

ZAXIS-5 series Short-tail-swing version

HITACHI

Reliable solutions

ZAXIS85USB



HYDRAULIC EXCAVATOR

Model Code : ZX85USB-5A

Engine Rated Power : 34.1 kW (46 HP)

Operating Weight : 8 430 - 9 060 kg

Backhoe Bucket ISO Heaped : 0.13 - 0.33 m³



WALK AROUND

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Faster front movement

The hydraulic system has been modified to minimise pressure loss, resulting in higher speeds for the front attachment in forward motion.

User-friendly functionality

The monitor and ergonomically designed switches have been grouped together within easy reach, providing a wide range of useful technical information and several settings with multi-lingual support.

Added durability

The enlarged D-section frame skirt on the mainframe has increased the machine's durability.

Improved swing performance

With an additional counterweight, the excavator's slant angle when swinging is increased.



ZAXIS Empower your Vision.

Our engineers designed the new ZAXIS 85USB with one ultimate aim – to empower your vision. They carefully assessed it in terms of performance, productivity, comfort, durability and reliability to ensure that it would meet your expectations. Whether you're a fleet owner or an operator, the new ZAXIS 85USB delivers on every level. It is a high-quality, efficient machine that can cope with challenging conditions. It provides a safe and comfortable working environment, and operates smoothly and precisely. Its optimum performance and availability are achieved with easy maintenance features and the Hitachi Support Chain after-sales programme.

Expanded leg room

The seat and console can slide further back on the new ZAXIS, providing a more comfortable working environment for the operator. The rightside console has been ergonomically re-designed.

Ultimate comfort

The heated air suspension seat is ideal in cold climates and absorbs vibration during operation minimising operator fatigue.



Short-tail swing radius

This allows the new ZAXIS to work in confined spaces, particularly in urban areas, for road construction and forestry, anywhere with limited work space.

Easily accessible information

The large multi-function LCD monitor screen is easy to view in bright sunlight or darkness and provides technical data.

Quick and easy service access

With the new easy-to-use locking mechanism the Dust-Proof indoor filter can be attached and detached quickly.





PERFORMANCE

Designed to deliver an outstanding level of performance on a wide variety of projects, the new ZAXIS 85USB offers excellent versatility and greater fuel efficiency than the previous model. With a short-tail swing radius, it is ideal for working in confined spaces on a range of job sites, such as urban and road construction sites, as well as forestry and demolition applications.



Versatile and efficient, the new ZAXIS 85USB stands out from the competition



A wide range of applications

More compact than conventional models, the short-tail ZAXIS 85USB is suitable for working on a wide variety of job sites, especially where space is limited, namely on urban and road construction projects, and for forestry and demolition applications.

It delivers increased operating efficiency in confined areas thanks to minimal protrusions at both the front and rear of the machine. In addition, the excavator can be used for earthmoving and digging close to walls and guard rails. The rear-view monitor allows the operator to work safely at all times.

Hitachi has further enhanced the performance of the new ZAXIS 85USB. The diameters and resistance of the hoses in the new hydraulic system have been reduced to minimise pressure loss. The result is higher speeds for the front attachment in forward motion.

Hitachi engineers have also enhanced the swing performance of the machine. It has the capability to swing further when working on an incline, thanks to the optional additional counterweight.

Lower fuel costs

We realise that the productivity and efficiency of your construction machinery has a direct impact on the profitability of your business. The new ZAXIS 85USB has been developed to operate with high levels of productivity and greater fuel efficiency than previous models. This ensures that the excavator not only meets the latest EU regulations on emission standards*, but can also reduce your fuel costs significantly. This is the most effective way to save on the total cost of ownership.

Thanks to the new hydraulic system and its reliable engine, the PWR mode of the ZAXIS 85USB can reduce fuel consumption by 9% (compared to the conventional ZAXIS P mode). Further reductions in fuel consumption up to 22% can be achieved using the ECO mode.

** The engine of the new ZX85USB-5A is outside the scope of EU stage IIIB emission regulation.*

Key features

■ Short-tail swing radius

■ 9% reduction in fuel consumption (PWR mode vs ZX-3 P-mode)*

■ 22% reduction in fuel consumption (ECO mode vs ZX-3 P-mode)*

■ Improved swing performance

■ High-efficient hydraulics system



PRODUCTIVITY

The ZAXIS 85USB has been designed to operate efficiently, using less fuel than previous models, but maintaining the same high productivity levels that our customers expect from Hitachi excavators. With several powerful and innovative features, the new ZAXIS is capable of operating in a sustainable way, having a reduced impact on the environment and also contributing to the profitability of your business by saving money on fuel costs.



High productivity levels with a lower environmental impact



Sustainable efficiency

We are committed to the sustainable development of Hitachi excavators, particularly for use on urban job sites. The new ZAXIS 85USB has been built with a number of features that contribute to a significant reduction in fuel consumption, so it releases fewer emissions and has a smaller impact on the environment.

The excavator's auto idle system automatically reduces the engine to idling speed if all control levers have been left in neutral for more than four seconds. When the levers are moved again, the engine speed instantly resumes to the dial-set speed. This helps to reduce exhaust emissions, as well as noise levels, and contributes to lower fuel costs.

The new ZAXIS 85USB is also fitted with ECO mode and an ECO control system as standard. The ECO control system ensures that while the engine speed is set over 1 800 min⁻¹, as soon as all control levers are returned to the neutral position, the engine speed drops to 100 min⁻¹.

A further fuel-efficient feature is the auto shut-down system. This automatically drops the engine revolutions speed into low idle and stops the engine after the pilot control shut-off lever has been raised and the time specified on the multi-function monitor has been reached. This not only prevents fuel wastage, but also decreases noise levels, emissions and CO₂.

Powerful efficiency

Hitachi ZAXIS excavators are renowned for their reliable and powerful performance, and the new ZAXIS 85USB is no exception. For example, it has greater lifting power than the previous model, which will help to boost productivity levels on any job site.

With developments such as these, the new ZAXIS excavator is ideal for working on busy job sites, where there are daily targets and ultimate deadlines to be met. It can be relied upon to deliver a highly productive and efficient performance, without burdening the environment through its sustainable operation.

Key features

■ Powerfull and sustainable

■ Auto idle system

■ ECO mode and ECO control system

■ Larger lifting capacity

■ Auto Shut-down – fuel saving for carbon dioxide reduction

■ Environmentally friendly design



COMFORT

After listening to the needs of operators and customers all around the world, Hitachi has made several significant improvements to the cab of its new ZAXIS excavators. Our ultimate aim was to create a safe and spacious working environment, making long shifts on the job site easier and more enjoyable. With user-friendly controls, excellent all-round visibility and more leg room, the new ZAXIS 85USB will exceed your expectations.



Enjoy your working day in the cab of the ZAXIS 85USB



From the comfort of the cab

After a long shift on a road construction site or in the quarry, you need to feel ready to enjoy the rest of your day. Hitachi has taken the lead in operator comfort with the new ZAXIS 85USB, so that you can do just that.

The fully adjustable air-suspension seat features a new sliding mechanism with the capacity to be moved back further than ever before. The space underneath the monitor has also been expanded to allow for more leg room. The pressurized cab keeps dust and particles from entering.

All-round visibility

Busy construction sites demand your full attention to avoid unnecessary damage or health and safety issues. The enhanced visibility – especially down the right-hand side of the new ZAXIS – will also save you time (and money), thanks to the latest innovations from Hitachi. The glass door provides a high level of visibility, which is particularly beneficial when the boom is in the offset position.

The repositioning of the monitor and door enhances your view, as well as making access to and from the cab much easier. The latest rear-view camera offers a closer view of the counterweight to minimise the blind spot.

User-friendly functionality

Hitachi has invested heavily in the advanced technology inherent within the new ZAXIS. The power remains firmly at your fingertips thanks to the functionality of the colour monitor and ergonomic controls.

The new multi-function LCD monitor has a large seven-inch screen that is easy to view. It provides a wide range of useful technical information, including a clear indication of the machine's status and settings with multi-lingual support in up to 32 languages. The monitor and ergonomically designed switches have been grouped together within easy reach of your right hand. The proportional switch in the new, optional, auxiliary function lever allows easy control of the front attachment.

Enjoy your work

Time flies when you're having fun, but we also realise that a happy operator is also a more productive one. That's why we have renewed our focus on providing a relaxed and enjoyable working environment within the cab. The controls for the AM/FM stereo radio are now fully adjustable from the colour monitor. An auxiliary terminal is also available, so that you can work efficiently and smoothly to your favourite music via devices such as MP3 players and the inclusion of storage for an MP3 player.

Key features

- High-spec ROPS pressurised cab
- Enhanced visibility
- New colour LCD monitor
- Easily accessible real-time information

- Expansive leg room
- Ergonomically designed control panel
- Auxiliary terminal and storage for an MP3 player



DURABILITY

The new ZAXIS 85USB is the result of continuous development by Hitachi and features the latest technological advancements, designed to ensure its reliability and durability. It benefits from several decades of engineering expertise, which has been gained in manufacturing high-quality construction equipment for customers around the world. Hitachi customers can rely on the durability of their machines to keep them working in even the most challenging conditions.



A machine you can rely on in the toughest working conditions



Durable parts

The new ZAXIS 85USB is capable of operating in the most difficult working environments thanks to a variety of durable parts. High levels of availability and productivity are important on challenging job sites and the ZAXIS 85USB can provide you with both. Ultimately, this gives you a lower cost of ownership and the peace of mind that Hitachi excavators are proven to be among the most reliable on the market.

The reinforced handles on the covers are just one example of the enhanced durability of the ZAXIS 85USB. Furthermore, it has a filter-type, high-performance water separator provided as standard. This captures any moisture, even from fuel containing a relatively large proportion of water.

Durable engine

In compliance with the current EU emission regulations, the ZAXIS 85USB has been equipped with a reliable Stage IIIA engine*. It integrates traditional technologies and components, which have been developed using the engineering expertise for which Hitachi is renowned.

Reinforced mainframe

The proven D-section frame skirt has now been added to the right-hand side of the mainframe on the ZAXIS 85USB. On the left-hand side, a highly durable steel bar has been added instead of the D-section frame. This is protected by a steel cover, so that it resembles the D-section frame.

ROPS-compliant cab

The ISO-standard ROPS-compliant CRES II (centre pillar reinforced structure) cab is designed to keep the operator safe on the job site. In the unlikely event of the machine tipping or rolling over, for example, the Roll-over Protective Structure (ROPS) of the cab aims to protect the occupant from potential harm.

* The engine of the new ZX85USB-5A is outside the scope of EU stage IIIB emission regulation.

Key features

- Proven Hitachi quality
- More than 40 years of expertise
- Reliable fuel system
- Reinforced handles and mainframe



MAINTENANCE

Carrying out routine maintenance is essential for the optimum performance of any Hitachi excavator. After considering the needs of our customers, Hitachi engineers designed the new ZAXIS 85USB with several features that make daily checks, cleaning and servicing easier than ever. Some items have been repositioned for your convenience, and access to others has been improved, so the maintenance process is more simple and faster than ever before. This gives you more time to focus on the work you enjoy.



User-friendly features help you to get the most from your machine



Easy access

The new ZAXIS range of medium excavators has been built with a variety of convenient features designed to make your working day run smoothly. These time-saving improvements will ensure that you can carry out routine maintenance with minimum disruption to daily operations.

For example, a new electric fuel-refilling unit with filter has been installed to enable the excavator to be filled quickly and easily using an electric pump from a drum can. The in-built filter prevents any impurities from the drum entering the machine during refueling.

From ground level, the fuel filters, engine oil filter and air cleaner are all easily accessible for checking and replacing when necessary. The filters and water separator are now conveniently positioned in close proximity to one another. Access to the upper structure of the machine has also improved thanks to the non-slip steps.

Any severe blockages of the radiator can be cleared by blowing air through the convenient openable cover.

Easy cleaning

It's evident that routine maintenance optimises the productivity and availability of our machines – and the easier it is to carry out, the better it is for our customers. That's the reason why we have designed the ZAXIS 85USB with a series of convenient and quick solutions for easy cleaning and servicing.

The dust-proof indoor filter, for example, has been placed on the outside of the air conditioning condenser and fuel cooler, and away from the fan so that dust and particles can be caught evenly without them collecting in one place. The cooling package has been placed in parallel, to allow for easier maintenance.

Key features

- Global e-Service
- Daily checks from ground level
- Electric fuel-refilling unit
- Quick and easy service access

- Easier cleaning of the cooling package
- Dust proof indoor filter



SUPPORT CHAIN

As soon as you become a Hitachi customer, you can rely on first-class after-sales service from your authorised dealer. Hitachi provides extensive support to each of the dealers within the European network, so that they can ensure your ZAXIS 85USB continues to meet your requirements and exceed expectations. To further protect your investment in Hitachi construction machinery, we have introduced the Hitachi Support Chain after-sales programme. This gives you the flexibility to create a tailor-made service plan from the the following key-areas, “links” in the chain of service available from Hitachi via your local dealer.



A flexible after-sales programme created to protect your investment

Global e-Service

The new ZAXIS excavator is equipped with a GPRS communication system*. This sends a wide range of machine data to the Hitachi main server. Via the Global e-Service database, you will have remote access to all of this data. All you need is an internet connection and your Global e-Service log-in details.

Global e-Service enables you and your dealer to download and share this data, helping you to remotely manage your fleet. The online facility also helps your dealer to proactively advise you on preventive maintenance and related special offers.

The latest information on the ZAXIS excavator is available 24/7 and includes operational data, such as the number of working hours, fuel consumption figures, working modes and location. This helps you to reduce running costs, plan jobs efficiently and keep up to date with machine maintenance – to ensure optimum performance and minimal downtime.

Technical support

The professional and highly trained Hitachi service team combines the global expertise and knowledge of Hitachi Construction Machinery with your local language and culture. We take a proactive approach towards customer service by continuously training our dealer personnel, so that the available global knowledge is passed on to each individual technician in our dealer network.

Extended warranty and service contracts

Every new Hitachi model is covered by a full manufacturer's warranty. However, your ZAXIS excavator may require extra protection due to severe working conditions or to minimise equipment repair costs. To meet these demands, our dealers offer the option of a unique extended warranty programme (HELP – Hitachi Extended Life Program) and comprehensive service contracts – the most effective way to optimise the performance of your new ZAXIS excavator.

Parts and Remanufactured Components

Hitachi offers different lines of parts and components to suit your specific needs. In addition to our range of genuine parts, there are other options available:

- If your machines have been working for several years, Hitachi can offer a second line of genuine parts as an attractively priced solution.
- For that highly demanding application or climate, Hitachi provides a line of parts with extra performance.
- When you are looking for an economical solution for preventive replacements, remanufactured components are the best option.

Whatever choice you make, you can be assured of the renowned Hitachi quality and warranty to give you added peace of mind.

Your Hitachi dealer can supply you with more details on each of the above parts lines.



* The GPRS communication system is standard equipment for new ZAXIS excavators, however, the availability of the communication system depends on licensing regulations in your country. Please contact your Hitachi dealer for more information or to apply for a Global e-Service account.

Key features

- Check each of your machines from your office – 24/7
- Have a remote insight into fuel consumption
- Check the current and previous locations and movements of your machine(s)
- See maintenance status and items due for renewal on each of your machines
- Receive e-mail notifications for any machine alerts, unexpected movements and so on

SPECIFICATIONS

ENGINE

| | |
|---------------------------|---|
| Model | Yanmar 4TNV94L |
| Type | 4-cycle water-cooled, direct injection |
| No. of cylinders | 4 |
| Rated power | |
| ISO 9249, net | 34.1 kW (45.7 HP) at 2 000 min ⁻¹ (rpm) |
| EEC 80/1269, net | 34.1 kW (45.7 HP) at 2 000 min ⁻¹ (rpm) |
| SAE J1349, net | 34.1 kW (45.7 HP) at 2 000 min ⁻¹ (rpm) |
| Maximum torque | 204.1 Nm (20.8 kgfm) at 1 000 min ⁻¹ (rpm) |
| Piston displacement | 3.053 L |
| Bore and stroke | 94 mm x 110 mm |
| Batteries | 2 x 12 V / 52 Ah |

HYDRAULIC SYSTEM

Hydraulic Pumps

| | |
|------------------------|--|
| Main pumps | 3 variable displacement axial piston pumps |
| Maximum oil flow | 2 x 72 L/min |
| | 1 x 56 L/min |
| Pilot pump | 1 gear pump |
| Maximum oil flow | 20.0 L/min |

Hydraulic Motors

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

Relief Valve Settings

| | |
|-------------------------|-------------------------------------|
| Implement circuit | 26.0 MPa (265 kgf/cm ²) |
| Swing circuit | 26.5 MPa (270 kgf/cm ²) |
| Travel circuit | 31.4 MPa (320 kgf/cm ²) |
| Pilot circuit | 3.9 MPa (40 kgf/cm ²) |

Hydraulic Cylinders

| | Quantity | Bore | Rod diameter | Stroke |
|-------------|----------|--------|--------------|--------|
| Boom | 1 | 115 mm | 65 mm | 885 mm |
| Arm | 1 | 95 mm | 60 mm | 900 mm |
| Bucket | 1 | 85 mm | 55 mm | 730 mm |
| Blade | 1 | 120 mm | 70 mm | 145 mm |
| Boom swing | 1 | 110 mm | 60 mm | 563 mm |
| Positioning | 2 | 110 mm | 60 mm | 432 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 | 10.5 min ⁻¹ (rpm) |
| Swing torque | 16 kNm |

Operator's Cab

Independent spacious cab, 1 065 mm wide by 1 655 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 and shoes on Each Side

| | |
|---------------------|----|
| Upper roller | 1 |
| Lower rollers | 5 |
| Track shoes | 40 |

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 5.0 km/h |
| | Low : 0 to 3.1 km/h |

Maximum traction force ... 71 kN

Gradeability

70% (35 degree) continuous

SOUND LEVEL

| | |
|--|--------------|
| Sound level in cab according to ISO 6396 | LpA 72 dB(A) |
| External sound level according to ISO 6395 and EU Directive 2000/14/EC | LwA 97 dB(A) |

SERVICE REFILL CAPACITIES

| | |
|---------------------------------|---------|
| Fuel tank | 120.0 L |
| Engine coolant | 7.0 L |
| Engine oil | 12.3 L |
| Travel device (each side) | 1.2 L |
| Hydraulic system | 100.0 L |
| Hydraulic oil tank | 56.0 L |

WEIGHTS AND GROUND PRESSURE

Operating Weight and Ground Pressure

Monoblock boom

| Shoe type | Shoe width | Arm length | kg | kPa(kgf/cm ²) |
|------------------|------------|------------|-------|---------------------------|
| Grouser shoe | 450 mm | 1.62 m | 8 430 | 37 (0.38) |
| | | 2.12 m | 8 470 | 37 (0.38) |
| | 600 mm | 1.62 m | 8 610 | 28 (0.29) |
| | | 2.12 m | 8 650 | 28 (0.29) |
| Rubber shoe | 450 mm | 1.62 m | 8 460 | 37 (0.38) |
| | | 2.12 m | 8 500 | 37 (0.38) |
| Pad crawler shoe | 450 mm | 1.62 m | 8 480 | 37 (0.38) |
| | | 2.12 m | 8 520 | 37 (0.38) |

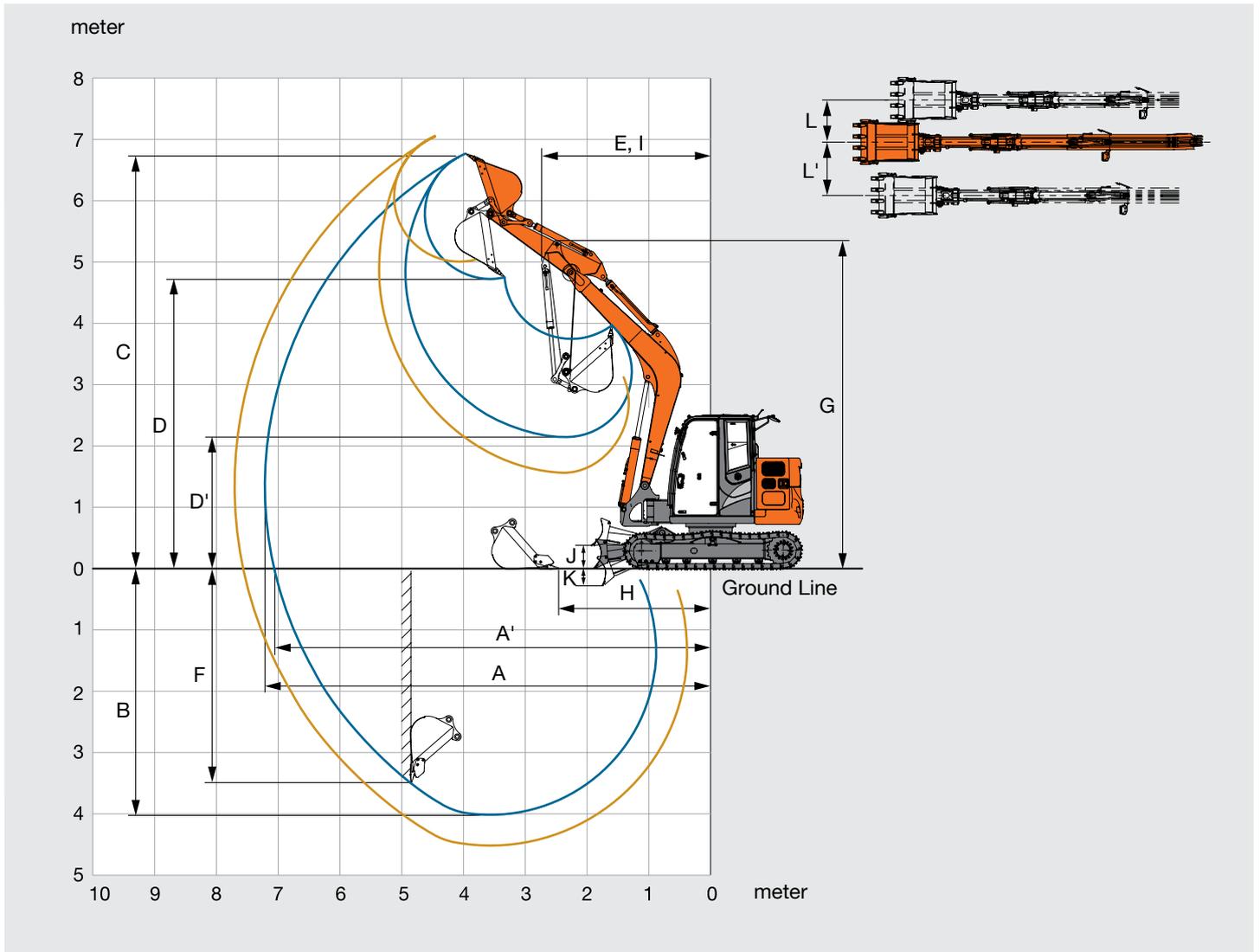
Including 0.28 m³ (ISO heaped) bucket weight (211 kg).

2-Piece boom

| Shoe type | Shoe width | Arm length | kg | kPa(kgf/cm ²) |
|------------------|------------|------------|-------|---------------------------|
| Grouser shoe | 450 mm | 1.62 m | 8 850 | 39 (0.40) |
| | | 2.12 m | 8 890 | 39 (0.40) |
| | 600 mm | 1.62 m | 9 030 | 30 (0.30) |
| | | 2.12 m | 9 060 | 30 (0.30) |
| Rubber shoe | 450 mm | 1.62 m | 8 880 | 39 (0.40) |
| | | 2.12 m | 8 910 | 39 (0.40) |
| Pad crawler shoe | 450 mm | 1.62 m | 8 900 | 39 (0.40) |
| | | 2.12 m | 8 940 | 39 (0.40) |

Including 0.28 m³ (ISO heaped) bucket weight (211 kg).

WORKING RANGES: MONOBLOCK BOOM



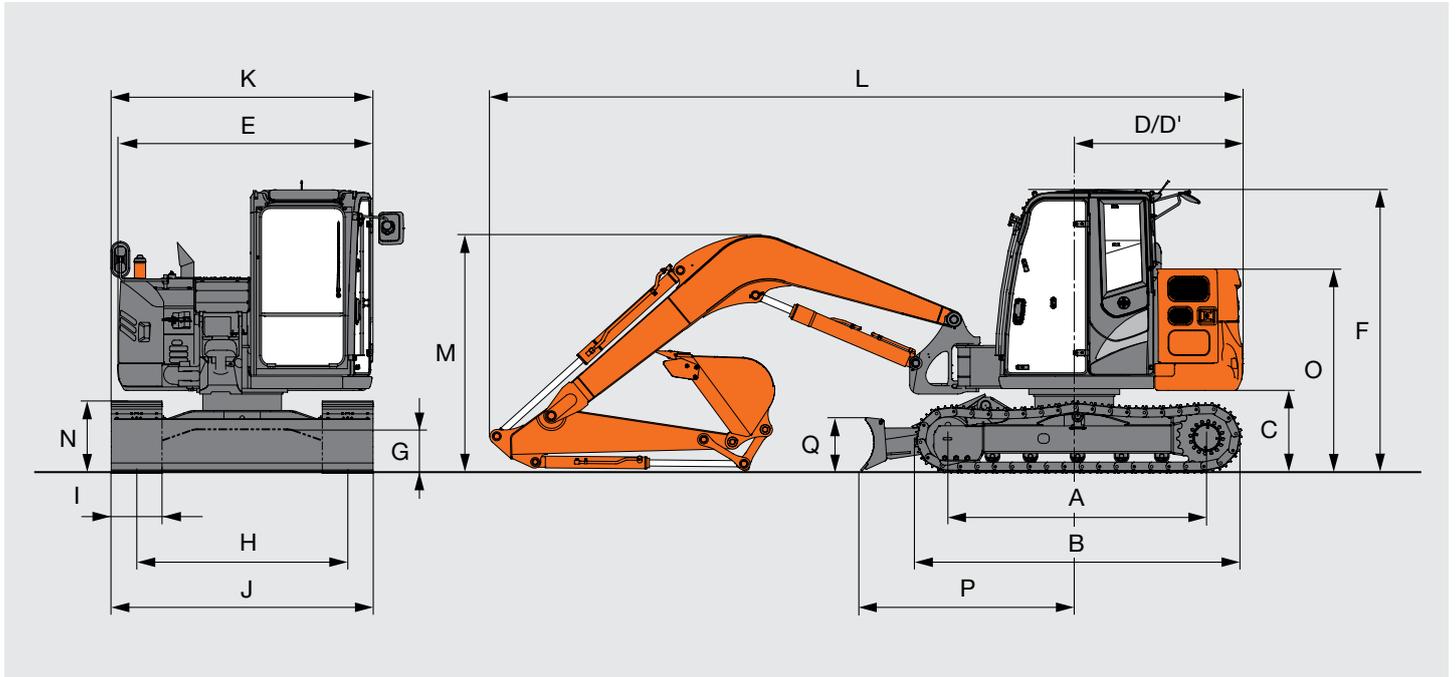
Unit: mm

| Arm length | 1.62 m | 2.12 m |
|---|---------------|---------------|
| A Max. digging reach | 7 210 | 7 700 |
| A' Max. digging reach (on ground) | 7 060 | 7 560 |
| B Max. digging depth | 3 990 | 4 510 |
| C Max. cutting height | 6 790 | 7 140 |
| D Max. dumping height | 4 770 | 5 080 |
| D' Min. dumping height | 2 130 | 1 670 |
| E Min. swing radius | 2 740 | 2 890 |
| F Max. vertical wall | 3 470 | 4 050 |
| G Front height at Min. swing radius | 5 370 | 5 400 |
| H Min. level crowding distance | 2 470 | 2 310 |
| I Working radius at Min. swing radius (Max. boom-swing angle) | - | - |
| J Blade bottom highest position above ground | 360 | 360 |
| K Blade bottom lowest position above ground | 300 | 300 |
| L/L' Offset distance (Max. boom-swing angle) | 1 150 / 1 150 | 1 150 / 1 150 |
| Max. boom-swing angle (deg.) | 60 / 60 | 60 / 60 |

Excluding track shoe lug.

SPECIFICATIONS

DIMENSIONS: MONOBLOCK BOOM



Unit: mm

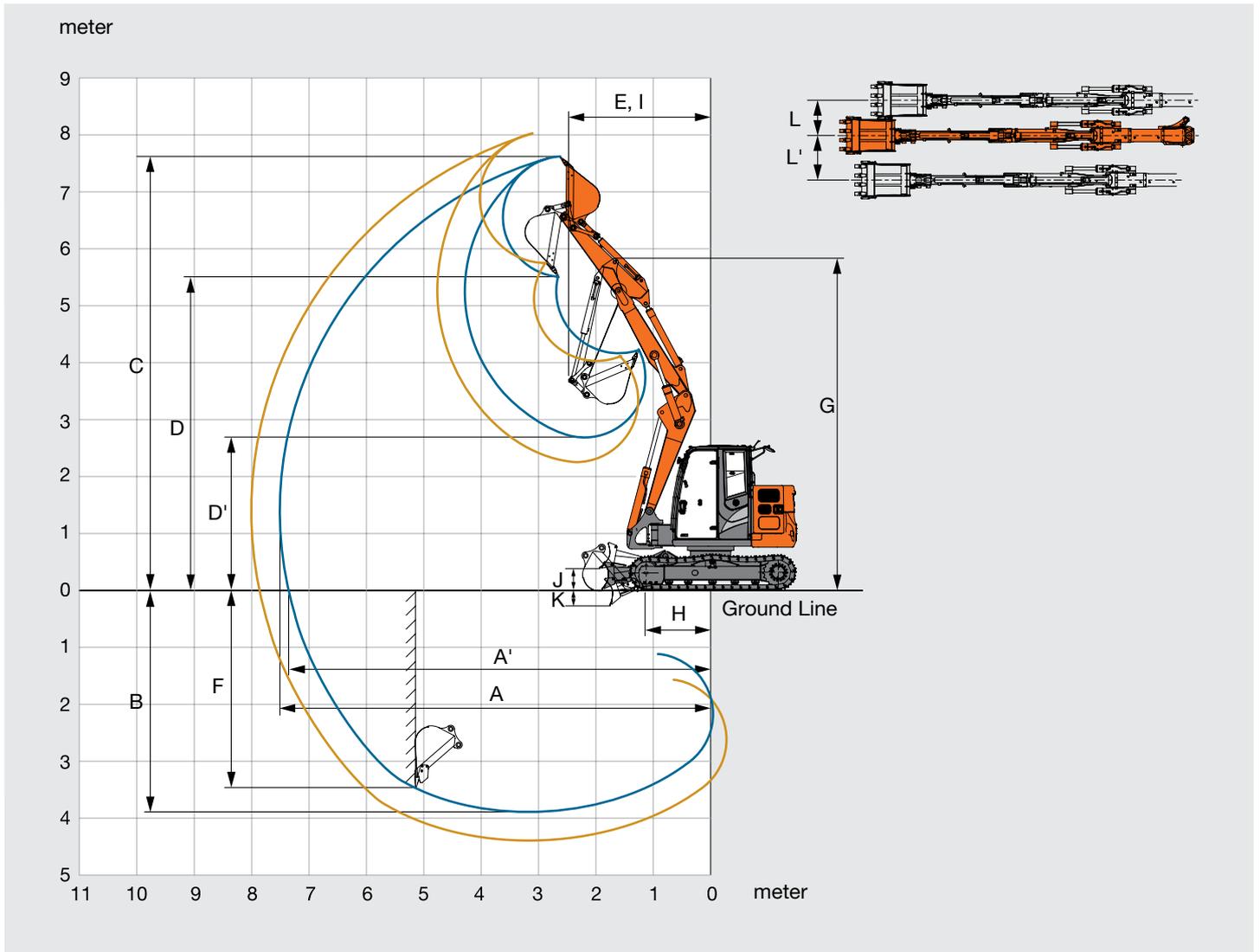
| | ZAXIS 85USB |
|-----------------------------------|-------------|
| A Distance between tumbler | 2 290 |
| B Undercarriage length | 2 920 |
| * C Counterweight clearance | 720 |
| D Rear-end swing radius | 1 490 |
| D' Rear-end length | 1 490 |
| E Overall width of upperstructure | 2 260 |
| F Overall height of cab | 2 530 |
| * G Min. ground clearance | 360 |
| H Track gauge | 1 750 |
| I Track shoe width | 450 |
| J Undercarriage width | 2 200 |
| K Overall width | 2 260 |
| L Overall length | |
| With 1.62 m arm | 6 640 |
| With 2.12 m arm | 6 820 |
| * M Overall height of boom | |
| With 1.62 m arm | 2 610 |
| With 2.12 m arm | 2 610 |
| N Track height | 650 |
| O Engine cover-height | 1 810 |
| P Horizontal distance to blade | 1 880 |
| Q Blade height | 480 |

* Excluding track shoe lug.

BUCKET AND ARM DIGGING FORCE

| Arm length | Monoblock boom | | 2-Piece boom | |
|---------------------------------|---------------------|---------------------|---------------------|---------------------|
| | 1.62 m | 2.12 m | 1.62 m | 2.12 m |
| Bucket digging force ISO | 55.0 kN (5 600 kgf) | | 55.0 kN (5 600 kgf) | |
| Bucket digging force SAE : PCSA | 47.0 kN (4 800 kgf) | | 47.0 kN (4 800 kgf) | |
| Arm crowd force ISO | 38.0 kN (3 900 kgf) | 32.0 kN (3 300 kgf) | 38.0 kN (3 900 kgf) | 32.0 kN (3 300 kgf) |
| Arm crowd force SAE : PCSA | 36.0 kN (3 700 kgf) | 31.0 kN (3 200 kgf) | 36.0 kN (3 700 kgf) | 31.0 kN (3 200 kgf) |

WORKING RANGES: 2-PIECE BOOM



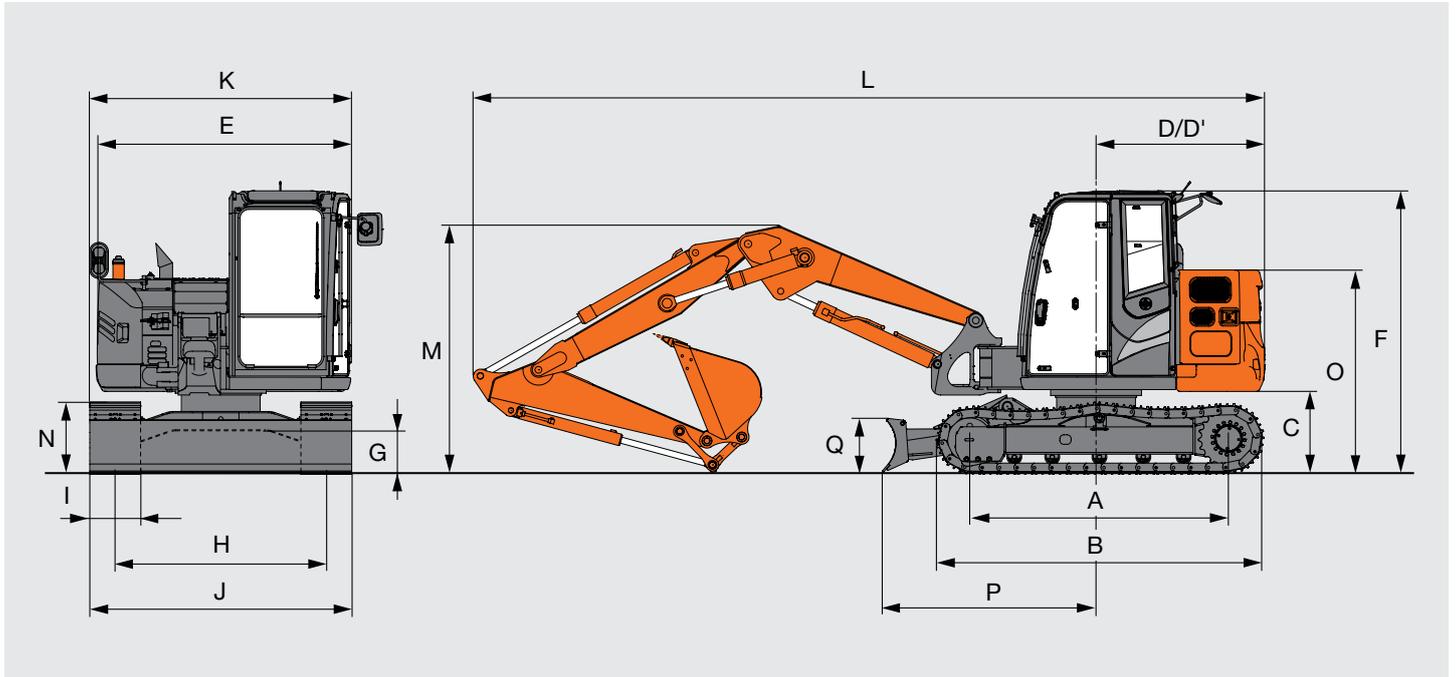
Unit: mm

| Arm length | 1.62 m | 2.12 m |
|---|---------------|---------------|
| A Max. digging reach | 7 510 | 8 000 |
| A' Max. digging reach (on ground) | 7 360 | 7 860 |
| B Max. digging depth | 3 910 | 4 410 |
| C Max. cutting height | 7 600 | 8 060 |
| D Max. dumping height | 5 490 | 5 940 |
| D' Min. dumping height | 2 670 | 2 320 |
| E Min. swing radius | 2 480 | 2 910 |
| F Max. vertical wall | 3 440 | 3 940 |
| G Front height at Min. swing radius | 5 810 | 5 830 |
| H Min. level crowding distance | 1 150 | 750 |
| I Working radius at Min. swing radius (Max. boom-swing angle) | - | - |
| J Blade bottom highest position above ground | 360 | 360 |
| K Blade bottom lowest position above ground | 300 | 300 |
| L/L' Offset distance (Max. boom-swing angle) | 1 150 / 1 150 | 1 150 / 1 150 |
| Max. boom-swing angle (deg.) | 60 / 60 | 60 / 60 |

Excluding track shoe lug.

SPECIFICATIONS

DIMENSIONS: 2-PIECE BOOM



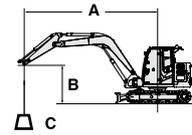
Unit: mm

| | ZAXIS 85USB |
|-----------------------------------|-------------|
| A Distance between tumblers | 2 290 |
| B Undercarriage length | 2 920 |
| * C Counterweight clearance | 720 |
| D Rear-end swing radius | 1 490 |
| D' Rear-end length | 1 490 |
| E Overall width of upperstructure | 2 260 |
| F Overall height of cab | 2 530 |
| * G Min. ground clearance | 360 |
| H Track gauge | 1 750 |
| I Track shoe width | 450 |
| J Undercarriage width | 2 200 |
| K Overall width | 2 260 |
| L Overall length | |
| With 1.62 m arm | 6 990 |
| With 2.12 m arm | 7 040 |
| * M Overall height of boom | |
| With 1.62 m arm | 2 690 |
| With 2.12 m arm | 2 750 |
| N Track height | 650 |
| O Engine cover-height | 1 810 |
| P Horizontal distance to blade | 1 880 |
| Q Blade height | 480 |

* Excluding track shoe lug.

LIFTING CAPACITIES

- Notes: 1. Ratings are based on ISO 10567.
 2. Lifting capacity does not exceed 75% of tipping load with the machine on firm, level ground or 87% full hydraulic capacity.
 3. The load point is the center-line of the bucket pivot mounting pin on the arm.
 4. *Indicates load limited by hydraulic capacity.
 5. 0 m = Ground.



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

For lifting capacities, subtract bucket and quick hitch weight from lifting capacities without bucket.

ZAXIS 85USB Monoblock boom, Blade above Ground

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

| Conditions | Load point height m | Load radius | | | | | | | | | | At max. reach | | |
|------------------------|---------------------|-------------|--------|--------|--------|--------|-------|-------|-------|-------|-------|---------------|-------|-------|
| | | 2.0 m | | 3.0 m | | 4.0 m | | 5.0 m | | 6.0 m | | | | meter |
| | | | | | | | | | | | | | | |
| Boom 3.67 m | 4 | | | | | *2 180 | 1 990 | 1 680 | 1 410 | | | 1 480 | 1 240 | 5.41 |
| Arm 1.62 m | 3 | | | *3 580 | 2 930 | 2 320 | 1 910 | 1 650 | 1 380 | | | 1 290 | 1 080 | 5.88 |
| Counterweight 1 400 kg | 2 | | | | | 2 210 | 1 810 | 1 600 | 1 330 | 1 230 | 1 020 | 1 200 | 1 000 | 6.11 |
| Grouser shoe 450 mm | 1 | | | | | 2 120 | 1 720 | 1 560 | 1 280 | 1 210 | 1 000 | 1 170 | 970 | 6.14 |
| | 0 (Ground) | | | *2 280 | *2 280 | 2 080 | 1 680 | 1 520 | 1 250 | | | 1 200 | 1 000 | 5.97 |
| | -1 | *2 750 | *2 750 | 3 230 | 2 540 | 2 070 | 1 670 | 1 510 | 1 240 | | | 1 320 | 1 090 | 5.57 |
| | -2 | | | 3 270 | 2 570 | 2 090 | 1 690 | | | | | 1 590 | 1 300 | 4.89 |

ZAXIS 85USB Monoblock boom, Blade on Ground

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

| Conditions | Load point height m | Load radius | | | | | | | | | | At max. reach | | |
|------------------------|---------------------|-------------|--------|--------|--------|--------|-------|--------|-------|--------|-------|---------------|-------|-------|
| | | 2.0 m | | 3.0 m | | 4.0 m | | 5.0 m | | 6.0 m | | | | meter |
| | | | | | | | | | | | | | | |
| Boom 3.67 m | 4 | | | | | *2 180 | 1 990 | *2 040 | 1 410 | | | *1 920 | 1 240 | 5.41 |
| Arm 1.62 m | 3 | | | *3 580 | 2 930 | *2 590 | 1 910 | *2 190 | 1 380 | | | *1 920 | 1 070 | 5.88 |
| Counterweight 1 400 kg | 2 | | | | | *3 150 | 1 810 | *2 430 | 1 330 | *2 070 | 1 020 | *2 000 | 1 000 | 6.11 |
| Grouser shoe 450 mm | 1 | | | | | *3 560 | 1 720 | *2 630 | 1 250 | *2 140 | 1 000 | *2 080 | 970 | 6.14 |
| | 0 (Ground) | | | *2 280 | *2 280 | *3 650 | 1 680 | *2 710 | 1 240 | | | *2 120 | 1 000 | 5.97 |
| | -1 | *2 750 | *2 750 | *4 430 | 2 540 | *3 440 | 1 670 | *2 570 | | | | *2 150 | 1 090 | 5.58 |
| | -2 | | | *3 890 | 2 570 | *2 900 | 1 690 | | | | | *2 130 | 1 300 | 4.89 |

ZAXIS 85USB Monoblock boom, Blade above Ground

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

| Conditions | Load point height m | Load radius | | | | | | | | | | At max. reach | | |
|------------------------|---------------------|-------------|--------|--------|--------|--------|-------|-------|-------|-------|-------|---------------|-------|-------|
| | | 2.0 m | | 3.0 m | | 4.0 m | | 5.0 m | | 6.0 m | | | | meter |
| | | | | | | | | | | | | | | |
| Boom 3.67 m | 5 | | | | | | | 1 700 | 1 420 | | | 1 550 | 1 300 | 5.29 |
| Arm 2.12 m | 4 | | | | | | | 1 700 | 1 420 | | | 1 270 | 1 060 | 5.98 |
| Counterweight 1 400 kg | 3 | | | | | *2 240 | 1 940 | 1 660 | 1 390 | 1 250 | 1 040 | 1 130 | 940 | 6.39 |
| Grouser shoe 450 mm | 2 | | | | | 2 240 | 1 830 | 1 610 | 1 330 | 1 230 | 1 020 | 1 060 | 880 | 6.61 |
| | 1 | | | | | 2 130 | 1 730 | 1 550 | 1 280 | 1 200 | 990 | 1 030 | 860 | 6.63 |
| | 0 (Ground) | | | *2 440 | *2 440 | 2 060 | 1 670 | 1 510 | 1 240 | 1 170 | 970 | 1 060 | 870 | 6.48 |
| | -1 | *2 220 | *2 220 | 3 170 | 2 490 | 2 040 | 1 640 | 1 490 | 1 220 | 1 160 | 960 | 1 140 | 940 | 6.12 |
| | -2 | *3 710 | *3 710 | 3 200 | 2 510 | 2 040 | 1 650 | 1 490 | 1 220 | | | 1 310 | 1 080 | 5.52 |
| | -3 | | | 3 260 | 2 570 | 2 080 | 1 690 | | | | | 1 740 | 1 430 | 4.55 |

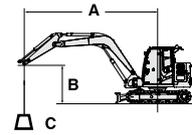
ZAXIS 85USB Monoblock boom, Blade on Ground

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

| Conditions | Load point height m | Load radius | | | | | | | | | | At max. reach | | |
|------------------------|---------------------|-------------|--------|--------|--------|--------|-------|--------|-------|--------|-------|---------------|-------|-------|
| | | 2.0 m | | 3.0 m | | 4.0 m | | 5.0 m | | 6.0 m | | | | meter |
| | | | | | | | | | | | | | | |
| Boom 3.67 m | 5 | | | | | | | *1 780 | 1 420 | | | *1 650 | 1 300 | 5.29 |
| Arm 2.12 m | 4 | | | | | | | *1 780 | 1 420 | | | *1 550 | 1 060 | 5.98 |
| Counterweight 1 400 kg | 3 | | | | | *2 240 | 1 940 | *1 960 | 1 390 | *1 820 | 1 040 | *1 540 | 940 | 6.39 |
| Grouser shoe 450 mm | 2 | | | | | *2 830 | 1 840 | *2 240 | 1 330 | *1 930 | 1 020 | *1 590 | 880 | 6.61 |
| | 1 | | | | | *3 360 | 1 730 | *2 500 | 1 280 | *2 050 | 990 | *1 700 | 860 | 6.63 |
| | 0 (Ground) | | | *2 440 | *2 440 | *3 610 | 1 670 | *2 660 | 1 240 | *2 110 | 970 | *1 890 | 870 | 6.48 |
| | -1 | *2 220 | *2 220 | *3 760 | 2 490 | *3 560 | 1 640 | *2 640 | 1 220 | *2 020 | 960 | *1 940 | 940 | 6.12 |
| | -2 | *3 710 | *3 710 | *4 490 | 2 510 | *3 200 | 1 650 | *2 360 | 1 220 | | | *1 960 | 1 080 | 5.52 |
| | -3 | | | *3 310 | 2 570 | *2 370 | 1 690 | | | | | *1 870 | 1 430 | 4.55 |

LIFTING CAPACITIES

- Notes:
1. Ratings are based on ISO 10567.
 2. Lifting capacity does not exceed 75% of tipping load with the machine on firm, level ground or 87% full hydraulic capacity.
 3. The load point is the center-line of the bucket pivot mounting pin on the arm.
 4. *Indicates load limited by hydraulic capacity.
 5. 0 m = Ground.



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

For lifting capacities, subtract bucket and quick hitch weight from lifting capacities without bucket.

ZAXIS 85USB 2-Piece boom, Blade above Ground

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

| Conditions | Load point height m | Load radius | | | | | | | | | | At max. reach | | |
|------------------------|---------------------|-------------|--|--------|--------|--------|-------|-------|-------|-------|-----|---------------|-------|-------|
| | | 2.0 m | | 3.0 m | | 4.0 m | | 5.0 m | | 6.0 m | | | | meter |
| | | | | | | | | | | | | | | |
| 2-Piece boom | 5 | | | | | *2 240 | 1 970 | 1 610 | 1 320 | | | 1 600 | 1 310 | 5.02 |
| Arm 1.62 m | 4 | | | *3 000 | *3 000 | 2 340 | 1 910 | 1 610 | 1 320 | | | 1 250 | 1 020 | 5.75 |
| Counterweight 1 400 kg | 3 | | | | | 2 200 | 1 780 | 1 550 | 1 270 | 1 150 | 930 | 1 090 | 880 | 6.19 |
| Grouser shoe 450 mm | 2 | | | | | 2 030 | 1 620 | 1 470 | 1 190 | 1 110 | 900 | 1 000 | 810 | 6.41 |
| | 1 | | | | | 1 900 | 1 500 | 1 400 | 1 120 | 1 080 | 870 | 970 | 780 | 6.44 |
| | 0 (Ground) | | | | | 1 840 | 1 440 | 1 350 | 1 070 | 1 050 | 840 | 990 | 790 | 6.28 |
| | -1 | | | 2 900 | 2 210 | 1 830 | 1 430 | 1 330 | 1 060 | | | 1 070 | 860 | 5.91 |
| | -2 | | | *2 890 | 2 250 | 1 860 | 1 460 | 1 360 | 1 080 | | | 1 270 | 1 020 | 5.28 |

ZAXIS 85USB 2-Piece boom, Blade on Ground

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

| Conditions | Load point height m | Load radius | | | | | | | | | | At max. reach | | |
|------------------------|---------------------|-------------|--|--------|--------|--------|-------|--------|-------|--------|-----|---------------|-------|-------|
| | | 2.0 m | | 3.0 m | | 4.0 m | | 5.0 m | | 6.0 m | | | | meter |
| | | | | | | | | | | | | | | |
| 2-Piece boom | 5 | | | | | *2 240 | 1 970 | *2 050 | 1 320 | | | *1 960 | 1 310 | 5.03 |
| Arm 1.62 m | 4 | | | *3 000 | *3 000 | *2 380 | 1 910 | *2 070 | 1 320 | | | *1 820 | 1 020 | 5.75 |
| Counterweight 1 400 kg | 3 | | | | | *2 760 | 1 780 | *2 210 | 1 270 | *1 910 | 930 | *1 790 | 880 | 6.19 |
| Grouser shoe 450 mm | 2 | | | | | *3 200 | 1 620 | *2 390 | 1 190 | *1 960 | 900 | *1 840 | 810 | 6.41 |
| | 1 | | | | | *3 410 | 1 500 | *2 510 | 1 120 | *1 990 | 870 | *1 810 | 780 | 6.44 |
| | 0 (Ground) | | | | | *3 320 | 1 440 | *2 490 | 1 070 | *1 930 | 840 | *1 770 | 790 | 6.28 |
| | -1 | | | *3 340 | 2 210 | *2 980 | 1 430 | *2 280 | 1 060 | | | *1 700 | 860 | 5.91 |
| | -2 | | | *2 890 | 2 250 | *2 380 | 1 460 | *1 760 | 1 080 | | | *1 530 | 1 020 | 5.28 |

ZAXIS 85USB 2-Piece boom, Blade above Ground

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

| Conditions | Load point height m | Load radius | | | | | | | | | | At max. reach | | |
|------------------------|---------------------|-------------|--|--------|-------|--------|--------|-------|-------|-------|-----|---------------|-------|-------|
| | | 2.0 m | | 3.0 m | | 4.0 m | | 5.0 m | | 6.0 m | | | | meter |
| | | | | | | | | | | | | | | |
| 2-Piece boom | 5 | | | | | *1 950 | *1 950 | 1 680 | 1 390 | | | 1 330 | 1 090 | 5.68 |
| Arm 2.12 m | 4 | | | | | *2 110 | 1 990 | 1 670 | 1 370 | 1 210 | 990 | 1 100 | 900 | 6.32 |
| Counterweight 1 400 kg | 3 | | | *3 420 | 2 940 | 2 300 | 1 870 | 1 600 | 1 320 | 1 190 | 970 | 970 | 790 | 6.71 |
| Grouser shoe 450 mm | 2 | | | | | 2 120 | 1 710 | 1 520 | 1 240 | 1 150 | 930 | 910 | 730 | 6.91 |
| | 1 | | | | | 1 960 | 1 560 | 1 440 | 1 160 | 1 100 | 890 | 880 | 710 | 6.94 |
| | 0 (Ground) | | | | | 1 870 | 1 470 | 1 370 | 1 100 | 1 060 | 850 | 890 | 720 | 6.79 |
| | -1 | | | 2 880 | 2 190 | 1 840 | 1 440 | 1 340 | 1 070 | 1 050 | 840 | 950 | 760 | 6.45 |
| | -2 | | | 2 910 | 2 220 | 1 850 | 1 450 | 1 340 | 1 070 | | | 1 090 | 870 | 5.89 |

ZAXIS 85USB 2-Piece boom, Blade on Ground

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

| Conditions | Load point height m | Load radius | | | | | | | | | | At max. reach | | |
|------------------------|---------------------|-------------|--|--------|-------|--------|--------|--------|-------|--------|-----|---------------|-------|-------|
| | | 2.0 m | | 3.0 m | | 4.0 m | | 5.0 m | | 6.0 m | | | | meter |
| | | | | | | | | | | | | | | |
| 2-Piece boom | 5 | | | | | *1 950 | *1 950 | *1 840 | 1 390 | | | *1 580 | 1 090 | 5.68 |
| Arm 2.12 m | 4 | | | | | *2 110 | 1 990 | *1 890 | 1 370 | *1 760 | 990 | *1 490 | 900 | 6.32 |
| Counterweight 1 400 kg | 3 | | | *3 420 | 2 940 | *2 500 | 1 870 | *2 060 | 1 320 | *1 810 | 970 | *1 470 | 790 | 6.71 |
| Grouser shoe 450 mm | 2 | | | | | *2 990 | 1 710 | *2 280 | 1 240 | *1 900 | 930 | *1 490 | 730 | 6.91 |
| | 1 | | | | | *3 350 | 1 560 | *2 460 | 1 160 | *1 980 | 890 | *1 570 | 710 | 6.94 |
| | 0 (Ground) | | | | | *3 420 | 1 470 | *2 530 | 1 100 | *1 980 | 850 | *1 630 | 720 | 6.79 |
| | -1 | | | *2 880 | 2 190 | *3 220 | 1 440 | *2 420 | 1 070 | *1 850 | 840 | *1 580 | 760 | 6.45 |
| | -2 | | | *3 640 | 2 220 | *2 760 | 1 450 | *2 090 | 1 070 | | | *1 480 | 870 | 5.89 |

ZX85USB-5 Monoblock boom, Blade above Ground
 Rating over-front  Rating over-side or 360 degrees Unit: kg

| Conditions | Load point height m | Load radius | | | | | | | | | | At max. reach | | |
|---------------------------------|---------------------|---|---|---|---|---|---|---|---|---|---|---|---|-------|
| | | 2.0 m | | 3.0 m | | 4.0 m | | 5.0 m | | 6.0 m | |  |  | meter |
| | |  |  |  |  |  |  |  |  |  |  | | | |
| Boom 3.67 m | 5 | | | | | | | | | | | | | |
| Arm 1.62 m | 4 | | | | | *2 180 | *2 180 | 1 870 | 1 569 | | | 1 652 | 1 388 | 5.41 |
| Counterweight 1 400 kg + 370 kg | 3 | | | *3 579 | 3 256 | 2 571 | 2 128 | 1 839 | 1 540 | | | 1 440 | 1 210 | 5.88 |
| Grouser shoe 450 mm | 2 | | | | | 2 461 | 2 025 | 1 789 | 1 492 | 1 375 | 1 153 | 1 341 | 1 124 | 6.11 |
| | 1 | | | | | 2 370 | 1 940 | 1 741 | 1 447 | 1 354 | 1 132 | 1 313 | 1 099 | 6.14 |
| | 0 (Ground) | | | *2 275 | *2 275 | 2 326 | 1 899 | 1 710 | 1 417 | | | 1 352 | 1 129 | 5.97 |
| | -1 | *2 754 | *2 754 | 3 613 | 2 860 | 2 317 | 1 891 | 1 701 | 1 408 | | | 1 478 | 1 231 | 5.57 |
| | -2 | | | 3 651 | 2 895 | 2 338 | 1 910 | | | | | 1 777 | 1 473 | 4.89 |

ZX85USB-5 Monoblock boom, Blade on Ground
 Rating over-front  Rating over-side or 360 degrees Unit: kg

| Conditions | Load point height m | Load radius | | | | | | | | | | At max. reach | | |
|---------------------------------|---------------------|---|---|---|---|---|---|---|---|---|---|---|---|-------|
| | | 2.0 m | | 3.0 m | | 4.0 m | | 5.0 m | | 6.0 m | |  |  | meter |
| | |  |  |  |  |  |  |  |  |  |  | | | |
| Boom 3.67 m | 5 | | | | | | | | | | | | | |
| Arm 1.62 m | 4 | | | | | *2 180 | *2 180 | *2 044 | 1 569 | | | *1 924 | 1 388 | 5.41 |
| Counterweight 1 400 kg + 370 kg | 3 | | | *3 579 | 3 255 | *2 593 | 2 128 | *2 189 | 1 540 | | | *1 915 | 1 209 | 5.88 |
| Grouser shoe 450 mm | 2 | | | | | *3 152 | 2 025 | *2 425 | 1 492 | *2 072 | 1 153 | *1 995 | 1 124 | 6.11 |
| | 1 | | | | | *3 562 | 1 940 | *2 631 | 1 447 | *2 136 | 1 132 | *2 084 | 1 099 | 6.14 |
| | 0 (Ground) | | | *2 275 | *2 275 | *3 650 | 1 898 | *2 705 | 1 417 | | | *2 124 | 1 128 | 5.97 |
| | -1 | *2 754 | *2 754 | *4 430 | 2 860 | *3 443 | 1 891 | *2 572 | 1 408 | | | *2 153 | 1 230 | 5.58 |
| | -2 | | | *3 888 | 2 895 | *2 900 | 1 910 | | | | | *2 126 | 1 472 | 4.89 |

ZX85USB-5 Monoblock boom, Blade above Ground
 Rating over-front  Rating over-side or 360 degrees Unit: kg

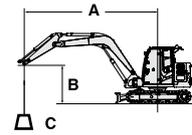
| Conditions | Load point height m | Load radius | | | | | | | | | | At max. reach | | |
|---------------------------------|---------------------|---|---|---|---|---|---|---|---|---|---|---|---|-------|
| | | 2.0 m | | 3.0 m | | 4.0 m | | 5.0 m | | 6.0 m | |  |  | meter |
| | |  |  |  |  |  |  |  |  |  |  | | | |
| Boom 3.67 m | 5 | | | | | | | | | | | | | |
| Arm 2.12 m | 4 | | | | | | | *1 782 | 1 588 | | | *1 647 | 1 450 | 5.29 |
| Counterweight 1 400 kg + 370 kg | 3 | | | | | | | *1 781 | 1 585 | | | 1 419 | 1 193 | 5.98 |
| Grouser shoe 450 mm | 2 | | | | | *2 235 | 2 160 | 1 851 | 1 550 | 1 399 | 1 174 | 1 265 | 1 062 | 6.39 |
| | 1 | | | | | 2 491 | 2 052 | 1 795 | 1 497 | 1 373 | 1 150 | 1 189 | 995 | 6.61 |
| | 0 (Ground) | | | *2 437 | *2 437 | 2 382 | 1 949 | 1 738 | 1 443 | 1 344 | 1 121 | 1 166 | 974 | 6.63 |
| | -1 | *2 217 | *2 217 | 3 559 | 2 809 | 2 288 | 1 862 | 1 674 | 1 382 | 1 311 | 1 090 | 1 280 | 1 066 | 6.12 |
| | -2 | *3 706 | *3 706 | 3 586 | 2 833 | 2 294 | 1 867 | 1 678 | 1 385 | | | 1 477 | 1 226 | 5.52 |
| | -3 | | | *3 307 | 2 890 | 2 335 | 1 906 | | | | | *1 871 | 1 612 | 4.55 |

ZX85USB-5 Monoblock boom, Blade on Ground
 Rating over-front  Rating over-side or 360 degrees Unit: kg

| Conditions | Load point height m | Load radius | | | | | | | | | | At max. reach | | |
|---------------------------------|---------------------|---|---|---|---|---|---|---|---|---|---|---|---|-------|
| | | 2.0 m | | 3.0 m | | 4.0 m | | 5.0 m | | 6.0 m | |  |  | meter |
| | |  |  |  |  |  |  |  |  |  |  | | | |
| Boom 3.67 m | 5 | | | | | | | | | | | | | |
| Arm 2.12 m | 4 | | | | | | | *1 782 | 1 588 | | | *1 647 | 1 450 | 5.29 |
| Counterweight 1 400 kg + 370 kg | 3 | | | | | | | *1 781 | 1 585 | | | *1 552 | 1 193 | 5.98 |
| Grouser shoe 450 mm | 2 | | | | | *2 235 | 2 160 | *1 963 | 1 550 | *1 820 | 1 174 | *1 540 | 1 062 | 6.39 |
| | 1 | | | | | *2 829 | 2 052 | *2 236 | 1 497 | *1 933 | 1 150 | *1 586 | 995 | 6.61 |
| | 0 (Ground) | | | *2 437 | *2 437 | *3 357 | 1 949 | *2 499 | 1 443 | *2 053 | 1 121 | *1 695 | 974 | 6.63 |
| | -1 | *2 217 | *2 217 | *3 760 | 2 809 | *3 556 | 1 862 | *2 639 | 1 382 | *2 018 | 1 090 | *1 942 | 1 066 | 6.12 |
| | -2 | *3 706 | *3 706 | *4 491 | 2 833 | *3 201 | 1 867 | *2 360 | 1 385 | | | *1 958 | 1 226 | 5.52 |
| | -3 | | | *3 307 | 2 890 | *2 373 | 1 906 | | | | | *1 871 | 1 612 | 4.55 |

LIFTING CAPACITIES

- Notes: 1. Ratings are based on ISO 10567.
 2. Lifting capacity does not exceed 75% of tipping load with the machine on firm, level ground or 87% full hydraulic capacity.
 3. The load point is the center-line of the bucket pivot mounting pin on the arm.
 4. *Indicates load limited by hydraulic capacity.
 5. 0 m = Ground.



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

For lifting capacities, subtract bucket and quick hitch weight from lifting capacities without bucket.

ZX85USB-5 2-Piece boom, Blade above Ground

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

| Conditions | Load point height m | Load radius | | | | | | | | | | At max. reach | | |
|---------------------------------|---------------------|-------------|--|--------|--------|--------|-------|-------|-------|-------|-------|---------------|-------|-------|
| | | 2.0 m | | 3.0 m | | 4.0 m | | 5.0 m | | 6.0 m | | | | meter |
| | | | | | | | | | | | | | | |
| 2-Piece boom | 5 | | | | | *2 236 | 2 182 | 1 795 | 1 485 | | | 1 780 | 1 472 | 5.03 |
| Arm 1.62 m | 4 | | | *3 000 | *3 000 | *2 383 | 2 129 | 1 796 | 1 486 | | | 1 408 | 1 162 | 5.75 |
| Counterweight 1 400 kg + 370 kg | 3 | | | | | 2 454 | 2 002 | 1 738 | 1 430 | 1 295 | 1 065 | 1 227 | 1 008 | 6.19 |
| Grouser shoe 450 mm | 2 | | | | | 2 279 | 1 837 | 1 658 | 1 354 | 1 261 | 1 033 | 1 136 | 929 | 6.41 |
| | 1 | | | | | 2 147 | 1 713 | 1 584 | 1 284 | 1 224 | 997 | 1 105 | 900 | 6.44 |
| | 0 (Ground) | | | | | 2 089 | 1 659 | 1 536 | 1 238 | 1 198 | 972 | 1 130 | 917 | 6.28 |
| | -1 | | | 3 279 | 2 531 | 2 080 | 1 651 | 1 520 | 1 223 | | | 1 224 | 992 | 5.91 |
| | -2 | | | *2 886 | 2 575 | 2 106 | 1 676 | 1 541 | 1 243 | | | 1 444 | 1 169 | 5.28 |

ZX85USB-5 2-Piece boom, Blade on Ground

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

| Conditions | Load point height m | Load radius | | | | | | | | | | At max. reach | | |
|---------------------------------|---------------------|-------------|--|--------|--------|--------|-------|--------|-------|--------|-------|---------------|-------|-------|
| | | 2.0 m | | 3.0 m | | 4.0 m | | 5.0 m | | 6.0 m | | | | meter |
| | | | | | | | | | | | | | | |
| 2-Piece boom | 5 | | | | | *2 236 | 2 182 | *2 045 | 1 485 | | | *1 957 | 1 472 | 5.03 |
| Arm 1.62 m | 4 | | | *3 000 | *3 000 | *2 383 | 2 129 | *2 065 | 1 486 | | | *1 821 | 1 162 | 5.75 |
| Counterweight 1 400 kg + 370 kg | 3 | | | | | *2 760 | 2 002 | *2 206 | 1 430 | *1 911 | 1 065 | *1 793 | 1 008 | 6.19 |
| Grouser shoe 450 mm | 2 | | | | | *3 196 | 1 837 | *2 389 | 1 354 | *1 964 | 1 033 | *1 838 | 929 | 6.41 |
| | 1 | | | | | *3 413 | 1 713 | *2 510 | 1 284 | *1 993 | 997 | *1 809 | 900 | 6.44 |
| | 0 (Ground) | | | | | *3 318 | 1 659 | *2 492 | 1 238 | *1 927 | 972 | *1 771 | 917 | 6.28 |
| | -1 | | | *3 338 | 2 531 | *2 983 | 1 651 | *2 282 | 1 223 | | | *1 699 | 992 | 5.91 |
| | -2 | | | *2 886 | 2 575 | *2 379 | 1 676 | *1 759 | 1 243 | | | *1 529 | 1 169 | 5.28 |

ZX85USB-5 2-Piece boom, Blade above Ground

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

| Conditions | Load point height m | Load radius | | | | | | | | | | At max. reach | | |
|---------------------------------|---------------------|-------------|--|--------|-------|--------|--------|--------|-------|-------|-------|---------------|-------|-------|
| | | 2.0 m | | 3.0 m | | 4.0 m | | 5.0 m | | 6.0 m | | | | meter |
| | | | | | | | | | | | | | | |
| 2-Piece boom | 5 | | | | | *1 948 | *1 948 | *1 843 | 1 556 | | | 1 487 | 1 234 | 5.68 |
| Arm 2.12 m | 4 | | | | | *2 112 | *2 112 | 1 851 | 1 538 | 1 358 | 1 126 | 1 235 | 1 021 | 6.32 |
| Counterweight 1 400 kg + 370 kg | 3 | | | *3 420 | 3 264 | *2 499 | 2 088 | 1 790 | 1 480 | 1 336 | 1 104 | 1 100 | 905 | 6.71 |
| Grouser shoe 450 mm | 2 | | | | | 2 372 | 1 924 | 1 706 | 1 400 | 1 294 | 1 064 | 1 029 | 843 | 6.91 |
| | 1 | | | | | 2 215 | 1 777 | 1 622 | 1 320 | 1 248 | 1 020 | 1 004 | 819 | 6.94 |
| | 0 (Ground) | | | | | 2 124 | 1 692 | 1 560 | 1 261 | 1 212 | 985 | 1 020 | 830 | 6.79 |
| | -1 | | | *2 877 | 2 514 | 2 089 | 1 660 | 1 529 | 1 231 | 1 194 | 967 | 1 087 | 883 | 6.45 |
| | -2 | | | 3 294 | 2 546 | 2 095 | 1 666 | 1 528 | 1 231 | | | 1 237 | 1 004 | 5.89 |

ZX85USB-5 2-Piece boom, Blade on Ground

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

| Conditions | Load point height m | Load radius | | | | | | | | | | At max. reach | | |
|---------------------------------|---------------------|-------------|--|--------|-------|--------|--------|--------|-------|--------|-------|---------------|-------|-------|
| | | 2.0 m | | 3.0 m | | 4.0 m | | 5.0 m | | 6.0 m | | | | meter |
| | | | | | | | | | | | | | | |
| 2-Piece boom | 5 | | | | | *1 948 | *1 948 | *1 843 | 1 556 | | | *1 583 | 1 234 | 5.68 |
| Arm 2.12 m | 4 | | | | | *2 112 | *2 112 | *1 890 | 1 538 | *1 756 | 1 126 | *1 489 | 1 021 | 6.32 |
| Counterweight 1 400 kg + 370 kg | 3 | | | *3 420 | 3 264 | *2 499 | 2 088 | *2 060 | 1 480 | *1 807 | 1 104 | *1 465 | 905 | 6.71 |
| Grouser shoe 450 mm | 2 | | | | | *2 991 | 1 924 | *2 282 | 1 400 | *1 900 | 1 064 | *1 491 | 843 | 6.91 |
| | 1 | | | | | *3 348 | 1 777 | *2 464 | 1 320 | *1 977 | 1 020 | *1 568 | 819 | 6.94 |
| | 0 (Ground) | | | | | *3 416 | 1 692 | *2 526 | 1 261 | *1 983 | 985 | *1 627 | 830 | 6.79 |
| | -1 | | | *2 877 | 2 514 | *3 216 | 1 660 | *2 420 | 1 231 | *1 853 | 967 | *1 583 | 883 | 6.45 |
| | -2 | | | *3 635 | 2 546 | *2 758 | 1 666 | *2 085 | 1 231 | | | *1 483 | 1 004 | 5.89 |

EQUIPMENT

● Standard equipment ○ Optional equipment

ENGINE

| | |
|--|---|
| Air cleaner double filters | ● |
| Auto idle system | ● |
| Cartridge-type engine oil filter | ● |
| Cartridge-type fuel filter | ● |
| Dry-type air filter with evacuator valve (with air filter restriction indicator) | ● |
| Electric fuel refilling pump | ● |
| Fan guard | ● |
| Fuel main filter | ● |
| PWR/ECO mode control | ● |
| Radiator reserve tank | ● |
| Radiator, oil cooler with dust-proof indoor net | ● |
| Water-separator for engine fuel | ● |
| 60 A alternator | ● |

HYDRAULIC SYSTEM

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

CAB

| | |
|-------------------------------------|---|
| Air suspension seat with heater | ● |
| AM/FM radio | ● |
| Anti-slip plate | ● |
| Armrests | ● |
| Ashtray | ● |
| Auto control air conditioner | ● |
| Auxiliary function lever (AFL) | ○ |
| AUX. terminal and storage | ● |
| Defroster | ● |
| Drink holder | ● |
| Electric horn | ● |
| Floor mat | ● |
| Glove compartment | ● |
| Rain guard | ○ |
| Reclining seat | ● |
| Reinforced, tinted glass window | ● |
| Retractable seat belt | ● |
| ROPS/OPG cab | ● |
| Spare power supply | ● |
| Storage box | ● |
| Sun visor | ○ |
| Transparency roof with roll curtain | ● |
| Window washer | ● |
| Wiper | ● |
| 4 fluid-filled elastic mounts | ● |
| 12 V power source | ○ |

LIGHTS

| | |
|-----------------------------------|---|
| Additional boom lights with cover | ○ |
| Additional cab roof front lights | ○ |
| Additional cab roof rear lights | ○ |
| Rotating lamp | ○ |
| 2 working lights | ● |

UPPER STRUCTURE

| | |
|--|---|
| Auxiliary overload relief valve | ● |
| Electrical fuel feed pump with auto stop | ● |
| Fuel level float | ● |
| Pilot accumulator | ○ |
| Rear view camera | ○ |
| Rear view mirror (right, left side & cab rear) | ● |
| Stack muffler | ● |
| Tool box | ● |
| Undercover | ● |
| 1 400 kg counterweight | ● |
| 370 kg additional counterweight | ○ |

UNDERCARRIAGE

| | |
|---------------------------------------|---|
| Blade | ● |
| Reinforced track links with pin seals | ● |
| Travel motor covers | ● |
| 4 tie down hooks | ● |
| 450 mm grouser shoe | ● |
| 450 mm pad crawler shoe | ○ |
| 450 mm rubber shoe | ○ |
| 600 mm grouser shoe | ○ |

FRONT ATTACHMENTS

| | |
|--|---|
| Assist piping | ○ |
| Dirt seal on all bucket pins | ● |
| Flanged pin | ● |
| HN bushing | ● |
| Reinforced resin thrust plate | ● |
| WC (tungsten-carbide) thermal spraying | ● |
| 1.62 m arm | ○ |
| 2.12 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.

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



Built on the foundation of superb technological capabilities, Hitachi Construction Machinery is committed to providing leading-edge solutions and services to contribute as a reliable partner to the business of customers worldwide.

Hitachi Environmental Vision 2025

The Hitachi Group released the Environmental Vision 2025 to curb annual carbon dioxide emissions. The Group is committed to global production while reducing environmental impact in life cycles of all products, and realizing a sustainable society by tackling three goals — prevention of global warming, recycling of resources, and enhancement of ecosystem.

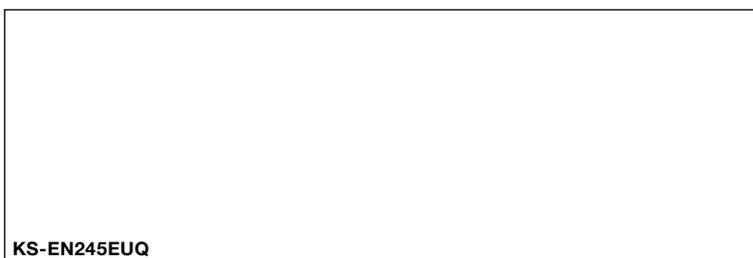
Reducing Environmental Impact by New ZAXIS

Hitachi makes a green way to cut carbon emissions for global warming prevention according to LCA*. New ZAXIS utilizes lots of technological advances, including the new ECO mode, and Isochronous Control. Hitachi has long been committed to recycling of components, such as aluminum parts in radiators and oil cooler. Resin parts are marked for recycling.

*Life Cycle Assessment – ISO 14040

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, customer installed and modified parts, optional parts and all standard equipment with some differences in color and features. Before use, read and understand the Operator's Manual for proper operation.



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