

**ZAXIS-6 series**

**HITACHI**

**Reliable solutions**

# **ZAXIS65USB**



## **HYDRAULIC EXCAVATOR**

Model code : ZX65USB-6

Engine rated power : 42.4 kW (ISO14396)

Operating weight : 6 140 – 6 290 kg

Bucket ISO heaped : 0.22 – 0.24 m<sup>3</sup>



# ZX65USB-6

The efficient excavator



6. Powerful performance



8. Exceptional comfort



10. Easy to maintain

## No compromise









# Perfect fit

One of the largest Hitachi mini excavators, the ZX65USB-6 performs more like a medium-sized model with its powerful Stage V-compliant engine. It offers exceptional stability and comfort, is easy to maintain, and suitable for a wide range of projects. These include rental, utilities, foundation work, landscaping, and indoor demolition and construction.



## Fewer emissions

Muffler filter after-treatment device and EGR reduce particulate matter and NOx.



## Short-tail swing radius

The short-tail swing radius of the ZX65USB-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.



# Powerful performance

The ZX65USB-6 sets a new standard on the job site by increasing productivity, improving efficiency and reducing running costs. Thanks to the short-tail swing radius, it fits perfectly in narrow spaces, and performs impressively on a variety of projects.

## Efficient productivity

The ZX65USB-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 ZX65USB-6 – such as high performance bushings, box sectioned rigid frame blade 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.



Quick cycle time and efficient hydraulics ensure high productivity.



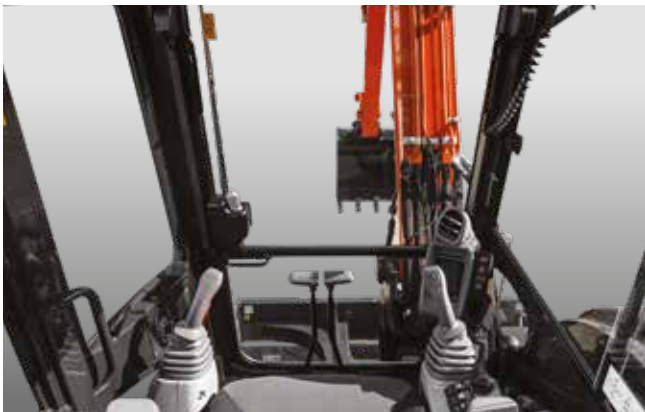


The short-tail swing radius makes the ZX65USB-6 ideal for working in tight spaces.



Multifunctional LCD monitor shows data at a glance.





A clear view from the cab.



LED lights last longer than halogen alternatives.





# Exceptional comfort

The interior of the cab has been designed with the operator in mind – it is spacious, comfortable and offers excellent visibility of the job site. The ZX65USB-6 is also easy to operate, thanks to the user-friendly controls and multifunctional monitor, which are positioned within easy reach on the right-hand side.

## Spacious cab

The ROPS-compliant cab of the ZX65USB-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 ZX65USB-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.

## Enhanced design

The ZX65USB-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

To ensure an optimum performance, Hitachi has designed the ZX65USB-6 with a range of features that make routine maintenance and servicing quick and straightforward to carry out. Parts and components are easier to reach, and several items are easier to clean thanks to the excavator's unique design.

## 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

A clean machine ensures optimum performance and helps to reduce downtime. Dozer blade openings help to minimise the build-up of dirt and make it quicker to remove. The two-piece floor mat can be taken out of the cab for easy cleaning.

## Safety first

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



Easy to open covers provide quick access.





Daily inspection points are grouped together for convenience.



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



# SPECIFICATIONS

## ENGINE

|                           |                                                    |
|---------------------------|----------------------------------------------------|
| Model .....               | 4TNV98C                                            |
| Type .....                | 4-cycle water-cooled, common rail direct injection |
| Aspiration .....          | Coold EGR                                          |
| Aftertreatment .....      | Muffler filter                                     |
| No. of cylinders .....    | 4                                                  |
| Rated power               |                                                    |
| ISO 14396 .....           | 42.4 kW at 2 000 min <sup>-1</sup>                 |
| ISO 9249, net .....       | 41.2 kW at 2 000 min <sup>-1</sup>                 |
| SAE J1349, net .....      | 41.2 kW at 2 000 min <sup>-1</sup>                 |
| Maximum torque .....      | 230.9 Nm at 1 300 min <sup>-1</sup>                |
| Piston displacement ..... | 3.318 L                                            |
| Bore and stroke .....     | 98 mm x 110 mm                                     |
| Battery .....             | 1 x 12 V / 92 Ah                                   |

## HYDRAULIC SYSTEM

### Hydraulic Pumps

|                        |                                           |
|------------------------|-------------------------------------------|
| Main pumps .....       | 1 variable displacement axial piston pump |
| Maximum oil flow ..... | 1 x 144 L/min                             |
| Pilot pump .....       | 1 gear pump                               |
| Maximum oil flow ..... | 10.4 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 .....     | 19.6 MPa (200 kgf/cm <sup>2</sup> ) |
| Travel circuit .....    | 25.7 MPa (262 kgf/cm <sup>2</sup> ) |
| Pilot circuit .....     | 3.9 MPa (40 kgf/cm <sup>2</sup> )   |

### Hydraulic Cylinders

|            | Quantity | Bore   | Rod diameter | Stroke |
|------------|----------|--------|--------------|--------|
| Boom       | 1        | 110 mm | 60 mm        | 785 mm |
| Arm        | 1        | 90 mm  | 55 mm        | 770 mm |
| Bucket     | 1        | 80 mm  | 50 mm        | 581 mm |
| Blade      | 1        | 120 mm | 70 mm        | 135 mm |
| Boom swing | 1        | 95 mm  | 55 mm        | 710 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 .....  | 9.5 min <sup>-1</sup> (rpm) |
| Swing torque ..... | 11.0 kNm (1 120 kgfm)       |

### Operator's Cab

Independent spacious cab, 1 050 mm wide by 1 610 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 4.8 km/h |
|                     | Low : 0 to 2.9 km/h  |

Maximum traction force ... 39.8 kN (4 060 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 98 dB(A)

## SERVICE REFILL CAPACITIES

|                                 |         |
|---------------------------------|---------|
| Fuel tank .....                 | 120.0 L |
| Engine coolant .....            | 7.7 L   |
| Engine oil .....                | 11.2 L  |
| Travel device (each side) ..... | 0.9 L   |
| Hydraulic system .....          | 108.0 L |
| Hydraulic oil tank .....        | 60.0 L  |

## WEIGHTS AND GROUND PRESSURE

### Operating Weight and Ground Pressure

| Shoe type        | Shoe width | Arm length | kg    | kPa (kgf/cm <sup>2</sup> ) |
|------------------|------------|------------|-------|----------------------------|
| Rubber shoe      | 400 mm     | 1.50 m     | 6 140 | 35 (0.35)                  |
|                  |            | 1.85 m     | 6 160 | 35 (0.36)                  |
| Grouser shoe     | 400 mm     | 1.50 m     | 6 240 | 35 (0.36)                  |
|                  |            | 1.85 m     | 6 260 | 35 (0.36)                  |
| Pad crawler shoe | 400 mm     | 1.50 m     | 6 270 | 35 (0.36)                  |
|                  |            | 1.85 m     | 6 290 | 36 (0.36)                  |

Including 0.24 m<sup>3</sup> (ISO heaped), bucket weight (146 kg).

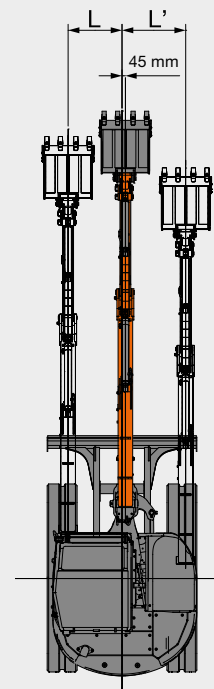
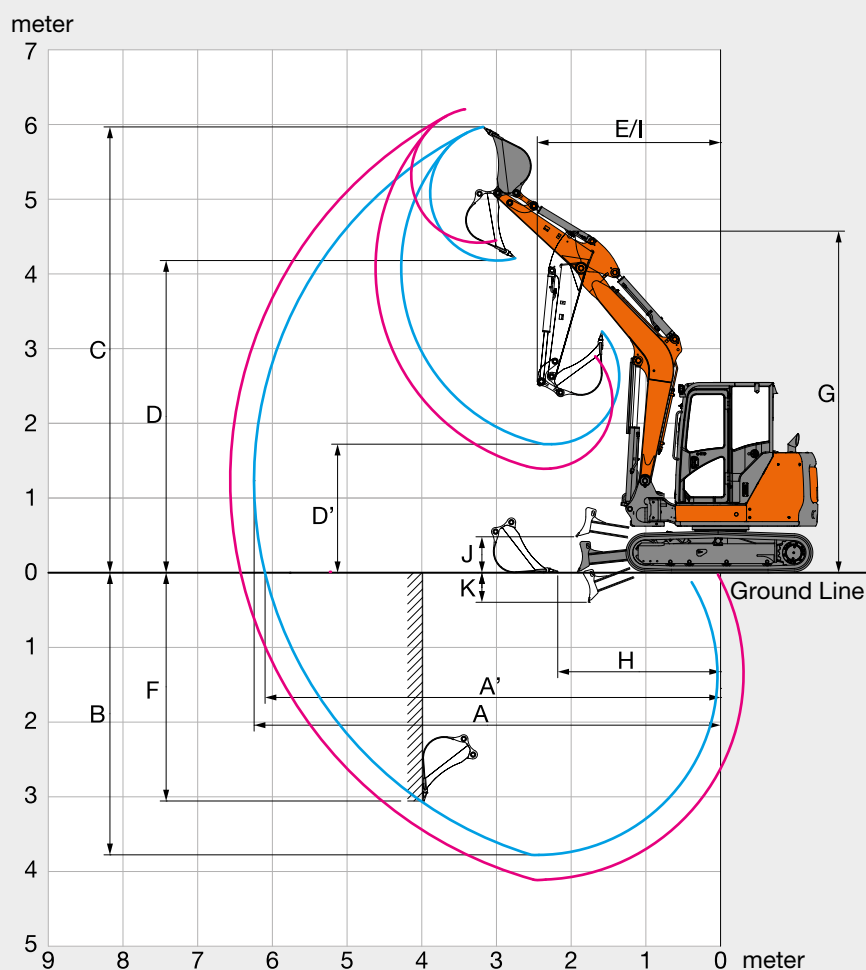
## BUCKET AND ARM DIGGING FORCE

| Arm length                      | 1.50 m              | 1.85 m              |
|---------------------------------|---------------------|---------------------|
| Bucket digging force ISO        | 41.1 kN (4 190 kgf) |                     |
| Bucket digging force SAE : PCSA | 35.9 kN (3 660 kgf) |                     |
| Arm crowd force ISO             | 31.1 kN (3 170 kgf) | 27.0 kN (2 750 kgf) |
| Arm crowd force SAE : PCSA      | 29.5 kN (3 010 kgf) | 25.8 kN (2 630 kgf) |



# SPECIFICATIONS

## WORKING RANGES

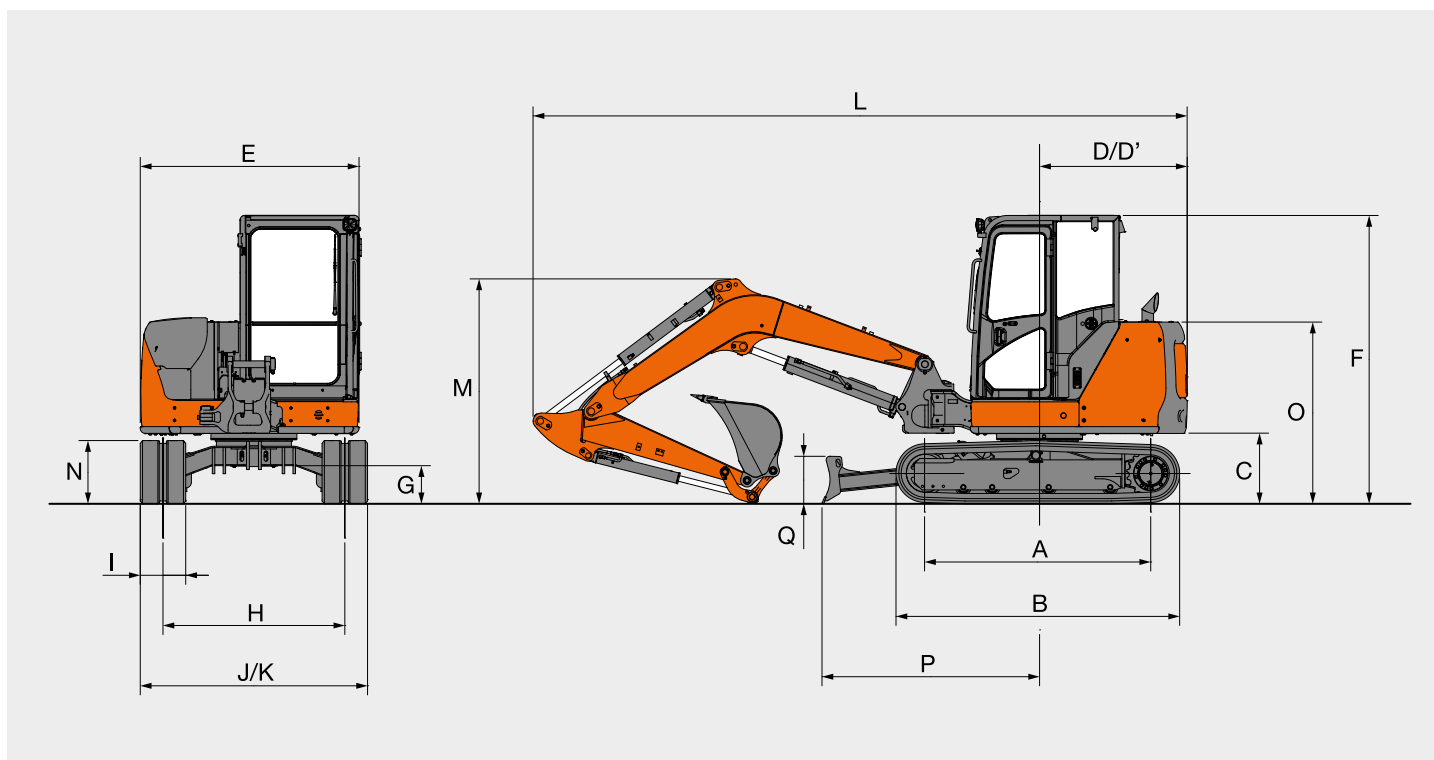


Unit: mm

| Arm length                                                    | 1.50 m    | 1.85 m    |
|---------------------------------------------------------------|-----------|-----------|
| A Max. digging reach                                          | 6 230     | 6 560     |
| A' Max. digging reach (on ground)                             | 6 080     | 6 420     |
| B Max. digging depth                                          | 3 770     | 4 120     |
| C Max. cutting height                                         | 5 960     | 6 190     |
| D Max. dumping height                                         | 4 170     | 4 410     |
| D' Min. dumping height                                        | 1 720     | 1 380     |
| E Min. swing radius                                           | 2 450     | 2 540     |
| F Max. vertical wall digging depth                            | 3 050     | 3 390     |
| G Front height at Min. swing radius                           | 4 560     | 4 560     |
| H Min. level crowding distance                                | 2 170     | 2 000     |
| I Working radius at Min. swing radius (Max. boom-swing angle) | 1 980     | 2 060     |
| J Blade bottom highest position above ground                  | 450       | 450       |
| K Blade bottom lowest position above ground                   | 390       | 390       |
| L/L' Offset distance                                          | 720 / 850 | 720 / 850 |
| Max. boom-swing angle (deg.)                                  | 80 / 60   | 80 / 60   |

Excluding track shoe lug

## DIMENSIONS



Unit: mm

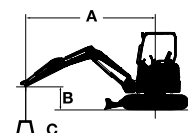
|                                   | ZAXIS 65USB                                 |
|-----------------------------------|---------------------------------------------|
| A Distance between tumbler        | 1 990 (1 980)                               |
| B Undercarriage length            | 2 500 (2 480)                               |
| *C Counterweight clearance        | 620 (615)                                   |
| D Rear-end swing radius           | 1 300 (1 410 with additional counterweight) |
| D' Rear-end length                | 1 300 (1 410 with additional counterweight) |
| E Overall width of upperstructure | 1 930                                       |
| F Overall height of cab           | 2 540                                       |
| *G Min. ground clearance          | 335 (330)                                   |
| H Track gauge                     | 1 600                                       |
| I Track shoe width                | 400                                         |
| J Undercarriage width             | 2 000                                       |
| K Overall width                   | 2 000                                       |
| L Overall length                  |                                             |
| With 1.50 m arm                   | 5 760                                       |
| With 1.85 m arm                   | 5 790                                       |
| *M Overall height of boom         |                                             |
| With 1.50 m arm                   | 1 980                                       |
| With 1.85 m arm                   | 2 170                                       |
| N Track height                    | 560 (550)                                   |
| O Engine cover-height             | 1 600                                       |
| P Horizontal distance to blade    | 1 920                                       |
| Q Blade height                    | 420                                         |

\* 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 65USB, 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 2.97 m<br>Arm 1.50 m<br>Rubber shoe<br>400 mm | 4.0                    |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                   | 1.37                                                                                | 1.16                                                                                |                                                                                     |                                                                                     | 1.20                                                                                | 1.02                                                                                | 4.32  |
|                                                    | 3.0                    |                                                                                   |                                                                                   |                                                                                   |                                                                                   | *1.78                                                                             | *1.78                                                                             | 1.35                                                                                | 1.15                                                                                |                                                                                     |                                                                                     | 0.95                                                                                | 0.81                                                                                | 4.95  |
|                                                    | 2.0                    |                                                                                   |                                                                                   |                                                                                   |                                                                                   | 2.01                                                                              | 1.66                                                                              | 1.29                                                                                | 1.09                                                                                | 0.92                                                                                | 0.78                                                                                | 0.85                                                                                | 0.72                                                                                | 5.26  |
|                                                    | 1.0                    |                                                                                   |                                                                                   |                                                                                   |                                                                                   | 1.87                                                                              | 1.53                                                                              | 1.23                                                                                | 1.03                                                                                | 0.89                                                                                | 0.76                                                                                | 0.82                                                                                | 0.69                                                                                | 5.32  |
|                                                    | 0 (Ground)             |                                                                                   |                                                                                   |                                                                                   |                                                                                   | 1.82                                                                              | 1.48                                                                              | 1.20                                                                                | 1.00                                                                                | 0.88                                                                                | 0.74                                                                                | 0.85                                                                                | 0.71                                                                                | 5.14  |
|                                                    | -1.0                   | *2.58                                                                             | *2.58                                                                             | *3.07                                                                             | 2.90                                                                              | 1.82                                                                              | 1.49                                                                              | 1.19                                                                                | 0.99                                                                                |                                                                                     |                                                                                     | 0.96                                                                                | 0.81                                                                                | 4.70  |
|                                                    | -2.0                   |                                                                                   |                                                                                   | 3.88                                                                              | 2.97                                                                              | 1.86                                                                              | 1.53                                                                              |                                                                                     |                                                                                     |                                                                                     |                                                                                     | 1.28                                                                                | 1.07                                                                                | 3.87  |

## ZAXIS 65USB, Blade on Ground

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

| AXIS 650SB, Blade on Ground                        |                        |                                                                                     |                                                                                     |                                                                                     |                                                                                     |                                                                                      |                                                                                       |                                                                                       |                                                                                       |                                                                                       |                                                                                       |                                                                                       |                                                                                       | Rating over-front |  | Rating over-side or 360 degrees |  | Unit : 1.000 K |  |
|----------------------------------------------------|------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|-------------------|--|---------------------------------|--|----------------|--|
| 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 2.97 m<br>Arm 1.50 m<br>Rubber shoe<br>400 mm | 4.0                    |                                                                                     |                                                                                     |                                                                                     |                                                                                     |                                                                                      |                                                                                       | *1.55                                                                                 | 1.16                                                                                  |                                                                                       |                                                                                       | *1.62                                                                                 | 1.02                                                                                  | 4.32              |  |                                 |  |                |  |
|                                                    | 3.0                    |                                                                                     |                                                                                     |                                                                                     |                                                                                     | *1.78                                                                                | *1.78                                                                                 | *1.64                                                                                 | 1.15                                                                                  |                                                                                       |                                                                                       | *1.64                                                                                 | 0.81                                                                                  | 4.95              |  |                                 |  |                |  |
|                                                    | 2.0                    |                                                                                     |                                                                                     |                                                                                     |                                                                                     | *2.74                                                                                | 1.66                                                                                  | *1.98                                                                                 | 1.09                                                                                  | *1.71                                                                                 | 0.78                                                                                  | *1.67                                                                                 | 0.72                                                                                  | 5.26              |  |                                 |  |                |  |
|                                                    | 1.0                    |                                                                                     |                                                                                     |                                                                                     |                                                                                     | *3.64                                                                                | 1.53                                                                                  | *2.35                                                                                 | 1.03                                                                                  | *1.84                                                                                 | 0.76                                                                                  | *1.75                                                                                 | 0.69                                                                                  | 5.32              |  |                                 |  |                |  |
|                                                    | 0 (Ground)             |                                                                                     |                                                                                     |                                                                                     |                                                                                     | *3.87                                                                                | 1.48                                                                                  | *2.55                                                                                 | 1.00                                                                                  | *1.90                                                                                 | 0.74                                                                                  | *1.82                                                                                 | 0.71                                                                                  | 5.14              |  |                                 |  |                |  |
|                                                    | -1.0                   | *2.58                                                                               | *2.58                                                                               | *3.07                                                                               | 2.90                                                                                | *3.63                                                                                | 1.49                                                                                  | *2.47                                                                                 | 0.99                                                                                  |                                                                                       |                                                                                       | *1.91                                                                                 | 0.81                                                                                  | 4.70              |  |                                 |  |                |  |
|                                                    | -2.0                   |                                                                                     |                                                                                     | *4.67                                                                               | 2.97                                                                                | *2.91                                                                                | 1.53                                                                                  |                                                                                       |                                                                                       |                                                                                       |                                                                                       | *1.96                                                                                 | 1.07                                                                                  | 3.87              |  |                                 |  |                |  |

## ZAXIS 65USB, Blade above ground

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

| AXIS 5500, Blade above ground                      |                        | Load radius                                                                         |                                                                                     |                                                                                     |                                                                                     |                                                                                     |                                                                                       |                                                                                       |                                                                                       |                                                                                       |                                                                                       | At max. reach                                                                         |                                                                                       |       |
|----------------------------------------------------|------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|-------|
| Conditions                                         | Load point height<br>m | 1.0 m                                                                               |                                                                                     | 2.0 m                                                                               |                                                                                     | 3.0 m                                                                               |                                                                                       | 4.0 m                                                                                 |                                                                                       | 5.0 m                                                                                 |                                                                                       |                                                                                       |                                                                                       |       |
|                                                    |                        |  |  |  |  |  |  |  |  |  |  |  |  | meter |
| Boom 2.97 m<br>Arm 1.85 m<br>Rubber shoe<br>400 mm | 4.0                    |                                                                                     |                                                                                     |                                                                                     |                                                                                     |                                                                                     |                                                                                       | *1.29                                                                                 | 1.18                                                                                  |                                                                                       |                                                                                       | 1.03                                                                                  | 0.88                                                                                  | 4.74  |
|                                                    | 3.0                    |                                                                                     |                                                                                     |                                                                                     |                                                                                     |                                                                                     |                                                                                       | 1.36                                                                                  | 1.15                                                                                  | 0.94                                                                                  | 0.80                                                                                  | 0.85                                                                                  | 0.72                                                                                  | 5.30  |
|                                                    | 2.0                    |                                                                                     |                                                                                     |                                                                                     |                                                                                     | 2.05                                                                                | 1.70                                                                                  | 1.30                                                                                  | 1.10                                                                                  | 0.92                                                                                  | 0.78                                                                                  | 0.76                                                                                  | 0.65                                                                                  | 5.59  |
|                                                    | 1.0                    |                                                                                     |                                                                                     |                                                                                     |                                                                                     | 1.88                                                                                | 1.54                                                                                  | 1.23                                                                                  | 1.03                                                                                  | 0.89                                                                                  | 0.75                                                                                  | 0.74                                                                                  | 0.62                                                                                  | 5.65  |
|                                                    | 0 (Ground)             |                                                                                     |                                                                                     |                                                                                     |                                                                                     | 1.80                                                                                | 1.46                                                                                  | 1.18                                                                                  | 0.98                                                                                  | 0.86                                                                                  | 0.72                                                                                  | 0.76                                                                                  | 0.64                                                                                  | 5.48  |
|                                                    | -1.0                   | *2.07                                                                               | *2.07                                                                               | *2.64                                                                               | *2.64                                                                               | 1.78                                                                                | 1.45                                                                                  | 1.16                                                                                  | 0.97                                                                                  | 0.86                                                                                  | 0.72                                                                                  | 0.84                                                                                  | 0.71                                                                                  | 5.08  |
|                                                    | -2.0                   | *3.37                                                                               | *3.37                                                                               | 3.78                                                                                | 2.88                                                                                | 1.81                                                                                | 1.48                                                                                  | 1.18                                                                                  | 0.98                                                                                  |                                                                                       |                                                                                       | 1.06                                                                                  | 0.89                                                                                  | 4.34  |
|                                                    | -3.0                   |                                                                                     |                                                                                     | *2.97                                                                               | *2.97                                                                               |                                                                                     |                                                                                       |                                                                                       |                                                                                       |                                                                                       |                                                                                       | *1.79                                                                                 | 1.62                                                                                  | 2.93  |

## ZAXIS 65USB, Blade on Ground

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

| EARTH 6000, Blade on ground                        |                        |                                                                                     |                                                                                     |                                                                                     |                                                                                     |                                                                                     |                                                                                     |                                                                                       |                                                                                       |                                                                                       |                                                                                       |                                                                                       |                                                                                       | Rating over front |  | Rating over side or 360 degrees |  | Unit : 1.000 N |  |
|----------------------------------------------------|------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|-------------------|--|---------------------------------|--|----------------|--|
| 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 2.97 m<br>Arm 1.85 m<br>Rubber shoe<br>400 mm | 4.0                    |                                                                                     |                                                                                     |                                                                                     |                                                                                     |                                                                                     |                                                                                     | *1.29                                                                                 | 1.18                                                                                  |                                                                                       |                                                                                       | *1.37                                                                                 | 0.88                                                                                  | 4.74              |  |                                 |  |                |  |
|                                                    | 3.0                    |                                                                                     |                                                                                     |                                                                                     |                                                                                     |                                                                                     |                                                                                     | *1.42                                                                                 | 1.15                                                                                  | *1.45                                                                                 | 0.80                                                                                  | *1.30                                                                                 | 0.72                                                                                  | 5.30              |  |                                 |  |                |  |
|                                                    | 2.0                    |                                                                                     |                                                                                     |                                                                                     |                                                                                     | *2.31                                                                               | 1.70                                                                                | *1.78                                                                                 | 1.10                                                                                  | *1.57                                                                                 | 0.78                                                                                  | *1.32                                                                                 | 0.65                                                                                  | 5.59              |  |                                 |  |                |  |
|                                                    | 1.0                    |                                                                                     |                                                                                     |                                                                                     |                                                                                     | *3.34                                                                               | 1.54                                                                                | *2.19                                                                                 | 1.03                                                                                  | *1.75                                                                                 | 0.75                                                                                  | *1.41                                                                                 | 0.62                                                                                  | 5.65              |  |                                 |  |                |  |
|                                                    | 0 (Ground)             |                                                                                     |                                                                                     |                                                                                     |                                                                                     | *3.81                                                                               | 1.46                                                                                | *2.47                                                                                 | 0.98                                                                                  | *1.87                                                                                 | 0.72                                                                                  | *1.59                                                                                 | 0.64                                                                                  | 5.48              |  |                                 |  |                |  |
|                                                    | -1.0                   | *2.07                                                                               | *2.07                                                                               | *2.64                                                                               | *2.64                                                                               | *3.75                                                                               | 1.45                                                                                | *2.51                                                                                 | 0.97                                                                                  | *1.80                                                                                 | 0.72                                                                                  | *1.75                                                                                 | 0.71                                                                                  | 5.08              |  |                                 |  |                |  |
|                                                    | -2.0                   | *3.37                                                                               | *3.37                                                                               | *4.58                                                                               | 2.88                                                                                | *3.23                                                                               | 1.48                                                                                | *2.15                                                                                 | 0.98                                                                                  |                                                                                       |                                                                                       | *1.83                                                                                 | 0.89                                                                                  | 4.34              |  |                                 |  |                |  |
| -3.0                                               |                        |                                                                                     | *2.97                                                                               | *2.97                                                                               |                                                                                     |                                                                                     |                                                                                     |                                                                                       |                                                                                       |                                                                                       | *1.79                                                                                 | 1.62                                                                                  | 2.93                                                                                  |                   |  |                                 |  |                |  |

**ZAXIS 65USB, 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 2.97 m<br>Arm 1.85 m<br>Additional counterweight 270 kg<br>Rubber shoe 400 mm | 4.0                    |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                   | *1.29                                                                             | *1.29                                                                              |                                                                                     |                                                                                     | 1.16                                                                                | 0.99                                                                                | 4.74  |
|                                                                                    | 3.0                    |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                   | *1.42                                                                             | 1.29                                                                               | 1.06                                                                                | 0.90                                                                                | 0.95                                                                                | 0.82                                                                                | 5.30  |
|                                                                                    | 2.0                    |                                                                                   |                                                                                   |                                                                                   |                                                                                   | 2.28                                                                              | 1.90                                                                              | 1.45                                                                              | 1.23                                                                               | 1.03                                                                                | 0.88                                                                                | 0.86                                                                                | 0.74                                                                                | 5.59  |
|                                                                                    | 1.0                    |                                                                                   |                                                                                   |                                                                                   |                                                                                   | 2.11                                                                              | 1.74                                                                              | 1.38                                                                              | 1.17                                                                               | 1.00                                                                                | 0.85                                                                                | 0.84                                                                                | 0.71                                                                                | 5.65  |
|                                                                                    | 0 (Ground)             |                                                                                   |                                                                                   |                                                                                   |                                                                                   | 2.03                                                                              | 1.66                                                                              | 1.33                                                                              | 1.12                                                                               | 0.98                                                                                | 0.83                                                                                | 0.86                                                                                | 0.73                                                                                | 5.48  |
|                                                                                    | -1.0                   | *2.07                                                                             | *2.07                                                                             | *2.64                                                                             | *2.64                                                                             | 2.01                                                                              | 1.65                                                                              | 1.32                                                                              | 1.10                                                                               | 0.97                                                                                | 0.82                                                                                | 0.95                                                                                | 0.81                                                                                | 5.08  |
|                                                                                    | -2.0                   | *3.37                                                                             | *3.37                                                                             | 4.24                                                                              | 3.25                                                                              | 2.04                                                                              | 1.68                                                                              | 1.33                                                                              | 1.12                                                                               |                                                                                     |                                                                                     | 1.20                                                                                | 1.01                                                                                | 4.34  |
|                                                                                    | -3.0                   |                                                                                   |                                                                                   | *2.97                                                                             | *2.97                                                                             |                                                                                   |                                                                                   |                                                                                   |                                                                                    |                                                                                     |                                                                                     | *1.79                                                                               | *1.79                                                                               | 2.93  |

**ZAXIS 65USB, 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 2.97 m<br>Arm 1.85 m<br>Additional counterweight 270 kg<br>Rubber shoe 400 mm | 4.0                    |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                   | *1.29                                                                             | *1.29                                                                              |                                                                                     |                                                                                     | *1.37                                                                               | 0.99                                                                                | 4.74  |
|                                                                                    | 3.0                    |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                   | *1.42                                                                             | 1.29                                                                               | *1.45                                                                               | 0.90                                                                                | *1.30                                                                               | 0.82                                                                                | 5.30  |
|                                                                                    | 2.0                    |                                                                                   |                                                                                   |                                                                                   |                                                                                   | *2.31                                                                             | 1.90                                                                              | *1.78                                                                             | 1.23                                                                               | *1.57                                                                               | 0.88                                                                                | *1.32                                                                               | 0.74                                                                                | 5.59  |
|                                                                                    | 1.0                    |                                                                                   |                                                                                   |                                                                                   |                                                                                   | *3.34                                                                             | 1.74                                                                              | *2.19                                                                             | 1.17                                                                               | *1.75                                                                               | 0.85                                                                                | *1.41                                                                               | 0.71                                                                                | 5.65  |
|                                                                                    | 0 (Ground)             |                                                                                   |                                                                                   |                                                                                   |                                                                                   | *3.81                                                                             | 1.66                                                                              | *2.47                                                                             | 1.12                                                                               | *1.87                                                                               | 0.83                                                                                | *1.59                                                                               | 0.73                                                                                | 5.48  |
|                                                                                    | -1.0                   | *2.07                                                                             | *2.07                                                                             | *2.64                                                                             | *2.64                                                                             | *3.75                                                                             | 1.65                                                                              | *2.51                                                                             | 1.10                                                                               | *1.80                                                                               | 0.82                                                                                | *1.75                                                                               | 0.81                                                                                | 5.08  |
|                                                                                    | -2.0                   | *3.37                                                                             | *3.37                                                                             | *4.58                                                                             | 3.25                                                                              | *3.23                                                                             | 1.68                                                                              | *2.15                                                                             | 1.12                                                                               |                                                                                     |                                                                                     | *1.83                                                                               | 1.01                                                                                | 4.34  |
|                                                                                    | -3.0                   |                                                                                   |                                                                                   | *2.97                                                                             | *2.97                                                                             |                                                                                   |                                                                                   |                                                                                   |                                                                                    |                                                                                     |                                                                                     | *1.79                                                                               | *1.79                                                                               | 2.93  |



## 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                             | ● |
| Retractable seat belt                 | ● |
| ROPS/FOPS cab                         | ● |
| Spare power supply 12V (inside)       | ● |
| Spare power supply 12V (outside)      | ○ |
| Sun visor (front window (rigid type)) | ○ |
| Suspension seat with reclining        | ● |
| Window washer                         | ● |
| Wiper                                 | ● |

| LIGHTS                                                 |                                  |
|--------------------------------------------------------|----------------------------------|
| Additional cab roof front lights                       | <input type="radio"/>            |
| 2 working lights                                       | <input checked="" type="radio"/> |
| 3 working LED lights<br>(Boom x 1, cab roof front x 2) | <input type="radio"/>            |

| UPPER STRUCTURE                    |   |
|------------------------------------|---|
| Auxiliary flow rate selector       | ○ |
| Auxiliary function lever (AFL)     | ○ |
| Auxiliary overload relief valve    | ○ |
| Batteries 1 x 92 Ah                | ● |
| Battery disconnect switch          | ● |
| Electric refuel pump               | ○ |
| GSM mobile communication system*** | ○ |
| Pilot accumulator                  | ○ |
| Rearview mirror                    | ● |
| Tool box                           | ● |
| 270 kg additional counterweight    | ○ |

| UNDERCARRIAGE            |                                  |
|--------------------------|----------------------------------|
| 400 mm grouser shoes     | <input type="radio"/>            |
| 400 mm pad crawler shoes | <input type="radio"/>            |
| 400 mm rubber shoes      | <input checked="" type="radio"/> |

| FRONT ATTACHMENTS           |   |
|-----------------------------|---|
| Assist piping               | ○ |
| Extra piping                | ● |
| HN bushing                  | ● |
| Hose rupture valve for arm  | ● |
| Hose rupture valve for boom | ● |
| 1.50 m arm                  | ○ |
| 1.85 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: 0.85 kg, CO<sub>2</sub>e: 1.22 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]



Lined area for writing notes.

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.

