     |                                                                                      |                                                                                       |                                                                                       | 1.09                                                                                  | 0.86                                                                                  | 3.28  |

**ZAXIS 48U 4-Pillar Canopy Version, Blade on Ground**
 Rating over-front    Rating over-side or 360 degrees   Unit : 1 000 kg

| Conditions                                      | Load point height<br>m | Load radius                                                                         |                                                                                     |                                                                                     |                                                                                     |                                                                                     |                                                                                     |                                                                                     |                                                                                      |                                                                                       |                                                                                       | At max. reach                                                                         |                                                                                       |       |
|-------------------------------------------------|------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|-------|
|                                                 |                        | 1.0 m                                                                               |                                                                                     | 2.0 m                                                                               |                                                                                     | 3.0 m                                                                               |                                                                                     | 4.0 m                                                                               |                                                                                      | 5.0 m                                                                                 |                                                                                       |                                                                                       |                                                                                       |       |
|                                                 |                        |  |  |  |  |  |  |  |  |  |  |  |  | meter |
| Boom 2.68 m<br>Arm 1.38 m<br>Rubber shoe 400 mm | 3.0                    |                                                                                     |                                                                                     |                                                                                     |                                                                                     | *1.19                                                                               | 1.13                                                                                | *1.11                                                                               | 0.71                                                                                 |                                                                                       |                                                                                       | *1.06                                                                                 | 0.59                                                                                  | 4.47  |
|                                                 | 2.0                    |                                                                                     |                                                                                     |                                                                                     |                                                                                     | *1.66                                                                               | 1.05                                                                                | *1.25                                                                               | 0.68                                                                                 |                                                                                       |                                                                                       | *1.07                                                                                 | 0.51                                                                                  | 4.83  |
|                                                 | 1.0                    |                                                                                     |                                                                                     |                                                                                     |                                                                                     | *2.16                                                                               | 0.97                                                                                | *1.43                                                                               | 0.65                                                                                 |                                                                                       |                                                                                       | *1.14                                                                                 | 0.48                                                                                  | 4.91  |
|                                                 | 0 (Ground)             |                                                                                     |                                                                                     |                                                                                     |                                                                                     | *2.28                                                                               | 0.94                                                                                | *1.50                                                                               | 0.63                                                                                 |                                                                                       |                                                                                       | *1.17                                                                                 | 0.50                                                                                  | 4.73  |
|                                                 | -1.0                   |                                                                                     |                                                                                     | *3.06                                                                               | 1.83                                                                                | *2.04                                                                               | 0.94                                                                                | *1.34                                                                               | 0.63                                                                                 |                                                                                       |                                                                                       | *1.19                                                                                 | 0.58                                                                                  | 4.25  |
|                                                 | -2.0                   |                                                                                     |                                                                                     | *2.05                                                                               | 1.88                                                                                | *1.31                                                                               | 0.97                                                                                |                                                                                     |                                                                                      |                                                                                       |                                                                                       | *1.10                                                                                 | 0.86                                                                                  | 3.28  |

# EQUIPMENT

● : Standard equipment

○ : Optional equipment

| ENGINE                               |   |
|--------------------------------------|---|
| Air cleaner double filters           | ○ |
| Alternator 12V - 55 A                | ● |
| Auto idle system                     | ● |
| Cartridge-type engine oil filter     | ● |
| Cartridge-type fuel main filter      | ● |
| Dust-proof indoor net                | ○ |
| ECO/PWR mode control                 | ● |
| Electrical fuel feed pump            | ● |
| Fuel cooler                          | ● |
| Fuel pre-filter with water separator | ● |
| Radiator reserve tank                | ● |

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

| CAB                                     |   |
|-----------------------------------------|---|
| Air conditioner*                        | ● |
| AM/FM radio                             | ● |
| Anti-slip plate                         | ● |
| Armrest                                 | ● |
| Defroster                               | ● |
| Drink holder                            | ● |
| Electric horn                           | ● |
| Floor mat                               | ● |
| Heater                                  | ● |
| Retractable seat belt                   | ● |
| ROPS/OPG cab                            | ● |
| Spare power supply 12V (inside)         | ● |
| Spare power supply 12V (outside)        | ○ |
| Sun visor (front window (rigid type))   | ○ |
| Suspension seat with reclining (fabric) | ● |
| Window washer                           | ● |
| Wiper                                   | ● |

| 4-PILLAR CANOPY                        |   |
|----------------------------------------|---|
| Anti-slip plate                        | ● |
| Armrests                               | ● |
| Drink holder                           | ● |
| Electric horn                          | ● |
| Floor mat                              | ● |
| Retractable seat belt                  | ● |
| ROPS/OPG canopy                        | ● |
| Spare power supply 12V (inside)        | ○ |
| Suspension seat with reclining (vinyl) | ● |

| LIGHTS                                                                 |   |
|------------------------------------------------------------------------|---|
| Additional cab roof front lights                                       | ○ |
| Additional 4-pillar canopy roof front lights                           | ○ |
| 2 working lights                                                       | ● |
| 3 working LED lights (Boom x 1, cab or 4-pillar canopy roof front x 2) | ○ |

| UPPER STRUCTURE                    |   |
|------------------------------------|---|
| Auxiliary flow rate selector       | ○ |
| Auxiliary function lever (AFL)     | ○ |
| Auxiliary overload relief valve    | ○ |
| Batteries 1 x 70 Ah                | ● |
| Batteries 1 x 92 Ah***             | ○ |
| Battery disconnect switch          | ● |
| Electric refuel pump               | ○ |
| GSM mobile communication system*** | ○ |
| Pilot accumulator                  | ○ |
| Rearview mirror                    | ● |
| Tool box                           | ● |
| 200 kg additional counterweight    | ○ |

| UNDERCARRIAGE           |   |
|-------------------------|---|
| 400 mm grouser shoe     | ○ |
| 400 mm pad crawler shoe | ○ |
| 400 mm rubber shoe      | ● |

| FRONT ATTACHMENTS           |   |
|-----------------------------|---|
| Assist piping               | ○ |
| Extra piping                | ● |
| HN bushing                  | ● |
| Hose rupture valve for arm  | ● |
| Hose rupture valve for boom | ● |
| 1.38 m arm                  | ○ |
| 1.69 m arm                  | ● |

| MISCELLANEOUS            |   |
|--------------------------|---|
| Global e-Service***      | ○ |
| Theft deterrent system** | ○ |

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

\* Contains fluorinated greenhouse gases, Refrigerant type: HFC-134a, GWP: 1430, Amount: 0.65 kg, CO<sub>2</sub>e: 0.93 ton.

\*\* Hitachi Construction Machinery cannot be held liable for theft, any system will just minimize the risk of theft.

\*\*\* It is possible to obtain information by connecting to Global e-service with a Hitachi genuine mobile terminal.

[illegible]

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Prior to operating this machine, including satellite communication system, in a country other than a country of its intended use, it may be necessary to make modifications to it so that it complies with the local regulatory standards (including safety standards) and legal requirements of that particular country. Please do not export or operate this machine outside the country of its intended use until such compliance has been confirmed. Please contact your Hitachi dealer in case of questions about compliance.

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.

