HITACHI

Reliable solutions





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.





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.

- 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

^{*} The engine of the new ZX85US-5A is outside the scope of EU stage IIIB emission regulation.



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.

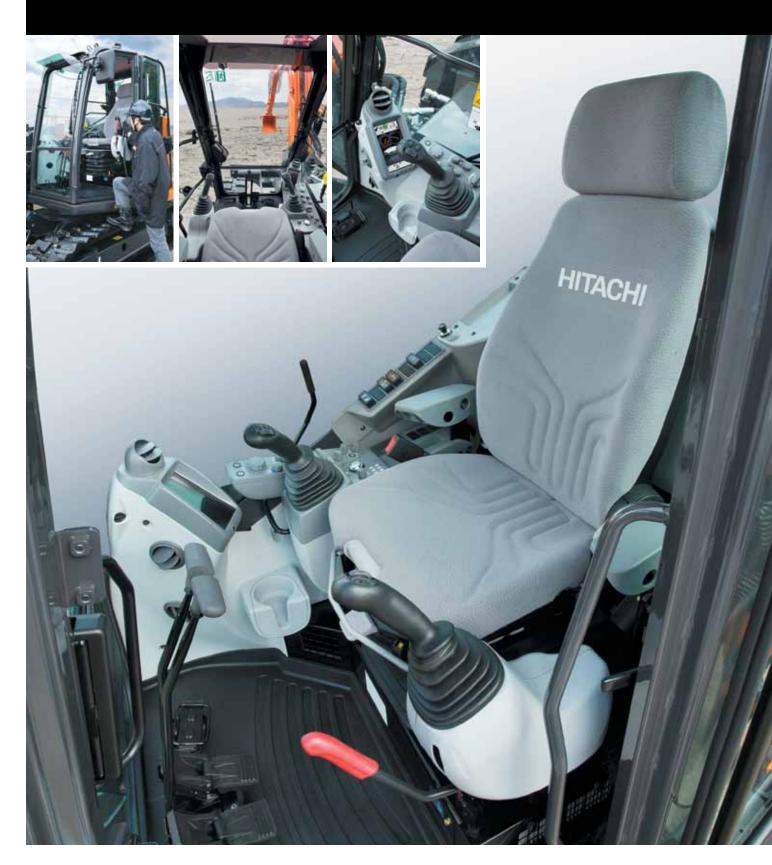
- Powerfull and sustainable
- Auto idle system
- ECO mode and ECO control system

- 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.

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

- Expansive leg room
- Ergonomically designed control panel



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.

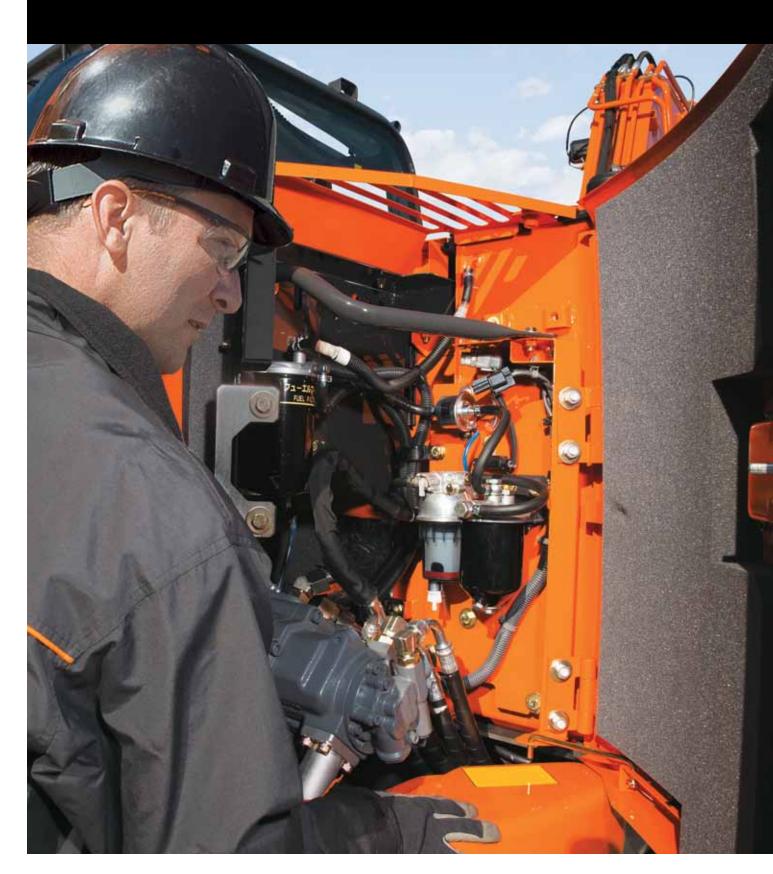
- Proven Hitachi quality
- More than 40 years of expertise
- Reliable fuel system
- Reinforced handles and mainframe

^{*} The engine of the new ZX85US-5A is outside the scope of EU stage IIIB emission regulation.



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.

- 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.

- 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	$2 \times 12 \text{ V} / 52 \text{ Ah}$

HYDRAULIC SYSTEM

Hydraulic Pumps

Hydraulic Motors

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

Relief Valve Settings

Implement circuit	26.0 MPa (265 kgf/cm²)
Swing circuit	26.5 MPa (270 kgf/cm²)
Travel circuit	31.4 MPa (320 kgf/cm²)
Pilot circuit	3.9 MPa (40 kgf/cm²)

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.

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

SOUND LEVEL

Sound level in cab according to ISO 6396LpA 7	2	dB(A)
External sound level according to ISO 6395 and		
EU Directive 2000/14/ECLwA 9	7	dB(A)

SERVICE REFILL CAPACITIES

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

WEIGHTS AND GROUND PRESSURE

Operating Weight and Ground Pressure

Monoblock boom

Shoe type	Shoe width	Arm length	kg	kPa(kgf/cm²)
	450 mm	1.62 m	8 430	37 (0.38)
Grouser shoe		2.12 m	8 470	37 (0.38)
Grouser snoe		1.62 m	8 610	28 (0.29)
		2.12 m	8 650	28 (0.29)
Rubber shoe	D. I	1.62 m	8 460	37 (0.38)
Rubber shoe 450 mm	2.12 m	8 500	37 (0.38)	
Pad crawler	450 mm	1.62 m	8 480	37 (0.38)
shoe		2.12 m	8 520	37 (0.38)

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

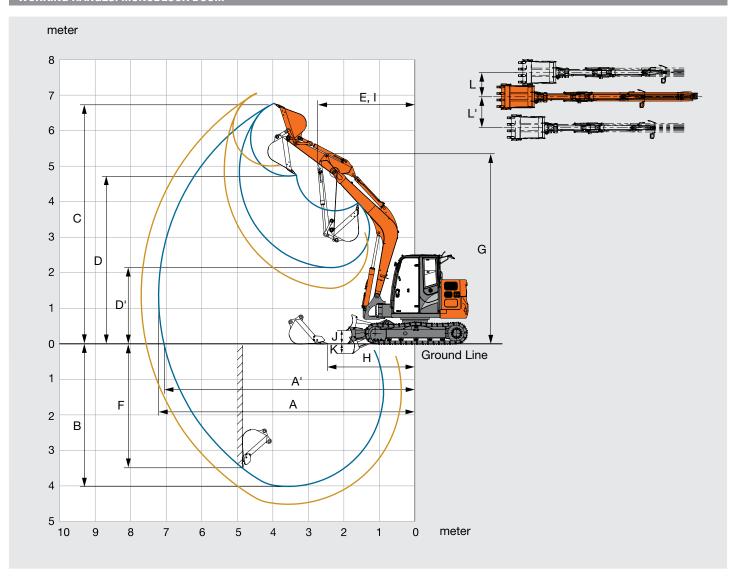
2-Piece boom

211000 200111				
Shoe type	Shoe width	Arm length	kg	kPa(kgf/cm²)
	450 mm	1.62 m	8 850	39 (0.40)
Grouser shoe		2.12 m	8 890	39 (0.40)
Grouser snoe		1.62 m	9 030	30 (0.30)
		2.12 m	9 060	30 (0.30)
Rubber shoe	Rubber shoe 450 mm	1.62 m	8 880	39 (0.40)
hubber silice	450 11111	2.12 m	8 910	39 (0.40)
Pad crawler	Pad crawler 450 mm	1.62 m	8 900	39 (0.40)
shoe	450 11111	2.12 m	8 940	39 (0.40)

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

^{*} International Organization for Standarization

WORKING RANGES: MONOBLOCK BOOM



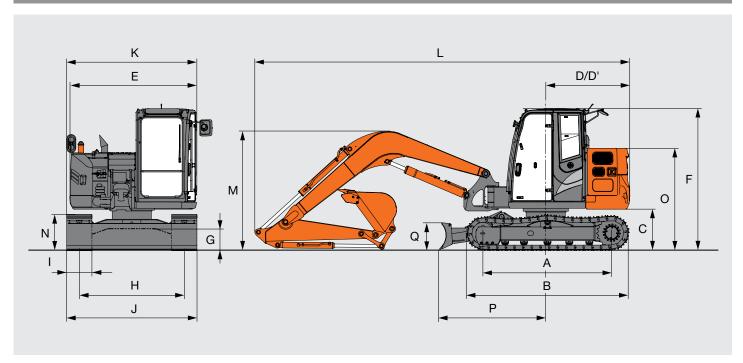
Unit: mm

			OHIL HIH
	Arm length	1.62 m	2.12 m
Α	Max. digging reach	7 210	7 700
A'	Max. digging reach (on ground)	7 060	7 560
В	Max. digging depth	3 990	4 510
С	Max. cutting height	6 790	7 140
D	Max. dumping height	4 770	5 080
D'	Min. dumping height	2 130	1 670
Е	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
Н	Min. level crowding distance	2 470	2 310
1	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

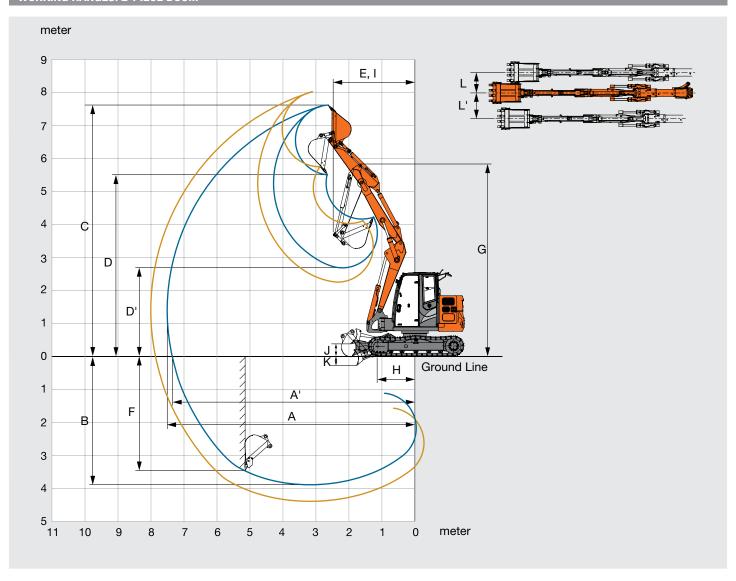
	Onit: min
	ZAXIS 85USB
A Distance between tumblers	2 290
B Undercarriage length	2 920
* C Counterweight clearance	720
D Rear-end swing radius	1 490
D' Rear-end length	1 490
E Overall width of upperstructure	2 260
F Overall height of cab	2 530
* G Min. ground clearance	360
H Track gauge	1 750
I Track shoe width	450
J Undercarriage width	2 200
K Overall width	2 260
L Overall length	
With 1.62 m arm	6 640
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

	Monoblo	ck boom	2-Piece	e boom				
Arm length	1.62 m	2.12 m	1.62 m	2.12 m				
Bucket digging force ISO	55.0 kN (8	5 600 kgf)	55.0 kN (5 600 kgf)					
Bucket digging force SAE : PCSA	47.0 kN (4	4 800 kgf)	47.0 kN (4	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



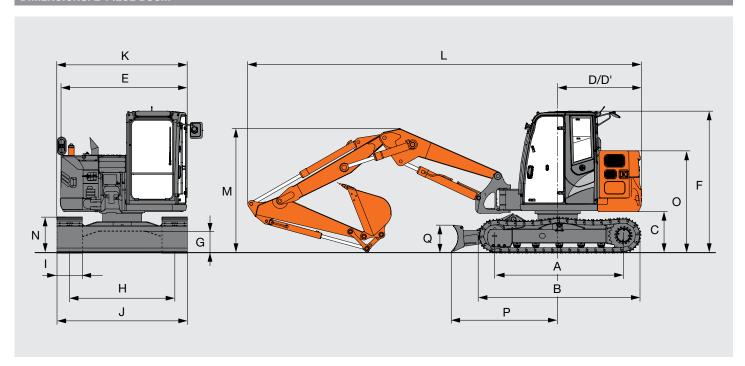
Unit: mm

	Arm length	1.62 m	2.12 m
Α	Max. digging reach	7 510	8 000
A'	Max. digging reach (on ground)	7 360	7 860
В	Max. digging depth	3 910	4 410
С	Max. cutting height	7 600	8 060
D	Max. dumping height	5 490	5 940
D'	Min. dumping height	2 670	2 320
Е	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
Н	Min. level crowding distance	1 150	750
- 1	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

	Offit: ITIII
	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.

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.

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

A: Load radius

B: Load point height C: Lifting capacity

ZAXIS 85USB Monoblock boom, Blade above Ground

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

	Load					Load r	radius					^	+ maay	h
Conditions	point height	2.0) m	3.0) m	4.0	m	5.0) m	6.0	m	A	t max. reac	П
	m	ů	-	Ů	©	ů		ů	-	ů		ů	-	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	1					2 120	1 720	1 560	1 280	1 210	1 000	1 170	970	6.14
450 mm	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

	Load					Load	adius					Δ.	t many was a	.h
Conditions	point height	2.0	m	3.0) m	4.0	m	5.0) m	6.0	m	^	t max. reac	a11
	m	ů	@	Ů	@	ů		ů	-	ů	©	ů	-	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	1					*3 560	1 720	*2 630	1 250	*2 140	1 000	*2 080	970	6.14
450 mm	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

	Load					Load	radius					Δ.	t max. read	.h
Conditions	point height	2.0	m	3.0) m	4.0	m	5.0) m	6.0	m	А	ı max. reac	er i
	m	ů	-	ů	©	ů		ů	-	ů		ů		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	2					2 240	1 830	1 610	1 330	1 230	1 020	1 060	880	6.61
450 mm	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

	Load					Load	radius					^	t many 4000	h
Conditions	point height	2.0	m	3.0) m	4.0	m	5.0) m	6.0	m	A	t max. reac	:n
	m	ů	©	Ů	P	ů		Ů	©	ů	©	ů	©	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	2					*2 830	1 840	*2 240	1 330	*1 930	1 020	*1 590	880	6.61
450 mm	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

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.

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

A: Load radius

B: Load point height C: Lifting capacity

ZAXIS 85USB 2-Piece boom, Blade above Ground

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

	Load					Load r	radius					^	t max. read	h
Conditions	point height	2.0) m	3.0) m	4.0	m	5.0) m	6.0	m	A	t max. reac	Ш
	m	ů	©	Ů	©	ů		ů	©	ů	-	ů	-	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	2					2 030	1 620	1 470	1 190	1 110	900	1 000	810	6.41
450 mm	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

	Load					Load	radius					At max. reach			
Conditions	point height	2.0	m	3.0) m	4.0	m	5.0) m	6.0) m	A	t max. reac	a11	
	m	ů	-	ů	-	ů	-	ů	-	ů	-	ů	-	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	2					*3 200	1 620	*2 390	1 190	*1 960	900	*1 840	810	6.41	
450 mm	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

	Load					Load	radius					٨	t max. read	h
Conditions	point height	2.0 m		3.0) m	4.0) m	5.0) m	6.0	m	^	t max. reac	311
	m	ů	©	ů	-	ů	©	ů	@	ů	©	ů	-	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	2					2 120	1 710	1 520	1 240	1 150	930	910	730	6.91
450 mm	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

	Load					Load	radius					Δ.	+ maay	h
Conditions	point height	2.0	m	3.0) m	4.0	m	5.0) m	6.0) m	A	t max. reac	:11
	m	ů	-	ů	©	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	2					*2 990	1 710	*2 280	1 240	*1 900	930	*1 490	730	6.91
450 mm	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

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	0
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)	0
Defroster	•
Drink holder	•
Electric horn	•
Floor mat	•
Glove compartment	•
Rain guard	0
Reclining seat	•
Reinforced, tinted glass window	•
Retractable seat belt	•
ROPS/OPG cab	•
Spare power supply	•
Storage box	•
Sun visor	0
Transparency roof with roll cartain	•
Window washer	•
Wiper	•
4 fluid-filled elastic mounts	•
12 V power source	0

LIGHTS	
Additional boom lights with cover	0
Additional cab roof front lights	0
Additional cab roof rear lights	0
Rotating lamp	0
2 working lights	•

UPPER STRUCTURE	
ixiliary overload relief valve	•
ectrical fuel feed pump with auto	•
el level float	•
ot accumulator	0
ear view camera	0
ear view mirror (right, left side &	

...... Standard equipment O

Auxiliary overload relief valve	•
Electrical fuel feed pump with auto stop	•
Fuel level float	•
Pilot accumulator	0
Rear view camera	0
Rear view mirror (right, left side & cab rear)	•
Stack muffler	•
Tool box	•
Undercover	•
1 400 kg counterweight	•
370 kg additional counterweight	0

UNDERCARRIAGE	
Blade	•
Reinforced track links with pin seals	•
Travel motor covers	•
4 tie down hooks	•
450 mm grouser shoe	•
450 mm pad crawler shoe	0
450 mm rubber shoe	0
600 mm grouser shoe	0

...... Optional equipment

FRONT ATTACHMENT	S
Assist piping	0
Dirt seal on all bucket pins	•
Flanged pin	•
HN bushing	•
Reinforced resin thrust plate	•
WC (tungsten-carbide) thermal spraying	•
1.62 m arm	0
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.



- 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.

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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