

 **SUMITOMO (S.H.I.)**
CONSTRUCTION MACHINERY
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We are constantly improving our products and therefore reserve the right to change designs and specifications without notice. Illustrations may include optional equipment and accessories and may not include all standard equipment.

SUMITOMO

SH700LHD-5

SH800LHD-5



■ Engine Rated Power (Net) :
SH700LHD-5 345 kW • 469 PS
SH800LHD-5 397 kW • 540 PS

■ Operating weight :
SH700LHD-5 68,100~68,900 kg
SH800LHD-5 80,100~80,900 kg

■ Bucket : ISO/SAE/PCSA Heaped :
SH700LHD-5 2.0~4.0 m³
SH800LHD-5 2.4~4.1 m³



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 SUMITOMO's its 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.

Engine and Hydraulics 04 - 07

- SPACE 5
- SIH'S
- New working mode

Durability 08 - 09

- Stronger boom and arm
- High-durability bucket
- Full track guard prevents derailment (option)

Maintenance 10 - 11

- High performance hydraulic return filter
- Fuel tank
- Engine oil drain coupler

Operator Comfort 12 - 13

- Spacious cabin
- Comfortable operator's seat
- Message display from LCD monitor

Safety 14

- Optimised view from cabin
- High -rigidity cabin structure

Customer and Product Support 15

Specifications 16 - 27

Engine and Hydraulics



- ① Powerful
- ② Economy
- ③ Clean
- ④ Silent
- ⑤ Strong
- “SPACE5” is a new engine system consisting of five (5) special features.

SH700LHD-5

SH700LHD-5	
Name of Engine	ISUZU AH-6WG1XYSS
Type	24-valve OHC
Displacement	cc15,700
Number of Cylinder-Dia. X Stroke	mm6-147 x 154
Rated output	kW/min ⁻¹ 345/1,800
Max. torque	N·m/min ⁻¹ 1,980/1,500
Size (Length-Width-Height)	mm1462-1017-1422 without Fan
Cylinder block	Ladder frame
Fan belt	V-Belt

SH800LHD-5

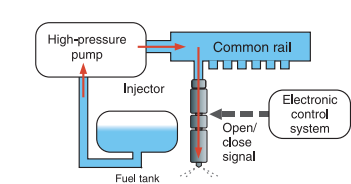
SH800LHD-5	
Name of Engine	ISUZU AH-6WG1XYSS
Type	24-valve OHC
Displacement	cc15,700
Number of Cylinder-Dia. X Stroke	mm6-147 x 154
Rated output	kW/min ⁻¹ 397/1,800
Max. torque	N·m/min ⁻¹ 2,250/1,500
Size (Length-Width-Height)	mm1462-1017-1422 without Fan
Cylinder block	Ladder frame
Fan belt	V-Belt

Engine

A newly developed ISUZU engine the 6WG1X complies with Emission Regulations U.S. EPA Tier III and EU Stage IIIA. This produces higher output and torque, and far better fuel consumption than the previous model. 2% reduction in fuel consumption using the new engine system “SPACE5”(As compared with existing models)

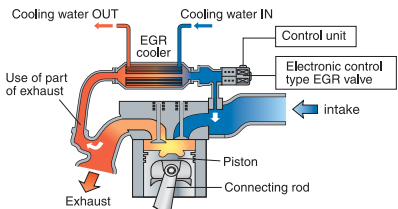
Common Rail Type High-Pressure Fuel Injection System

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.



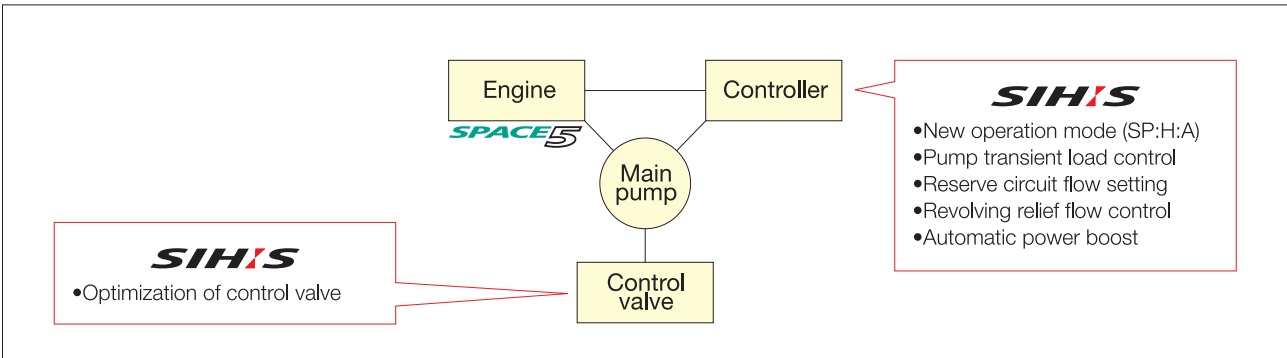
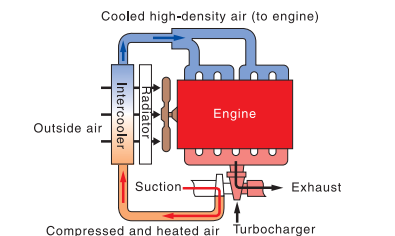
Cooled EGR System

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.



SP (Speed Priority mode)

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

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 2% fuel efficiency improvement in comparison with our conventional model.

Hydraulic Oil Flow Control

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

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.

Engine and Hydraulics

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 3B, the H mode of Dash 5 has reduced the fuel consumption by 2% as compared with Dash 3B.



Throttle knob position	1	2	3	4~15
Engine speed	SH700 1,870	1,800	1,750	1,749~900
	SH800 1,800	1,750	1,700	1,699~900
Operation mode	SP	H	A	
Automatic power boost	Automatic			Constant

H	HEAVY (Speed priority)	Reduction in fuel consumption by 2% →	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	ADJUSTMENT (Ordinary operation/ Fine and lifting operation)
L	LIGHT/LIFT (Fine and lifting operation)			

SH700/800LHD-3B

SH700/800LHD-5



Notes: FOPS level 2 cab guard is optional equipment.

Durability



Notes: Catwalks are standard equipment. (not shown here)
Non standard bucket pictured.



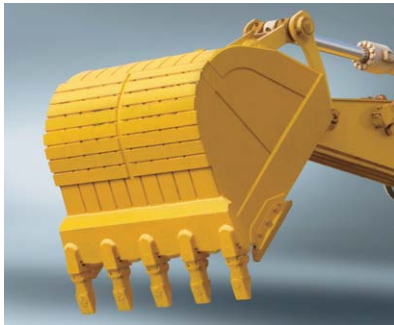
Stronger boom and arm

The strength of all joints has been increased to ensure durability, permitting operation at any site with severe working conditions and a large workload.



High-durability bucket

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



High-rigidity swing frame

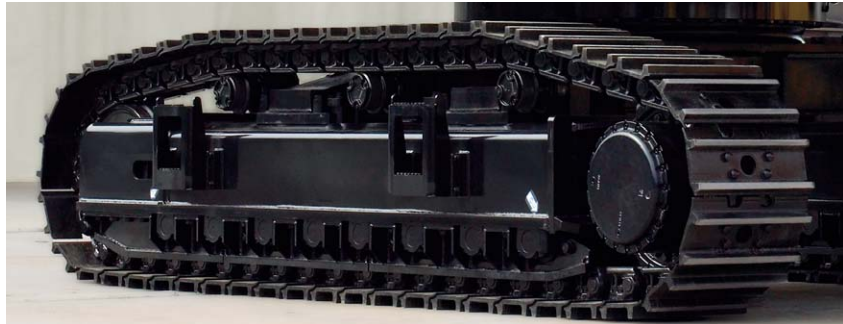
The rigidity and durability of the frame of the upper revolving unit has been increased to withstand rough handling during every operation.

Reinforced double grouser shoe

The reinforced double grouser shoe permits operation on rough roads, steep slopes, and other work sites where large machines must be used.

Full track guard prevents derailment(option)

Full track guard is efficient in preventing derailment of the links (chain) and protecting the rollers.



Maintenance

EMS permits fuss-free maintenance

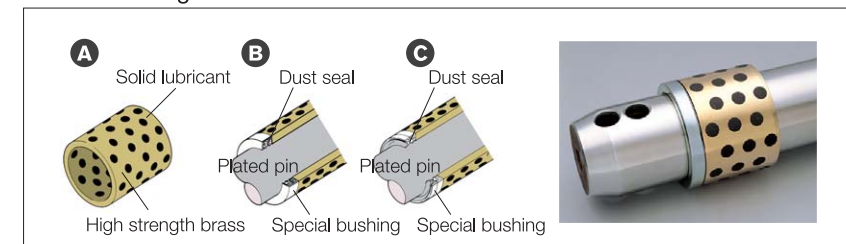
EMS allows greasing of the front attachments at intervals of 1,000 hours and substantially reduces the greasing trouble and time, as well as the maintenance cost, also reducing a noise.

•Greasing interval: **1,000 hours**

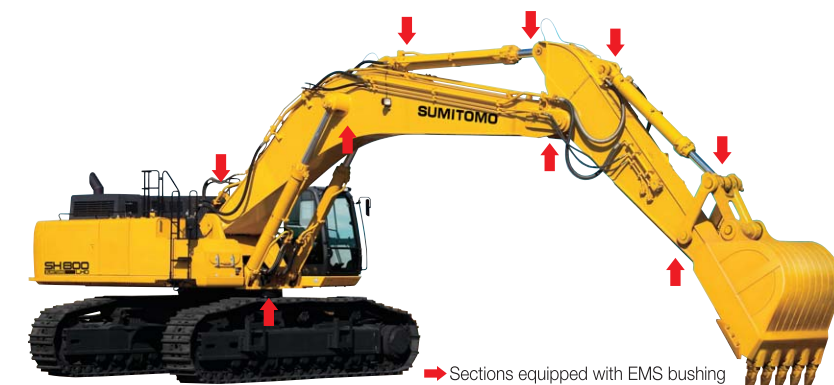
* The greasing interval differs according to the operating condition.



■ EMS bushing



- A solid lubricant embedded in high strength brass forms a layer on the bush 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.
- The dust seal has a double structure to prevent entry of abrasive materials and eliminating wear.



Precautionary use of EMS

- ① Grease impregnated. Greasing is still necessary at every 1,000 hours or six months, whichever comes earlier.
- ② Greasing is necessary after underwater digging operation, because the internal grease can be forced out due to being submerged.
- ③ When a breaker, crusher, or some other special attachment are installed, greasing is necessary every day, because the pins and bushes are different according to the attachment manufacturer.
- ④ Bucket pins should be cleaned thoroughly when removing or fitting new attachments.

High-Performance Return Filter

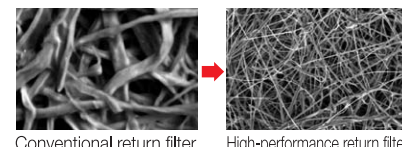
The hydraulic oil change interval is 5,000hours, and the return filter change interval is 2,000hours. One high performance return filter keeps the same level of filtering effect as a nephron.

- 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.

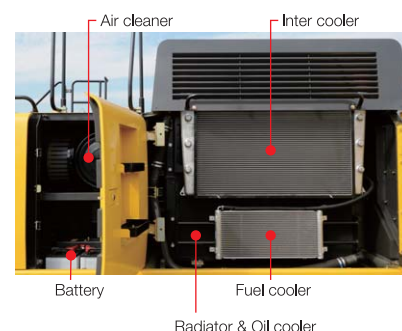


Remote fuel prefilter

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

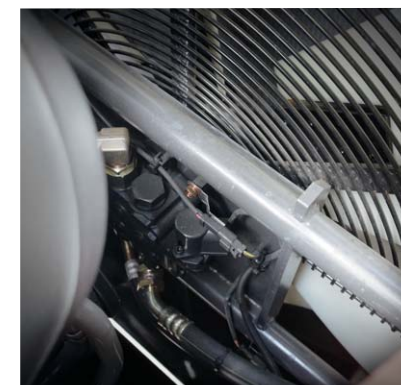


Fuel prefilter (with water separator) Pilot filter



Hydraulically driven cooling fan system

Optimum cooling control and reduction in noise according to the working environment.



Easier cleaning by reversed fan rotation

The switch in the cab permits the cooling fan to rotate in reverse to remove dust from the radiator, oil cooler, inter cooler, and fuel cooler to prevent clogging.

Electric indicator permits confirmation of air cleaner clogging

The message on the monitor permits confirmation of air cleaner clogging. The indicator further permits confirmation of return filter clogging when the breaker piping and combination piping are installed.

Large toolbox

A large toolbox is provided to completely store a large quantity of tools.



The 900-liter fuel tank ensures extended operation

The large-capacity fuel tank reduce down time.

Fuel Tank

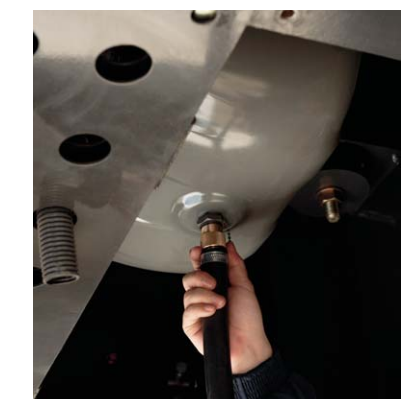
Stainless steel is used for the strainer that prevents dust entering during re-fueling. Furthermore, a maintenance hole is provided to permit easy periodical maintenance.



Stainless steel strainer Maintenance hole for cleaning

Engine oil drain coupler prevents oil spattering

The engine oil pan is provided with a drain coupler. The supplied drain hose prevents oil spattering to facilitate draining work.



Engine maintenance steps

The engine room is designed to permit safe maintenance.



Catwalk on both sides

The house is provided with a catwalk on both sides to permit free movement during 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.



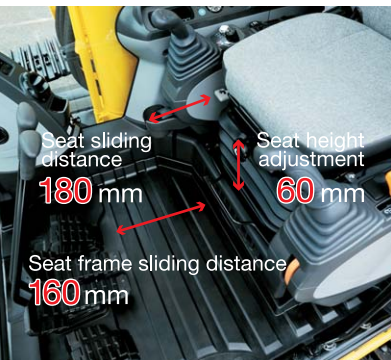
The KAB Seat Eliminates Vibration



Air suspension (Option)

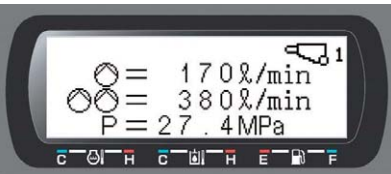
Operating Positions of Sliding Seat and Tilting Console

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

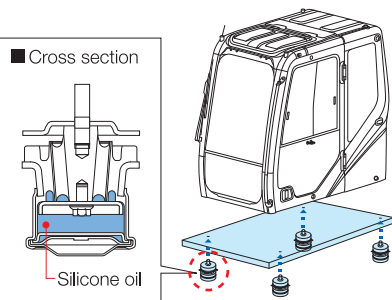
1. ENG.PRE HEAT
2. AUTO WARM UP
3. ENG.IDLING
4. POWER UP
5. ENGINE STOP

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

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

SUMITOMO unique design

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



Adoption of gate type lock lever

A gate type lock lever has been adopted to prevent sudden acceleration of the machine.



Large ISO-compliant handrail

A large ISO-compliant handrail has been adopted to enhance safety when the operator gets on and off the machine.



SH700LHD-5



SH800LHD-5

Adoption of megavolume horn

An easy-to-hear megavolume horn has been adopted to make the horn audible in any work site. Safety during operation will be enhanced.



Emergency escape window

Allows operator to escape from the rear window in case of emergency.



Equipment that enhances safety



Seat belt



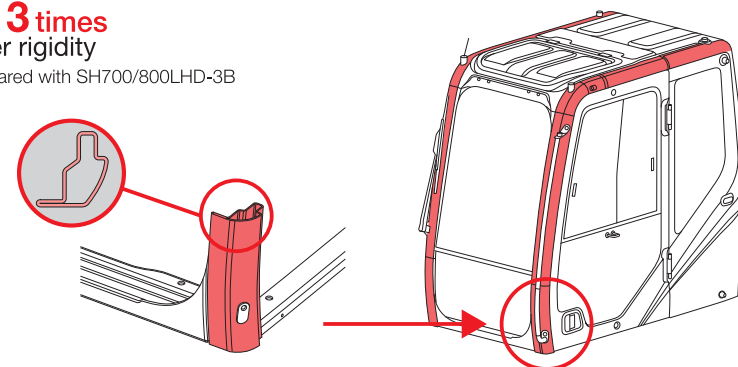
Rearview mirror

High-rigidity Cabin

The new cabin structure provides advanced operator protection.

• About **3 times** greater rigidity

* As compared with SH700/800LHD-3B



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

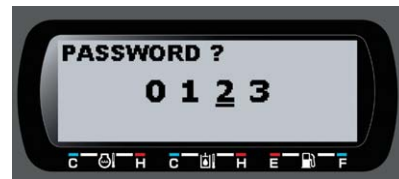
SUMITOMO unique design



New non-slip plate

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

Safety Equipment in case of an Emergency



Emergency stop switch

Customer and Product Support

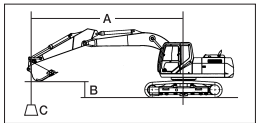
SUMITOMO's total commitment to product and customer support has enabled it grow into a world renowned manufacturer of hydraulic excavators. Supported by a global sales and service network of over four hundred distributors representing hydraulic excavators manufactured by SUMITOMO, the company supply 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.



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 Side

Unit : kg

SH700LHD-5				SHOE : 650 (mm)G BUCKET : SAE/PCSA 2.9 (m³)		ARM LENGTH = 3.00 (m) MAXIMUM REACH = 11.02 (m)		BOOM : 7.70 (m)																				
Bucket Hook Height	Radius of Load																											
	Max. Radius		12 m		11 m		10 m		9 m		8 m		7 m		6 m		5 m		4 m		3 m		Min. Radius					
																												
8 m	10 894*	9.2	10 894*	9.2						11 676*	11 563												12 737*	8.23	12 737*	8.23		
7 m	8 853*	10.07	8 853*	10.07				9 362*	9 192	12 604*	11 391	13 345*	13 345*										13 497*	7.83	13 497*	7.83		
6 m	8 915*	10.46	8 244	10.46				11 990*	9 058	13 021*	11 117	14 043*	13 775	15 457*	15 457*								15 507*	6.97	15 507*	6.97		
5 m	9 089*	10.74	7 660	10.74				12 605*	8 853	13 565*	10 782	14 886*	13 271	16 726*	16 640	19 410*	19 410*	23 646*	23 646*				30 687*	4.07	30 687*	4.07		
4 m	9 378*	10.92	7 254	10.92				12 972*	8 615	14 164*	10 420	15 783*	12 741	18 054*	15 854	21 427*	20 262	26 936*	26 936*				20 019*	4.54	20 019*	4.54		
3 m	9 794*	11.01	6 994	11.01			9 905*	7 006	13 077	8 373	14 748*	10 064	16 639*	12 231	19 285*	15 120	23 211*	19 170	20 937*	20 937*			14 090*	4.75	14 090*	4.75		
2 m	10 358*	11	6 867	11			10 400*	6 870	12 835	8 149	15 249*	9 741	17 359*	11 783	20 275*	14 503	24 508*	18 329	16 166*	16 166*			11 169*	4.74	11 169*	4.74		
1 m	10 970	10.9	6 867	10.9					12 634	7 962	14 983	9 474	17 866*	11 423	20 925*	14 037	25 211*	17 766	16 791*	16 791*			9 559*	4.5	9 559*	4.5		
0 m	11 212	10.71	7 003	10.71					12 491	7 829	14 769	9 278	17 825	11 166	21 185*	13 726	25 340*	17 441	19 930*	19 930*	8 908*	8 908*		8 755*	3.98	8 755*	3.98	
-1 m	11 683	10.41	7 298	10.41					12 424	7 767	14 644	9 163	17 657	11 013	21 035*	13 557	24 952*	17 299	24 688*	23 441	14 479*	14 479*		12 921*	3.39	12 921*	3.39	
-2 m	12 451	10	7 795	10					12 480	7 800	14 619	9 140	17 533*	10 966	20 448*	13 514	24 073*	17 303	28 554*	23 554	20 346*	20 346*	14 709*	14 709*	16 094*	2.77	16 094*	2.77
-3 m	12 869*	9.47	8 573	9.47							14 084*	9 227	16 576*	11 030	19 363*	13 591	22 670*	17 435	26 625*	23 789	27 043*	27 043*	20 704*	20 704*	18 364*	2.35	17 867*	2.15
-4 m	12 729*	8.79	9 791	8.79									14 933*	11 226	17 643*	13 797	20 632*	17 696	24 041*	24 041*	27 886*	27 886*	27 411**	27 411**	24 456*	2.36	24 456*	2.36
-5 m	12 272*	7.92	11 790	7.92										14 978*	14 167	17 719*	17 719*	20 570*	20 570*	23 565*	23 565*	26 580*	26 580*	26 839*	2.91	26 839*	2.91	
-6 m	11 101*	6.79	11 101*	6.79												13 373*	13 373*	15 753*	15 753*					17 559*	4.12	17 559*	4.12	

SH700LHD-5				SHOE : 50 (mm)G BUCKET : SAE/PCSA 2.9 (m³)				ARM LENGTH = 3.55 (m) MAXIMUM REACH = 11.14 (m)				BOOM : 7.70 (m)																
Bucket Hook Height	Radius of Load																											
	Max. Radius		12 m		11 m		10 m		9 m		8 m		7 m		6 m		5 m		4 m		3 m		Min. Radius					
																												
9 m	8 800*	8.81	8 800*	8.81																			8 829*	8.81	8 829*	8.81		
8 m	7 818*	9.69	7 818*	9.69					10 304*	10 304*														10 927*	8.72	10 927*	8.72	
7 m	7 862*	10.2	7 862*	10.2				8 873*	8 873*	11 914*	11 560													12 299*	8.37	12 299*	8.37	
6 m	8 015*	10.59	8 015*	10.59				10 867*	9 183	12 387*	11 265	13 308*	13 308*											13 674*	7.67	13 674*	7.67	
5 m	8 275*	10.87	7 568	10.87				12 084*	8 950	12 984*	10 913	14 199*	13 463	15 868*	15 868*									17 739*	6.19	17 739*	6.19	
4 m	8 649*	11.05	7 150	11.05			8 991*	7 210	12 515*	8 689	13 643*	10 532	15 160*	12 915	17 269*	16 135	20 362*	20 362*	25 291*	25 291*	21 326*	21 326*		18 164*	3.91	18 164*	3.91	
3 m	9 155*	11.13	6 874	11.13			10 237*	7 036	12 952*	8 423	14 298*	10 152	16 099*	12 379	18 611*	15 364	22 314*	19 586	28 240*	26 025				12 477*	4.16	12 477*	4.16	
2 m	9 824*	11.12	6 274	11.12			10 930	6 869	12 866	8 174	14 882*	9 802	16 924*	11 895	19 749*	14 694	23 859*	18 647	26 067*	24 717				9 887*	4.14	9 887*	4.14	
1 m	10 704*	11.03	6 698	11.03			10 779	6 728	12 634	7 958	15 019	9 503	17 556*	11 494	20 576*	14 165	24 653*	17 970	23 618*	23 618*	10 078*	10 078*		8 614*	3.86	8 614*	3.86	
0 m	10 939	10.83	6 802	10.83					12 454	7 791	14 766	9 270	17 858	11 190	21 031*	13 788	25 277*	17 539	24 846*	23 554	13 546*	13 546*		11 467*	3.46	11 467*	3.46	
-1 m	11 358	10.54	7 056	10.54					12 342	7 687	14 596	9 115	17 637	10 990	21 085*	13 554	25 167*	17 306	28 062*	23 406	17 609*	17 609*		14 060*	3.07	14 060*	3.07	
-2 m	12 056	10.14	7 498	10.14					12 313	7 660	14 519	9 044	17 529	10 892	20 717*	13 451	24 553*	17 233	29 518*	23 427	22 241*	22 241*	16 649*	16 649*	16 655*	2.51	16 655*	2.51
-3 m	13 145	9.61	8 200	9.61							14 547	9 069	17 011*	10 899	19 881*	13 467	23 422*	17 294	27 867*	23 586	27 615*	27 615*	21 470*	21 470*	19 146*	2.35	17 884*	2.35
-4 m	13 337*	8.94	9 303	8.94									15 735*	11 022	18 481*	13 603	21 700*	17 483	25 595*	23 878	30 381*	30 381*	26 855*	26 855*	24 012*	2.35	22 548*	2.35
-5 m	13 325*	8.09	11 105	8.09									13 583*	11 296	16 312*	13 679	19 218*	17 813	22 529*	22 529*	26 415*	26 415*	31 149*	31 149*	29 581*	2.35	29 489*	2.35
-6 m	12 901*	6.99	12 901*	6.99													15 619*	15 619*	18 344*	18 344*	21 211*	21 211*		23 524*	3.24	23 524*	3.24	

SH700LHD-5				SHOE : 650 (mm)G BUCKET : SAE/PCSA 2.3 (m³)		ARM LENGTH = 4.11 (m) MAXIMUM REACH = 11.63 (m)		BOOM : 7.70 (m)																					
Bucket Hook Height	Radius of Load																												
	Max. Radius		12 m		11 m		10 m		9 m		8 m		7 m		6 m		5 m		4 m		3 m		Min. Radius						
																													
9 m	6 777"	9.58	6 777"	9.58																			7 481"	9.35	7 481"	9.35			
8 m	6 450"	10.26	6 450"	10.26				7 393"	7 393"														9 083"	9.28	9 083"	9.28			
7 m	6 473"	10.74	6 473"	10.74				8 926"	8 926"	10 581"	10 581"												10 608"	8.98	10 608"	8.98			
6 m	6 582"	11.1	6 582"	11.1				7 087"	7 087"	10 252"	9.445	11 778"	11 567"											12 235"	8.39	12 235"	8.39		
5 m	6 774"	11.37	6 774"	11.37				8 553"	7 592	11 610"	9 190	12 426"	11 197	13 507"	13 507"									14 417"	7.34	14 417"	7.34		
4 m	7 055"	11.54	6 700	11.54				9 821"	7 402	12 102"	8 907	13 144"	10 796	14 531"	13 254	16 437"	16 437"	19 190"	19 190"	23 473"	23 473"	31 014"	31 014"	20 592"	3.44	20 592"	3.44		
3 m	7 437"	11.63	6 448	11.63				10 988"	7 200	12 607"	8 617	13 872"	10 392	15 556"	12 688	17 891"	15 785	21 306"	20 200	26 703"	26 703"	17 772"	17 772"	11 933"	3.72	11 933"	3.72		
2 m	7 940"	11.62	6 305	11.62				11 072	7 005	13 042	8 340	14 545"	10 010	16 492"	12 165	19 183"	15 056	23 089"	19 157	29 188"	25 485	12 478"	12 478"	8 671"	3.7	8 671"	3.7		
1 m	8 598"	11.53	6 269	11.53				10 887	6 832	12 076	8 094	15 104"	9 675	17 257"	11 715	20 198"	14 455	24 396"	18 356	26 981"	24 455	12 492"	12 492"	7 164"	3.38	7 164"	3.38		
0 m	9 462"	11.34	6 344	11.34				10 740	6 695	12 559	7 892	14 905	9 403	17 788"	11 360	20 864"	14 002	25 140"	17 803	26 120"	23 848	14 442"	14 442"	8 218"	8 218"	9 550"	2.98	9 550"	2.98
-1 m	10 552	11.06	6 545	11.06				10 646	6 607	12 403	7 747	14 689	9 204	17 759	11 105	21 144"	13 695	25 343"	17 464	27 847"	23 540	17 363"	17 363"	11 788"	11 788"	11 831"	2.63	11 831"	2.63
-2 m	11 117	10.88	6 901	10.88						12 320	7 670	14 559	9 085	17 590	10 952	21 016"	13 522	25 033"	17 298	30 428"	23 443	20 986"	20 986"	15 473"	15 473"	13 399"	2.35	14 105"	2.35
-3 m	11 990	10.18	7 465	10.18						12 327	7 676	14 524	9 053	17 488"	10 901	20 447"	13 471	24 212"	17 279	29 128"	23 506	25 319"	25 319"	19 457"	19 457"	17 160"	2.35	15 830"	2.35
-4 m	12 820"	9.55	8 333	9.55								14 110"	9 122	16 542"	10 956	19 368"	13 538	22 833"	17 390	27 223"	23 712	30 560"	30 560"	23 927"	23 927"	21 253"	2.35	19 603"	2.35
-5 m	12 965"	8.76	9 699	8.76								14 932"	11 134	17 645"	13 729	20 782"	17 635	24 596"	24 064	29 432"	29 432"	29 145"	29 145"	25 890"	25 890"	23 807"	2.35	23 807"	2.35
-6 m	12 891"	7.76	12 016	7.76										14 986"	14 078	17 824"	17 824"	21 018"	24 826"	24 826"	29 717"	29 717"	31 816"	31 816"	24 43	31 816"	2.43	31 816"	2.43
-7 m	12 231"	6.44	12 231"	6.44													13 431"	13 431"	16 040"	16 040"	18 700"	18 700"			19 139"	3.84	19 139"	3.84	

SH700LHD-5				SHOE : 650 (mm)G BUCKET : SAE/PCSA 2.0 (m³)				ARM LENGTH = 5.00 (m) MAXIMUM REACH = 12.63 (m)				BOOM : 7.70 (m)																			
Bucket Hook Height	Radius of Load																														
	Max. Radius		12 m		11 m		10 m		9 m		8 m		7 m		6 m		5 m		4 m		3 m		Min. Radius								
																															
9 m	5 271*	10 68	5 271*	10 68																				6 235*	10 23	6 235*	10 23				
8 m	4 731*	11 38	4 731*	11 38			5 810*	5 810*																	7 118*	10 17	7 118*	10 17			
7 m	4 704*	11 81	4 704*	11 81			6 782*	6 782*			7 898*	7 898*													7 948*	9 92	7 948*	9 92			
6 m	4 737*	12 14	4 737*	12 14	5 285*	5 285*	7 588*	7 588*			8 624*	8 624*													8 924*	9 45	8 924*	9 45			
5 m	4 826*	12 39	4 826*	12 39	6 253*	6 253*	8 410*	7 776			9 576*	9 421	10 288*	10 288*												10 449*	8 69	10 449*	8 69		
4 m	4 973*	12 55	4 973*	12 55	7 039*	6 277	9 335*	7 546			10 855*	9 103	12 016*	11 073	13 159*	13 159*										14 017*	7 4	14 017*	7 4		
3 m	5 183*	12 62	5 183*	12 62	7 719*	6 109	10 396*	7 305			11 734*	8 773	12 839*	10 623	14 297*	13 034	16 292*	16 292*	19 164*	19 164*	23 605*	23 605*	31 260*	31 260*			20 066*	3 48	20 066*	3 48	
2 m	5 464*	12 62	5 345	12 62	8 273*	5 941	11 150	7 068			12 311*	8 450	13 634*	10 188	15 384*	12 440	17 795*	15 481	21 286*	19 829	26 702*	26 601	18 457*	18 457*			10 208*	3 45	10 208*	3 45	
1 m	5 831*	12 53	5 303	12 53	8 599*	5 786	10 915	6 848			12 826*	8 153	14 342*	9 790	16 340*	11 907	19 078*	14 758	23 010*	18 825	28 996*	25 173	14 410*	14 410*			6 667*	3 11	6 667*	3 11	
0 m	6 306*	12 36	5 345	12 36	8 508*	5 657	10 713	6 659			12 575	7 896	14 911*	9 450	17 096*	11 462	20 055*	14 176	24 229*	18 066	27 363*	24 203	14 335*	14 335*	7 787*	7 787*	5 300*	2 35	5 078*	2 27	
-1 m	6 925*	12 1	5 479	12 1	7 686*	5 566	10 554	6 510			12 354	7 690	14 677	9 180	17 601*	11 116	20 676*	13 743	24 918*	17 541	26 709*	23 605	15 845*	15 845*	10 125*	10 125*	7 920*	2 35	7 817*	1 85	
-2 m	7 742*	11 76	5 723	11 76			10 452	6 415			12 197	7 545	14 466	8 987	17 519	10 873	20 912*	13 452	25 089*	17 215	28 311*	23 284	18 276*	18 276*	12 837*	12 837*	10 685*	2 35	9 420*	1 75	
-3 m	8 852*	11 31	6 105	11 31			10 421	6 385			12 116	7 470	14 345	8 875	17 363	10 732	20 740*	13 292	24 755*	17 057	30 225*	23 171	21 443*	21 443*	15 910*	15 910*	13 664*	2 35	12 282*	1 75	
-4 m	10 428*	10 75	6 678	10 75							12 124	7 477	14 319	8 851	17 174*	10 692	20 120*	13 253	23 899*	17 044	28 927*	23 228	25 386*	25 386*	19 419*	19 420*	16 949*	2 35	15 373*	1 75	
-5 m	11 403*	10 05	7 533	10 05							11 530*	7 593	13 774*	8 928	16 163*	10 759	18 974*	13 331	22 459*	17 165	26 973*	23 438	30 328*	30 328*	23 515*	23 515*	20 668*	2 35	18 809*	1 75	
-6 m	11 466*	9 2	8 854	9 2									11 974*	9 140	14 470*	10 949	17 152*	13 538	20 306*	17 424	24 233*	23 806	29 424*	29 424*	28 471*	28 471*	25 025*	2 35	22 749*	1 75	
-7 m	11 300*	8 12	11 066	8 12											11 644*	11 318	14 346*	13 907	17 181*	17 181*	20 460*	24 542*	24 542*	30 166*	30 166*	30 166*	30 166*	23 596*	2 35	22 596*	2 21
-8 m	10 543*	6 72	10 543*	6 72																12 514*	12 514*	15 159*	15 159*	17 990*	17 990*			18 099*	3 96	18 099*	3 96

SH700LHD-5 MASS				SHOE : 650 (mm)G BUCKET : SAE/PCSA 4.0 (m³)				ARM LENGTH = 3.00 (m) MAXIMUM REACH = 9.77 (m)				BOOM : 6.58 (m)																		
Bucket Hook Height	Radius of Load																													
	Max. Radius		12 m		11 m		10 m		9 m		8 m		7 m		6 m		5 m		4 m		3 m		Min. Radius							
																														
6 m	11 067"	8.66	11 067"	8.66									13 617"	13 617"										15 391"	7.14	15 391"	7.14			
5 m	8 672"	9.41	8 672"	9.41									11 624"	10 994	15 317"	13 721	16 697"	16 697"							18 158"	6.22	18 158"	6.22		
4 m	8 570"	9.66	8 570"	9.66									13 849"	10 732	16 169"	13 298	18 023"	16 771	20 711"	20 711"	24 883"	24 883"	32 153"	32 153"		27 107"	3.19	27 107"	3.19	
3 m	9 082"	9.76	8 975	9.76									15 378"	10 445	17 047"	12 856	19 358"	16 106	22 734"	20 756	28 049"	27 999	34 644"	34 644"		15 670"	3.49	15 670"	3.49	
2 m	9 791"	9.76	8 799	9.76									15 749	10 169	17 833"	12 440	20 534"	15 496	24 443"	19 850	30 500"	26 612	22 756"	22 756"		11 636"	3.47	11 636"	3.47	
1 m	10 763"	9.64	8 817	9.64									15 490	9 930	18 416"	12 086	21 404"	14 992	25 628"	19 148	31 937"	25 659	22 033"	22 033"		9 938"	3.13	9 938"	3.13	
0 m	12 111"	9.42	9 047	9.42									15 299	9 755	18 558	11 818	21 855"	14 622	26 182"	18 668	32 367"	25 097	25 042"	25 042"	14 034"	14 034"	13 543"	2.57	13 543"	2.57
-1 m	14 047"	9.08	9 534	9.08									15 206	9 670	18 378	11 655	21 794"	14 396	26 062"	18 396	31 899"	24 835	30 083"	30 083"	19 601"	19 601"	15 994"	2.35	17 024"	2.02
-2 m	15 911"	8.61	10 376	8.61											17 790"	11 614	21 111"	14 315	25 216"	18 311	30 581"	24 805	36 902"	36 902"	25 733"	25 733"	21 782"	2.35	19 667"	1.75
-3 m	16 141"	7.98	11 774	7.98													19 601"	14 393	23 514"	18 403	28 335"	24 976	34 532"	34 532"	32 881"	32 881"	28 155"	2.35	25 430"	1.74
-4 m	16 144"	7.16	14 196	7.16													16 768"	14 677	20 641"	13 693	24 903"	24 903"	30 017"	30 017"	36 514"	36 514"	35 672"	2.35	33 001"	1.95
-5 m	15 529"	6.05	15 529"	6.05															15 738"	15 738"	19 672"	19 672"	23 641"	23 641"	28 008"	28 008"	28 352"	2.93	28 352"	2.93

Specifications

SH800LHD-5 Technical data

Engine

SH800LHD-5	
Model	ISUZU AH-6WG1XYSS
Type	Electric control, water cooled, 4-cycle diesel, 6-cylinder in line, direct injection, turbocharged with air cooled inter-cooler
Rated output	397 kW·540 PS/1,800 min ⁻¹
Maximum torque	2,250 N·m at 1,500 min ⁻¹
Piston displacement	15,700 cc
Bore and stroke	147 mm x 154 mm
Starting system	24 V electric motor starting
Alternator	24 V, 50 A
Fuel tank	900 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 Intelligent 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 provide power for boom, arm, bucket, swing and travel.

SH800LHD-5	
Maximum oil flow	2 x 500 liters/min
Pilot pump max.oil flow	27 liters/min

Hydraulic motors

For travel:Two variable displacement axial piston motors.

For swing:Two fixed displacement axial piston motor.

Relief valve settings

Boom/arm/bucket •••••36.3 Mpa(370 kgf/cm²)<Holding pressure>
Boom/arm/bucket •••••31.4 Mpa(320 kgf/cm²)<Working pressure>
Boom/arm/bucket •••••34.3 Mpa(350 kgf/cm²)with Power-up<Working pressure>
Swing circuit •••••••••26.5 Mpa(270 kgf/cm²)
Travel circuit •••••••••34.3 Mpa(350 kgf/cm²)

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

Return filter •••••••••••6 microns

Pilot filter •••••••••••8 microns

Suction filter •••••••••••105 microns

Hydraulic cylinders

SH800LHD-5		
Boom	2	200 mm x 140 mm x 1,893 mm
Arm	1	215 mm x 150 mm x 2,290 mm
Arm (Mass)	1	215 mm x 150 mm x 2,175 mm
Bucket	1	190 mm x 130 mm x 1,555 mm
Bucket (Mass)	1	215 mm x 150 mm x 1,520 mm

Double-acting, bolt-up type cylinder end;hardened steel bushings
Installed in cylinder tube and rod 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. Controll levers are located in 4 positions with tilting control consoles. Reliable soft-touch swiches are a standard feature. An easy-to-read ful-dot LCD monitor keeps operation in touch with critical machine functions.

Swing

Planetary reduction powered by an axial piston motor. Internal ring gear with grease cavity for pinion. Swing bearing is single-row shear type ball bearing. Dual stage relief valves for smooth swing deceleration and stops. Mechanical disc swing brake.

SH800LHD-5	
Swing speed	0~6.4 min ⁻¹
Tail swing radius	4,300 mm
Swing torque	266 kN•m · 27,100 kgf•m

Undercarriage

X-style carbody is integrally welded for strength and durability. Grease cylinder track adjusters with shock absorbing springs. Undercarriage with lubricated rollers and idlers.

Type of shoe:sealed link shoe

Upper rollers -

Heat treated, mounted on steel bushings
with fluorine resin, sealed for lifetime lubrication.

Lower rollers -

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

Track adjustment -

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

Number of rollers and shoes on each side

SH800LHD-5	
Upper rollers	3
Lower rollers	9
Track shoes	51

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 into each motor.

SH800LHD-5		
Travel speed	High	4.2 km/h
	Low	2.9 km/h
Maximum traction force		565 kN · 57,600 kgf

Lubricant & coolant capacity

SH800LHD-5	
Hydraulic system	720 liters
Hydraulic oil tank	310 liters
Fuel tank	900 liters
Cooling system	108 liters
Final drive case(per side)	13.8 liters
Swing drive case(per side)	4.7 liters
Engine crank case (with remote oil filter)	52 liters

Auxiliary hydraulic system

Model	SH800LHD-5	
Auxiliary piping type (option)	For Breaker	For Double (breaker & crusher) acting
Arm type	STD	STD
Bucket linkage type	STD	STD
Auxiliary hydraulic pump flow	max.480 liters/min	max.1 000 liters/min

Weight & ground pressure

Model	SH800LHD-5 (Mass)		
Shoe type	Shoe width	Operating weight	Ground pressure
Triple grouser shoe	650 mm	80 100 kg (80 200 kg)	109 kPa (110 kPa)
	750 mm	80 800 kg (80 900 kg)	96 kPa (96 kPa)

Digging force

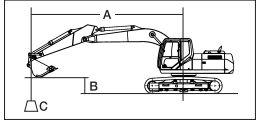
Model		SH800LHD-5			SH800LHD-5 Mass
Arm length		3.66 m	4.44 m	5.62 m	2.98 m
Bucket digging force <with auto power up>	ISO 6015	330 kN <361 kN>			430 kN <470 kN>
	SAE: PCSA	294 kN <322 kN>			412 kN <377 kN>
Arm digging force <with auto power up>	ISO 6015	274 kN <300 kN>	232 kN <253 kN>	202 kN <221 kN>	317 kN <347 kN>
	SAE: PCSA	265 kN <290 kN>	225 kN <247 kN>	197 kN <216 kN>	332 kN <304 kN>

Principal specifications & dimensions

Model		SH800LHD-5	SH800LHD-5 Mass
Base	Boom Length	8.4 m	7.25 m
	Arm Length	3.66 m	2.98 m
	Bucket capacity (ISO heaped)	3.3 m³	4.1 m³
	Operating weight	80 100 kg	80 200 kg
Engine	Make & model	ISUZU AH-6WG1XYSS	
	Rated output	397kW(540PS)/1 800 min ⁻¹	
	Displacement	15 700 ml(cc)	
Hydraulic System	Main pump	2 variable displacement axial piston pumps with regulating system	
	Max Pressure	31.4 MPa	
	(with auto power up)	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	4.2/2.9 km/h	
	Traction force	565 kN	
	Grade ability	70% <35°>	
	Ground pressure	109 kPa	110 kPa
	Swing speed	6.4 min ⁻¹	
	Bucket	361 kN	470 kN
Other	Arm	300 kN	347 kN
	Fuel tank	900 liter	
	Hydraulic fluid tank	310 liter	

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



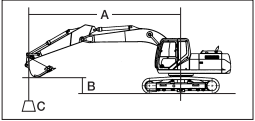
Load Radius
Over Side

Unit : kg

SH800LHD-5				SHOE : 650 (mm)G BUCKET : SAE/PCSA 3.3 (m³)		ARM LENGTH = 3.66 (m) MAXIMUM REACH = 12.13 (m)		BOOM : 8.40 (m)																								
Bucket Hook Height	Radius of Load																															
	Max. Radius		14 m		13 m		12 m		11 m		10 m		9 m		8 m		7 m		6 m		5 m		4 m		3 m		Min. Radius					
																																
10 m	7 538"	9.69	7 538"	9.69																								8 605"	9.5	8 605"	9.5	
9 m	7 401"	10.37	7 401"	10.37							9 579"	9 579"																11 698"	9.48	11 698"	9.48	
8 m	7 372"	10.92	7 372"	10.92							12 197"	12 197"																12 569"	9.22	12 569"	9.22	
7 m	7 433"	11.35	7 433"	11.35							9 931"	9 931"	12 515"	12 515"	13 221"	13 221"												13 493"	8.68	13 493"	8.68	
6 m	7 579"	11.68	7 579"	11.68							12 275"	10 427"	12 966"	12 496	13 885"	13 895"	15 131"	15 131"										15 613"	7.68	15 613"	7.68	
5 m	7 811"	11.92	7 811"	11.92							12 619"	10 158	13 500"	12 105	14 666"	14 561	16 227"	16 227"	18 384"	18 384"	21 525"	21 525"	26 492"	26 492"	35 726"	35 726"		36 001"	3.98	36 001"	3.98	
4 m	8 136"	12.07	8 136"	12.07							8 818"	6 362	13 004"	9 868	14 071"	11 696	15 472"	13 985	17 358"	16 948	19 996"	19 996"	23 909"	23 909"	30 289"	30 289"		23 850"	4.41	23 850"	4.41	
3 m	8 568"	12.13	8 001"	12.13							9 967"	8 166	13 386"	9 578	14 629"	11 296	16 250"	13 440	18 428"	16 200	21 478"	19 893	25 997"	25 104	28 933"	28 933"		18 053"	4.58	18 053"	4.58	
2 m	9 130"	12.11	7 853	12.11							10 411"	7 982	13 725"	9 309	15 127"	10 928	16 936"	12 948	19 347"	15 544	22 689"	19 016	27 542"	23 935	23 651"	23 651"		15 082"	4.52	15 082"	4.52	
1 m	9 856"	12	7 825	12							9 862"	7 826	13 977"	9 076	15 518"	10 612	17 534	12 044"	15 012	23 539"	18 347	28 455"	23 141	23 676"	23 676"		13 525"	4.22	13 525"	4.22		
0 m	10 804"	11.81	7 922	11.81							14 097"	8 894	15 757"	10 361	17 816"	12 211	20 470"	14 613	23 994"	17 880	28 782"	22 656	26 075"	26 075"	15 846"	15 846"		13 035"	3.61	13 035"	3.61	
-1 m	12 064"	11.52	8 161	11.52							14 026"	8 775	15 795"	10 187	17 921"	11 986	20 584"	14 345	24 051"	17 593	28 599"	22 402	29 826"	29 826"	20 528"	20 528"		17 932"	3.02	17 932"	3.02	
-2 m	13 420"	11.14	8 574	11.14							13 679"	8 736	15 576"	10 096	17 743"	11 861	20 386"	14 202	23 711"	17 458	27 959"	22 325	33 379"	30 442	25 413"	25 413"	20 375"	20 375"	19 074"	2.54	20 900"	2.03
-3 m	13 655"	10.65	9 218	10.65							15 007"	10 103	17 221"	11 840	19 805"	14 178	22 953"	17 459	26 866"	22 394	31 751"	30 635	30 717"	30 717"	25 262"	23 714"	25.4	22 603"	2.03			
-4 m	13 844"	10.03	10 192	10.03							13 912"	10 233	16 246"	11 934	18 773"	14 273	21 722"	17 588	25 270"	22 597	29 599"	29 599"	34 915"	34 915"	30 454"	30 454"	28 584"	2.54	27 496"	2.18		
-5 m	13 927"	9.26	11 694	9.26							14 595"	12 175	17 142"	14 504	19 898"	17 854	23 063"	22 942	26 794"	26 794"	31 274"	31 274"	36 195"	36 195"	34 143"	2.59	34 143"	2.59				
-6 m	13 772"	8.3	13 772"	8.3							14 582"	14 582"	17 245"	17 245"	20 036"	20 036"	23 121"	23 121"	26 623"	26 623"							29 184"	3.36	29 184"	3.36		
-7 m	13 042"	7.06	13 042"	7.06							13 196"	13 196"	15 763"	15 763"	18 191"	18 191"											18 330"	4.94	18 330"	4.94		

SH800LHD-5				SHOE : 650 (mm)G BUCKET : SAE/PCSA 3.0 (m³)				ARM LENGTH = 4.44 (m) MAXIMUM REACH = 13.06 (m)				BOOM : 8.40 (m)																					
Bucket Hook Height	Radius of Load																																
	Max. Radius		14 m		13 m		12 m		11 m		10 m		9 m		8 m		7 m		6 m		5 m		4 m		3 m		Min. Radius						
																																	
10 m	4 512"	10.83	4 512"	10.83																								7 043"	10.28	7 043"	10.28		
9 m	4 372"	11.45	4 372"	11.45						6 652"	6 652"																		8 979"	10.26	8 979"	10.26	
8 m	4 300"	11.95	4 300"	11.95						6 583"	6 583"																		10 738"	10.04	10 738"	10.04	
7 m	4 285"	12.34	4 285"	12.34						6 363"	6 363"	10 087"	10 087"	11 486"	11 486"														11 700"	9.6	11 700"	9.6	
6 m	4 321"	12.65	4 321"	12.65						8 072"	8 072"	11 393"	10 641	12 000"	12 000"	12 788"	12 788"												12 927"	8.85	12 927"	8.85	
5 m	4 409"	12.86	4 409"	12.86						9 471"	8 703	11 812"	10 341	12 601"	12 351	13 625"	13 625"	14 971"	14 971"										15 763"	7.53	15 763"	7.53	
4 m	4 548"	13	4 548"	13						10 721"	8 475	12 273"	10 020	13 248"	11 914	14 515"	14 302	16 199"	16 199"	18 522"	18 522"	21 900"	21 900"	27 217"	27 217"	31 373"	31 373"		21 439"	3.73	21 439"	3.73	
3 m	4 745"	13.06	4 745"	13.06						5 243"	5 243"	11 829"	8 240	12 740"	9 697	13 897"	11 479	15 397"	13 717	17 401"	16 617	20 186"	20 186"	24 272"	24 272"	30 749"	30 749"	15 140"	15 140"	13 850"	3.93	13 850"	3.93
2 m	5 007"	13.04	5 007"	13.04						5 348"	5 348"	12 121"	8 016	13 177"	9 390	14 501"	11 070	16 810"	13 174	18 487"	15 891	21 641"	19 544	26 228"	24 749	29 275"	29 275"	12 283"	12 283"	10 578"	3.86	10 578"	3.86
1 m	5 347"	12.94	5 347"	12.94						12 353"	7 814	13 545"	9 114	15 016"	10 706	16 897"	12 699	19 382"	15 272	22 781"	18 740	27 623"	23 713	25 512"	25 512"	13 129"	13 129"		8 993"	3.49	8 993"	3.49	
0 m	5 787"	12.76	5 787"	12.76						12 484"	7 648	13 806"	8 882	15 401"	10 401	17 411"	12 308	20 030"	14 782	23 549"	18 135	28 433"	23 002	25 561"	25 561"	15 411"	15 411"	9 673"	9 673"	10 517"	2.76	10 517"	2.76
-1 m	6 357"	12.5	6 357"	12.5						11 899"	7 531	13 916"	8 706	15 614"	10 166	17 712"	12 012	20 395"	14 421	23 928"	17 718	28 703"	22 558	27 486"	27 486"	18 407"	18 407"	13 308"	13 308"	11 894"	2.54	12 985"	2.26
-2 m	7 106"	12.14	7 106"	12.14						8 956"	7 479	13 821"	8 595	15 610"	10 008	17 760"	11 811	20 451"	14 186	23 914"	17 464	28 482"	22 324	30 623"	30 345	21 906"	21 906"	16 939"	16 939"	15 039"	2.54	14 214"	1.86
-3 m	8 116"	11.69	7 804	11.69						13 439"	5 563	15 331"	9 934	17 511"	11 710	20 164"	14 069	23 498"	17 355	27 792"	22 258	33 442"	30 385	25 890"	25 890"	20 736"	20 736"	19 182"	2.54	17 648"	1.86		
-4 m	9 534"	11.14	8 486	11.14						11 832"	8 635	14 685"	9 956	16 897"	11 710	19 485"	14 067	22 646"	17 376	26 618"	22 338	31 737"	30 580	30 447"	30 447"	24 829"	24 829"	23 080"	2.54	21 247"	1.86		
-5 m	11 655"	10.45	9 488	10.45						13 487"	10 099	15 799"	11 824	18 324"	14 185	21 284"	17 525	24 893"	22 558	29 433"	29 433"	35 377"	35 377"	29 360"	29 360"	27 326"	27 326"	25 251"	2.54	21 154"	1.86		
-6 m	12 382"	9.61	11 007	9.61												13 971"	12 086	16 509"	14 440	19 274"	17 815	22 490"	22 490"	26 390"	26 390"	31 350"	31 350"	34 521"	34 521"	32 074"	2.54	21 153"	1.86
-7 m	12 072"	8.57	12 072"	8.57																													
																				</													

- 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

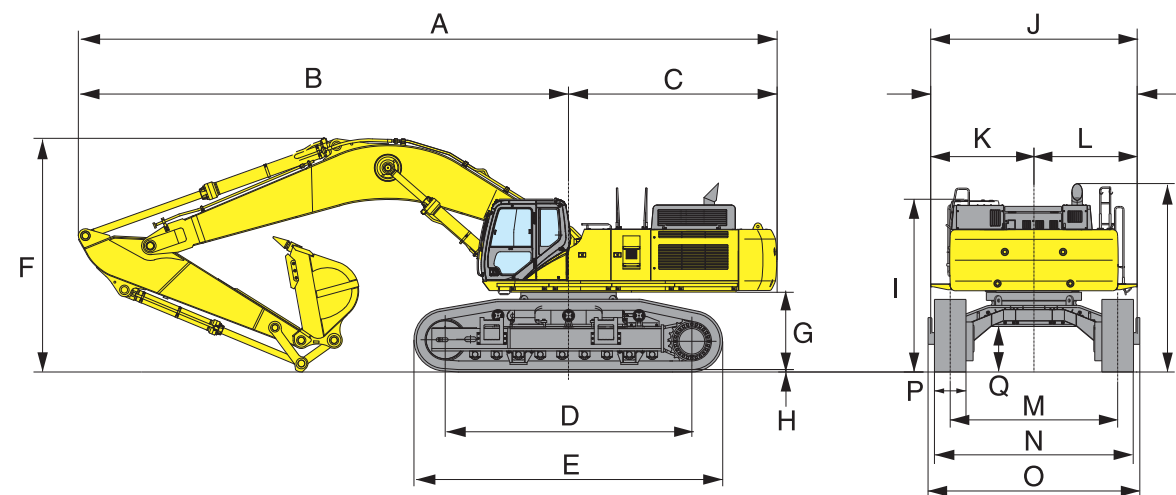


Load Radius
Over Side

Unit : kg

SH800LHD-5				SHOE : 650 (mm)G BUCKET : SAE/PCSA 2.4 (m³)				ARM LENGTH = 5.62 (m) MAXIMUM REACH = 14.29 (m)				BOOM : 8.40 (m)																				
Bucket Hook Height	Radius of Load																Min. Radius															
	Max. Radius		14 m		13 m		12 m		11 m		10 m		9 m		8 m			7 m		6 m		5 m		4 m		3 m						
																																
11 m	4 448"	11.52	4 448"	11.52																						5 179"	11.32	5 179"	11.32			
10 m	3 798"	12.29	3 798"	12.29																						6 410"	11.46	6 410"	11.46			
9 m	3 668"	12.84	3 668"	12.84																						7 411"	11.44	7 411"	11.44			
8 m	3 589"	13.28	3 589"	13.28																						8 316"	11.27	8 316"	11.27			
7 m	3 554"	13.64	3 554"	13.64																						9 256"	10.92	9 256"	10.92			
6 m	3 558"	13.91	3 558"	13.91																						10 284"	10.36	10 284"	10.36			
5 m	3 601"	14.11	3 601"	14.11	4 240"	4 240"	7 897"	7 570	9 848"	8 988	10 510"	10 510"	11 121"	11 121"												11 469"	9.52	11 469"	9.52			
4 m	3 682"	14.24	3 682"	14.24	5 020"	5 020"	8 656"	7 367	10 421"	8 710	11 055"	10 331	11 852"	11 852"	12 864"	12 864"										13 947"	8.16	13 947"	8.16			
3 m	3 805"	14.29	3 805"	14.29	5 496"	5 496"	9 373"	7 155	10 837"	8 424	11 621"	9 954	12 605"	11 839	13 868"	15 532"	15 532"	17 808"	17 808"	21 081"	21 081"	26 135"	26 135"		33 091"	4.16	33 091"	4.16				
2 m	3 972"	14.27	3 972"	14.27	5 663"	5 663"	10 013"	6 945	11 246"	8 143	12 174"	9 586	13 338"	11 358	14 837"	13 590	16 823"	16 491	19 556"	19 556"	23 512"	23 512"	29 630"	29 630"		21 477"	4.09	21 477"	4.09			
1 m	4 191"	14.18	4 191"	14.18	5 430"	5 430"	10 488"	6 749	11 617"	7 880	12 682"	9 242	14 010"	10 913	15 716"	13 011	17 972"	15 729	21 066"	19 402	25 508"	24 677	32 255"	32 255"	15 909"	15 909"		13 281"	3.75	13 281"	3.75	
0 m	4 473"	14.12	4 473"	14.12	4 604"	4 604"	10 648"	6 577	11 921"	7 646	13 111"	8 937	14 582"	10 520	16 456"	12 508	18 916"	15 083	22 257"	18 569	26 974"	23 600	27 776"	27 776"	15 727"	15 727"		9 404"	3.04	9 404"	3.04	
-1 m	4 831"	13.78	4 831"	13.78			10 268"	6 440	12 124"	7 451	13 427"	8 680	15 015"	10 192	17 016"	12 085	19 612"	14 569	23 087"	17 934	27 899"	22 832	27 063"	27 063"	17 074"	17 074"	11 456"	11 456"	9 769"	2.54	8 097"	1.86
-2 m	5 290"	13.46	5 290"	13.46			9 027"	6 350	12 166"	7 306	13 595"	8 481	15 276"	9 937	17 362"	11 779	20 030"	14 185	23 542"	17 483	28 312"	22 324	28 321"	28 321"	19 274"	19 274"	14 041"	14 041"	12 433"	2.54	10 784"	1.86
-3 m	5 882"	13.06	5 882"	13.06			6 434"	6 325	12 051"	7 220	13 569"	8 349	15 325"	9 761	17 460"	11 560	20 143"	13 927	23 616"	17 195	28 242"	22 029	30 858"	29 967	22 102"	22 102"	16 931"	16 931"	15 305"	2.54	13 583"	1.86
-4 m	6 665"	12.56	6 665"	12.56					11 623"	7 209	13 285"	8 290	15 112"	9 668	17 269"	11 439	19 923"	13 789	23 292"	17 054	27 696"	21 912	33 667"	29 923	25 513"	25 513"	20 148"	20 148"	18 429"	2.54	16 557"	1.86
-5 m	7 733"	11.96	7 733"	11.96							12 638"	8 322	14 560"	9 666	16 729"	11 419	19 320"	13 765	22 536"	17 046	26 659"	21 951	32 146"	30 060	29 582"	29 582"	23 767"	23 767"	21 878"	2.54	19 777"	1.86
-6 m	9 266"	11.23	9 234	11.23							11 399"	8 478	13 536"	9 772	15 739"	11 509	18 253"	13 859	21 277"	17 169	25 061"	22 137	29 994"	29 994"	34 500"	34 500"	27 914"	27 914"	25 761"	2.54	23 335"	1.86
-7 m	10 823"	10.36	9 549	10.36									11 739"	10 029	14 108"	11 730	16 573"	14 066	19 387"	17 433	22 782"	22 478	27 080"	27 080"	32 870"	32 870"	32 799"	32 798"	30 248"	2.54	27 354"	1.86
-8 m	10 565"	9.29	10 565"	9.29											11 387"	11 387"	13 982"	13 982"	16 625"	16 625"	19 602"	19 602"	23 182"	23 182"	27 793"	27 793"	34 407"	34 407"	36 715"	2.71	36 715"	2.71
-9 m	9 813"	7.95	9 813"	7.95																							18 485"	4.8	18 485"	4.8		

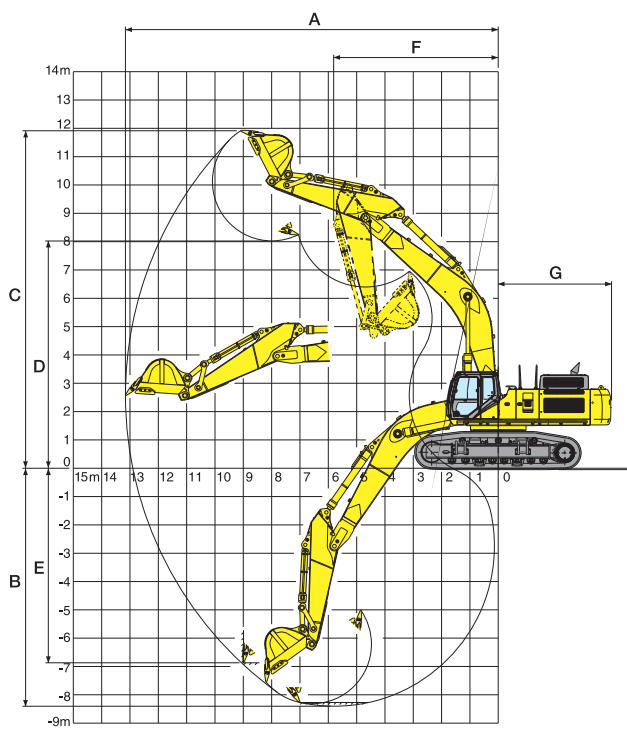
Dimensions



Model	SH700LHD-5				SH700LHD-5 Mass
Arm length	3.0 m	3.55 m	4.11 m	5.0 m	3.0 m
A Overall length	13 250 mm	13 290 mm	13 300 mm	13 170 mm	12 110 mm
B Length from center of machine (to arm top)	9 280 mm	9 320 mm	9 330 mm	9 200 mm	8 140 mm
C Upper structure rear end radius	4 000 mm				
D Center to center of wheels	4 700 mm				
E Overall track length	5 880 mm				
F Overall height	4 370 mm	4 300 mm	4 470 mm	5 160 mm	4 760 mm
G Clearance height under upper structure	1 510 mm				
H Shoe lug height	50 mm				
I Cab height	3 480 mm				
J Upper structure overall width with catwalk	3 990 mm				
K Width from center of machine (left side)	1 995 mm				
L Width from center of machine (right side)	1 995 mm				
M Track gauge (Retract)	3 250 mm (2 740 mm)				
N Overall width without lower step (Retract)	3 900 mm (3 390 mm)				
O Overall width with lower step (Retract)	4 140 mm (3 630 mm)				
P Std. Shoe width	650 mm				
Q Minimum ground clearance	825 mm				

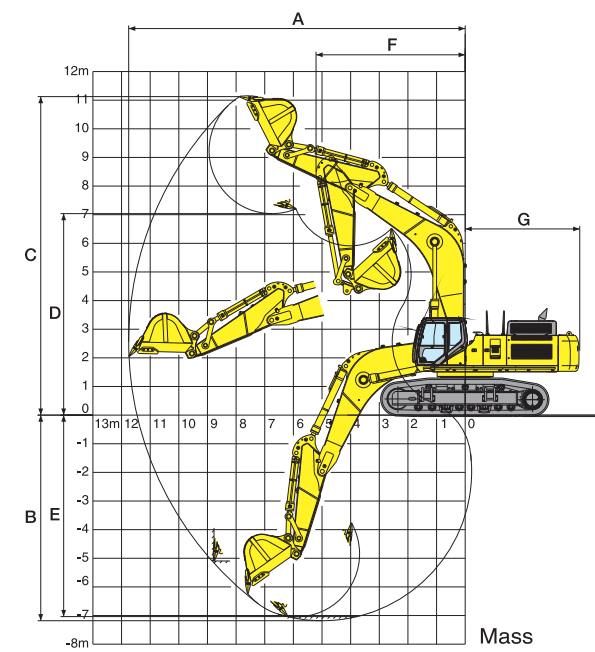
Model	SH800LHD-5			SH800LHD-5 Mass
Arm length	3.66 m	4.44 m	5.62 m	2.98 m
A Overall length	14 360 mm	14 320 mm	13 920 mm	13 230 mm
B Length from center of machine (to arm top)	10 080 mm	10 040 mm	9 640 mm	8 950 mm
C Upper structure rear end radius	4 300 mm			
D Center to center of wheels	5 070 mm			
E Overall track length	6 360 mm			
F Overall height	4 810 mm	5 000 mm	6 170 mm	5 000 mm
G Clearance height under upper structure	1 590 mm			
H Shoe lug height	50 mm			
I Cab height	3 570 mm			
J Upper structure overall width with catwalk	4 250 mm			
K Width from center of machine (left side)	2 125 mm			
L Width from center of machine (right side)	2 125 mm			
M Track gauge (Retract)	3 450 mm (2 830 mm)			
N Overall width without lower step (Retract)	4 100 mm (3 480 mm)			
O Overall width with lower step (Retract)	4 360 mm (3 740 mm)			
P Std. Shoe width	650 mm			
Q Minimum ground clearance	890 mm			

Working Range



Model	SH700LHD-5			
Arm length	3.0 m	3.55 m	4.11 m	5.0 m
Boom length	7.7 m			
A Max digging radius	12 870 mm	13 160 mm	13 650 mm	14 600 mm
B Max digging depth	7 870 mm	8 400 mm	8 970 mm	9 850 mm
C Max digging height	12 400 mm	11 920 mm	12 040 mm	12 700 mm
D Max dumping height	8 330 mm	8 020 mm	8 160 mm	8 710 mm
E Max vertical wall cut depth	6 850 mm	6 870 mm	7 360 mm	8 630 mm
F Min. front swing radius	5 860 mm	5 810 mm	5 680 mm	5 700 mm
G Rear end swing radius	4 000 mm			

Model	SH800LHD-5		
Arm length	3.66 m	4.44 m	5.62 m
Boom length	8.4 m		
A Max digging radius	14 120 mm	14 940 mm	16 110 mm
B Max digging depth	8 690 mm	9 470 mm	10 560 mm
C Max digging height	12 910 mm	13 600 mm	14 300 mm
D Max dumping height	8 920 mm	9 510 mm	10 170 mm
E Max vertical wall cut depth	6 440 mm	7 750 mm	9 110 mm
F Min. front swing radius	6 270 mm	6 130 mm	6 210 mm
G Rear end swing radius	4 300 mm		

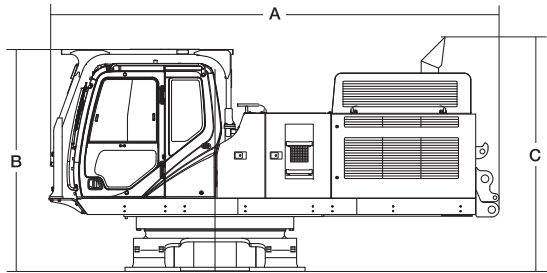


Model	SH700LHD-5 Mass
Arm length	3.0 m
Boom length	6.58 m
A Max digging radius	11 750 mm
B Max digging depth	7 180 mm
C Max digging height	11 130 mm
D Max dumping height	7 040 mm
E Max vertical wall cut depth	5 100 mm
F Min. front swing radius	5 210 mm
G Rear end swing radius	4 000 mm

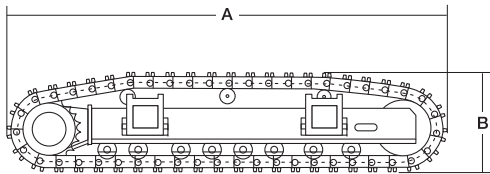
Model	SH800LHD-5 Mass
Arm length	2.98 m
Boom length	7.25 m
A Max digging radius	12 310 mm
B Max digging depth	7 030 mm
C Max digging height	11 760 mm
D Max dumping height	7 890 mm
E Max vertical wall cut depth	4 250 mm
F Min. front swing radius	5 390 mm
G Rear end swing radius	4 300 mm

Transportation

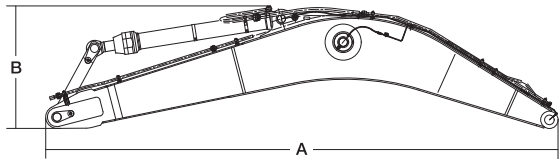
● Upperstructure



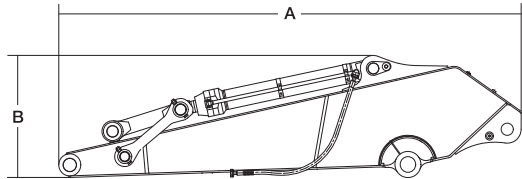
● Side lower frame



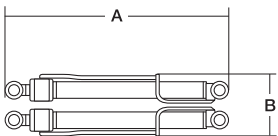
● Boom



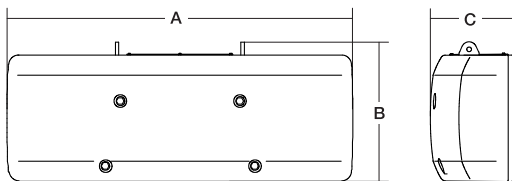
● Arm



● Cylinder



● Counter weight



Upperstructure

Model	SH700LHD-5	SH800LHD-5
Weight	22 800 kg	25 200 kg
A	5 600 mm	5 880 mm
B	2 770 mm	2 800 mm
C	2 920 mm	2 950 mm
Width	3 500 mm	3 530 mm

Side lower frame

Model	SH700LHD-5		SH800LHD-5	
Shoe	650 mm	750 mm	650 mm	750 mm
Weight	10 140 kg	10 450 kg	12 550 kg	12 930 kg
A	5 880 mm	5 880 mm	6 360 mm	6 360 mm
B	1 340 mm	1 340 mm	1 500 mm	1 500 mm
Width	910 mm	910 mm	1 010 mm	1 010 mm

Boom

Model	SH700LHD-5 (Mass)	SH800LHD-5 (Mass)
Boom length	7.7 m(6.58 mm)	8.4 m(7.25 mm)
Weight	6 600 kg(6 250 kg)	8 290 kg(7 850 kg)
A	8 030 mm(6 910 mm)	8 750 mm(7 580 mm)
B	2 010 mm(2 490 mm)	2 310 mm(2 580 mm)
Width	1 310 mm(1 310 mm)	1 490 mm(1 490 mm)

Arm

Model	SH700LHD-5 (Mass)	SH800LHD-5 (Mass)
Arm length	3.55 m(3.0 mm)	3.66 m(2.98 mm)
Weight	3 510 kg(3 550 kg)	4 170 kg(4 250 kg)
A	4 930 mm(4 270 mm)	5 190 mm(4 380 mm)
B	1 340 mm(1 400 mm)	1 390 mm(1 500 mm)
Width	870 mm(870 mm)	960 mm(960 mm)

Boom cylinder x 2

Model	SH700LHD-5	SH800LHD-5
Weight	1 400 kg	1 600 kg
A	2 760 mm	2 930 mm
B	850 mm	1 000 mm
Height	730 mm	670 mm

Counter weight

Model	SH700LHD-5	SH800LHD-5
Weight	10 500 kg	12 500 kg
A	3 390 mm	3 470 mm
B	1 390 mm	1 390 mm
C	764 mm	825 mm

Catwalk

Model	SH700LHD-5		SH800LHD-5	
Arm length	Cab side	Except cab side	Cab side	Except cab side
Weight	13 kg	24 kg x 4	13 kg	23 kg x 4
Length	930 mm	1 835 mm	1 060 mm	1 290 mm
Height	140 mm		140 mm	
Width	350 mm		400 mm	

Head guard (FOPS level 2)

Model	SH700LHD-5	SH800LHD-5
Weight	230 kg	230 kg
Length	2 310 mm	2 310 mm
Height	1 850 mm	1 850 mm
Width	1 030 mm	1 030 mm

Bucket

Model		SH700LHD-5				SH700LHD-5 Mass	Model		SH800LHD-5				SH800LHD-5 Mass
Bucket capacity (ISO/SAE/PCSA heaped)		2,0 m³	2,3 m³	2,9 m³	4,0 m³	4,0 m³	Bucket capacity (ISO/SAE/PCSA heaped)		2,4 m³	3,0 m³	3,3 m³	4,1 m³	4,1 m³
Bucket capacity (CECE heaped)		1.8 m³	2.0 m³	2.6 m³	3.5 m³	3.5 m³	Bucket capacity (CECE heaped)		2.2 m³	2.7 m³	2.9 m³	3.6 m³	3.6 m³
Bucket type		HD				HD	Bucket type		HD				HD
Number of teeth		5				5	Number of teeth		6				6
Width unit:mm	With side cutter	1 405	1 555	1 850	2 050	2 050	Width unit:mm	With side cutter	1 455	1 720	1 840	2 350	2 350
	Without side cutter	1 405	1 555	1 850	2 050	2 050		Without side cutter	1 390	1 650	1 770	2 280	2 280
Weight unit:kg		2 430	2 650	2 850	3 280	3 280	Weight unit:kg		2 550	2 860	2 960	3 420	3 420
Combination	3.00 m arm	●	●	●	△	◎	Combination	2.98 m arm	—	—	—	—	◎
	3.55 m arm	●	●	◎	△	—		3.66 m arm	●	●	◎	○	—
	4.11 m arm	●	◎	○	×	—		4.44 m arm	●	◎	○	△	—
	5.00 m arm	◎	○	△	×	—		5.62 m arm	◎	△	△	×	—

◎ Standard bucket (Suitable for materials with density up to 1,800 kg/m³ or less)
● Suitable for materials with density up to 2,000 kg/m³ or less
○ Suitable for materials with density up to 1,600 kg/m³ or less
△ Suitable for materials with density up to 1,200 kg/m³ or less

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Standard equipment

[Hydraulic system]

- SIH:S hydraulic system
- Selectable operation mode (SP mode, H mode, and A mode)
- Auto/one-touch idling
- Automatic 2-speed traveling
- Automatic power boost
- Arm/boom natural lowering prevention valve
- Arm/boom reactivation circuit
- Swing brake system
- Swing ABS
- Auxiliary valve
- Hydraulic drive cooling fan
- High-performance return filter

[Safety equipment]

- Rearview mirror (left/right)
- Emergency exit
- Seat belt
- Gate lock lever
- Traveling alarm
- Anti-theft alarm system
- Engine room fire wall
- Fan guard
- Engine emergency stop switch
- Megavolume horn

[Cab/interior equipment]

- Tilting console mechanism
- Automatic air conditioner
- Defroster
- Hot & cool box
- KAB operator's seat
- Seat suspension
- Rise-up wiper (with intermittent operation function)
- Cup holder
- AM/FM radio
- Clock
- Magazine rack
- Accessory case
- Floor mat
- Armrest & headrest
- Ashtray & cigar lighter
- Room light
- Coat hook
- Short lever

[Others]

- EMS
- Long-life hydraulic oil
- Track guard-Double track guard
- Five lights (on the main unit, atop the cab, and at right/left of arm)
- Two fuel filters (with water separator)
- Fuel prefilter (with water separator)
- Double-element air cleaner
- Pre-cleaner
- Large tool box
- A set of tools

Accessories (option)

- 12V power (DC-DC converter)
- Full track guard
- Rain reflector
- Re fuel pump
- Hose burst check valve for arm/boom cylinder
- Polycarbonate with sunshade roof top window
- Front guard
- Lower window guard
- Head guard (FOPS level 2)
- Air suspension (KAB seat)