

ZAXIS-6 series

HITACHI

Reliable solutions

# ZAXIS135us



## HYDRAULIC EXCAVATOR

Model code : ZX135US-6

Engine rated power : 86 kW (ISO14396)

Operating weight : 13 900 – 16 000 kg

Bucket ISO heaped : 0.19 – 0.66 m<sup>3</sup>

# ZX135US-6. NO COMPROMISE

The ZX135US-6 is one of the smallest Zaxis-6 excavators and is ideal for confined spaces, thanks to its short-tail swing. Available with a variety of options, including a blade for grading, dozing or additional stability, it is exceptionally versatile for a wide range of applications.

Thanks to its Zaxis-6 heritage, the ZX135US-6 benefits from the same advanced technology as the larger Hitachi models. It shares the same high quality of engineering and durable components, and offers outstanding levels of reliability.



6. EXCEPTIONAL RELIABILITY



8. OUTSTANDING DURABILITY



10. UNRIVALLED VERSATILITY



**12. QUALITY FIRST**



**14. PROVEN TECHNOLOGY**

# DEMAND PERFECTION

A perfect fit when space is limited, the ZX135US-6 with short-tail swing has been built at the world's largest excavator factory in Japan. Equipped with innovative technology, developed specifically for the Zaxis-6 range of medium excavators, it operates reliably and efficiently with the lowest possible cost of ownership, to meet the needs of the European construction industry.



## High quality

Only the best design elements and materials.



## Incredible versatility

Tilt and rotary tilt modes complete the attachment support system.



## Lifetime reliability

Reliable components help to prevent oil leaks.



## Ultimate durability

Strengthened bushing material improves wear resistance.





**Optimum performance**

Remote monitoring with Global e-Service online application.



**User-friendly**

Safety comes first with handrails and a reinforced safety platform.



**Low emissions**

SCR system reduces NOx from exhaust gas.



**Low fuel consumption**

7% fuel saving in PWR mode (5% in ECO mode).



**Easy maintenance**

Convenient and wide-opening engine cover.



**Excellent efficiency**

HIOS IV reduces total hydraulic loss.



**Engine protection**

High performance and large-capacity fuel circuit.





*“ This is the fastest  
and strongest  
excavator in its class ”*

Erik Inmark, Foreman, MJ Eriksson

## EXCEPTIONAL RELIABILITY

From early in the morning to late at night, you can rely on the ZX135US-6 to operate efficiently and with a high level of productivity. Like all Zaxis-6 medium excavators, it has been designed to achieve optimum levels of availability and performance on a wide range of demanding job sites.

### **Easy maintenance**

The engine cover can be conveniently opened up fully from the platform. This provides easy access to the engine compartment and other components for routine maintenance.

### **Durable hydraulic connection**

A rubber hose fitted with a flange has been incorporated into the design of the hydraulic return pipes. These enhance the reliability of the system and reduce the risk of oil leaks.

### **User-friendly filter**

The main fuel filter screws into place on the ZX135US-6. This makes it easier to replace and ensures that dust is prevented from entering the fuel circuit during routine maintenance procedures.

### **More efficient cooling**

The expansion tank is mounted on top of the engine's cooling system. This revised position means that the air can be completely removed and prevents the engine parts from overheating.

### **Durable components**

The cooling system of the ZX135US-6 incorporates aluminium components, including radiator, air condenser and fuel cooler. This improves resistance against corrosion and enhances the machine's durability.



Easy access to the engine compartment.



The main fuel filter is easier to replace.



The expansion tank prevents engine parts from overheating.



HITACHI



Strengthened bushing material improves wear resistance.



Improved performance derived from the fuel circuit.



**i** The Zaxis-6 prototype was tested extensively in six countries: The Netherlands, Belgium, Germany, Norway, Sweden and Italy.



# OUTSTANDING DURABILITY

Like all Zaxis-6 medium excavators, the ZX135US-6 is designed and engineered to operate in challenging environments, and particularly when space is limited. It benefits from more than four decades of manufacturing experience and has been subjected to rigorous testing procedures to ensure it offers outstanding durability on any job site.



### **Wear-resistant components**

The upper roller bushing is made of a new wear-resistant material. This improves the durability and reliability of the ZX135US-6.

### **Enhanced fuel circuit**

A high performance water separator is integrated into the pre-filter for added protection against moisture. In addition, a large capacity electric fuel pump supplies an appropriate amount of fuel to the engine for an improved performance.

### **Engine protection**

The combustion chamber is made from stronger materials and the revised shape of the piston is designed to achieve cleaner emissions. These features will further enhance the reliability of the engine.

### **Strong front attachment**

The bracket on the boom foot is equipped with bushings to withstand working for lengthy periods of time in rugged environments.



Strong front attachment is ideal for working in rugged environments.





*“ You can use it  
wherever – in gardens  
and between buildings ”*

Rune Morten Ryen, operator, Skogen

## UNRIVALLED VERSATILITY

Thanks to its short-tail swing and a variety of optional extras, the ZX135US-6 is exceptionally versatile for urban job sites, including road construction, forestry and demolition – particularly if space is limited. It can be built to meet individual customer requirements, and provides a smooth, fast and precise performance wherever it operates.

### **Greater flexibility**

The rotary tilt and tilt modes are included within the attachment support system on the ZX135US-6. These and nine other modes can be registered on the monitor for the easy fitment of attachments to increase versatility.

### **Power boost**

The tried-and-tested power-boost feature has 10% more capacity than the ZX135US-3. This increases the capacity of the ZX135US-6 to deliver an enhanced level of performance and lifting power.

### **Compact and powerful**

The short-tail swing of the ZX135US-6 enables it to fit into confined spaces, which makes it suitable for a wider variety of job

sites than the standard 14-tonne model. Its compact dimensions are combined with a powerful lifting force and good stability.

### **Increased utility**

The ZX135US-6 can be fitted with a dozer blade, which is particularly useful for grading, filling ditches and clearing the job site. A two-piece boom and rubber pads are also available for increased versatility in different working environments.

### **Improved control**

The ZX135US-6 can be equipped with an optional auxiliary function lever, which has a proportional switch that allows for greater control of the attachment and a precise operation.



Two tilt modes add to the versatility of the ZX135US-6.



Power boost has 10% more capacity.



Minimal blind spots improve visibility.



Superior weather resistance maintains the cab's internal appearance.



Urea is injected into the exhaust gas to reduce emissions.

**i** There are up to 100 points on the Hitachi Design Centre's checklist to measure the quality of its construction machinery, covering performance, reliability and safety.



# QUALITY FIRST

Hitachi makes quality a top priority at its factories in Japan. Every Zaxis-6 excavator is put through rigorous testing to ensure it meets the highest possible standards for reliability and safety, for which Hitachi is renowned. The ZX135US-6 incorporates high-quality components and materials to ensure a superior performance.



Ergonomic controls contribute to the ultimate workspace.



## Superior cooling performance

The upper structure benefits from high-quality sealant (around the cooling package) and acoustic materials to eliminate any deterioration caused by heat. These ensure the long-term cooling and low-noise acoustic performance of the ZX135US-6.

## Excellent weather resistance

The cab console has been sculpted in highly durable AES-grade resin. This ensures superior weather resistance and ultimately prevents the sun's ultraviolet rays from damaging the console.

## Reduced emissions

Hitachi has developed a selective catalytic reduction (SCR) system that injects urea into exhaust gas to reduce nitrogen

oxide from emissions. This cutting-edge technology not only helps the environment, but also complies with EU Stage IV emission regulations.

## Ultimate comfort

A fully adjustable seat, spacious cab, ergonomic controls and advanced music system all contribute to the ultimate working environment.

## Safety at work

The ZX135US-6 has been fitted with a high-spec rollover protective structure-compliant (ROPS) and centre pillar reinforced structure (CRES V) cab. The pressurised cab is designed to protect the operator from the penetration of dust and potential job site risks.



“ *The ZX135US-6 uses the proven technology of bigger Hitachi models* ”

Burkhard Janssen, General Manager Product Management & Engineering, Hitachi Construction Machinery (Europe) NV

## PROVEN TECHNOLOGY

Hitachi is renowned for unique and advanced technology within its construction equipment. The Zaxis-6 excavators are at the forefront of the industry, with innovative features that have been designed to meet the needs of customers in today's increasingly competitive markets.

### **Saving fuel and costs**

Hydraulic loss is decreased by HIOS IV technology. It reduces the hydraulic oil returned to the tank due to the cooperative control of the pump and valve. This helps to lower fuel consumption by 7% in PWR mode with the same productivity.

### **User-friendly functionality**

A large seven-inch multi-function LCD monitor provides a wide range of useful technical information. With multi-lingual support in up to 32 languages, it enables operators to check the machine's status and settings at a glance.

### **Remote monitoring**

Global e-Service allows owners to monitor their fleets remotely via Owner's Site (24/7 online access) and ConSite (an automatic monthly report). These help to maximise efficiency, minimise downtime and improve overall performance.

### **Fewer emissions**

The after-treatment device consists of a diesel oxidation catalyst (DOC), urea mixing pipe, SCR system and silencer. This advanced technology helps to reduce emissions and noise levels.

### **Advanced audio system**

The AM/FM radio is accessible from the monitor and an auxiliary socket – for devices such as MP3 players – is linked to the sound system. This choice of entertainment helps to provide an enjoyable – and productive – working environment.



7% lower fuel consumption in PWR mode with HIOS IV.



The LCD monitor shows the machine's status and settings.



The SCR system reduces emissions and noise levels.



“ *The total cost of ownership is of maximum benefit to our company* ”

Peter Kögel, Member of the Management Board,  
Kögel Bau GmbH & Co. KG

## REDUCING THE TOTAL COST OF OWNERSHIP



Hitachi has created the Support Chain after-sales programme to ensure optimum efficiency, as well as minimal downtime, reduced running costs and high resale values.

### Global e-Service

Hitachi has developed two remote monitoring systems as part of its Global e-Service online application. Owner's Site and ConSite are an integral part of the excavator, which sends operational data daily via GPRS or satellite to [www.globaleservice.com](http://www.globaleservice.com). This allows immediate access to the Owner's Site, and the vital information that is required for support on job sites.

Comparing the ratio of operating and non-operating hours helps to enhance efficiency. Effective management of maintenance programmes helps to

maximise availability. Running costs can also be managed by analysing the fuel consumption. The location and movements of each machine are clearly displayed for essential planning.

An automatic service report – ConSite – sends a monthly email summarising the information from Global e-Service for each machine. This includes: daily working hours and fuel consumption data; statistics on the operating mode ratio, plus a comparison for fuel consumption/efficiency, and CO<sub>2</sub> emissions.

### Technical support

Each Hitachi service technician receives full technical training from HCME in Amsterdam. These sessions provide access to the same technical knowledge available within the Hitachi quality assurance departments and design centres. Technicians combine this global expertise with the local language and culture of the customer to provide the highest level of after-sales support.

### Extended warranty and service contracts

Every new Hitachi Zaxis-6 model is covered by a full manufacturer's warranty. For





Global e-Service



Technical support



Hitachi Parts

extra protection – due to severe working conditions or to minimise equipment repair costs – Hitachi dealers offer a unique extended warranty called HELP (Hitachi Extended Life Program) and comprehensive service contracts. These can help to optimise the performance of each machine, reduce downtime and ensure higher resale values.

## Parts

Hitachi offers a wide range and a high availability of parts dispatched from the

53,000 m<sup>2</sup> HCME European Parts Depot in The Netherlands.

- Hitachi Genuine Parts: allow machines to work for longer, with lower running and maintenance costs.
- Hitachi Select Parts and 2Genuine Parts: especially for older machines, they cost less, are of proven quality and come with the manufacturer's warranty.

- Performance Parts: to cope with highly demanding conditions, they have been engineered for greater durability, better performance or longer life.
- Remanufactured components: offering an economically viable solution, they are the best option when preventative replacements are required.

Whatever the choice, the renowned quality of Hitachi construction machinery is assured.



EH dump trucks



EX ultra-large excavators



ZW wheel loaders



“ We develop construction machinery that contributes to the creation of affluent and comfortable societies ”

Yuichi Tsujimoto, HCM President

## BUILDING A BETTER FUTURE

Established in 1910, Hitachi, Ltd. was built upon a founding philosophy of making a positive contribution to society through technology. This is still the inspiration behind the Hitachi group's reliable solutions that answer today's challenges and help to create a better world.

Hitachi, Ltd. is now one of the world's largest corporations, with a vast range of innovative products and services. These have been created to challenge convention, improve social infrastructure and contribute to a sustainable society.

Hitachi Construction Machinery Co., Ltd. (HCM) was founded in 1970 as a subsidiary of Hitachi, Ltd. and has become one of the world's largest construction equipment suppliers. A pioneer in producing hydraulic excavators, HCM also manufactures wheel loaders, rigid dump trucks, crawler cranes and special application machines at state-of-the-art facilities across the globe.

Incorporating advanced technology, Hitachi construction machinery has a reputation for the highest quality standards. Suitable for a wide range of industries, it is always

hard at work around the world – helping to create infrastructure for a safe and comfortable way of living, developing natural resources and supporting disaster relief efforts.

Hitachi Zaxis excavators are renowned for being reliable, durable and versatile – capable of delivering the highest levels of productivity under the most challenging of conditions. They are designed to provide owners with a reduced total cost of ownership, and operators with the ultimate level of comfort and safety.



Mini excavators

# SPECIFICATIONS

## ENGINE

Model .....	Isuzu AR-4JJ1X
Type .....	4-cycle water-cooled, common rail direct injection
Aspiration .....	Variable geometry turbocharged, intercooled, cooled EGR
Aftertreatment .....	DOC and SCR system
No. of cylinders .....	4
Rated power	
ISO 14396 .....	78.5 kW at 2 000 min <sup>-1</sup>
ISO 9249, net .....	74.9 kW at 2 000 min <sup>-1</sup>
SAE J1349, net .....	74.9 kW at 2 000 min <sup>-1</sup>
Maximum torque .....	375 Nm at 1 800 min <sup>-1</sup>
Piston displacement .....	2.999 L
Bore and stroke .....	95.4 mm x 104.9 mm
Batteries .....	2 x 12 V / 58 Ah

## HYDRAULIC SYSTEM

### Hydraulic Pumps

Main pumps .....	2 variable displacement axial piston pumps
Maximum oil flow .....	2 x 117 L/min
Pilot pump .....	1 gear pump
Maximum oil flow .....	33.6 L/min

### Hydraulic Motors

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

### Relief Valve Settings

Implement circuit .....	34.3 MPa
Swing circuit .....	32.3 MPa
Travel circuit .....	34.3 MPa
Pilot circuit .....	3.9 MPa
Power boost .....	36.3 MPa

### Hydraulic Cylinders

	Quantity	Bore	Rod diameter
Boom	2	105 mm	70 mm
Arm	1	115 mm	80 mm
Bucket	1	100 mm	70 mm
Positioning *	1	140 mm	95 mm

\* : For 2-piece boom

## 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 .....	13.7 min <sup>-1</sup>
Swing torque .....	33 kNm

### Operator's Cab

Independent spacious cab, 1 005 mm wide by 1 675 mm high, conforming to ISO\* Standards.

\* International Organization for Standardization

## UNDERCARRIAGE

### Tracks

Tractor-type undercarriage. Welded track frame using selected materials. Side frame welded to track frame. Lubricated track rollers, idlers, and sprockets with floating seals.

Track shoes with triple grousers made of induction-hardened rolled alloy. Heat-treated connecting pins with dirt seals. Hydraulic (grease) track adjusters with shock-absorbing recoil springs.

### Numbers of Rollers and Shoes on Each Side

Upper roller .....	1
Lower rollers .....	7
Track shoes .....	44
Track guard .....	1

### 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 5.5 km/h
	Low : 0 to 3.3 km/h

Maximum traction force .....	117 kN
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Gradeability .....	70% (35 degree) continuous
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## SOUND LEVEL

Sound level in cab according to ISO 6396 ..... LpA 69 dB(A)

External sound level according to ISO 6395 and

EU Directive 2000/14/EC ..... LwA 99 dB(A)

## SERVICE REFILL CAPACITIES

Fuel tank .....	220.0 L
Engine coolant .....	21.0 L
Engine oil .....	17.0 L
Swing device .....	3.2 L
Travel device (each side) .....	4.0 L
Hydraulic system .....	155.0 L
Hydraulic oil tank .....	60.0 L
DEF/AdBlue® tank .....	12.0 L

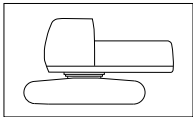
## WEIGHTS AND GROUND PRESSURE

### Operating Weight and Ground Pressure

			ZAXIS 135US				ZAXIS 135US with blade (optional)			
Boom type			Monoblock		2-Piece		Monoblock		2-Piece	
Shoe type	Shoe width	Arm length	kg	kPa	kg	kPa	kg	kPa	kg	kPa
Triple grouser	500 mm	2.10 m	13 900	44	14 400	45	15 000	47	15 500	48
		2.52 m	14 000	44	14 500	45	15 000	47	15 500	49
		3.01 m	14 000	44	14 500	46	15 100	47	15 600	49
	600 mm	2.10 m	14 100	37	14 600	38	15 200	40	15 700	41
		2.52 m	14 200	37	14 700	38	15 200	40	15 700	41
		3.01 m	14 200	37	14 700	39	15 300	40	15 800	41
	700 mm	2.10 m	14 400	32	14 900	33	15 400	35	15 900	36
		2.52 m	14 400	32	14 900	33	15 400	35	15 900	36
		3.01 m	14 500	32	15 000	34	15 500	35	16 000	36
Pad	500 mm	2.10 m	13 800	43	14 300	44	14 800	46	15 300	48
		2.52 m	13 800	43	14 300	44	14 800	46	15 300	48
		3.01 m	13 900	43	14 400	45	14 900	46	15 400	48

Including 0.50 m<sup>3</sup> (ISO heaped) bucket weight (410 kg) and counterweight (3 520 kg).

### Basic Machine Weight and Overall Width



Excluding front end attachment, fuel, hydraulic oil and coolant etc. Including counterweight.

#### ZAXIS 135US

		ZAXIS 135US		ZAXIS 135US with blade (optional)	
Shoe type	Shoe width	Weight	Overall width	Weight	Overall width
Triple grouser	500 mm	11 200 kg	2 490 mm	12 200 kg	2 490 mm
	600 mm	11 400 kg	2 590 mm	12 500 kg	2 590 mm
	700 mm	11 700 kg	2 690 mm	12 700 kg	2 690 mm
Pad	500 mm	11 100 kg	2 490 mm	12 100 kg	2 490 mm

### Components Weight

	Weight
Counterweight	3 520 kg
Monoblock boom (with arm cylinder and boom cylinder)	1 320 kg
2-Piece boom (with arm cylinder and boom cylinder)	1 820 kg
Arm 2.10 m (with bucket cylinder)	550 kg
Arm 2.52 m (with bucket cylinder)	600 kg
Arm 3.01 m (with bucket cylinder)	670 kg
Bucket 0.50 m <sup>3</sup>	410 kg

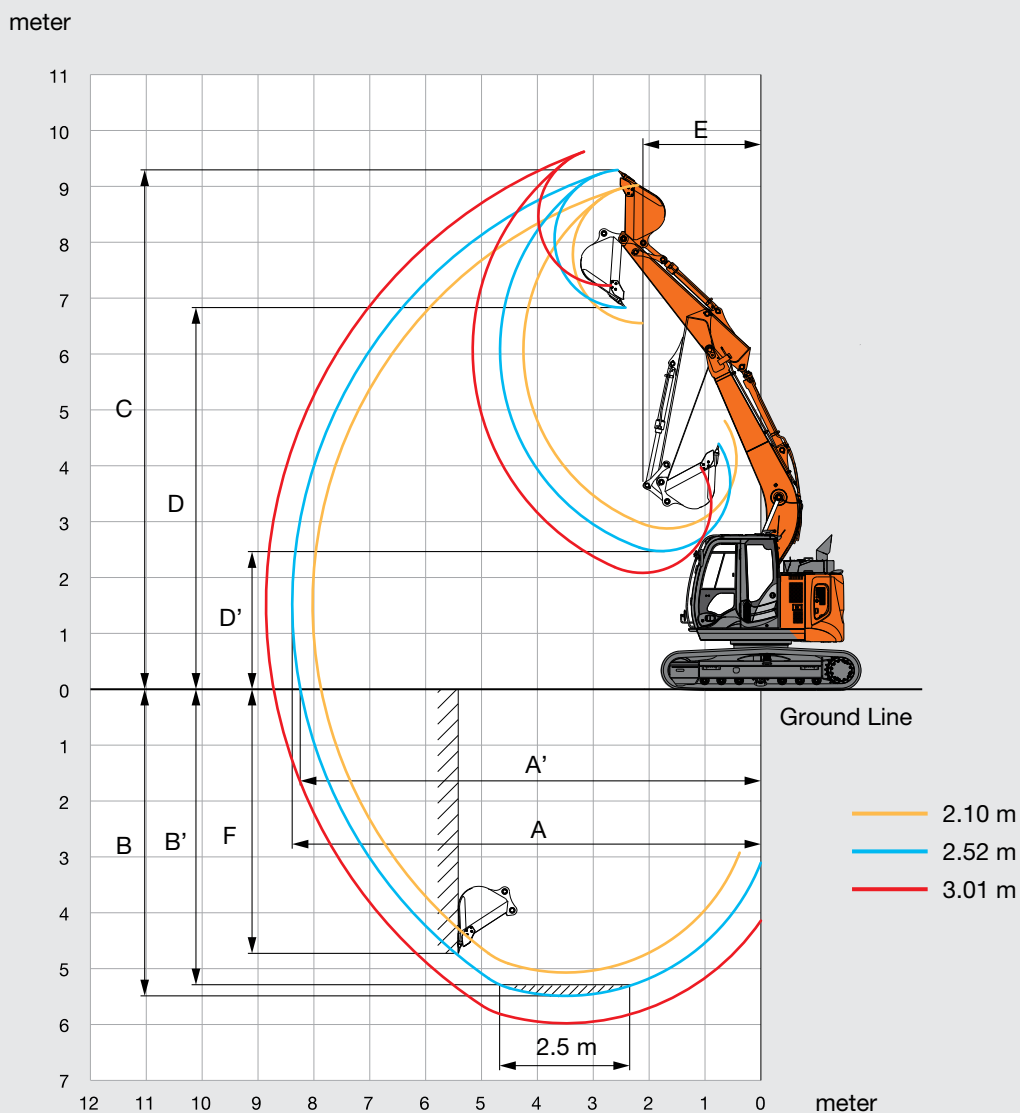
## BUCKET AND ARM DIGGING FORCE

		ZAXIS 135US		
Arm length		2.10 m	2.52 m	3.01 m
Bucket digging force* ISO		104 kN		
Bucket digging force* SAE : PCSA		91 kN		
Arm crowd force* ISO		77 kN	69 kN	61 kN
Arm crowd force* SAE : PCSA		74 kN	67 kN	60 kN

\* At power boost

# SPECIFICATIONS

## WORKING RANGES: MONOBLOCK BOOM

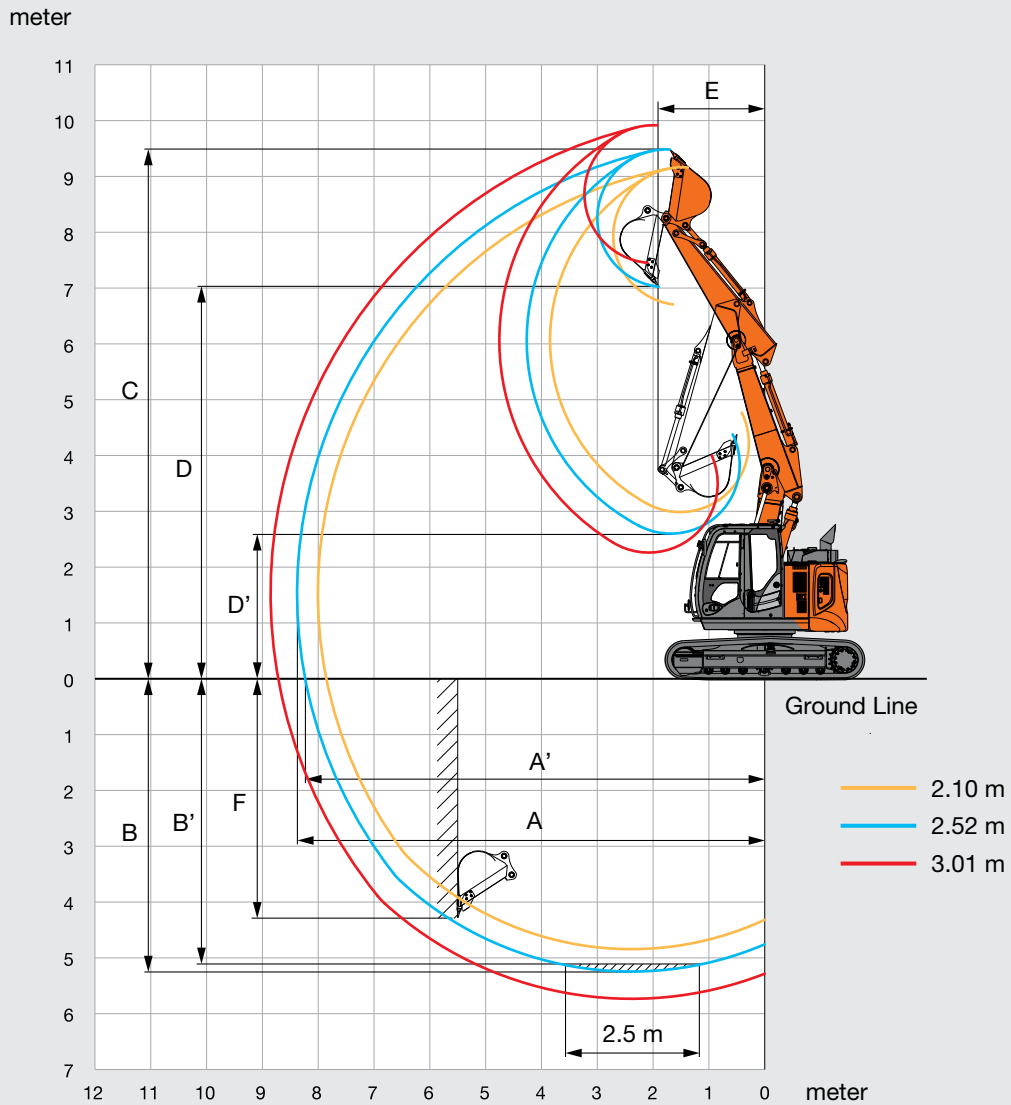


Unit: mm

	ZAXIS 135US		
	Monoblock boom		
Arm length	2.10 m	2.52 m	3.01 m
A Max. digging reach	8 020	8 390	8 860
A' Max. digging reach (on ground)	7 870	8 240	8 720
B Max. digging depth	5 070	5 490	5 980
B' Max. digging depth for 2.5 m level	4 820	5 270	5 790
C Max. cutting height	9 020	9 290	9 690
D Max. dumping height	6 550	6 830	7 220
D' Min. dumping height	2 870	2 470	2 080
E Min. swing radius	2 000	2 110	2 450
F Max. vertical wall digging depth	4 430	4 730	5 190

Excluding track shoe lug

## WORKING RANGES: 2-PIECE BOOM



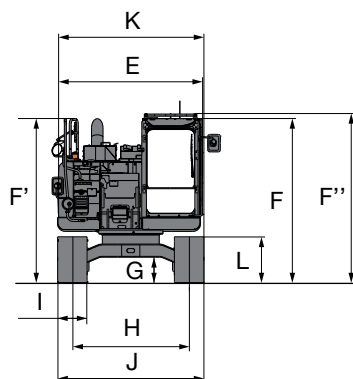
Unit: mm

	ZAXIS 135US		
	2-Piece boom		
Arm length	2.10 m	2.52 m	3.01 m
A Max. digging reach	8 010	8 380	8 850
A' Max. digging reach (on ground)	7 860	8 240	8 720
B Max. digging depth	4 850	5 250	5 740
B' Max. digging depth for 2.5 m level	4 710	5 120	5 620
C Max. cutting height	9 160	9 480	9 920
D Max. dumping height	6 700	7 020	7 450
D' Min. dumping height	2 980	2 600	2 260
E Min. swing radius	1 850	1 920	2 100
F Max. vertical wall digging depth	3 920	4 270	4 750

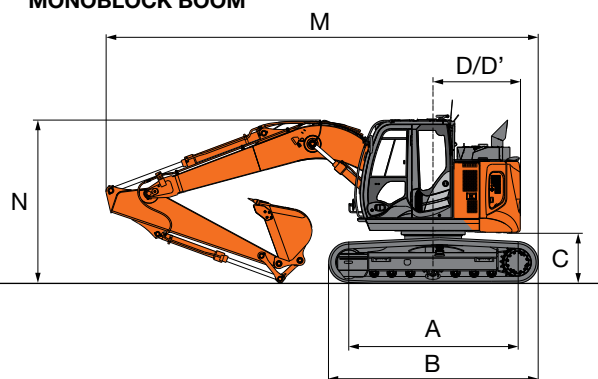
Excluding track shoe lug

# SPECIFICATIONS

## DIMENSIONS

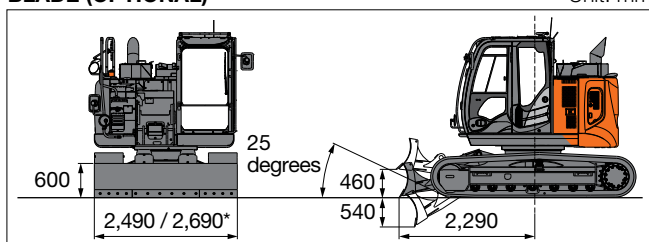


### MONOBLOCK BOOM



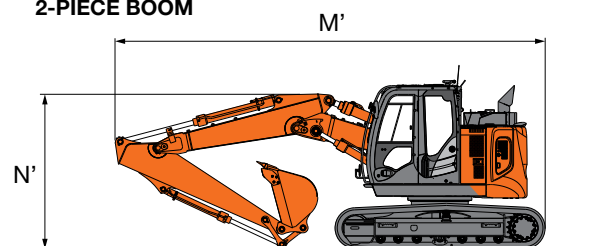
### BLADE (OPTIONAL)

Unit: mm



\*G 600, G 700

### 2-PIECE BOOM



Unit: mm

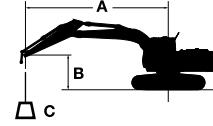
	ZAXIS 135US
A Distance between tumblers	2 880
B Undercarriage length	3 580
* C Counterweight clearance	840
D Rear-end swing radius	1 490
D' Rear-end length	1 490
E Overall width of upperstructure	2 480
F Overall height of cab	2 790
F' Overall height of handrail	2 870
F'' Overall height of handrail (on cab)	2 870
* G Min. ground clearance	410
H Track gauge	1 990
I Track shoe width	G 500
J Undercarriage width	2 490
K Overall width	2 490
*1 L Track height with triple grouser shoes	790
<b>MONOBLOCK BOOM</b>	
M Overall length	
With arm 2.10 m	7 360
With arm 2.52 m	7 370
With arm 3.01 m	7 390
N Overall height of boom	
With arm 2.10 m	2 790
With arm 2.52 m	2 790
*2 With arm 3.01 m	2 780
<b>2-PIECE BOOM</b>	
M' Overall length	
With arm 2.10 m	7 320
With arm 2.52 m	7 310
With arm 3.01 m	7 330
N' Overall height of boom	
With arm 2.10 m	2 740
With arm 2.52 m	2 640
*2 With arm 3.01 m	2 790

\*1 Excluding track shoe lug \*2 The dimensions asterisked are for transport pin position. G: Triple grouser shoe



# 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.

## ZAXIS 135US MONOBLOCK BOOM

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

Conditions	Load point height m	Load radius										At max. reach					
		1.5 m		3.0 m		4.5 m		6.0 m		7.5 m				meter			
Boom 4.60 m Arm 2.10 m Counterweight 3 520 kg Shoe 500 mm	6.0																
	4.5					*4 150	3 540								*2 980	2 940	5.01
	3.0			*5 030	*5 030	*4 310	3 490	*3 130	2 190						*2 710	2 140	6.07
	1.5			*7 490	6 100	5 000	3 300	3 190	2 140						*2 680	1 830	6.62
	0 (Ground)					4 760	3 080	3 100	2 060						2 580	1 720	6.79
	-1.5	*5 000	*5 000	*8 660	5 360	4 580	2 920	3 030	2 000						2 650	1 750	6.61
-3.0			*6 700	5 490	*4 600	3 000								3 000	1 980	6.05	
														*3 830	2 630	4.98	
Boom 4.60 m Arm 2.52 m Counterweight 3 520 kg Shoe 500 mm	6.0					*3 670	3 610								*2 430	*2 430	5.50
	4.5			*3 930	*3 930	*3 920	3 530	3 280	2 220						*2 260	1 940	6.48
	3.0			*6 620	6 280	*4 730	3 340	3 200	2 150						*2 250	1 680	6.99
	1.5			*6 790	5 570	4 790	3 100	3 100	2 050						*2 370	1 580	7.15
	0 (Ground)			*6 130	5 290	4 600	2 940	3 010	1 970						2 430	1 600	6.98
	-1.5	*4 720	*4 720	9 090	5 270	4 530	2 880	2 980	1 950						2 700	1 770	6.46
-3.0	*8 600	*8 600	*7 440	5 380	4 580	2 920								3 460	2 260	5.47	
Boom 4.60 m Arm 3.01 m Counterweight 3 520 kg Shoe 500 mm	6.0					*3 140	*3 140	*2 360	2 250						*2 080	*2 080	6.10
	4.5					*3 440	*3 440	3 310	2 250						*1 950	1 710	6.99
	3.0			*5 270	*5 270	*4 280	3 390	3 220	2 160						*1 940	1 500	7.47
	1.5			*8 410	5 710	4 820	3 130	3 100	2 050		2 200	1 450			*2 040	1 410	7.62
	0 (Ground)			*6 630	5 280	4 590	2 920	2 990	1 950						2 180	1 430	7.46
	-1.5	*4 140	*4 140	*8 620	5 180	4 490	2 830	2 940	1 900						2 390	1 560	6.97
-3.0	*7 200	*7 200	*8 140	5 250	4 500	2 840	2 970	1 930						2 920	1 900	6.07	
-4.5			*5 390	*5 390	*3 260	3 000								*3 250	2 990	4.51	



## ZAXIS 135US BLADE (ABOVE GROUND) MONOBLOCK BOOM











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

Conditions	Load point height m	Load radius										At max. reach					
		1.5 m		3.0 m		4.5 m		6.0 m		7.5 m				meter			
Boom 4.60 m Arm 2.10 m Counterweight 3 520 kg Shoe 500 mm	6.0					*4 150	3 780								*2 980	*2 980	5.01
	4.5			*5 030	*5 030	*4 310	3 730	*3 130	2 360						*2 710	2 310	6.07
	3.0			*7 490	6 530	4 970	3 540	3 170	2 310						*2 680	1 980	6.62
	1.5					4 720	3 330	3 080	2 230						2 560	1 860	6.79
	0 (Ground)			*5 300	*5 300	4 570	3 190	3 010	2 160						2 630	1 900	6.61
	-1.5	*5 000	*5 000	*8 660	5 780	4 540	3 160	3 010	2 160						2 980	2 140	6.05
-3.0			*6 700	5 920	*4 600	3 240								*3 830	2 850	4.98	
Boom 4.60 m Arm 2.52 m Counterweight 3 520 kg Shoe 500 mm	6.0					*3 670	*3 670								*2 430	*2 430	5.50
	4.5			*3 930	*3 930	*3 920	3 770	3 250	2 390						*2 260	2 090	6.48
	3.0			*6 620	*6 620	*4 730	3 580	3 180	2 320						*2 250	1 820	6.99
	1.5			*6 790	6 000	4 750	3 340	3 070	2 220						2 360	1 710	7.15
	0 (Ground)			*6 130	5 720	4 560	3 180	2 990	2 140						2 410	1 740	6.98
	-1.5	*4 720	*4 720	9 020	5 700	4 500	3 120	2 960	2 120						2 680	1 930	6.46
-3.0	*8 600	*8 600	*7 440	5 810	4 550	3 160								3 440	2 450	5.47	
Boom 4.60 m Arm 3.01 m Counterweight 3 520 kg Shoe 500 mm	6.0					*3 140	*3 140	*2 360	*2 360						*2 080	*2 080	6.10
	4.5					*3 440	*3 440	3 290	2 420						*1 950	1 850	6.99
	3.0			*5 270	*5 270	*4 280	3 630	3 200	2 330						*1 940	1 630	7.47
	1.5			*8 410	6 130	4 780	3 370	3 070	2 220		2 180	1 580			*2 040	1 540	7.62
	0 (Ground)			*6 630	5 710	4 550	3 160	2 970	2 120						2 160	1 560	7.46
	-1.5	*4 140	*4 140	*8 620	5 610	4 450	3 070	2 910	2 070						2 370	1 700	6.97
-3.0	*7 200	*7 200	*8 140	5 680	4 460	3 080	2 950	2 100						2 900	2 070	6.07	
-4.5			*5 390	*5 390	*3 260	3 240								*3 250	3 230	4.51	


# LIFTING CAPACITIES











## ZAXIS 135US (BLADE ON GROUND) MONOBLOCK BOOM

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

Conditions	Load point height m	Load radius										At max. reach		
		1.5 m		3.0 m		4.5 m		6.0 m		7.5 m		meter		
														
Boom 4.60 m Arm 2.10 m Counterweight 3 520 kg Shoe 500 mm	6.0					*4 150	3 780					*2 980	*2 980	5.01
	4.5			*5 030	*5 030	*4 310	3 730	*3 130	2 360			*2 710	2 310	6.07
	3.0			*7 490	6 530	*5 090	3 540	*4 210	2 310			*2 680	1 980	6.62
	1.5					*5 950	3 330	*4 510	2 230			*2 820	1 860	6.79
	0 (Ground)			*5 300	*5 300	*6 320	3 190	*4 620	2 160			*3 170	1 900	6.61
	-1.5	*5 000	*5 000	*8 660	5 780	*5 980	3 160	*4 150	2 160			*3 910	2 140	6.05
	-3.0			*6 700	5 920	*4 600	3 240					*3 830	2 850	4.98
Boom 4.60 m Arm 2.52 m Counterweight 3 520 kg Shoe 500 mm	6.0					*3 670	*3 670					*2 430	*2 430	5.50
	4.5			*3 930	*3 930	*3 920	3 770	*3 540	2 390			*2 260	2 090	6.48
	3.0			*6 620	*6 620	*4 730	3 580	*3 980	2 320			*2 250	1 820	6.99
	1.5			*6 790	6 000	*5 690	3 340	*4 360	2 220			*2 370	1 710	7.15
	0 (Ground)			*6 130	5 720	*6 230	3 180	*4 580	2 140			*2 650	1 740	6.98
	-1.5	*4 720	*4 720	*9 100	5 700	*6 110	3 120	*4 370	2 120			*3 230	1 930	6.46
	-3.0	*8 600	*8 600	*7 440	5 810	*5 110	3 160					*3 800	2 450	5.47
Boom 4.60 m Arm 3.01 m Counterweight 3 520 kg Shoe 500 mm	6.0					*3 140	*3 140	*2 360	*2 360			2 080	*2 080	6.10
	4.5					*3 440	*3 440	*3 350	2 420			1 950	1 850	6.99
	3.0			*5 270	*5 270	*4 280	3 630	*3 690	2 330			1 940	1 630	7.47
	1.5			*8 410	6 130	*5 330	3 370	*4 140	2 220	*2 530	1 580	2 040	1 540	7.62
	0 (Ground)			*6 630	5 710	*6 060	3 160	*4 470	2 120			2 250	1 560	7.46
	-1.5	*4 140	*4 140	*8 620	5 610	*6 170	3 070	*4 460	2 070			2 660	1 700	6.97
	-3.0	*7 200	*7 200	*8 140	5 680	*5 500	3 080	*3 700	2 100			3 580	2 070	6.07
	-4.5			*5 390	*5 390	*3 260	3 240					3 250	3 230	4.51

## ZAXIS 135US 2-PIECE BOOM

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

Conditions	Load point height m	Load radius										At max. reach		
		1.5 m		3.0 m		4.5 m		6.0 m		7.5 m		meter		
														
2-Piece Boom Arm 2.10 m Counterweight 3 520 kg Shoe 500 mm	7.5											*4 430	*4 430	2.86
	6.0			*4 790	*4 790	*4 290	3 600					*3 120	2 960	4.99
	4.5			*5 160	*5 160	*4 390	3 690	*3 140	2 170			*2 800	2 130	6.05
	3.0	*11 010	*11 010	*8 590	6 560	*4 960	3 580	3 250	2 180			*2 730	1 800	6.60
	1.5	*7 190	*7 190	*9 390	6 240	4 990	3 460	3 180	2 100			2 580	1 690	6.77
	0 (Ground)	*8 840	*8 840	*9 590	5 920	4 960	3 220	3 070	2 000			2 640	1 720	6.59
	-1.5	*13 350	*13 350	9 610	5 630	4 720	3 010	3 020	1 960			3 000	1 950	6.03
	-3.0	*16 940	*16 940	*8 010	5 530	*3 740	2 970					*3 360	2 860	4.63
2-Piece Boom Arm 2.52 m Counterweight 3 520 kg Shoe 500 mm	7.5			*4 300	*4 300							*3 260	*3 260	3.68
	6.0					*3 910	3 690					*2 540	*2 540	5.49
	4.5			*3 920	*3 920	*4 130	3 720	3 310	2 250			*2 330	1 920	6.47
	3.0			*7 420	6 600	*4 650	3 610	3 300	2 240			*2 300	1 650	6.98
	1.5	*11 700	*11 700	*9 370	6 280	4 990	3 530	3 220	2 150			2 370	1 540	7.14
	0 (Ground)	*8 900	*8 900	9 500	6 020	5 010	3 260	3 100	2 020			2 420	1 570	6.97
	-1.5	*11 880	*11 880	9 630	5 630	4 750	3 030	3 000	1 930			2 700	1 740	6.45
	-3.0	*14 840	*14 840	*9 060	5 500	4 620	2 920					*2 760	2 290	5.36
2-Piece Boom Arm 3.01 m Counterweight 3 520 kg Shoe 500 mm	7.5					*2 760	*2 760					*2 630	*2 630	4.56
	6.0					*3 320	*3 320	*2 440	2 240			*2 160	*2 160	6.10
	4.5					*3 510	*3 510	*3 150	2 330			*2 010	1 690	6.99
	3.0			*4 780	*4 780	*4 310	3 640	3 290	2 310			*1 980	1 470	7.47
	1.5	*11 040	*11 040	*9 190	6 330	4 980	3 460	3 230	2 210	2 200	1 420	*2 060	1 380	7.62
	0 (Ground)	*9 400	*9 400	*9 410	6 160	*4 930	3 310	3 140	2 060			2 170	1 390	7.46
	-1.5	*10 870	*10 870	9 520	5 660	4 810	3 080	3 000	1 930			2 380	1 520	6.97
	-3.0	*13 850	*13 850	9 470	5 500	4 600	2 890	*2 650	1 900			*2 430	1 870	6.07
	-4.5											*6 730	*6 730	2.50

**ZAXIS 135US BLADE (ABOVE GROUND) 2-PIECE BOOM**

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

Conditions	Load point height m	Load radius										At max. reach		
		1.5 m		3.0 m		4.5 m		6.0 m		7.5 m				meter
2-Piece Boom Arm 2.10 m Counterweight 3 520 kg Shoe 500 mm	7.5											*4 430	*4 430	2.86
	6.0			*4 790	*4 790	*4 290	3 830					*3 120	*3 120	4.99
	4.5			*5 160	*5 160	*4 390	3 900	*3 140	2 330			*2 800	2 290	6.05
	3.0	*11 010	*11 010	*8 590	6 920	*4 960	*3 790	3 230	2 350			2 710	1 950	6.60
	1.5	*7 190	*7 190	*9 390	6 620	4 960	3 710	3 150	2 270			2 550	1 830	6.77
	0 (Ground)	*8 840	*8 840	9 540	6 350	4 930	3 470	3 050	2 170			2 620	1 870	6.59
	-1.5	*13 350	*13 350	9 540	6 050	4 680	3 250	3 000	2 120			2 980	2 110	6.03
	-3.0	*16 940	*16 940	*8 010	5 960	*3 740	3 210					*3 360	3 090	4.63
2-Piece Boom Arm 2.52 m Counterweight 3 520 kg Shoe 500 mm	7.5			*4 300	*4 300							*3 260	*3 260	3.68
	6.0					*3 910	3 890					*2 540	*2 540	5.49
	4.5			*3 920	*3 920	*4 130	3 930	3 290	2 410			*2 330	2 070	6.47
	3.0			*7 420	6 940	*4 650	3 820	3 280	2 400			*2 300	1 790	6.98
	1.5	*11 700	*11 700	*9 370	6 670	4 960	3 770	3 200	2 320			2 350	1 680	7.14
	0 (Ground)	*8 900	*8 900	*9 450	6 450	4 970	3 500	3 070	2 190			2 400	1 710	6.97
	-1.5	*11 880	*11 880	9 550	6 060	4 720	3 270	2 970	2 100			2 670	1 890	6.45
	-3.0	*14 840	*14 840	*9 060	5 920	4 590	3 160					*2 760	2 480	5.36
2-Piece Boom Arm 3.01 m Counterweight 3 520 kg Shoe 500 mm	7.5					*2 760	*2 760					*2 630	*2 630	4.56
	6.0					*3 320	*3 320	*2 440	2 410			*2 160	*2 160	6.10
	4.5					*3 510	*3 510	*3 150	2 490			*2 010	1 830	6.99
	3.0			*4 780	*4 780	*4 310	3 840	3 280	2 470			*1 980	1 600	7.47
	1.5	*11 040	*11 040	*9 190	*6 700	*4 950	3 680	3 210	2 380	2 180	1 550	*2 060	1 510	7.62
	0 (Ground)	*9 400	*9 400	*9 360	6 590	*4 930	3 550	3 110	2 230			2 150	1 520	7.46
	-1.5	*10 870	*10 870	*9 490	6 090	4 770	3 320	2 970	2 100			2 360	1 660	6.97
	-3.0	*13 850	*13 850	9 400	5 930	4 560	3 130	*2 650	2 070			*2 430	2 040	6.07
-4.5											*6 730	*6 730	2.50	

**ZAXIS 135US BLADE (ON GROUND) 2-PIECE BOOM**

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

Conditions	Load point height m	Load radius										At max. reach		
		1.5 m		3.0 m		4.5 m		6.0 m		7.5 m				meter
2-Piece Boom Arm 2.10 m Counterweight 3 520 kg Shoe 500 mm	7.5											*4 430	*4 430	2.86
	6.0			*4 790	*4 790	*4 290	3 830					*3 120	*3 120	4.99
	4.5			*5 160	*5 160	*4 390	3 900	*3 140	2 330			*2 800	2 290	6.05
	3.0	*11 010	*11 010	*8 590	6 920	*4 960	*3 790	*3 720	2 350			*2 750	1 950	6.60
	1.5	*7 190	*7 190	*9 390	6 620	*6 030	3 710	*4 030	2 270			*2 860	1 830	6.77
	0 (Ground)	*8 840	*8 840	*9 780	6 350	*6 250	3 470	*4 420	2 170			*3 180	1 870	6.59
	-1.5	*13 350	*13 350	*9 940	6 050	*6 260	3 250	*3 260	2 120			*3 160	2 110	6.03
	-3.0	*16 940	*16 940	*8 010	5 960	*3 740	3 210					*3 360	3 090	4.63
2-Piece Boom Arm 2.52 m Counterweight 3 520 kg Shoe 500 mm	7.5			*4 300	*4 300							*3 260	*3 260	3.68
	6.0					*3 910	3 890					*2 540	*2 540	5.49
	4.5			*3 920	*3 920	*4 130	3 930	*3 340	2 410			*2 330	2 070	6.47
	3.0			*7 420	6 940	*4 650	3 820	*3 520	2 400			*2 300	1 790	6.98
	1.5	*11 700	*11 700	*9 370	6 670	*5 650	3 770	*3 830	2 320			*2 400	1 680	7.14
	0 (Ground)	*8 900	*8 900	*9 700	6 450	*6 200	3 500	*4 240	2 190			*2 660	1 710	6.97
	-1.5	*11 880	*11 880	*9 810	6 060	*6 260	3 270	*4 100	2 100			*3 120	1 890	6.45
	-3.0	*14 840	*14 840	*9 060	5 920	*4 990	3 160					*2 760	2 480	5.36
2-Piece Boom Arm 3.01 m Counterweight 3 520 kg Shoe 500 mm	7.5					*2 760	*2 760					*2 630	*2 630	4.56
	6.0					*3 320	*3 320	*2 440	2 410			*2 160	*2 160	6.10
	4.5					*3 510	*3 510	*3 150	2 490			*2 010	1 830	6.99
	3.0			*4 780	*4 780	*4 310	3 840	*3 310	2 470			*1 980	1 600	7.47
	1.5	*11 040	*11 040	*9 190	*6 700	*5 200	3 680	*3 620	2 380	*2 570	1 550	*2 060	1 510	7.62
	0 (Ground)	*9 400	*9 400	*9 580	6 590	*6 140	3 550	*4 020	2 230			*2 260	1 520	7.46
	-1.5	*10 870	*10 870	*9 670	6 090	*6 160	3 320	*4 380	2 100			*2 640	1 660	6.97
	-3.0	*13 850	*13 850	*9 710	5 930	*5 800	3 130	*2 650	2 070			*2 430	2 040	6.07
-4.5											*6 730	*6 730	2.50	

# EQUIPMENT

● : Standard equipment

○ : Optional equipment

## ENGINE

Aftertreatment device	●
Air cleaner double filters	●
Alternator 50 A	●
Auto idle system	●
Auto shut-down control	●
Cartridge-type engine oil filter	●
Cartridge-type fuel main filter	●
Cold fuel resistance valve	○
DEF/AdBlue® tank inlet strainer and extension filter	●
DEF/AdBlue® tank with ISO magnet adapter	●
Dry-type air filter with evacuator valve (with air filter restriction indicator)	●
Dust-proof indoor net	●
ECO/PWR mode control	●
Electrical fuel feed pump	●
Engine oil drain coupler	●
Expansion tank	●
Fan guard	●
Fuel cooler	●
Fuel pre-filter with water separator	●
Isolation-mounted engine	●
Maintenance free pre-cleaner	○
Radiator, oil cooler and intercooler	●

## HYDRAULIC SYSTEM

Auto power lift	●
Control valve with main relief valve	●
Extra port for control valve	●
Full-flow filter	●
High mesh full flow filter with restriction indicator	○
Hose rupture valve for arm	●
Hose rupture valve for boom	●
Pilot filter	●
Power boost	●
Suction filter	●
Variable reliefvalve for breaker & crusher	●
Work mode selector	●

## CAB

All-weather sound suppressed steel cab	●
AM-FM radio	●
Ashtray	●
Auto control air conditioner	●
AUX function lever (Breaker assist)	○
AUX terminal and storage	●
Cigarette lighter 24 V	●
CRES V (Center pillar reinforced structure) cab	●
Drink holder with hot & cool function	●
Electric double horn	●
Engine shut-off switch	●
Equipped with reinforced, tinted (green color) glass windows	●
Evacuation hammer	●
Floor mat	●
Footrest	●
Front window washer	●
Glove compartment	●
Hot & cool box	●
Intermittent windshield wipers	●
Key cylinder light	●
Laminated round glass window	○
OPG front guard Level II (ISO10262) compliant cab	○
OPG top guard Level I (ISO10262) compliant cab	●
OPG top guard Level II (ISO10262) compliant cab	○
Pilot control shut-off lever	●
Power outlet 12 V	○
Rain guard	○
Retractable seat belt	●
ROPS (ISO12117-2) compliant cab	●
Rubber radio antenna	●
Seat : air suspension seat with heater	●
Seat adjustment part : backrest, armrest, height and angle, slide forward / back	●
Short wrist control levers	●
Sun visor (front window/side window)	○
Transparent roof with slide curtain	●
Windows on front, upper, lower and left side can be opened	●
2 speakers	●
4 fluid-filled elastic mounts	●

## MONITOR SYSTEM

Alarms: overhear, engine warning, engine oil pressure, alternator, minimum fuel level, hydraulic filter restriction, air filter restriction, work mode, overload, SCR system trouble, etc	●
Alarm buzzers: overhear, engine oil pressure, overload, SCR system trouble	●
Display of meters: water temperature, hour, fuel rate, clock, DEF/AdBlue® rate	●
Other displays: work mode, auto-idle, glow, rearview monitor, operating conditions, etc	●
32 languages selection	●

## LIGHTS

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

## UPPER STRUCTURE

Batteries 2 x 58 Ah	●
Battery disconnect switch	●
Body top handrail	●
Counterweight 3 520 kg	●
Electric fuel refilling pump with auto stop and filter	●
Fuel level float	●
Hydraulic oil level gauge	●
Lockable fuel refilling cap	●
Lockable machine covers	●
Lockable tool box	●
Platform handrail	●
Rear view camera	●
Rear view mirror (right & left side)	●
Skid-resistant plates and handrails	●
Swing parking brake	●
Undercover	●

## UNDERCARRIAGE

Bolt-on sprocket	●
Blade	○
Reinforced track links with pin seals	●
Shoe: 500 mm triple grouser	●
Track undercover	○
Travel direction mark on track frame	●
Travel motor covers	●
Travel parking brake	●
Upper and lower rollers	●
1 track guard (each side) and hydraulic track adjuster	●
2 track guards (each side) and hydraulic track adjuster	○
4 tie down brackets	●

## FRONT ATTACHMENTS

Casted bucket link A	●
Centralized lubrication system	●
Dirt seal on all bucket pins	●
Flanged pin	●
HN bushing	●
Reinforced resin thrust plate	●
WC (tungsten-carbide) thermal spraying	●
Welded bucket link A with welded hook	○

## ATTACHMENTS

Accessories for 2 speed selector	○
Additional pump (30 L/min)	○
Assist piping	○
Attachment basic piping	●
Breaker and crusher piping	●
Parts for breaker and crusher	●
Pilot accumulator	○

## MISCELLANEOUS

Global e-Service	●
Onboard information controller	●
Standard tool kit	●

# MEMO



Lined writing area with horizontal lines for text entry.





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

These specifications are subject to change without notice. Illustrations and photos show the standard models, and may or may not include optional equipment, accessories, and all standard equipment with some differences in color and features. Before use, read and understand the Operator's Manual for proper operation.

