SH460HD-5/SH480LHD-5/SH500LHD-5 Hydraulic Excavator

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Cat. No. 1004©PDF.SH460/480/500-5-03 Printed in Japan

SUMITOMO

SH460HD-5
SH480LHD-5
SH500LHD-5

- Engine Rated Power・Net : 270 kW・367 PS
- Operating weight :
  - SH460HD-5 ····· 45,900～46,600 kg
  - SH480LHD-5 ····· 46,700～47,400 kg
  - SH500LHD-5 ····· 48,100～48,800 kg
  - SH480LHD-5 MASS ····· 47,200～47,900 kg
  - SH500LHD-5 MASS ····· 48,600～49,300 kg
- Bucket Capacity(ISO heaped) : 1.8～3.0 m³

LEGEST

MADE IN JAPAN

The world knows that Japanese design and manufacturing is the best especially for industrial products. The hydraulic excavator is not the exception when a total integration concept is required in design work involving key components, manufacturing engineering and product quality assurance in the factory.
All SUMITOMO hydraulic excavators are engineered and assembled in SUMITOMO's one and only factory located in Chiba City, Japan, and distributed to each country in the world. This distinctive feature is unique to SUMITOMO, giving the SUMITOMO machine users total comfort and reliance on product quality.

(Note: Some of the items manufactured and sourced in other countries may be assembled in Japan.)

- The new engine complies with the Emission Regulations U.S. EPA Tier Ⅲ, and EU Stage ⅢA.
- The advanced low noise design complies with the upcoming EU noise regulation 2000/14/EC, STAGE Ⅱ.

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Courtesy of Machine.Market

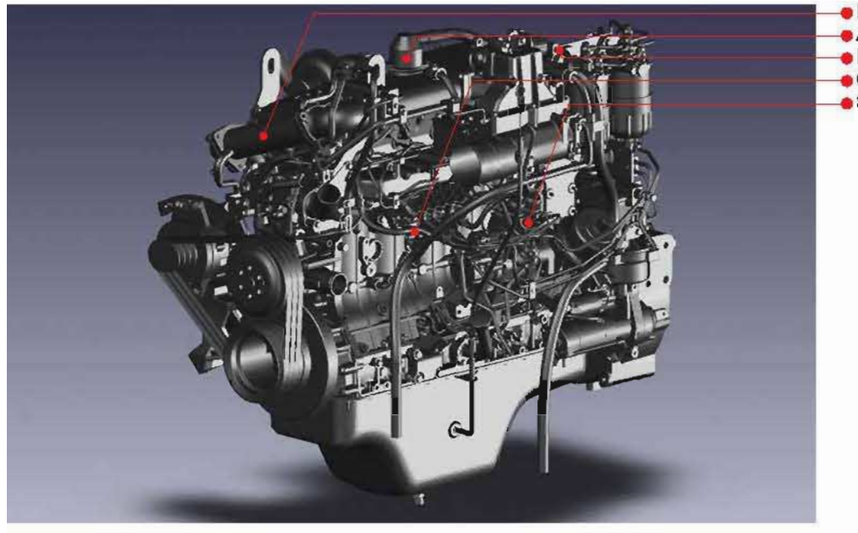
Engine and Hydraulics

SPACE5

SUMITOMO Powerful And Clean Engine System

❶Powerful ❷Economy ❸Clean ❹Silent ❺Strong

"SPACE5" is a new engine system consisting of five (5) special features.



Engine

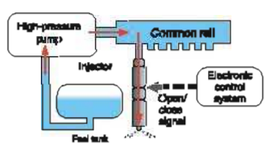
A newly developed ISUZU engine the 6HK1X complies with Emission Regulations U.S. EPA Tier Ⅱ and EU Stage ⅡA. This produces higher output and torque, and far better fuel consumption than the previous model. 5% reduction in fuel consumption using the new engine system "SPACE5" (As compared with existing models)

Engine

SH460HD/SH460LHD/SH500LHD-5		
Name of engine		ISUZU AH-6UZ1XYSS
Type		24-valve OHC
Displacement	cc	9,840
Number of cylinders - Dia. x Stroke	mm	6-120 x 145
Rated output	kW/min^{-1}	270/1,950
Max. torque	N·m/min^{-1}	1,435/1,500
Size (Length-Width-Height)	mm	1236x953x1272 without Fan
Cylinder block		Ladder frame
Fan belt		V-Belt

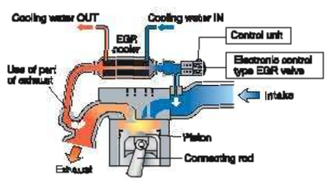
Common Rail Type High-Pressure Fuel Injection System

The system is equipped with a common rail type high-compression fuel injection system, which permits high-precision injection from multiple injectors under ultra high-pressure of more than 1600 atm. Precise control of injection time and injection quality at the rate of 1/1000 second optimizes combustion, improves combustion efficiency, and reduces PM (particulate matter) substantially.



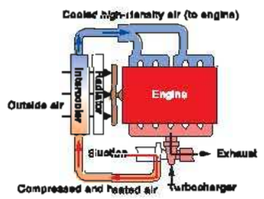
Cooled EGR System

The EGR (Exhaust Gas Recirculation) mixes exhaust gas, which is once exhausted, with the air intake that is taken in so as to lower the combustion temperature, thereby reducing NOx (nitrogen oxide). Adoption of the cooled EGR system, in which a water cooler is installed in the middle of the re-circulation pipe, permitting further decrease in the intake temperature, ensuring a better NOx reduction effect than the ordinary EGR.



24 valve OHC Turbo Engine with Inter-Cooler

When the inter-cooler cools the intake air, which is compressed by a turbocharger and has reached a high temperature, the density of the air increases and the suction efficiency increases. Therefore, NOx and PM can be reduced substantially, permitting high output and improvement of fuel efficiency simultaneously.

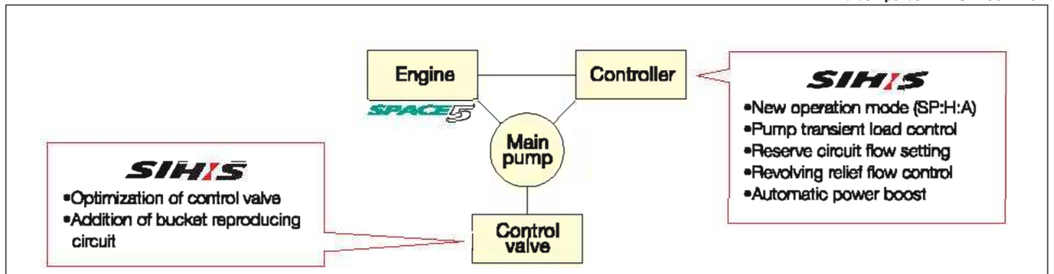


SIHIS

SUMITOMO Intelligent Hydraulic System

●18% increase in bucket closing speed

* As compared with SH450HD-3B



SP (Speed Priority mode) SUMITOMO

SP "Speed Priority" mode has been developed, which is not available in competitors models nor in our previous model. This will create biggest productivity in its class with more economical fuel efficiency even in comparison with the Heavy mode of our previous model. In addition, the throttle control is simple to use.

Automatic Power Boost SUMITOMO

The digging power increases automatically in quick response to the working conditions without switching operations during heavy -duty digging work. It is SUMITOMO'S original design and continues for 8 seconds.

Quick and Smooth Control Response

A total review of the hydraulic circuit and miscellaneous hydraulic settings guarantee speedy and precise operation through a smooth control lever.

The integration of the new engine system "SPACE 5" and new hydraulic system "SIH:S" has created 3% fuel efficiency improvement in comparison with our conventional model.

New engine system SPACE5 + New hydraulic system SIHIS = 3% reduction in fuel consumption compared to SH450HD-3B (H mode)

"The fuel consumption may vary from time to time depending on site and working conditions, operator skill and other circumstances.

Greater productivity and increased working efficiency

Hydraulic Oil Flow Control SUMITOMO

In the case of sudden lever movement and high load activation, the newly developed hydraulic control system reduces the main pump oil flow intentionally and keeps the engine speed at a constant level. This enables a reduction in fuel consumption. In addition, this also reduces the level of exhaust smoke due to excessive fuel injection.

Reduction of Hydraulic Oil Flow at Swing SUMITOMO

The hydraulic oil quantity required at the time of sudden swing motion is limited. The new hydraulic system can start the oil flow volume at the minimum level and then allow it to increase on demand. This optimum oil flow control significantly improves the fuel efficiency.

Increased Pump Efficiency

The new modified hydraulic pump structure lowers the oil leak volume in the pump which means improved pump efficiency and improved engine fuel efficiency.

Mode Selection by Throttle

Mode selection by pressing the button in our previous model sometimes cause inconveniences for the operator. The throttle control system has been upgraded and the new system "A" mode which stands for "Adjustment Mode" now covers the 3 previous modes of "Auto, Standard and Light". In addition there is "H" (Heavy) mode and "SP" (Speed Priority) mode, and the hydrostatic pump oil flow will be regulated automatically in each of the 3 modes respectively.

The SP mode is added to the operation mode. Furthermore, the A (Adjustment) mode is added to the SP and H modes, respectively. In comparison with the H mode of Dash 3, the H mode of Dash 5 has reduced the fuel consumption by 5% as compared with Dash 3.

Throttle knob position	1	2	3	4~15
Engine speed	2,000	1,800	1,750	1,749~800
Operation mode	SP	H	A	
Automatic power boost	Automatic			Constant

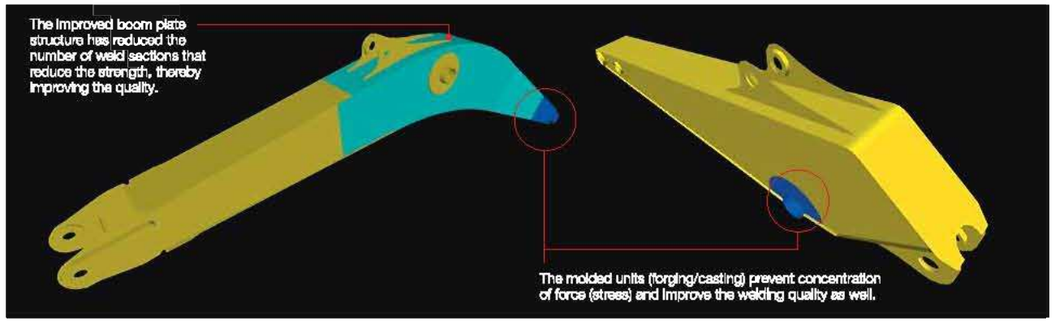
H	HEAVY (Speed priority)	Reduction in fuel consumption by 3%	SP	SPEED PRIORITY
A	AUTO (Speed and fuel efficiency)		H	HEAVY (Speed and fuel efficiency)
S	STANDARD (Fuel priority)	Same level in fuel consumption	A (13 steps)	ADJUSTMENT (Ordinary operation/ Fine and lifting operation)
L	LIGHT/LIFT (Fine and lifting operation)			

Operation

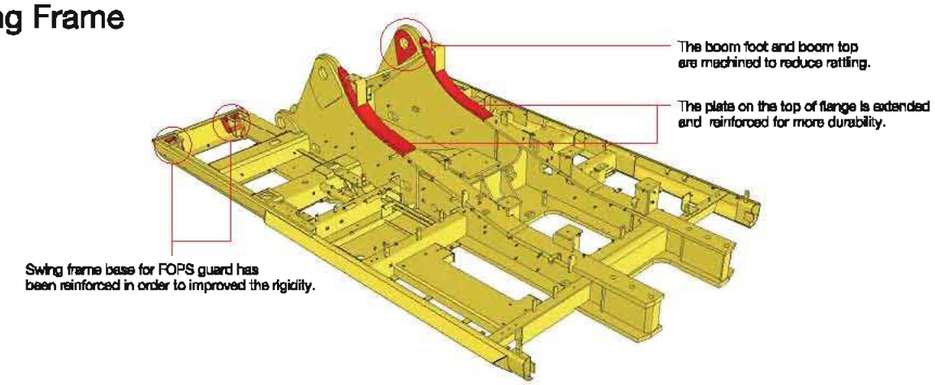
SH450HD-3B SH460HD-5

Boom & Arm

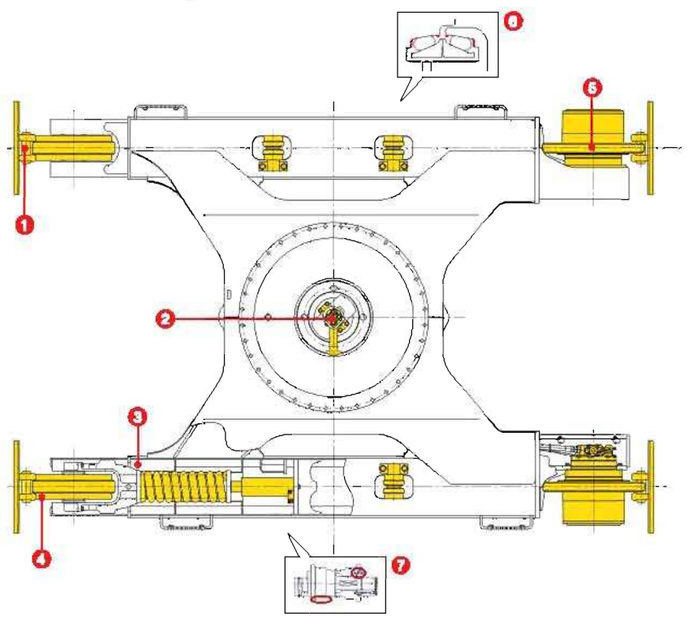
1. The boom structure is 2 pieces.
2. High strength castings are used for the boom base and arm foot.
3. Thicker steel plate is used for added strength.



Swing Frame



Undercarriage



1 Link shoe
M-type seal increased pin hardness

2 Center joint
Prevention of bolt loosening

3 Recoil spring
Use of high hardness material

4 Idler
Reinforced boss

5 Travel motor
Improved seal

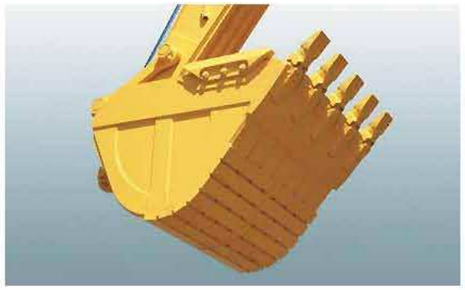
6 Carrier roller
Tread machining addition of jaw

7 Track roller
Tread machining addition of jaw prevention of bolt loosening

Durability

Heavy duty applications for SH460HD-5, SH480LHD-5, and SH500LHD-5

High-durability buckets



The adaption of a high wear resistant 'super v' has increased durability.

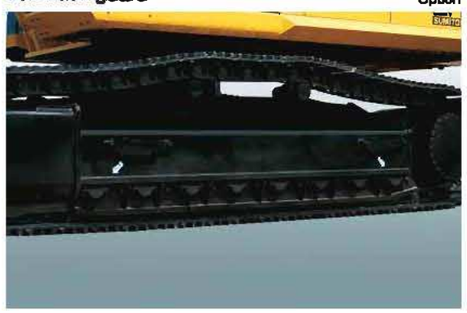
Plating (Reinforcing)

Cab-top light/Front mesh guard/ Head guard(FOPS level 2) * Option

Reinforced undercover

Side guard * Option

Full track guard * Option



MASS version
SH480LHD-5 MASS / SH500LHD-5 MASS

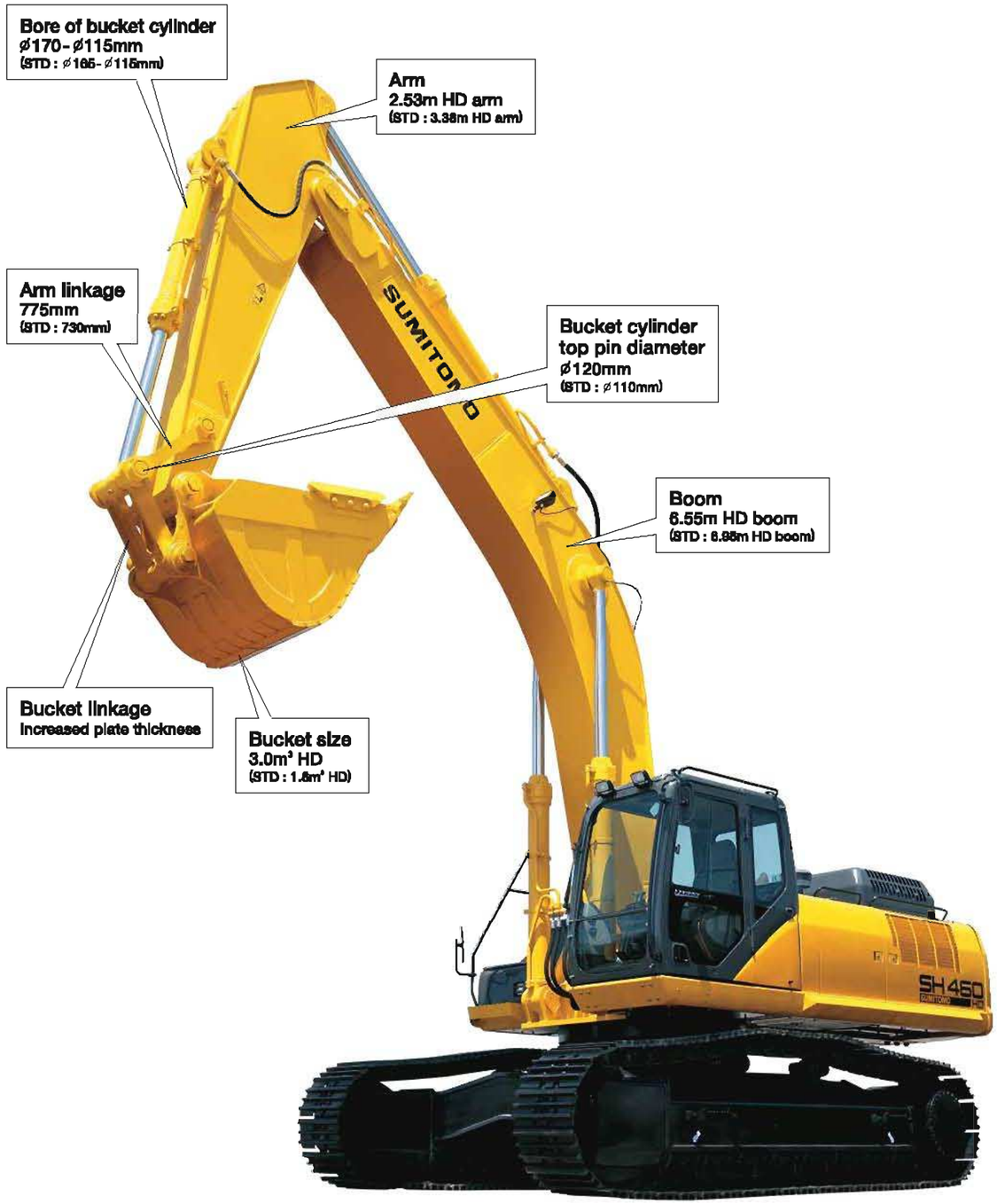


Photo : SH460HD-5 (STD version)

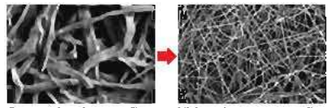
High-Performance Return Filter

The hydraulic oil change interval is 5,000hours, and the return filter change interval is 2,000hours. One high performance return filter keeps the same level of filtering effect as a nephron.

- Hydraulic oil change : **5,000 hours**
- Life of filter : **2,000 hours**

* The oil and filter change interval depends on the working conditions.

The High-Performance Return Filter is made more precisely to condense the Nephron filter function.



Conventional return filter　High-performance return filter

Fuel Tank

Stainless steel is used for the strainer that prevents dust entering during re-fueling. Furthermore, a maintenance hole is provided to permit easy periodical maintenance.

Stainless steel strainer

Maintenance hole for cleaning

Engine Oil Drain Coupler

The engine oil pan is provided with a drain coupler. This makes easier to do drain work and preventing oil from spattering with an attached drain hose.

EMS (Easy Maintenance System) as Standard

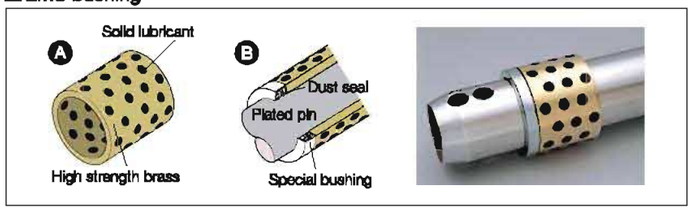
SUMITOMO's new improved EMS keeps the pins and bushes fully lubricated at all times and prevents rattling. This system significantly extends the service life of the pins and bushes.

The interval of greasing around the bucket is 250hours, keeping the joints lubricated for a long time and extending the service life of parts by reducing abrasion and rattling.

- Greasing interval for other sections : **1,000 hours**

* The greasing interval depends on the working conditions.

■ EMS bushing



Ⓐ A solid lubricant embedded in high strength brass forms a layer on the bushing surface to prevent contact between metals, maintaining an excellent lubricated state to reduce abrasion of joints.

Ⓑ The surface of the pin is plated to increase the surface hardness and improve the wear resistance accordingly.

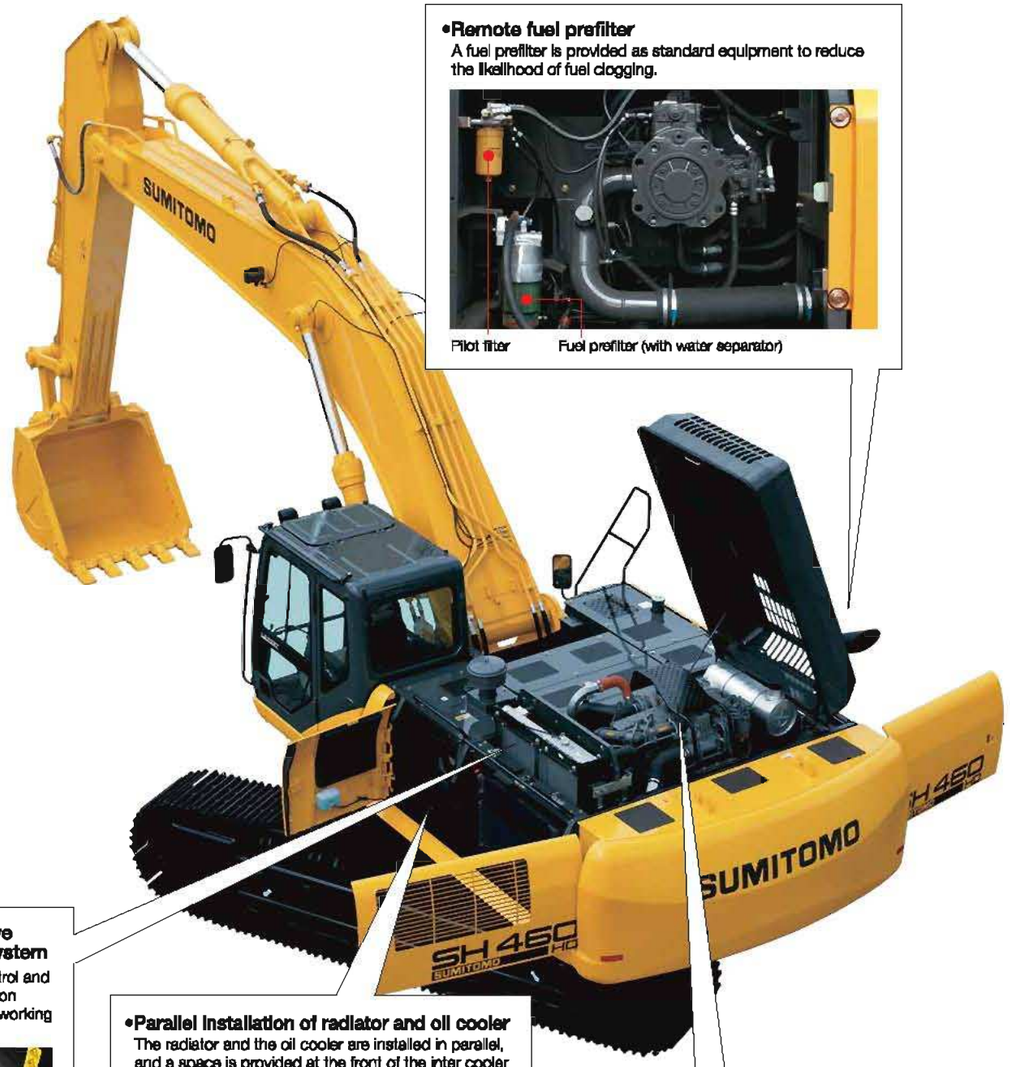
➡ Sections equipped with EMS bushing

Precautionary use of EMS

① Grease is enclosed, however, greasing is necessary every 1,000 hours or six months depending on the level of dusting conditions.
② Greasing is also necessary after any components have been submerged underwater for prolonged periods.
③ Greasing is also recommended after use with hydraulic breakers, crushers or other high impact attachments such as Rock Saws etc.
④ Bucket pins should be cleaned thoroughly when removing or attaching new buckets.

Ground level access for easy cleaning and replacement

Parts cleaning and maintenance are possible from the ground without climbing onto the upper structure of the excavator body.

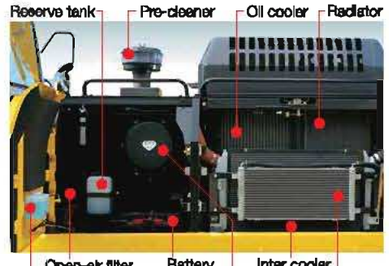


•Remote fuel prefilter
A fuel prefilter is provided as standard equipment to reduce the likelihood of fuel clogging.

•Hydraulic drive cooling fan system
Ideal cooling control and low-noise operation according to the working environment.

•Easier cleaning by reversed fan rotation
The switch in the cab allows the cooling fan to rotate in reverse to remove dust from the radiator, oil cooler, inter cooler, and fuel cooler to prevent clogging.

•Parallel installation of radiator and oil cooler
The radiator and the oil cooler are installed in parallel, and a space is provided at the front of the inter cooler to facilitate cleaning.



•Engine maintenance steps
The engine room designed to permit safe maintenance.

Operator Comfort

SUMITOMO's Redesigned Cabin and Seat for Optimum Operator Comfort

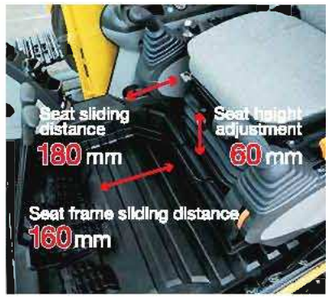
The seat reclining system allows the operator to lay the seat flat and to rest on site without removing the headrest.

The KAB Seat Eliminates Vibration

Air suspension (Option)

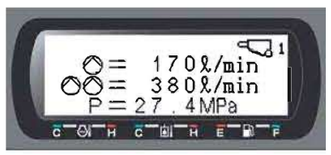
Operating Positions of Sliding Seat and Tilting Console

In addition to the tilting console that is adjustable in four steps vertically, the increased sliding distance ensures optimum working conditions.



Flow Setting in 10 Patterns and Switching of Combined Circuit

The switch panel in the cab permits setting the flow rate for work with a maximum of ten different special attachments in advance. A circuit change for the breaker and crusher is also possible in the cab.



Adoption of Short Lever

Simple to Read LCD Monitor and Switch Panel

In addition to the monitor that is easy to read during daytime as well as nighttime by changing the backlight to white, a simple and convenient universally designed switch panel is provided.

Warning message

1. OVER HEAT
2. ALTERNATOR
3. LOW FUEL
4. LOW OIL PRESSURE
5. LOW COOLANT
6. ELEC.PROBLEM
7. OVER LOAD (option)
8. AIR FILTER
9. CHECK ENGINE
10. BOOST TEMP. HIGH
11. CHECK BREAKER FILTER (option)

Active condition message

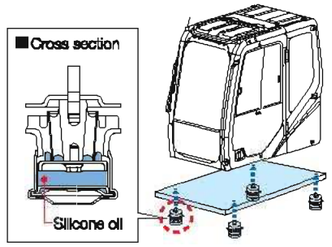
1. ENG.PRE HEAT
2. AUTO WARM UP
3. ENG.IDLING
4. POWER UP
5. ENGINE STOP

Language menu

Japanese	Danish
English	Norwegian
Thai	Swedish
Chinese	Finnish
German	Turkish
French	Arabic
Italian	Malay
Spanish	Indonesian
Portuguese	(Pictograph)
Dutch	

Fluid Filled Cab Mounts

Four fluid cab mounts reduce vibration and impact transmitted to the cabin, and improve the operators' sitting quality and reduce operator fatigue.



Automatic Air Conditioner with Round Outlets for Increased Comfort

The air outlets of the air conditioner are provided with round grills with wide adjusting angles. The efficiency of the air conditioner has been increased by pressurizing the cab to make it airtight, providing a comfortable space.

ISO-compliant Pressurized Cab to Prevent Dust Entry

The sealed and pressurized (sealing by pressure) cab prevents entry of dust from outside.

Convenient One-touch Muting of AM/FM Radio

SUMITOMO unique design

An AM/FM radio is provided as standard equipment. The mute switch on the left lever permits one-touch muting of the radio.

Safety

The wide view increases the safety of work

In addition to the wide front view, the down-right view is also made larger to enhance the safety of work.

Upward view

The shape of the opening has been improved and the width of the upper pillar has been narrowed to ensure comfortable upward view.

Safety Equipment in case of an Emergency

Emergency stop switch

New Gate Lock Lever and Console Tilt-up Function

The console tilt-up function permits easy entry and exit.

Safe and Easy Entry Into and Exit from the Cab

A large handrail for easy opening/closing of the door and a non-slip plate are installed to permit the operator to get in and out of the cab easily.

Large handrail

New non-slip plate

Easy Access to the Upper Structure

A large step and handrail, as well as a non-slip place, minimize the effort when climbing on and off the upper structure.

Front-right large step

Non-slip plate

ISO-compliant large handrail

Anti-theft Alarm System

SUMITOMO's unique anti-theft system can be activated by your SUMITOMO distributors at the time of purchase.

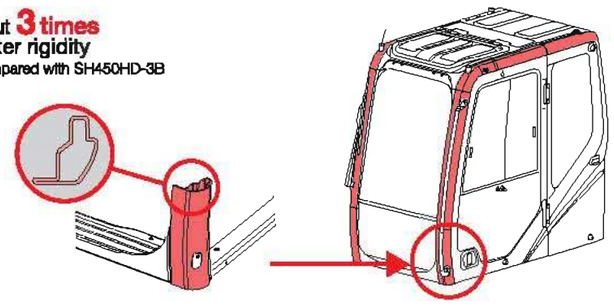
Anti-theft alarm system

High-rigidity Cabin

The new cabin structure provides advanced operator protection.

- About **3 times** greater rigidity

* As compared with SH450HD-3B



Customer and Product Support

SUMITOMO's total commitment to product and customer support has enabled it grow into a world renowned manufacturer of hydraulic excavators. Supported by a global sales and service network of over four hundred distributors representing hydraulic excavators manufactured by SUMITOMO, the company supply 70% of total production from Japan to all five continents.
A spread of over one thousand outlets offering excellent parts and service support has global coverage ensuring SUMITOMO hydraulic excavator users have at their disposal Regional Spare Parts Centers, technical repair shops and service vehicles carrying all the necessary equipment to service and repair any hydraulic excavator manufactured by SUMITOMO.
SUMITOMO aims to produce the right products to meet all work applications and at the same time provide the highest level of more training and education to ensure complete product support quality throughout the service network in the world.

Specifications

SH460HD/SH480LHD/500LHD-5 Technical Data

Engine

SH460HD/SH480LHD/SH500LHD-5	
Model	ISUZU AH-6UZ1XYSS
Type	Water-cooled, 4-cycle,diesel, 6-cylinder in line, direct injection (electric control), turbochanger with air cooled intercooler.
Rated output	270 kW(367 PS)/1 950 min^{-1}
Maximum torque	1 435 N-m at 1 500min^{-1}
Piston displacement	9 839 cc
Bore and stroke	120 mm x 145 mm
Starting system	24 V electric motor starting
Alternator	24 V , 50 A
Fuel tank	650 liters
Air filter	Double element

SIH:S

Two variable displacement axial piston pumps, one gear pump for pilot controls and the electronic-controlled engine of SPACE5 and SIH:S (SUMITOMO Interigent Hydraulic System) includes: three working mode (SP,H,A) one-touch/automatic idling system and automatic power-boost.

Hydraulic pumps

Two variable displacement axial piston pumps supply power for attachment, swing and travel.

SH460HD/SH480LHD/SH500LHD-5	
Maximum oil flow	2 X 360 liters/min
Pilot pump max.oil flow	30 liters/min

Hydraulic motors

For travel: Two variable displacement axial piston motors
For swing: One fixed displacement axial piston motor

Working circuit pressure

Boom/arm/bucket ···· 24.5 MPa(250 kgf/cm^2)<Holding pressure(Boom down)>
36.3 MPa(370 kgf/cm^2)<Holding pressure(Others)>
Boom/arm/bucket ···· 31.4 MPa (320 kgf/cm^2)
Boom/arm/bucket ···· 34.3 MPa(350 kgf/cm^2)with Power-up<Working pressure>
Swing circuit ····· 29.4 MPa(300 kgf/cm^2)
Travel circuit ····· 34.3 MPa(350 kgf/cm^2)

Control valve

With boom/arm holding valve
One 4-spool valve for right track travel, bucket, boom and arm acceleration
One 5-spool valve for left track travel, auxiliary, swing, boom acceleration and arm

Oil filtration

Suction filter ····· 105 micron
Return filter ····· 6 micron
Pilot filter line ····· 8 micron

Hydraulic cylinders

SH460HD/SH480LHD/SH500LHD-5		
Boom	2	170 mm x 115 mm x 1 550 mm
Arm	1	200 mm x 140 mm x 1 820 mm
Bucket	1	165 mm x 115 mm x 1 285 mm

Double-acting, bolt-up-type cylinder tube-end; hardened steel bushings are installed in the cylinder tube and rods ends.

Cab & Controls

The cab is mounted on 4 fluid mountings. Features include safety glass front, rear and side windows, reclining/sliding cloth upholstered suspension seat with headrest and armrest, cigarette lighter, pop-up skylight window, and intermittent wiper with washer. The front window slides upward for storage, and the lower front window is removable. Control levers are located in 4 positions with tilting control consoles. Reliable soft-touch switches are a standard feature. An easy-to-read full-dot LCD monitor keeps operation in touch with critical machine functions.

Swing

Planetary reduction is powered by an axial piston motor. The internal ring gear with has a grease cavity for pinion. The swing bearing is a single-row shear type ball bearing. Dual stage relief valves are used for smooth swing deceleration and stops. A mechanical disc swing brake is included.

SH460HD/SH480LHD/SH500LHD-5	
Swing speed	0~9.0 rpm
Tail swing radius	3 680 mm
Swing torque	150 KN·m(15 300 kgf·m)

Undercarriage

An X-style carbody is integrally welded for strength and durability.
The grease cylinder track adjusters have shock absorbing springs.
The undercarriage has lubricated rollers and idlers.

Type of shoe: sealed link shoe

Upper rollers -
Heat treated, mounted on steel bushings
with leaded bronze casting, sealed for lifetime lubrication.

Lower rollers -
Heat treated, mounted on steel bushings
with leaded bronze casting, sealed for lifetime lubrication.

Track adjustment -
Idler axles adjusted with grease cylinder integral with each side frame; adjustment yoke mechanism fitted with heavy duty recoil spring.

Number of rollers and shoes on each side

SH460HD-5	
Upper rollers	2
Lower rollers	8
Track shoes	47

SH480LHD-5 (SH500LHD-5)	
Upper rollers	2(3)
Lower rollers	9
Track shoes	50

Travel System

Two-speed independent hydrostatic system with compact axial motors for Increased performance. Hydraulic motor powerd output shaft coupled to a planetary reduction unit and track sprocket. All hydraulic components mounted within the width of side frame.
Travel speed can be selected by switch panel.
Hydraulically released disc parking brake is built each motor.

SH460HD/SH480LHD/SH500LHD-5		
Travel speed	High	5.3 km/h
	Low	3.1 km/h
Drawbar Pull		341 kN (34 800 kgf)

Lubricant & Coolant capacity

SH460HD/SH480LHD/SH500LHD-5	
Hydraulic system	460 liters
Hydraulic oil tank	230 liters
Fuel tank	650 liters
Cooling system	38 liters
Final drive case(per side)	15 liters
Swing drive case	10.5 liters
Engine crank case (with remote oil filter)	36 liters

Auxiliary hydraulic system

	SH460HD/SH480LHD/SH500LHD-5	
Auxiliary piping type (option)	For Braeker	For Double (breaker & crusher) acting
Arm type	STD	HD with Reinforcement plate
Bucket linkage type	HD	HD
Auxiliary hydraulic pump flow	max.320 liter/min	max.700 liter/min

Bucket

Model			SH460HD/SH480LHD/SH500LHD-5		SH480LHD/SH500LHD-5 MASS
Bucket capacity (ISO/SAE/PCSA heaped)	unit:mm		1.8 HD	2.0 HD	3.0HD
Bucket capacity CECE heaped	unit:mm		1.6 m^3	1.8 m^3	2.7m^3
Bucket type			HD	HD	HD
No. of tooth			5	5	6
Width	unit:mm	With side cutter	1 508	1 638	1885
		Without side cutter	1 400	1 530	1885
Weight		unit kg	1 830	1 930	2830
		2.53 m arm	◎	●	●
		3.38 m arm	●	○	—

◎ Suitable for materials with density up to 2 000 kg/m^3 or less
● Standard bucket (Suitable for materials with density up to 1 800 kg/m^3 or less)
○ Suitable for materials with density up to 1 600 kg/m^3 or less
△ Suitable for materials with density up to 1 200 kg/m^3 or less

Weight & Ground Pressure

Model	SH460HD-5		
Shoe type	Shoe width	Operating weight	Ground pressure
Triple grouser shoe	600 mm	45 900 kg	85 kPa
	750 mm	46 600 kg	69 kPa

Model	SH480LHD-5		
Shoe type	Shoe width	Operating weight	Ground pressure
Triple grouser shoe	600 mm	46 700 kg	80 kPa
	750 mm	47 400 kg	65 kPa

Model	SH500LHD-5		
Shoe type	Shoe width	Operating weight	Ground pressure
Triple grouser shoe	600 mm	48 100 kg	82 kPa
	750 mm	48 800 kg	67 kPa

Model	SH480LHD-5 MASS		
Shoe type	Shoe width	Operating weight	Ground pressure
Triple grouser shoe	600 mm	47 200 kg	81 kPa
	750 mm	47 900 kg	66 kPa

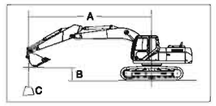
Model	SH500LHD-5 MASS		
Shoe type	Shoe width	Operating weight	Ground pressure
Triple grouser shoe	600 mm	48 600 kg	83 kPa
	750 mm	49 300 kg	68 kPa

Digging Force

Model		SH460HD/SH480LHD/SH500LHD-5	
Arm length		2.53 m	3.38m
Bucket digging force <with auto power up>	ISO 6015	247kN 〈270kN〉	
	SAE: PCSA	220kN 〈240kN〉	
Arm digging force <with auto power up>	ISO	257kN 〈281kN〉	209kN 〈229kN〉
	SAE: PCSA	248kN 〈272kN〉	203kN 〈222kN〉

Lifting Capacity

Notes: 1. Ratings are based on SAE J/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 a hook (not standard equipment) located on the back of the bucket.
4. *Indicates load limited by hydraulic capacity.
5. 0m = Ground.



A: Radius of load
B: Bucket hook height
C: Lifting capacity

Load Radius Over Front

Load Radius Over Side

Unit : kg

SH460HD-5

SHOE : 600 (mm)G
BUCKET : SAE/PCSA 1.8 (m³)
ARM LENGTH = 3.38 (m)
MAXIMUM REACH = 10.28 (m)
BOOM : 6.98 (m)

Bucket Hook Height	Radius of Load: Max. Radius				10 m		9 m		8 m		7 m		6 m		5 m		4 m		3 m		2 m		Min. Radius			
7 m	8 365*	8.76	6 747	8.76					9 055*	8 112													9 200*	7.6	8 953	7.6
6 m	6 411*	9.58	5 489	9.58			8 931*	6 276	9 380*	7 913													9 934*	7.11	9 822	7.11
5 m	6 531*	9.91	4 998	9.91			9 198*	6 113	9 855*	7 646	10 762*	9 706											11 851*	6.12	11 851*	6.12
4 m	6 744*	10.14	4 653	10.14	7 546	4 791	9 149	5 913	10 417*	7 340	11 618*	9 246	13 346*	11 940	16 006*	16 006*	20 598*	20 598*					22 729*	3.16	22 729*	3.16
3 m	7 059*	10.26	4 424	10.26	7 405	4 659	8 919	5 699	10 902	7 022	12 490*	8 778	14 658*	11 228	18 062*	14 894	24 108*	20 975					13 730*	3.54	13 730*	3.54
2 m	6 923	10.28	4 294	10.28	7 264	4 527	8 698	5 493	10 576	6 723	13 151	8 348	15 790*	10 599	19 694*	13 947	17 773*	17 773*					10 492*	3.6	10 492*	3.6
1 m	6 909	10.2	4 257	10.2	7 142	4 413	8 504	5 313	10 295	6 486	12 755	7 991	16 361	10 110	20 680*	13 299	16 807*	16 807*					12 236*	3.49	12 236*	3.49
0 m	7 034	10.02	4 317	10.02	7 055	4 332	8 354	5 174	10 079	6 268	12 461	7 726	15 981	9 775	21 019*	12 923	18 913*	18 569					14 870*	3.41	14 870*	3.41
-1 m	7 319	9.73	4 489	9.73			8 262	5 089	9 937	6 138	12 274	7 557	15 761	9 582	20 801*	12 747	22 501*	18 518					17 378*	3.17	17 378*	3.17
-2 m	7 813	9.33	4 804	9.33			8 241	5 070	9 878	6 084	12 192	7 483	15 679	9 510	20 093*	12 719	24 679*	18 605	19 490*	19 490*			19 760*	2.78	19 760*	2.78
-3 m	8 610	8.79	5 320	8.79					9 911	6 114	12 214	7 503	15 721	9 547	18 892*	12 812	22 889*	18 810	24 560*	24 560*			21 997*	2.18	21 997*	2.18
-4 m	9 726*	8.09	6 160	8.09					9 927*	6 257	12 069*	7 627	14 381*	9 692	17 119*	13 019	20 488*	19 139	24 772*	24 772*			25 246*	2.03	24 092*	1.69
-5 m	9 513*	7.18	7 609	7.18							9 950*	7 894	12 216*	9 967	14 584*	13 360	17 266*	17 266*	20 451*	20 451*			23 182*	2.3	23 182*	2.3
-6 m	8 745*	5.97	8 745*	5.97											10 854*	10 854*	12 824*	12 824*					13 511*	3.64	13 511*	3.64

SH460HD-5

SHOE : 600 (mm)G
BUCKET : SAE/PCSA 2.0 (m³)
ARM LENGTH = 2.53 (m)
MAXIMUM REACH = 9.48 (m)
BOOM : 6.98 (m)

Bucket Hook Height	Radius of Load: Max. Radius				10 m		9 m		8 m		7 m		6 m		5 m		4 m		3 m		2 m		Min. Radius			
7 m	10 215*	7.89	8 050	7.89							10 701*	10 108											10 921*	6.69	10 921*	6.69
6 m	9 738*	8.71	6 503	8.71					10 383*	7 691	11 189*	9 812											12 355*	6	12 355*	6
5 m	9 055	9.08	5 864	9.08			9 199	5 965	10 769*	7 458	11 864*	9 423	13 462*	12 189	15 932*	15 932*	20 233*	20 233*					25 114*	3.39	25 114*	3.39
4 m	8 482	9.32	5 430	9.32			9 031	5 809	11 069	7 184	12 627*	8 989	14 675*	11 496	17 954*	15 215							23 464*	4.01	21 003	4.01
3 m	8 131	9.45	5 153	9.45			8 844	5 636	10 764	6 904	13 365*	8 563	15 806*	10 840	19 722*	14 148							17 647*	4.31	17 364	4.31
2 m	7 965	9.47	5 006	9.47			8 667	5 472	10 487	6 650	12 968	8 192	16 572	10 307	20 815*	13 409							14 891*	4.36	14 891*	4.36
1 m	7 973	9.39	4 982	9.39			8 524	5 339	10 264	6 446	12 652	7 907	16 151	9 937	21 142*	13 010							18 177*	4.26	16 670	4.26
0 m	8 169	9.19	5 088	9.19			8 434	5 256	10 112	6 307	12 445	7 720	15 908	9 723	20 873*	12 847							21 497*	4.12	17 643	4.12
-1 m	8 591	8.88	5 348	8.88					10 043	6 243	12 347	7 632	15 814	9 640	20 146*	12 833	23 885*	18 819					24 354*	3.83	20 286	3.83
-2 m	9 324	8.43	5 815	8.43					10 089	6 267	12 356	7 640	15 847	9 689	18 989*	12 930	22 304*	19 011					24 078*	3.37	24 078*	3.37
-3 m	10 548	7.83	6 602	7.83							12 454*	7 755	14 744*	9 805	17 331*	13 132	20 167*	19 313	22 770*	22 770*			23 240*	2.68	23 240*	2.68
-4 m	10 382*	7.03	7 963	7.03							10 463*	8 015	12 749*	10 068	14 999*	13 457	17 289*	17 289*	19 353*	19 353*			19 917*	2.64	19 917*	2.64
-5 m	9 580*	5.96	9 580*	5.96											11 611*	11 611*	13 322*	13 322*					13 895*	3.58	13 895*	3.58
-6 m																										

SH460HD-5

SHOE : 750 (mm)G
BUCKET : SAE/PCSA 1.8 (m³)
ARM LENGTH = 3.38 (m)
MAXIMUM REACH = 10.28 (m)
BOOM : 6.98 (m)

Bucket Hook Height	Radius of Load: Max. Radius				10 m		9 m		8 m		7 m		6 m		5 m		4 m		3 m		2 m		Min. Radius			
7 m	8 365*	8.76	6 849	8.76					9 055*	8 226													9 200*	7.6	9 074	7.6
6 m	6 411*	9.58	5 581	9.58			8 931*	6 375	9 380*	8 027													9 934*	7.11	9 934*	7.11
5 m	6 531*	9.91	5 085	9.91			9 198*	6 211	9 855*	7 760	10 762*	9 841											11 851*	6.12	11 851*	6.12
4 m	6 744*	10.14	4 739	10.14	7 678	4 878	9 300	6 011	10 417*	7 453	11 618*	9 380	13 346*	12 104	16 006*	16 006*	20 598*	20 598*					22 729*	3.16	22 729*	3.16
3 m	7 059*	10.26	4 508	10.26	7 537	4 746	9 070	5 797	11 000*	7 136	12 490*	8 912	14 658*	11 392	18 062*	15 105	24 108*	21 269					13 730*	3.54	13 730*	3.54
2 m	7 051	10.28	4 378	10.28	7 396	4 614	8 848	5 592	10 752	6 837	13 273*	8 482	15 790*	10 763	19 694*	14 157	17 773*	17 773*					10 492*	3.6	10 492*	3.6
1 m	7 038	10.2	4 342	10.2	7 274	4 500	8 655	5 412	10 471	6 580	12 967	8 125	16 600*	10 274	20 680*	13 510	16 807*	16 807*					12 236*	3.49	12 236*	3.49
0 m	7 165	10.02	4 404	10.02	7 187	4 418	8 505	5 273	10 255	6 382	12 673	7 860	16 246	9 939	21 019*	13 133	18 913*	18 863					14 870*	3.41	14 870*	3.41
-1 m	7 456	9.73	4 579	9.73			8 413	5 187	10 114	6 252	12 486	7 691	16 026	9 746	20 801*	12 958	22 501*	18 812					17 378*	3.17	17 378*	3.17
-2 m	7 957	9.33	4 898	9.33			8 392	5 168	10 054	6 197	12 404	7 617	15 944	9 674	20 093*	12 930	24 679*	18 900	19 490*	19 490*			19 760*	2.78	19 760*	2.78
-3 m	8 766	8.79	5 421	8.79					10 087	6 228	12 426	7 637	15 778*	9 711	18 892*	13 022	22 889*	19 105	24 560*	24 560*			21 997*	2.18	21 997*	2.18
-4 m	9 726*	8.09	6 272	8.09					9 927*	6 371	12 069*	7 761	14 381*	9 856	17 119*	13 230	20 488*	19 433	24 772*	24 772*			25 246*	2.03	24 092*	1.69
-5 m	9 513*	7.18	7 739	7.18							9 950*	8 028	12 216*	10 131	14 584*	13 571	17 266*	17 266*	20 451*	20 451*			23 182*	2.3	23 182*	2.3
-6 m	8 745*	5.97	8 745*	5.97											10 854*	10 854*	12 824*	12 824*					13 511*	3.64	13 511*	3.64

SH460HD-5

SHOE : 750 (mm)G
BUCKET : SAE/PCSA 2.0 (m³)
ARM LENGTH = 2.53 (m)
MAXIMUM REACH = 9.48 (m)
BOOM : 6.98 (m)

Bucket Hook Height	Radius of Load: Max. Radius				10 m		9 m		8 m		7 m		6 m		5 m		4 m		3 m		2 m		Min. Radius			
7 m	10 215*	7.89	8 165	7.89							10 701*	10 242											10 921*	6.69	10 921*	6.69
6 m	9 738*	8.71	6 606	8.71					10 383*	7 804	11 189	9 946											12 355*	6	12 355*	6
5 m	9 204	9.08	5 961	9.08			9 350	6 064	10 769*	7 572	11 864*	9 557	13 462*	12 353	15 932*	15 932*	20 233*	20 233*					25 114*	3.39	25 114*	3.39
4 m	8 627	9.32	5 525	9.32			9 182	5 908	11 238	7 297	12 627*	9 123	14 675*	11 660	17 954*	15 425							23 464*	4.01	21 296	4.01
3 m	8 273	9.45	5 246	9.45			8 995	5 734	10 940	7 018	13 365*	8 697	15 806*	11 004	19 722*	14 359							17 647*	4.31	17 626	4.31
2 m	8 106	9.47	5 099	9.47			8 818	5 570	10 663	6 764	13 180	8 326	16 665	10 471	20 815*	13 620							14 891*	4.36	14 891*	4.36
1 m	8 116	9.39	5 076	9.39			8 675	5 438	10 440	6 559	12 864	8 041	16 416	10 101	21 142*	13 221							18 177*	4.26	16 937	4.26
0 m	8 316	9.19	5 184	9.19			8 585	5 354	10 288	6 420	12 656	7 854	16 173	9 886	20 873*	13 057							21 497*	4.12	17 924	4.12
-1 m	8 745	8.88	5 448	8.88					10 219	6 356	12 558	7 766	16 079	9 804	20 146*	13 043	23 885*	19 114					24 354*	3.83	20 601	3.83
-2 m	9 489	8.43	5 922	8.43					10 245	6 380	12 568	7 775	16 038	9 833	18 989*	13 140	22 304*	19 305					24 078*	3.37	24 078*	3.37
-3 m	10 629	7.83	6 719	7.83							12 454*	7 889	14 744*	9 969	17 331*	13 343	20 167*	19 607	22 770*	22 770*			23 240*	2.68	23 240*	2.68
-4 m	10 382*	7.03	8 097	7.03							10 463*	8 149	12 749*	10 232	14 999*	13 668	17 289*	17 289*	19 353*	19 353*			19 917*	2.64	19 917*	2.64
-5 m	9 580*	5.96	9 580*	5.96											11 611*	11 611*	13 322*	13 322*					13 895*	3.58	13 895*	3.58
-6 m																										

SH480LHD-5

SHOE : 600 (mm)G
BUCKET : SAE/PCSA 1.8 (m³)
ARM LENGTH = 3.38 (m)
MAXIMUM REACH = 10.28 (m)
BOOM : 6.98 (m)

Bucket Hook Height	Radius of Load: Max. Radius				10 m		9 m		8 m		7 m		6 m		5 m		4 m		3 m		2 m		Min. Radius			
7 m	8 365*	8.76	6 864	8.76					9 055*	8 242													9 200*	7.6	9 091	7.6
6 m	6 411*	9.58	5 594	9.58			8 931*	6 389	9 380*	8 043													9 934*	7.11	9 934*	7.11
5 m	6 531*	9.91	5 098	9.91			9 198*	6 226	9 855*	7 776	10 762*	9 860											11 851*	6.12	11 851*	6.12
4 m	6 744*	10.14	4 751	10.14	7 886*	4 891	9 547*	6 025	10 417*	7 470	11 618*	9 400	13 346*	12 127	16 006*	16 006*	20 598*	20 598*					22 729*	3.16	22 729*	3.16
3 m	7 059*	10.26	4 520	10.26	8 499	4 758	9 921*	5 812	11 000*	7 152	12 490*	8 932	14 658*	11 415	18 062*	15 135	24 108*	21 312					13 730*	3.54	13 730*	3.54
2 m	7 495*	10.28	4 390	10.28	8 355	4 626	9 985	5 606	11 534*	6 853	13 273*	8 501	15 790*	10 787	19 694*	14 188	17 773*	17 773*					10 492*	3.6	10 492*	3.6
1 m	7 965	10.2	4 354	10.2	8 230	4 512	9 787	5 426	11 853	6 596	13 874*	8 144	16 600*	10 298	20 680*	13 540	16 807*	16 807*					12 236*	3.49	12 236*	3.49
0 m	8 116	10.02	4 417	10.02	8 141	4 431	9 633	5 287	11 630	6 398	14 227*	7 879	17 020*	9 963	21 019*	13 164	18 913*	18 905					14 870*	3.41	14 870*	3.41
-1 m	8 450	9.73	4 592	9.73			9 538	5 201	11 485	6 268	14 229	7 711	17 033*	9 769	20 801*	12 988	22 501*	18 855					17 378*	3.17	17 378*	3.17
-2 m	9 020	9.33	4 912	9.33			9 518	5 183	11 423	6 214	13 998*	7 637	16 631*	9 698	20 093*	12 960	24 679*	18 942	19 490*	19 490*			19 760*	2.78	19 760*	2.78
-3 m	9 721*	8.79	5 436	8.79					11 248*	6 244	13 306*	7 657	15 778*	9 734	18 892*	13 053	22 889*	19 147	24 560*	24 560*			20 894*	2.2	21 997*	2.18
-4 m	9 726*	8.09	6 288	8.09					9 927*	6 387	12 069*	7 780	14 381*	9 880	17 119*	13 260	20 488*	19 475	24 772*	24 772*			25 954*	2.2	24 092*	1.69
-5 m	9 513*	7.18	7 758	7.18							9 950*	8 048	12 216*	10 155	14 584*	13 601	17 266*	17 266*	20 451*	20 451*			23 182*	2.3	23 182*	2.3
-6 m	8 745*	5.97	8 745*	5.97											10 854*	10 854*	12 824*	12 824*					13 511*	3.64	13 511*	3.64

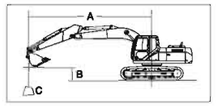
SH480LHD-5

SHOE : 600 (mm)G
BUCKET : SAE/PCSA 2.0 (m³)
ARM LENGTH = 2.53 (m)
MAXIMUM REACH = 9.48 (m)
BOOM : 6.98 (m)

Bucket Hook Height	Radius of Load: Max. Radius				10 m		9 m		8 m		7 m		6 m		5 m		4 m		3 m		2 m		Min. Radius			
7 m	10 215*	7.89	8 182	7.89							10 701*	10 262											10 921*	6.69	10 921*	6.69
6 m	9 738*	8.71	6 620	8.71					10 383*	7 821	11 189*	9 965											12 355*	6	12 355*	6
5 m	9 977*	9.08	5 975	9.08			10 021*	6 078	10 769*	7 588	11 864*	9 576	13 462*	12 376	15 932*	15 932*	20 233*	20 233*					25 114*	3.39	25 114*	3.39
4 m	9 705	9.32	5 538	9.32			10 258	5 922	11 238*	7 314	12 627*	9 143	14 675*	11 683	17 954*	15 456							23 464*	4.01	21 338	4.01
3 m	9 323	9.45	5 259	9.45			10 133	5 748	11 709*	7 034	13 365*	8 717	15 806*	11 027	19 722*	14 389							17 647*	4.31	17 647*	4.31
2 m	9 149	9.47	5 112	9.47			9 952	5 585	12 048	6 780	13 970*	8 346	16 665*	10 495	20 815*	13 650							14 891*	4.36	14 891*	4.36
1 m	9 172	9.39	5 089	9.39			9 805	5 452	11 818	6 576	14 352*	8 061	17 136*	10 124	21 142*	13 251							18 177*	4.26	18 975	4.26
0 m	9 406	9.19	5 198	9.19			9 713	5 368	11 662	6 437	14 402	7 874	17 189*	9 910	20 873*	13 088							21 497*	4.12	17 965	4.12
-1 m	9 898	8.88	5 462	8.88					11 590	6 373	14 219*	7 785	16 828*	9 827	20 146*	13 073	23 885*	19 156					24 354*	3.83	20 647	3.83
-2 m	10 649*	8.43	5 937	8.43					11 515*	6 397	13 595*	7 794	16 038*	9 856	18 989*	13 171	22 304*	19 348					24 078*	3.37	24 078*	3.37
-3 m	10 629*	7.83	6 736	7.83							12 454*	7 908	14 744*	9 993	17 331*	13 373	20 167*	19 650	22 770*	22 770*			23 240*	2.68	23 240*	2.68
-4 m	10 382*	7.03	8 116	7.03							10 463*	8 169	12 749*	10 255	14 999*	13 698	17 289*	17 289*	19 353*	19 353*			19 917*	2.64	19 917*	2.64
-5 m	9 580*	5.96	9 580*	5.96											11 611*	11 611*	13 322*	13 322*					13 895*	3.58	13 895*	3.58
-6 m																										

Lifting Capacity

Notes: 1. Ratings are based on SAE J/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 a hook (not standard equipment) located on the back of the bucket.
4. *Indicates load limited by hydraulic capacity.
5. 0m = Ground.



A: Radius of load
B: Bucket hook height
C: Lifting capacity

Load Radius Over Front
Load Radius Over Side

Unit : kg

SH480LHD-5

SHOE : 750 (mm)G
BUCKET : SAE/PCSA 1.8 (m³)
ARM LENGTH = 3.38 (m)
MAXIMUM REACH = 10.28 (m)
BOOM : 6.98 (m)

Bucket Hook Height	Max. Radius				10 m		9 m		8 m		7 m		6 m		5 m		4 m		3 m		2 m		Min. Radius			
	Radius of Load																									
7 m	8 365*	8.76	6 971	8.76					9 055*	8 362													9 200*	7.6	9 200*	7.6
6 m	6 411*	9.58	5 690	9.58			8 931*	6 493	9 380*	8 163													9 934*	7.11	9 934*	7.11
5 m	6 531*	9.91	5 191	9.91			9 198*	6 329	9 855*	7 896	10 762*	10 001											11 851*	6.12	11 851*	6.12
4 m	6 744*	10.14	4 841	10.14	7 886*	4 982	9 547*	6 129	10 417*	7 589	11 618*	9 541	13 346*	12 300	16 006*	16 006*	20 598*	20 598*					22 729*	3.16	22 729*	3.16
3 m	7 059*	10.26	4 609	10.26	8 652	4 850	9 921*	5 915	11 000*	7 272	12 490*	9 073	14 658*	11 588	18 062*	15 357	24 108*	21 622					13 730*	3.54	13 730*	3.54
2 m	7 495*	10.28	4 479	10.28	8 509	4 718	10 162	5 710	11 534*	6 973	13 273*	8 643	15 790*	10 959	19 694*	14 410	17 773*	17 773*					10 492*	3.6	10 492*	3.6
1 m	8 085*	10.2	4 444	10.2	8 384	4 604	9 963	5 530	11 954*	6 716	13 874*	8 286	16 600*	10 471	20 680*	13 762	16 807*	16 807*					12 236*	3.49	12 236*	3.49
0 m	8 270	10.02	4 508	10.02	8 295	4 523	9 810	5 391	11 838	6 518	14 227*	8 021	17 020*	10 136	21 019*	13 385	18 913*	18 913*					14 870*	3.41	14 870*	3.41
-1 m	8 609	9.73	4 687	9.73			9 715	5 305	11 692	6 388	14 283*	7 852	17 033*	9 942	20 801*	13 210	22 501*	19 165					17 378*	3.17	17 378*	3.17
-2 m	9 189	9.33	5 011	9.33			9 694	5 286	11 630	6 333	13 998*	7 778	16 631*	9 870	20 093*	13 182	24 679*	19 252	19 490*	19 490*			19 760*	2.78	19 760*	2.78
-3 m	9 721*	8.79	5 542	8.79					11 248*	6 364	13 306*	7 798	15 778*	9 907	18 892*	13 275	22 889*	19 457	24 560*	24 560*			20 894*	2.2	21 997*	2.18
-4 m	9 726*	8.09	6 406	8.09					9 927*	6 507	12 069*	7 922	14 381*	10 052	17 119*	13 482	20 488*	19 785	24 772*	24 772*			25 954*	2.2	24 092*	1.69
-5 m	9 513*	7.18	7 894	7.18							9 950*	8 189	12 216*	10 328	14 584*	13 823	17 266*	17 266*	20 451*	20 451*			23 182*	2.3	23 182*	2.3
-6 m	8 745*	5.97	8 745*	5.97											10 854*	10 854*	12 824*	12 824*					13 511*	3.64	13 511*	3.64

SH480LHD-5

SHOE : 750 (mm)G
BUCKET : SAE/PCSA 2.0 (m³)
ARM LENGTH = 2.53 (m)
MAXIMUM REACH = 9.48 (m)
BOOM : 6.98 (m)

Bucket Hook Height	Max. Radius				10 m		9 m		8 m		7 m		6 m		5 m		4 m		3 m		2 m		Min. Radius			
	Radius of Load																									
7 m	10 215*	7.89	8 303	7.89							10 701*	10 403											10 921*	6.69	10 921*	6.69
6 m	9 738*	8.71	6 728	8.71					10 383*	7 940	11 189*	10 107											12 355*	6	12 355*	6
5 m	9 977*	9.08	6 078	9.08			10 021*	6 182	10 769*	7 708	11 864*	9 718	13 462*	12 549	15 932*	15 932*	20 233*	20 233*					25 114*	3.39	25 114*	3.39
4 m	9 873	9.32	5 638	9.32			10 258*	6 026	11 238*	7 434	12 627*	9 284	14 675*	11 856	17 954*	15 677							23 464*	4.01	21 647	4.01
3 m	9 488	9.45	5 357	9.45			10 310	5 852	11 709*	7 154	13 365*	8 858	15 806*	11 200	19 722*	14 611							17 647*	4.31	17 647*	4.31
2 m	9 314	9.47	5 210	9.47			10 129	5 688	12 105*	6 900	13 970*	8 487	16 665*	10 667	20 815*	13 872							14 891*	4.36	14 891*	4.36
1 m	9 339	9.39	5 188	9.39			9 982	5 556	12 025	6 695	14 352*	8 202	17 136*	10 297	21 142*	13 473							18 177*	4.26	17 256	4.26
0 m	9 578	9.19	5 299	9.19			9 890	5 472	11 869	6 556	14 451*	8 015	17 189*	10 083	20 873*	13 310							21 497*	4.12	18 260	4.12
-1 m	10 078	8.88	5 568	8.88					11 797	6 492	14 219*	7 927	16 828*	10 000	20 146*	13 295	23 885*	19 466					24 354*	3.83	20 979	3.83
-2 m	10 649*	8.43	6 050	8.43					11 515*	6 516	13 595*	7 935	16 038*	10 029	18 989*	13 392	22 304*	19 658					24 078*	3.37	24 078*	3.37
-3 m	10 629*	7.83	6 858	7.83							12 454*	8 050	14 744*	10 165	17 331*	13 595	20 167*	19 960	22 770*	22 770*			23 240*	2.68	23 240*	2.68
-4 m	10 382*	7.03	8 257	7.03							10 463*	8 310	12 749*	10 428	14 999*	13 920	17 289*	17 289*	19 353*	19 353*			19 917*	2.64	19 917*	2.64
-5 m	9 580*	5.96	9 580*	5.96											11 611*	11 611*	13 322*	13 322*					13 895*	3.58	13 895*	3.58
-6 m																										

SH500LHD-5

SHOE : 600 (mm)G
BUCKET : SAE/PCSA 1.8 (m³)
ARM LENGTH = 3.38 (m)
MAXIMUM REACH = 10.28 (m)
BOOM : 6.98 (m)

Bucket Hook Height	Max. Radius				10 m		9 m		8 m		7 m		6 m		5 m		4 m		3 m		2 m		Min. Radius			
	Radius of Load																									
7 m	10 169*	8.05	8 579	8.05									10 189*	8 683	10 759*	10 759*							11 048*	6.62	11 048*	6.62
6 m	9 767*	8.77	7 144	8.77									10 433*	8 518	11 282*	10 801	12 514*	12 514*					12 768*	5.83	12 768*	5.83
5 m	9 979*	9.12	8 501	9.12							10 052*	6 671	10 836*	8 274	11 976*	10 397	13 642*	13 400	16 234*	16 234*	20 821*	20 821*	24 860*	3.51	24 860*	3.51
4 m	9 987	9.35	6 069	9.35							10 297*	6 509	11 311*	7 994	12 742*	9 955	14 856*	12 695	18 250*	16 795			22 234*	4.07	22 234*	4.07
3 m	9 633	9.46	5 800	9.46							10 477	6 334	11 775*	7 713	13 468*	9 529	15 957*	12 043	19 937*	15 748			17 100*	4.33	17 100*	4.33
2 m	9 489	9.47	5 670	9.47							10 300	6 172	12 154*	7 463	14 044*	9 165	16 763*	11 525	20 910*	15 050			14 616*	4.35	14 616*	4.35
1 m	9 547	9.36	5 674	9.36							10 161	6 044	12 227	7 265	14 387*	8 891	17 171*	11 175	21 135*	14 687			18 689*	4.25	18 689*	4.25
0 m	9 827	9.15	5 821	9.15							10 078	5 969	12 083	7 135	14 438*	8 717	17 161*	10 979	20 790*	14 547			21 984*	4.09	20 381	4.09
-1 m	10 383	8.82	6 143	8.82									12 025	7 083	14 152*	8 642	16 737*	10 913	20 000*	14 551	23 677*	21 424	24 326*	3.77	23 817	3.77
-2 m	10 655*	8.35	6 706	8.35									11 373*	7 123	13 461*	8 666	15 878*	10 959	18 773*	14 666	22 021*	21 637	24 006*	3.28	24 006*	3.28
-3 m	10 611*	7.72	7 648	7.72											12 222*	8 800	14 495*	11 115	17 028*	14 890	19 786*	19 786*	22 997*	2.55	22 997*	2.55
-4 m	10 310*	6.89	9 296	6.89													12 362*	11 405	14 570*	14 570*	16 772*	16 772*	19 119*	2.73	19 119*	2.73
-5 m	9 363*	5.77	9 363	5.77															10 957*	10 957*	12 589*	12 589*	12 799*	3.84	12 799*	3.84
-6 m																										

SH500LHD-5

SHOE : 750 (mm)G
BUCKET : SAE/PCSA 1.8 (m³)
ARM LENGTH = 3.38 (m)
MAXIMUM REACH = 10.28 (m)
BOOM : 6.98 (m)

Bucket Hook Height	Max. Radius				10 m		9 m		8 m		7 m		6 m		5 m		4 m		3 m		2 m		Min. Radius			
	Radius of Load																									
7 m	8 011*	8.92	7 336	8.92									9 092*	9 076									9 272*	7.55	9 272*	7.55
6 m	6 423*	9.64	6 169	9.64							8 964*	7 094	9 444*	8 863									10 114*	7.01	10 114*	7.01
5 m	6 557*	9.96	5 670	9.96							9 247*	6 921	9 936*	8 585	10 886*	10 829	12 225*	12 225*					12 409*	5.89	12 409*	5.89
4 m	6 784*	10.16	5 324	10.16	8 136*	5 499	9 603*	6 716	10 505*	8 272	11 752*	10 359	13 549*	13 322	16 329*	16 329*	21 170*	21 170*					20 506*	3.24	20 506*	3.24
3 m	7 116*	10.27	5 100	10.27	8 953	5 364	9 976*	6 500	11 085*	7 952	12 616*	9 888	14 845*	12 607	18 344*	16 718	24 545*	23 670					13 047*	3.56	13 047*	3.56
2 m	7 573*	10.27	4 983	10.27	8 811	5 233	10 312*	6 295	11 606*	7 655	13 377*	9 462	15 935*	11 987	19 887*	15 796	17 291*	17 291*					10 194*	3.58	10 194*	3.58
1 m	8 190*	10.18	4 968	10.18	8 690	5 122	10 307	6 119	12 003*	7 403	13 945*	9 113	16 689*	11 514	20 771*	15 181	16 990*	16 990*					12 642*	3.49	12 642*	3.49
0 m	8 632	9.98	5 061	9.98			10 161	5 986	12 217*	7 213	14 255*	8 859	17 048*	11 197	21 019*	14 832	19 377*	19 377*					15 257*	3.38	15 257*	3.38
-1 m	9 016	9.88	5 281	9.88			10 077	5 909	12 111	7 093	14 263*	8 703	16 999*	11 020	20 725*	14 679	23 140*	21 428					17 746*	3.12	17 746*	3.12
-2 m	9 641	9.26	5 665	9.26			10 069	5 902	11 857*	7 050	13 922*	8 643	16 532*	10 965	19 944*	14 670	24 442*	21 536	20 218*	20 218*			20 108*	2.7	20 108*	2.7
-3 m	9 730*	8.69	6 288	8.69					11 098*	7 095	13 159*	8 678	15 606*	11 018	18 664*	14 782	22 569*	21 765	25 386*	25 386*			21 619*	2.2	22 319*	2.06
-4 m	9 712*	7.97	7 303	7.97							11 820*	8 821	14 111*	11 184	16 792*	15 012	20 061*	20 061*	24 193*	24 193*			26 780*	2.2	25 054*	1.75
-5 m	9 447*	7.02	9 082	7.02							9 501*	9 123	11 796*	11 488	14 113*	14 113*	16 688*	16 688*	19 686*	19 686*			21 668*	2.44	21 668*	2.44
-6 m	8 528*	5.75	8 528*	5.75															10 130*	10 130*			11 955*	4.03	11 955*	4.03

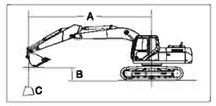
SH500LHD-5

SHOE : 750 (mm)G
BUCKET : SAE/PCSA 2.0 (m³)
ARM LENGTH = 2.53 (m)
MAXIMUM REACH = 9.48 (m)
BOOM : 6.98 (m)

Bucket Hook Height	Max. Radius				10 m		9 m		8 m		7 m		6 m		5 m		4 m		3 m		2 m		Min. Radius			
	Radius of Load																									
7 m	10 169*	8.05	8 703	8.05					10 189*	8 808	10 759*	10 759*											11 048*	6.62	11 048*	6.62
6 m	9 767*	8.77	7 256	8.77					10 433*	8 643	11 282*	10 949	12 514*	12 514*									12 768*	5.83	12 768*	5.83
5 m	9 979*	9.12	6 607	9.12			10 052*	6 779	10 836*	8 399	11 976*	10 544	13 642*	13 581	16 234*	16 234*	20 821*	20 821*					24 860*	3.51	24 860*	3.51
4 m	10 020*	9.35	6 172	9.35			10 297*	6 617	11 311*	8 119	12 742*	10 103	14 856*	12 876	18 250*	17 028							22 234*	4.07	22 234*	4.07
3 m	9 796	9.46	5 901	9.46			10 556*	6 442	11 775*	7 838	13 468*	9 677	15 957*	12 224	19 937*	15 981							17 100*	4.33	17 100*	4.33
2 m	9 651	9.47	5 772	9.47			10 474	6 280	12 154*	7 587	14 044*	9 313	16 763*	11 706	20 910*	15 283							14 616*	4.35	14 616*	4.35
1 m	9 712	9.36	5 777	9.36			10 334	6 152	12 376*	7 390	14 387*	9 039	17 171*	11 355	21 135*	14 920							18 689*	4.25	18 689*	4.25
0 m	9 997	9.15	5 927	9.15			10 252	6 077	12 287	7 260	14 438*	8 865	17 161*	11 160	20 790*	14 781							21 984*	4.09	20 698	4.09
-1 m	10 561	8.82	6 254	8.82					12 084*	7 208	14 152*	8 790	16 737*	11 094	20 000*	14 785	23 677*	21 753					24 326*	3.77	24 180	3.77
-2 m	10 655*	8.35	6 824	8.35					11 373*	7 247	13 461*	8 814	15 878*	11 140	18 773*	14 900	22 021*	21 966					24 006*	3.28	24 006*	3.28
-3 m	10 611*	7.72	7 778	7.72							12 222*	8 948	14 495*	11 295	17 028*	15 123	19 786*	19 786*	22 338*	22 338*			22 997*	2.55	22 997*	2.55
-4 m	10 310*	6.89	9 447	6.89									12 362*	11 586	14 570*	14 570*	16 772*	16 772*	18 719*	18 719*			19 119*	2.73	19 119*	2.73
-5 m	9 363*	5.77	9 363*	5.77													10 957*	10 957*	12 589*	12 589*			12 799*	3.84	12 799*	3.84
-6 m																										

Lifting Capacity

Notes: 1. Ratings are based on SAE J/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 a hook (not standard equipment) located on the back of the bucket.
4. *Indicates load limited by hydraulic capacity.
5. 0m = Ground.



A: Radius of load
B: Bucket hook height
C: Lifting capacity

Load Radius Over Front | Load Radius Over Side

Unit : kg

SH480LHD-5 MASS

SHOE : 600 (mm)G
BUCKET : SAE/PCSA 3.0 (m³)
ARM LENGTH = 2.53 (m)
MAXIMUM REACH = 9.15 (m)
BOOM : 6.55 (m)

Bucket Hook Height	Radius of Load: Max. Radius				10 m		9 m		8 m		7 m		6 m		5 m		4 m		3 m		2 m		Min. Radius			
7 m	10 577*	6.96	9 939	6.96																			10 845*	6.53	10 845*	6.53
6 m	10 199*	8.06	7 254	8.06					10 230*	7 364	10 929*	9 590											11 943*	6.02	11 943*	6.02
5 m	8 268*	8.73	5 987	8.73					10 529*	7 178	11 531*	9 251	12 982*	12 183	15 168*	15 168*							16 207*	4.65	16 207*	4.65
4 m	8 596*	8.98	5 498	8.98					10 943*	6 934	12 251*	8 852	14 154*	11 540	17 123*	15 606	22 391*	22 391*					26 250*	3.57	26 250*	3.57
3 m	9 091*	9.12	5 186	9.12			9 726	5 326	11 379*	6 674	12 975*	8 445	15 295*	10 902	18 949*	14 553	24 556*	20 486					20 783*	3.91	20 783*	3.91
2 m	9 305	9.14	5 025	9.14			9 564	5 179	11 725	6 429	13 582*	8 076	16 208*	10 354	20 241*	13 734	17 352*	17 352*					16 363*	3.96	16 363*	3.96
1 m	9 339	9.05	5 006	9.05			9 431	5 059	11 498	6 228	13 971*	7 781	16 750*	9 947	20 812*	13 218	18 861*	18 861*					19 512*	3.88	19 512*	3.88
0 m	9 615	8.85	5 135	8.85					11 341	6 088	14 059*	7 579	16 852*	9 691	20 705*	12 954	23 500*	18 877					22 960*	3.78	20 794	3.78
-1 m	10 192	8.52	5 445	8.52					11 272	6 026	13 772*	7 477	16 485*	9 573	20 017*	12 873	24 459*	18 934					26 167*	3.52	24 001	3.52
-2 m	10 573*	8.05	6 004	8.05					10 703*	6 066	13 011*	7 480	15 601*	9 579	18 769*	12 932	22 592*	19 112					26 185*	3.07	26 185*	3.07
-3 m	10 473*	7.42	6 963	7.42							11 559*	7 608	14 078*	9 711	16 875*	13 121	20 068*	19 419	23 460*	23 460*			25 123*	2.39	25 123*	2.39
-4 m	10 052*	6.58	8 885	6.58									11 592*	10 000	14 095*	13 461	16 625*	16 625*	19 074*	19 074*			19 944*	2.59	19 944*	2.59
-5 m	8 790*	5.41	8 790*	5.41											9 802*	9 802*							11 745*	4	11 745*	4
-6 m																										

SH480LHD-5 MASS

SHOE : 750 (mm)G
BUCKET : SAE/PCSA 3.0 (m³)
ARM LENGTH = 2.53 (m)
MAXIMUM REACH = 9.15 (m)
BOOM : 6.55 (m)

Bucket Hook Height	Radius of Load: Max. Radius				10 m		9 m		8 m		7 m		6 m		5 m		4 m		3 m		2 m		Min. Radius			
7 m	10 577*	6.96	10 082	6.96																			10 845*	6.53	10 845*	6.53
6 m	10 199*	8.06	7 373	8.06					10 230*	7 484	10 929*	9 732											11 943*	6.02	11 943*	6.02
5 m	8 268*	8.73	6 094	8.73					10 529*	7 297	11 531*	9 392	12 982*	12 356	15 168*	15 168*							16 207*	4.65	16 207*	4.65
4 m	8 596*	8.98	5 600	8.98					10 943*	7 054	12 251*	8 994	14 154*	11 713	17 123*	15 828	22 391*	22 391*					26 250*	3.57	26 250*	3.57
3 m	9 091*	9.12	5 288	9.12			9 903	5 429	11 379*	6 794	12 975*	8 586	15 295*	11 075	18 949*	14 774	24 556*	20 796					20 783*	3.91	20 783*	3.91
2 m	9 478	9.14	5 127	9.14			9 740	5 282	11 748*	6 549	13 582*	8 218	16 208*	10 527	20 241*	13 956	17 352*	17 352*					16 363*	3.96	16 363*	3.96
1 m	9 514	9.05	5 109	9.05			9 607	5 162	11 705	6 347	13 971*	7 923	16 750*	10 119	20 812*	13 439	18 861*	18 861*					19 512*	3.88	19 512*	3.88
0 m	9 796	8.85	5 241	8.85					11 548	6 208	14 059*	7 721	16 852*	9 883	20 705*	13 176	23 500*	19 187					22 960*	3.78	21 134	3.78
-1 m	10 382	8.52	5 556	8.52					11 479	6 146	13 772*	7 619	16 485*	9 745	20 017*	13 095	24 459*	19 244					26 167*	3.52	24 385	3.52
-2 m	10 573*	8.05	6 123	8.05					10 703*	6 186	13 011*	7 622	15 601*	9 752	18 769*	13 154	22 592*	19 422					26 185*	3.07	26 185*	3.07
-3 m	10 473*	7.42	7 094	7.42							11 559*	7 749	14 078*	9 884	16 875*	13 343	20 068*	19 729	23 460*	23 460*			25 123*	2.39	25 123*	2.39
-4 m	10 052*	6.58	8 839	6.58									11 592*	10 173	14 095*	13 683	16 625*	16 625*	19 074*	19 074*			19 944*	2.59	19 944*	2.59
-5 m	8 790*	5.41	8 790*	5.41											9 802*	9 802*							11 745*	4	11 745*	4
-6 m																										

SH500LHD-5 MASS

SHOE : 600 (mm)G
BUCKET : SAE/PCSA 3.0 (m³)
ARM LENGTH = 2.53 (m)
MAXIMUM REACH = 9.15 (m)
BOOM : 6.55 (m)

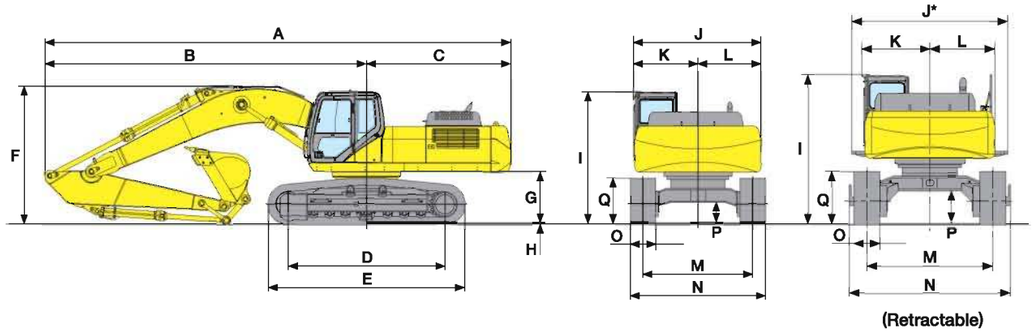
Bucket Hook Height	Radius of Load: Max. Radius				10 m		9 m		8 m		7 m		6 m		5 m		4 m		3 m		2 m		Min. Radius			
7 m	10 501*	7.16	10 239	7.16							10 591*	10 591*											10 940*	6.48	10 940*	6.48
6 m	10 161*	8.18	7 705	8.18					10 263*	8 071	11 008*	10 437	12 102*	12 102*									12 244*	5.89	12 244*	5.89
5 m	8 308*	8.78	6 536	8.78					10 586*	7 871	11 635*	10 081	13 153*	13 153*	15 455*	15 455*			27 163*	27 163*			25 337*	3.16	25 337*	3.16
4 m	8 659*	9.01	6 051	9.01	8 811*	6 066	11 010*	7 620	12 363*	9 672	14 334*	12 563	17 418*	16 968	22 932*	22 932*							26 213*	3.64	26 213*	3.64
3 m	9 182*	9.13	5 753	9.13	10 074	5 915	11 441*	7 357	13 077*	9 263	15 452*	11 924	19 186*	15 919	22 399*	22 399*							19 878*	3.93	19 878*	3.93
2 m	9 662	9.13	5 612	9.13	9 914	5 769	11 793*	7 115	13 657*	8 899	16 316*	11 387	20 375*	15 130	17 238*	17 238*							15 936*	3.95	15 936*	3.95
1 m	9 736	9.03	5 623	9.03	9 788	5 654	11 907	6 920	14 005*	8 614	16 795*	10 997	20 836*	14 647	19 424*	19 424*							20 048*	3.87	20 048*	3.87
0 m	10 065	8.81	5 797	8.81			11 762	6 789	14 041*	8 424	16 828*	10 759	20 637*	14 410	24 356*	21 131							23 460*	3.75	23 460*	3.75
-1 m	10 543*	8.46	6 173	8.46			11 499*	6 741	13 691*	8 336	16 386*	10 859	19 865*	14 351	24 213*	21 209							26 529*	3.46	26 529*	3.46
-2 m	10 570*	7.97	6 838	7.97					12 844*	8 356	15 417*	10 684	18 528*	14 431	22 258*	21 410	26 187*	26 187*					26 091*	2.98	26 091*	2.98
-3 m	10 437*	7.31	7 974	7.31					11 252*	8 509	13 777*	10 839	16 521*	14 645	19 615*	19 615*	22 885*	22 885*					24 814*	2.27	24 814*	2.27
-4 m	9 937*	6.43	9 937*	6.43							11 088*	11 088*	13 569*	13 569*	15 999*	15 999*	18 280*	18 280*					18 833*	2.72	18 833*	2.72
-5 m	8 442*	5.2	8 442*	5.2									8 924*	8 924*									9 568*	4.7	9 568*	4.7
-6 m																										

SH500LHD-5 MASS

SHOE : 750 (mm)G
BUCKET : SAE/PCSA 3.0 (m³)
ARM LENGTH = 2.53 (m)
MAXIMUM REACH = 9.15 (m)
BOOM : 6.55 (m)

Bucket Hook Height	Radius of Load: Max. Radius				10 m		9 m		8 m		7 m		6 m		5 m		4 m		3 m		2 m		Min. Radius			
7 m	10 501*	7.16	10 383	7.16							10 591*	10 591*											10 940*	6.48	10 940*	6.48
6 m	10 161*	8.18	7 826	8.18					10 263*	8 196	11 008*	10 584	12 102*	12 102*									12 244*	5.89	12 244*	5.89
5 m	8 308*	8.78	6 648	8.78					10 586*	7 996	11 635*	10 228	13 153*	13 153*	15 455*	15 455*			27163*	27163*			25 337*	3.16	25 337*	3.16
4 m	8 659*	9.01	6 159	9.01	8 811*	6 174	11 010*	7 745	12 363*	9 820	14 334*	12 744	17 418*	17 201	22 932*	22 932*							26 213*	3.64	26 213*	3.64
3 m	9 182*	9.13	5 859	9.13	10 242*	6 023	11 441*	7 482	13 077*	9 410	15 452*	12 105	19 186*	16 153	22 399*	22 399*							19 878*	3.93	19 878*	3.93
2 m	9 832	9.13	5 718	9.13	10 088	5 877	11 793*	7 240	13 657*	9 046	16 316*	11 568	20 375*	15 363	17 238*	17 238*							15 936*	3.95	15 936*	3.95
1 m	9 909	9.03	5 730	9.03	9 962	5 762	11 961*	7 044	14 005*	8 761	16 795*	11 178	20 836*	14 880	19 424*	19 424*							20 048*	3.87	20 048*	3.87
0 m	10 244	8.81	5 908	8.81			11 920*	6 914	14 041*	8 572	16 828*	10 940	20 637*	14 643	24 356*	21 459							23 460*	3.75	23 460*	3.75
-1 m	10 543*	8.46	6 290	8.46			11 499*	6 865	13 691*	8 484	16 386*	10 840	19 865*	14 584	24 213*	21 537							26 529*	3.46	26 529*	3.46
-2 m	10 570*	7.97	6 963	7.97					12 844*	8 504	15 417*	10 865	18 528*	14 665	22 258*	21 739	26 187*	26 187*					26 091*	2.98	26 091*	2.98
-3 m	10 437*	7.31	8 114	7.31					11 252*	8 657	13 777*	11 020	16 521*	14 879	19 615*	19 615*	22 885*	22 885*					24 814*	2.27	24 814*	2.27
-4 m	9 937*	6.43	9 937*	6.43							11 088*	11 088*	13 569*	13 569*	15 999*	15 999*	18 280*	18 280*					18 833*	2.72	18 833*	2.72
-5 m	8 442*	5.2	8 442*	5.2									8 924*	8 924*									9 568*	4.7	9 568*	4.7
-6 m																										

Dimensions



Model	SH460HD-5		SH480LHD-5		SH500LHD-5	
Arm length	2.53 m	3.38 m	2.53 m	3.38 m	2.53 m	3.38 m
A Overall length	12 060 mm	12 010 mm	12 060 mm	12 010 mm	12 040 mm	11 980 mm
B Length from center of machine (to arm top)	8 390 mm	8 340 mm	8 390 mm	8 340 mm	8 370 mm	8 310 mm
C Upper structure rear end radius	3 680 mm					
D Center to center of wheels	4 050 mm		4 400 mm			
E Overall track length	5 100 mm		5 450 mm			
F Overall height	3 640 mm	3 600 mm	3 640 mm	3 600 mm	3 710 mm	3 660 mm
G Clearance height under upper structure	1 330 mm				1 480 mm	
H Shoe lug height	36 mm					
I Cab height	3 290 mm				3 440 mm	
J Upper structure overall width (with side guard)	3 060 mm (3 130 mm)				3 590* mm	
K Width from center of machine (left side)	1 570 mm					
L Width from center of machine (right side)	1 490 mm					
M Track gauge (Retract)	2 750 mm				2 890 mm (2 390 mm)	
N Overall width (Retract)	3 350 mm				3 700 mm (3 200 mm)	
O Std. Shoe width	600 mm					
P Minimum ground clearance	540 mm				740 mm	
Q Overall track height	1 240 mm				1 220 mm	

*with catwalks-option

Model	SH480LHD-5 MASS	SH500LHD-5 MASS
Arm length	2.53 m	
A Overall length	11 640 mm	11 610 mm
B Length from center of machine (to arm top)	7 970 mm	7 940 mm
C Upper structure rear end radius	3 680 mm	
D Center to center of wheels	4 400 mm	
E Overall track length	5 450 mm	
F Overall height	3 810 mm	
G Clearance height under upper structure	1 330 mm	1 480 mm
H Shoe lug height	36 mm	
I Cab height	3 290 mm	3 440 mm
J Upper structure overall width (with side guard)	3 060 mm (3 130)	3 590* mm
K Width from center of machine (left side)	1 570 mm	
L Width from center of machine (right side)	1 490 mm	
M Track gauge (Retract)	2 750 mm	2 890 mm (2 390 mm)
N Overall width (Retract)	3 350 mm	3 700 mm (3 200 mm)
O Std. Shoe width	600 mm	
P Minimum ground clearance	540 mm	
Q Overall track height	1 240 mm	1 220 mm

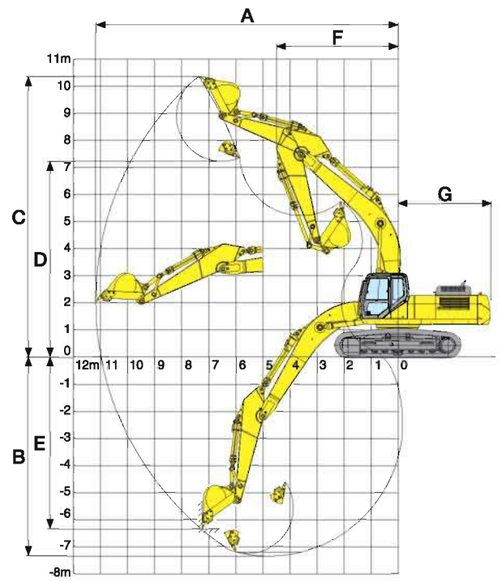
*with catwalks-option

Working Range

	SH460HD-5	
Arm length	2.53 m	3.38 m
Boom length	6.98 mm	
A Max digging radius	11 230 mm	12 000 mm
B Max digging depth	6 870 mm	7 720 mm
C Max digging height	10 820 mm	11 140 mm
D Max dumping height	7 420 mm	7 740 mm
E Max vertical wall cut depth	5 670 mm	6 570 mm
F Min. front swing radius	5 140 mm	4 990 mm
G Rear end swing radius	3 680 mm	

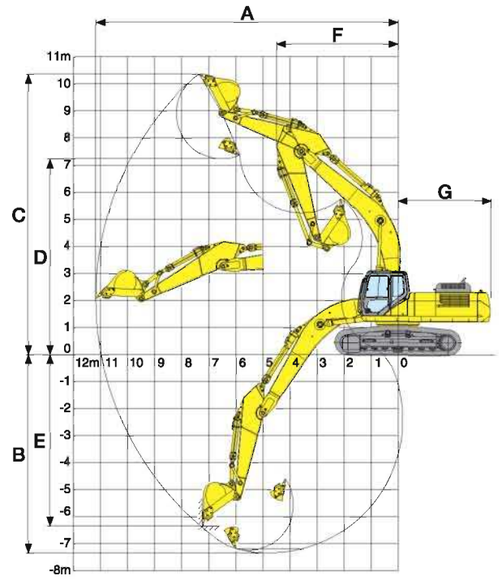
	SH480LHD-5	
Arm length	2.53 m	3.38 m
Boom length	6.98 mm	
A Max digging radius	11 230 mm	12 000 mm
B Max digging depth	6 870 mm	7 720 mm
C Max digging height	10 820 mm	11 140 mm
D Max dumping height	7 420 mm	7 740 mm
E Max vertical wall cut depth	5 670 mm	6 570 mm
F Min. front swing radius	5 140 mm	4 990 mm
G Rear end swing radius	3 680 mm	

	SH500LHD-5	
Arm length	2.53 m	3.38 m
Boom length	6.98 mm	
A Max digging radius	11 230 mm	12 000 mm
B Max digging depth	6 720 mm	7 570 mm
C Max digging height	10 970 mm	11 290 mm
D Max dumping height	7 570 mm	7 890 mm
E Max vertical wall cut depth	5 520 mm	6 420 mm
F Min. front swing radius	5 140 mm	4 990 mm
G Rear end swing radius	3 680 mm	



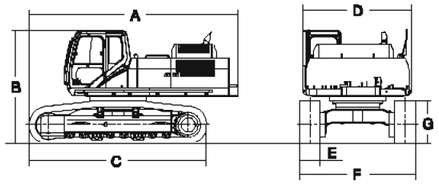
	SH480LHD-5 MASS
Arm length	2.53 m
Boom length	6.55 mm
A Max digging radius	10 810 mm
B Max digging depth	6 490 mm
C Max digging height	10 520 mm
D Max dumping height	7 180 mm
E Max vertical wall cut depth	4 920 mm
F Min. front swing radius	4 800 mm
G Rear end swing radius	3 680 mm

	SH500LHD-5 MASS
Arm length	2.53 m
Boom length	6.55 mm
A Max digging radius	10 810 mm
B Max digging depth	6 340 mm
C Max digging height	10 670 mm
D Max dumping height	7 340 mm
E Max vertical wall cut depth	4 770 mm
F Min. front swing radius	4 800 mm
G Rear end swing radius	3 680 mm

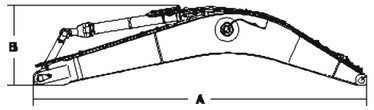


Transportation

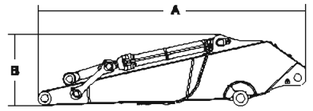
● Basic Machine (without counter weight)



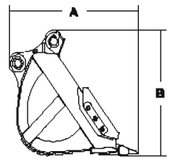
● Boom



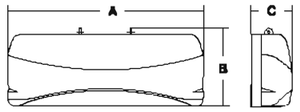
● Arm



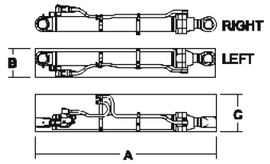
● Bucket



● Counter weight



● Boom cylinder



Basic Machine (without counter weight)

Model	SH460HD/SH480LHD/SH500LHD-5		
Weight	26 300 kg	27 100 kg	28 600 kg
A	6 025 mm	6 205 mm	
B	3 290 mm		3 440 mm
C	5 100 mm	5 450 mm	
D (with side gard)	3 060 mm (3 130 mm)		
E	600 mm		
F	3 350 mm		2 990 mm Retractwithout lower step
G	1 240 mm		1 220 mm

Bucket

Model		SH460HD/SH480LHD/SH500LHD-5		MASS
Bucket capacity (ISO/SAE/PCSA heaped) unit:mm		1.8 m³	2.0 m³	3.0 m³
Bucket capacity CECE heaped unit:mm		1.6 m³	1.8 m³	2.7 m³
Bucket type		HD		
No. of tooth		5		6
Width unit:mm	With side cutter	1 508	1 638	1 885
	Without side cutter	1 400	1 530	1 885
Weight:unit kg		1 830	1 930	2 830
	2.53 m arm	◎	●	●
	3.38 m arm	●	○	—

●: Standard bucket (Suitable for materials with density up to 1,800kg/m³ or less)
◎: Suitable for materials with density up to 2,000kg/m³ or less
○: Suitable for materials with density up to 1,800kg/m³ or less
△: Suitable for materials with density up to 1,200kg/m³ or less

Boom

Model	SH460HD/SH480LHD/SH500LHD-5	
	6.98 m Boom	6.55 m Boom
A Length	7.26 m	6.84 m
B Height	1 740 mm	1 810 mm
Width	860 mm	870 mm
Weight	4 520 kg	4 670 kg

Arm

Model	SH460HD/SH480LHD/SH500LHD-5	
	2.53 m Arm	3.38 m Arm
A Length	3 820 mm	
B Height	1 130 mm	
Width	610 mm	
Weight	2 420 kg	2 610 kg

Counter Weight

Model	SH460HD/SH480LHD/SH500LHD-5
A Length	2 990 mm
B Height	1 230 mm
C Width	740 mm
Weight	9 200 kg

Boom cylinder

Model	SH460HD/SH480LHD/SH500LHD-5
A Length	2 440 mm
B Height	500 mm
C Width	400 mm
Weight	500 kg

Principle Specifications

		SH460HD-5	SH480LHD-5 [SH500LHD-5]	SH480LHD-5 MASS	SH500LHD-5 MASS
Base	Boom length	6.98 m (HD type)		6.55 m (HD type)	
	Arm length	3.38 m (HD type)		2.53 m (HD type)	
	Bucket capacity (ISO heaped)	1.8 m³ (HD type)		3.0 m³ (HD type)	
	Std. operating weight	45,900 kg	46,700 kg [48,100 kg]	47,200 kg	48,600 kg
Engine	Make & model	ISUZU AH-6UZ1XYSS			
	Rated output	270 kW/1 950 min⁻¹			
	Displacement	9 839 ml(cc)			
Hydraulic System	Main pump	2 variable displacement axial piston pumps with regulating system			
	Max pressure	31.4 Mpa			
	/with auto power boost	34.3 MPa			
	Travel motor	Variable displacement axial piston motor			
	Parking brake type	Mechanical disc brake			
	Swing motor	Fixed displacement axial piston motor			
Performance	Travel speed	5.3/3.1 km/h			
	Drawbar pull	341 kN			
	Grade ability	70% <35°>			
	Ground pressure	85 kPa	80 kPa [82kPa]	81 kPa	83 kPa
	Swing speed	9.0 min⁻¹			
	Bucket digging force	247 kN			
	/with power boost	270 kN			
	Arm digging force	209 kN			
	/with power boost	229 kN			
Others	Fuel tank	650 liter			
	Hydraulic fluid tank	230 liter			

Standard equipment

[Hydraulic system]

- SIHS hydraulic system
- Operation mode (SP, H and A mode)
- Auto/one-touch idling
- Automatic 2-speed travel
- Automatic power boost
- Arm/boom/bucket reactivation circuit
- Automatic swing parking system
- High-performance return filter

[Cab/interior equipment]

- Tilting console
- Open air introducing pressurized full-automatic air conditioner
- Defroster
- Hot & cool box
- Water-repelling operator's seat
- Seat suspension
- Rise-up wiper (with intermittent operation function)
- Cup holder
- AM/FM radio (with muting function)
- Clock
- Magazine rack
- Accessory case
- Floor mat
- Armrest & headrest
- Ashtray & cigar lighter
- Room light (Auto-OFF function)
- Coat hook

[Safety equipment]

- Rearview mirror (left/right)
- Emergency escape tool
- Winding seat belt
- Gate lock lever
- Travel alarm (with on and off switch)
- Anti-theft alarm system
- Engine room firewall
- Fan guard
- Engine emergency stop switch

[Others]

- EMS
- Long-life hydraulic oil
- Two lights (main unit and left of arm)
- Fuel filter (with water separator)
- Fuel prefilter (with water seperator)
- Double-element air cleaner
- Grease-enclosed track link
- Bucket rattling control mechanism
- Large tool box
- A set of tools

Accessories (option)

■ Cab-top light

■ Rain reflector

■ Front guard (FOPS level 1)

■ Head guard (FOPS level 2)

■ 12V power (DC-DC converter)

■ Polycarbonate with sunshade roof top window

■ Air suspension (KAB seat)

■ Full track guard
■ Re-fuel Pump
■ Pre-cleaner
■ Hose burst check valve (for arm/boom cylinder)
■ Lower window guard