SUMITOMO

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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

SH145X-6



Performance Refined. Evolution Defined.

SUMITOMO

Engine and Hydraulics 04-07

- ·New Generation Engine System "SPACE 5+"
- ·New Hydraulic System "SIH:S+"
- ·SUMITOMO Fuel Efficiency Technology
- ·Drastically Increased Productivity

Durability and Maintenance 08-09

- ·High Rigidity Attachments
- ·EMS
- Ground Level Maintenance

Safety and Operator Comfort 10-13

- ·Stylish and Spacious Cabin
- ·High-Definition Full Colour LCD Monitor
- ·FVM® (Field View Monitor) (option)

Specifications 14-19

ENGINEERED IN JAPAN

The world knows that Japanese designed and engineered products represent the highest quality, especially for Industrial Products. The hydraulic excavator is no exception when a totally integrated concept is required in design work involving key components, manufacturing engineering, and product quality assurance in the factory.

SUMITOMO hydraulic excavators are designed and manufactured today to meet the global demands of our many customers with the concept of Performance, Reliability, and Fuel Efficiency foremost in our minds. This proven Japanese technology and quality gives SUMITOMO excavator customers total peace of mind and provide a complete solution for the demands of the construction industry.





New Generation Engine System "SPACE 5+"

The new engine system optimises fuel efficiency and environmental performance via the advanced common rail fuel injection system, cooled EGR system, and turbocharger.

At the same time, excellent response times are achieved.

Engine and Hydraulics



SH145X-6 has achieved a 16% fuel saving

in comparison with our DASH 3B series, by fusing the new generation engine system "SPACE 5+" and the new hydraulic system "SIH:S+", further refining fuel efficiency. At the same time the newly developed ISUZU engine, contributes greatly to the environment.

Mode Selection by Throttle SUMITOMO UNIQUE DESIGN



There are three new working modes available: SP (Super Power) for heavy duty applications, H (Heavy) for normal working conditions, and A (Auto) for a wide range of operations.



Further Improvements to Fuel Consumption

Optimal control for economic operation has reduced fuel consumption by 16% in H mode.



*Fuel consumption may vary from time to time depending on site and working conditions

ECO Gauge to Display Energy Efficiency Operation

An ECO Gauge and fuel consumption indicator are included within the monitor to make energy efficiency recognisable in an instant.





SUMITOMO Technology for Fuel Efficiency

SSC (Spool Stroke Control) SUMITOMO UNIQUE DESIGN

Reduces engine load upon heavy duty operation.

●PTR (Pump Transition Reduction) SUMITOMO UNIQUE DESIGN

Decreases engine load when the pump flow requirement is reduced upon abrupt pump load.

BES (Boom-down Energy Save) SUMITOMO UNIQUE DESIGN

Lowers engine speed upon boom-down and swing operation which does not require large oil flow.

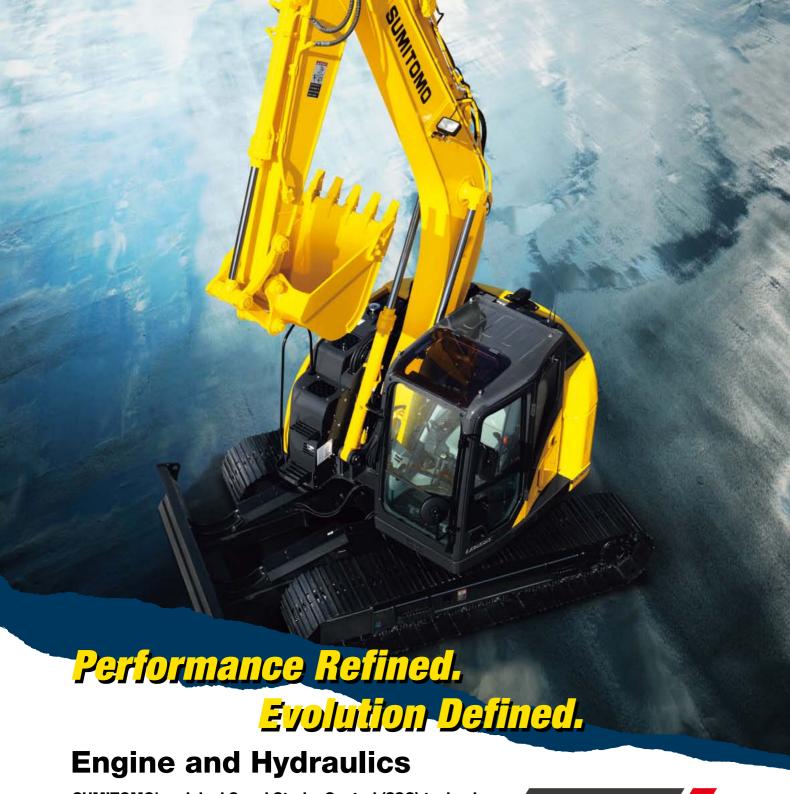
● AES (Auto Energy Save) SUMITOMO UNIQUE DESIGN

Lowers engine speed accordingly when low engine load is sensed.

Idle Shut Down & Auto Idle

Upon activation, idle shut down automatically shuts the engine down when the machine is not in operation for set amount of time. Auto Idle is also available, which makes the engine begin idling approximately five seconds after the operation levers are in neutral

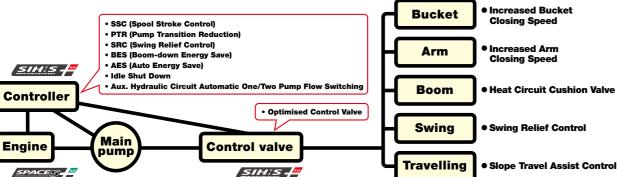


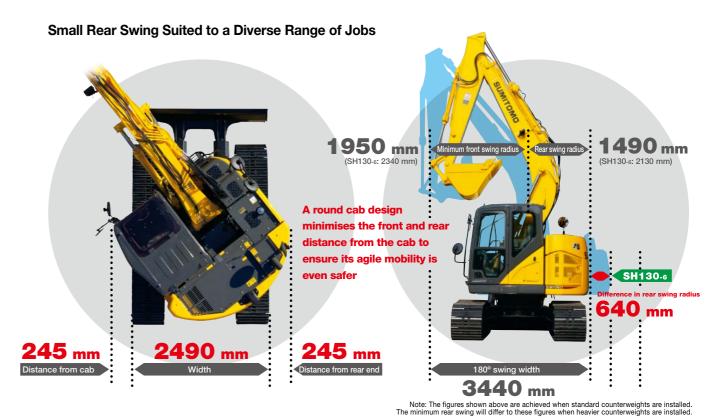


SUMITOMO's original Spool Stroke Control (SSC) technology

perfectly matches the engine and hydraulic power, and further improves the operational speed whilst

maintaining smooth control of the machine.





Work Efficiency Drastically Increased Willows Design

Spool Stroke Control (SSC) variably controls spool port flow rate, depending on the condition of operation. Improved power, speed, and smoother controls mean that work efficiency is dramatically increased.

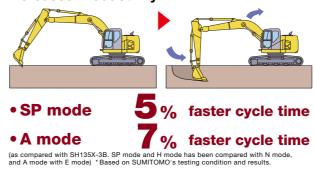
Shorter Cycle Time and Operability

A speed increase of 5% for cycle time (SP mode) has been achieved, compared with the SH135X-3B (N mode). Control also focuses on operability when delicate operations are required, ensuring both productivity and operability.

Horsepower Control and Increased **Automatic Digging Power**

The volume of the main pump has been increased by 10% for faster work speed and more flexibility with complex operations. Pump horsepower increases during heavy-duty digging, delivering sufficient power for stress-free operations.

Speed and Power, Dramatically Increases Productivity



Remarkable Combined Operation

Prevents rapid deceleration upon combined operation such as attachment operation when travelling, ensuring stable performance.

Auxiliary Hydraulic Circuit

Selection of auxiliary circuit has been made easier. Correct pump flow (one pump or two pump) will automatically be activated upon operator's selection of the circuit.

Automatic Power Boost

The digging power increases automatically in quick response to the working conditions during heavy-duty digging work. This is a design unique to SUMITOMO, and continues for eight seconds (SP/H mode).

Operating Condition Easily Viewable on Display

Various control such as working modes and auxiliary hydraulic setting can be easily selected by the universally designed switch panel, and the selected mode can be easily viewed on the 7" wide monitor.



Durability and Maintenance

Serviceability and durability are also important points of machine performance. Ground level access to the engine area makes daily maintenance extremely straightforward.

Reliability has been further enhanced by increasing cooling capability and durability.

EMS (Easy Maintenance System) as Standard

SUMITOMO's 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 lubrication interval around the bucket is 250 hours, and for the other sections is 1,000 hours, keeping the joints lubricated for a long time and extending the service life of parts by reducing abrasion and rattling.

- Sections equipped with sintered EMS bushing
- ➡ Sections equipped with EMS bushing

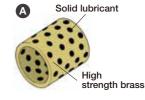


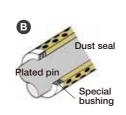
 Greasing interval for other sections: 1,000 hours



■ EMS bushing







A solid lubricant embedded in high strength brass forms a B The surface of the pin is plated to increase the surface hardness and improve the wear

■ Sintered EMS bushing



Iron sintered EMS is installed around the bucket

Precautionary use of EMS

abrasion of joints.

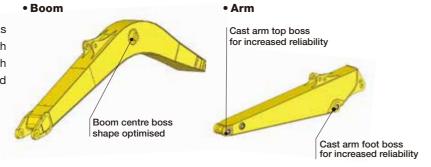
- ① Grease is enclosed, however greasing is necessary every 1000 hours or six months depending on the level of dusting conditions.
- ② Greasing is also necessary after any components have been submerged underwater for prolonged periods.
- 3 Greasing is also recommended after use with hydraulic breakers, crushers or other high impact attachments such as Rock Saws etc.
- 4 Bucket pins should be cleaned thoroughly when removing or attaching new buckets.

High Rigidity Attachments

The structure of the boom and arm has been further improved, ensuring strength and durability. In addition, high strength castings are used for the boom base and arm end, improving reliability.

layer on the bushing surface to prevent contact between

metals, maintaining an excellent lubricated state to reduce



Ground Level Access to Engine Area Improves Preventative Maintenance

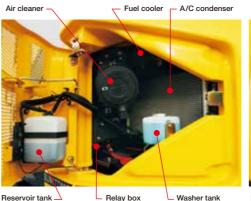
Parts cleaning and maintenance are possible from the ground without climbing onto the upper structure of the excavator body.

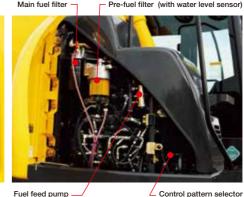
Increased Cooling Capability

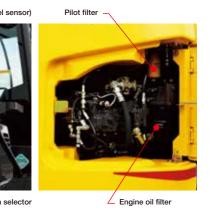
With the larger radiator and oil cooler, cooling capacity is increased, thus improving reliability. In addition, cleaning of the dust-proof net is simplified.

Easy Filter Replacement

A fuel prefilter and main fuel filter are provided as standard equipment to reduce trouble. In addition, the fuel and oil filters are installed at ground-accessible location to facilitate replacement.







High-Performance Return Filter

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



• Hydraulic oil change: **5,000** hours

• Life of filter:

2,000 hours

* The oil and filter change interval varies depending on the working cor

Cab Floor Mat SUMITOMO

The washable floor mat has been redesigned for ease of removing and cleaning.



Easy Access to A/C Filter

valve (option)

The air intake filter is located in lockable compartment to make i easier to replace, and access to the inside cab filter has been simplified.



Fuse Box Location

The fuse box has been located in a separate compartment behind the seat, allowing easier access.



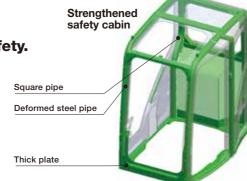


Safety and Operator Comfort

A new strengthened safety cabin has been provided. The reinforced cabin greatly increases operator's safety.

Newly Designed Safety Cabin

The optimised design and strengthened parts increase the overall cabin strength.



Wide View Increases Safety of Work

In addition to the wide front view, the upper view has been widened to enhance work safety.

Rearview Camera (option)

With the rearview camera, the operator can view the image on the large LCD monitor. A side camera is available as an option and up to two different images can be displayed on the monitor.







Safe and Easy Entry into and Exit from the Cab

A large handrail for easy opening/closing of the door and increased floor space permit the operator to get in and out of the cab easily.



Easy Access to the Upper Structure





Rearview Mirror

The rearview mirrors reduce blind spots during operation. ISO compliant mirrors also available as option.





Safety Equipment





FVM for Greater Worksite Safety (option) SUMITOMO UNIQUE DESIGN

As an additional option, the monitor can be upgraded to Sumitomo's proprietary FVM (Field View Monitor), which provides a clear, top-down view of the excavator around to 230° during

the day and at night. This makes it so much easier for the operator to monitor the area nearby, enhancing overall safety on worksites. Different camera views can also be toggled on a single monitor.









Easy Switching

A single button is used to toggle the image through the top-down view and individual cameras (right side, rear). Safety checks can be made using the desired or appropriate view.



Safety and **Operator Comfort**

The spacious cab on fluid mounts and reclining suspension seat help reduce operator fatigue and provide a relaxed environment.

Comfort Cabin to seat: +45 mm Foot space: +35 mm (as compared with SH135X-3B)

Large High-Definition LCD Monitor

A new large high-definition full-colour LCD monitor has been introduced with better visibility and a switch panel which is easy to operate. Added functionality such as ECO gauge showing parameter of energy saving, display of operation status and warning messages, provides accurate information which improves work efficiency and safety.



Indicators

- 1 Working modes 2 Travel speed
- 3 Work lights 4 Engine idle modes
- 5 Anti-theft 6 Attachment selection
- 7 Digital clock 8 ECO gauge

Switch Panel

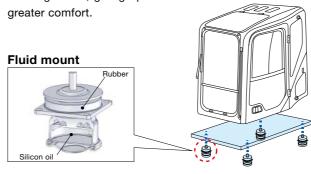
- Travel speed button
- O Computer menu Camera on/off

- 9 Fuel level gauge
- 10 Engine coolant temperature
- Fuel consumption indicator 12 Hydraulic oil temperature
- 13 Power boost 14 Radio mute
- 15 Hour meter

- B Fuel consumption button O Aux. hydraulics settings
- B Hour meter / Camera toggle button
- Window washer control Engine idle mode button
- Worklights on/off
- Window wiper control

Super Comfortable Cab Mounts and Pressurised Cab

Fluid mounts that support the cab absorb shocks and vibrations effectively, improving ride comfort. The cab also features a pressurised design to prevent dust from entering inside, giving operators



Ample Legroom and Comfortable Seats

Legroom around the cab has been increased for comfortable operations. The operator seat features a head rest and arm rests, and comes with a wide range of seat adjustment functions with a comfortable suspension system.





Automatic Air Conditioner

An automatic air conditioner is included to keep the cab interior at the ideal temperature. The sealed, pressurised cab helps to increase air conditioner efficiency.



Radio and Speaker with USB Port and MP3 Jack

In addition to the AM/FM radio and dual speaker system with improved sound quality, auxiliary audio port is provided standard for devices such as MP3 players.



Roof Window for Greater Freedom

A new pop-up roof window (made of polycarbonate) with sun shade has been installed for greater comfort.



Under-cab Storage Space

Storage space has been included under the cab for various tools.



Comfortable Equipment





Magazine rack

Specifications

SH145X-6 Technical Data

Electronic-controlled engine of SPACE 5+ and SIH:S+ with New Hydraulic System Includes: three working modes (SP, H and A), one-touch/automatic idling system, automatic power-boost.

Engine

go					
SH145X-6					
Model	ISUZU GJ-4JJ1X				
Туре	Water-cooled, 4-cycle diesel, 4-cylinder in line, high pressure common rail system (electric control), turbocharger with air-cooled intercooler.				
Rated output	70.9 kW (96.4 PS) at 2,000 min ⁻¹ (rpm)				
Maximum torque	340 N-m at 1,600 min ⁻¹ (rpm)				
Piston displacement	2.999 ltr				
Bore and stroke	95.4 mm x 104.9 mm				
Starting system	24 V electric motor starting				
Alternator	24 V, 50 A				
Fuel tank	200 ltr				
Air filter	Double element				

Hydraulic pumps

Two variable displacement axial piston pumps provide power for boom/arm/bucket, swing, and travel. One gear pump for pilot controls.

	SH145X-6
Maximum oil flow	2 x 129 ltr/min
Pilot pump max.oil flow	20 ltr/min

Hydraulic motors

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

Working circuit pressure

Boom/arm/bucket34.3 MPa (350 kgf/cm²)
Boom/arm/bucket36.3 MPa (370 kgf/cm²) with auto power-up
Swing circuit28.0 MPa (286 kgf/cm²)
Travel circuit34.3 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 One 1-spool valve for blade

Oil filtration

Return filter ·····	6 microns
Pilot filter · · · · · · · · · · · · · · · · · · ·	8 microns
Suction filter	105 microns

Hydraulic cylinders

•	•	
Cylinder	Q'ty	Bore x Rod Diameter x Stroke
Boom	2	105 mm x 75 mm x 1,120 mm
Arm	1	115 mm x 80 mm x 1,108 mm
Bucket	1	95 mm x 65 mm x 881 mm
Blade	2	115 mm x 70 mm x 250 mm

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

Cab & controls

The cabin is mounted on four fluid mountings. Features include safety glass front, rear and side windows, adjustable 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. Built-in type full-colour monitor display. Membrane switch on monitor display.

Swing

Planetary reduction powered by axial piston motor. The 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.

SH145X-6				
Swing speed	0~11.2 min ⁻¹ (rpm)			
Tail swing radius	1,490 mm			
Swing torque	37.0 kN·m (3,773 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 tin bronze casting, 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 with each side frame; adjustment yoke mechanism fitted with heavy duty recoil spring.

Number of rollers and shoes on each side

	SH145X-6
Upper rollers	1
Lower rollers	7
Track shoes	43

Travel system

Two-speed independent hydrostatic system with compact axial motors for increased performance. Hydraulic motor powered 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 the switch panel on the monitor display. Hydraulically released disc parking brake is built into each motor.

			SH145X-6	
Traval o	nood	High	5.6 km/h	
Travel speed	peeu	Low	3.4 km/h	
Drawba	r pull		116 kN (11,829 kgf)	

Lubricant & coolant capacity

	SH145X-6
Hydraulic system	158 ltr
Hydraulic oil tank	75 ltr
Fuel tank	200 ltr
Cooling system	15.3 ltr
Final drive case (per side)	2.1 ltr
Swing drive case	3.0 ltr
Engine crank case	17.0 ltr

Auxiliary hydraulic system

SH145X-6						
Auxiliary piping type (option)	For Breaker	For Double (breaker & crusher) acting	For D/A + Second option line			
Arm type	STD	HD	HD			
Bucket linkage type	HD	HD	HD			
Auxiliary hydraulic pump flow	129 ltr/min	258 ltr/min	258+63 ltr/min			

Bucket

Options and specifications may differ depending on countries and regions

					Op	tionio ana opooi	noadono maj	amor acportar		oo an a rogionio
Model						SH145X-6				
Bucket capacity (ISO/SAE/PCSA heaped)		0.24 M3	0.30 M3	0.37 M3	0.45	5 M3	0.50) M3	0.55 M3	0.65 M3
Bucket type		STD	STD	STD	STD	Reinforced	STD	Reinforced	STD	STD
Number of teeth		4	4	4		4		5	5	5
Width unit: mm	With side cutter	582	692	772	9	07	9	72	1,057	1,192
Width unit. min	Without side cutter	508	618	698	8	33	8	98	983	1,118
Weight unit: kg		285	322	340	368	404	395	441	411	445
	2.11 m arm	0	0	0	()	(0		0
Combination	2.50 m arm	0	0	0	(0			0	Δ
	3.01 m arm	0	0		(\triangle	×	×	×

© Suitable for materials with density up to 2,000 kg/m³ or less

Suitable for materials with density up to 1,800 kg/m³ or less

O Suitable for materials with density up to 1,600 kg/m³ or less

 \triangle Suitable for materials with density up to 1,400 kg/m³ or less

X Not available

Weight & Ground Pressure

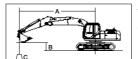
Model	SH145X-6				
Shoe type	Shoe width	Overall width	Operating weight	Ground pressure	
	500 mm	2,490 mm	14,500 kg	47 kPa	
Triple grouser shoe	600 mm	2,590 mm	14,700 kg	40 kPa	
	700 mm	2,690 mm	15,000 kg	35 kPa	

Digging Force

2.999 . 0.00						
Model		SH145X-6				
Arm length		2.11 m 2.50 m 3.01 m				
Bucket digging force	ISO 6015	90 kN (95 kN)	90kN (95 kN)	90 kN (95 kN)		
(with power boost)	SAE: PCSA	80 kN (85 kN)	80 kN (85 kN)	80 kN (85 kN)		
Arm digging force	ISO 6015	70 kN (74 kN)	62 kN (66 kN)	56 kN (60 kN)		
(with power boost)	SAE: PCSA	68 kN (72 kN)	60 kN (64 kN)	55 kN (58 kN)		

Lifting Capacity

- Notes: 1. Ratings are based on ISO 10567
 2. Lifting capacity does not exceed 75% of tipping load with the machine on firm, level ground or 87% full hydraulic capacity.
 3. The load point is a hook (not standard equipment) located on the back of the bucket.
 4. *Indicates load limited by hydraulic capacity.
 5. 0 m = Ground.



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

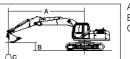


Unit: kg

Lifting Capacity

Notes: 1. Ratings are based on ISO 10567

- I. hattings are based of 180 (1804).
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 The load point is a hook (not standard equipment) located on the back of the bucket.
 *Indicates load limited by hydraulic capacity.
 0 m = Ground.



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



Unit : kg

SH1	SH145X-6				: 500 (mm (ET : SAE/PCS			TH : 2.11 (m) REACH : 7.94		BOOM : 4.63 (m) BLADE : Up									
5									Radius	of Load									
Bucket Hook		Max.	Radius	7.5 m		i m	6 m		4.5 m		3 m		1.5 m		Min. Rac		Radius	dius	
Height	п				Ů		Ů		Ů		Ů		ů		ľ.	j	Ģ		
	(kg)	(m)	(kg)	(m)											(kg)	(m)	(kg)	(m)	
7.5 m	1 610*	4.63	1 610*	4.63					1 990*	1 990*					1 670*	3.01	1 670*	3.01	
6 m	1 340*	6.26	1 340*	6.26			2 190*	2 190*	3 210*	3 210*					3 530*	3.30	3 530*	3.30	
4.5 m	1 260*	7.14	1 260*	7.14			2 930	2 180	4 400*	3 570	4 600*	4 600*			2 450*	2.46	2 450*	2.46	
3 m	1 260*	7.57	1 260*	7.57	1 630*	1 380	2 830	2 080	4 590	3 350	8 060*	6 550			6 540*	1.94	6 540*	1.94	
1.5 m	1 330*	7.65	1 290	7.65	1 870	1 350	2 710	1 970	4 330	3 110	8 720	5 820			3 900°	2.46	3 900*	2.46	
0 m	1 490*	7.41	1 340	7.41			2 620	1 890	4 130	2 940	7 630*	5 480			3 050*	1.87	3 050*	1.87	
-1.5 m	1 810*	6.82	1 540	6.82			2 600	1 870	4 080	2 890	8 360	5 540	5 600*	5 600*	3 970*	0.63	3 970*	0.63	
-3 m	2 520*	5.80	2 010	5.80					4 140*	2 970	7 200*	5 660	8 330*	8 330*	7 030*	0.89	7 030*	0.89	
-4.5 m	2 280*	3.79	2 280*	3.79							3 100*	3 100*			3 170*	2.90	3 170*	2.90	

SH1	SH145X-6				E : 500 (mm KET : SAE/PCS			TH : 2.11 (m) REACH : 7.94		BOOM : 4.63 (m) BLADE : Down								
									Radius	of Load								
Bucket Hook	- 1	Max. I	Radius		7.5	i m	6 m		4.5	4.5 m		3 m		5 m		Min. I	Radius	
Height	П				ů		Ů		Ů		Ů	h 🖶			Ů		Ģ	H
	(kg)	(m)	(kg)	(m)											(kg)	(m)	(kg)	(m)
7.5 m	1 610*	4.63	1 610*	4.63					1 990*	1 990*					1 670*	3.01	1 670*	3.01
6 m	1 340*	6.26	1 340*	6.26			2 190*	2 190*	3 210*	3 210*					3 530*	3.30	3 530*	3.30
4.5 m	1 260*	7.14	1 260*	7.14			3 340*	2 300	4 400*	3 760	4 600*	4 600*			2 450*	2.46	2 450*	2.46
3 m	1 260*	7.57	1 260*	7.57	1 630*	1 470	4 400*	2 210	5 570*	3 550	8 060*	6 980			6 540*	1.94	6 540*	1.94
1.5 m	1 330*	7.65	1 330*	7.65	2 180*	1 440	4 810*	2 100	6 520*	3 310	10 020*	6 240			3 900*	2.46	3 900*	2.46
0 m	1 490*	7.41	1 440	7.41			4 860*	2 010	6 740*	3 130	7 630*	5 880*			3 050*	1.87	3 050*	1.87
-1.5 m	1 810*	6.82	1 640	6.82			4 460*	1 990	6 360*	3 080	9 380*	5 950	5 600*	5 600*	3 970*	0.63	3 970*	0.63
-3 m	2 520*	5.80	2 140	5.80					5 000*	3 160	7 200*	6 040	8 330*	8 330*	7 030*	0.89	7 030*	0.89
-4.5 m	2 280*	3.79	2 280*	3.79							3 100*	3 100*			3 170*	2.90	3 170*	2.90

SH1	SH145X-6				: 500 (mm (ET : SAE/PC			TH : 2.50 (m) REACH : 8.29		BOOM : 4.63 (m) BLADE : Up								
Bucket	1	Max. I	Radius	7.5 m			6 m			Radius of Load 4.5 m		m	1.5 m			Min. F	Radius	
Hook Height					Ь		Ů		Ů	j 🖶			ტ 🚓		Ů			
	(kg)	(m)	(kg)	(m)											(kg)	(m)	(kg)	(m)
7.5 m	1 310*	5.24	1 310*	5.24					2 380*	2 380*					1 850*	3.43	1 850*	3.43
6 m	1 120*	6.70	1 120*	6.70			2 340*	2 280	2 980*	2 980*					3 260*	3.68	3 260*	3.68
4.5 m	1 060*	7.52	1 060*	7.52	1 120*	1 120*	2 960*	2 240	3 720*	3 590*					3 690*	3.18	3 690*	3.18
3 m	1 060*	7.92	1 060*	7.92	1 960	1 440	2 890	2 150	4 680	3 450	7 290*	6 660			6 850*	1.53	6 850*	1.53
1.5 m	1 130*	8.00	1 130*	8.00	1 910	1 390	2 770	2 030	4 420	3 200	8 970	6 030			3 630*	2.15	3 630*	2.15
0 m	1 260*	7.77	1 260*	7.77	1 870	1 350	2 660	1 930	4 200	3 000	8 350	5 600	2 780*	2 780*	2 640*	1.43	2 640*	1.43
-1.5 m	1 520*	7.22	1 430	7.22			2 620	1 890	4 110	2 920	8 330	5 560	5 180*	5 180*	3 600*	0.24	3 600*	0.24
-3 m	2 080*	6.26	1 800	6.26			2 670	1 950	4 150	2 970	8 040*	5 660	8 120*	8 120*	5 810*	0.46	5 810*	0.46
-4.5 m	2 240*	4.69	2 240*	4.69					2 700*	2 700*	4 560*	4 560*			5 810*	1.77	5 810*	1.77

SH145X-6 SHOE : 500 (mm)G BUCKET: SAE/PCSA 0.5 (m³)								TH : 2.50 (m) REACH : 8.29		BOOM : 4.63 (m) BLADE : Down										
									Radius	of Load										
Bucket Hook		Max. I	Radius		7.5 m		6 m		4.5 m		3 m		1.5 m		Min. F		Radius			
Height	Ů				Ů	#	Ů		ů	ტ 鋛			Ů		r ^l	h (H		
	(kg)	(m)	(kg)	(m)											(kg)	(m)	(kg)	(m)		
7.5 m	1 310*	5.24	1 310*	5.24					2 380*	2 380*					1 850*	3.43	1 850*	3.43		
6 m	1 120*	6.70	1 120*	6.70			2 340*	2 340*	2 980*	2 980*					3 260*	3.68	3 260*	3.68		
4.5 m	1 060*	7.52	1 060*	7.52	1 120*	1 120*	2 960*	2 370	3 720*	3 720*					3 690*	3.18	3 690*	3.18		
3 m	1 060*	7.92	1 060*	7.92	2 330*	1 530	3 890*	2 270	5 300*	3 650	7 290*	7 070			6 850*	1.53	6 850*	1.53		
1.5 m	1 130*	8.00	1 130*	8.00	2 790*	1 480	4 770*	2 150	6 370*	3 400	9 850*	6 450			3 630*	2.15	3 630*	2.15		
0 m	1 260*	7.77	1 260*	7.77	2 500*	1 440	4 910*	2 060	6 790*	3 200	8 350*	6 010	2 780*	2 780*	2 640*	1.43	2 640*	1.43		
-1.5 m	1 520*	7.22	1 520*	7.22			4 680*	2 010	6 570*	3 110	9 630*	5 970	5 180*	5 180*	3 600*	0.24	3 600*	0.24		
-3 m	2 080*	6.26	1 920	6.26			3 550*	2 070	5 510*	3 160	8 040*	6 060	8 120*	8 120*	5 810*	0.46	5 810*	0.46		
-4.5 m	2 240*	4.69	2 240*	4.69					2 700*	2 700*	4 560*	4 560*			5 810*	1.77	5 810*	1.77		

SH1	45	X-(6	SHOE		nm)G PCSA 0.37 (r		ARM LENGTH : 3.01 (m) MAXIMUM REACH : 8.74 (m)			BOOM : 4.63 (m) BLADE : Up													
										Radius	of Load													
Bucket Hook		Max. I	Radius		7.5	i m	6	6 m		4.5 m		3 m		1.5 m		0 m		Min. F		Radius				
Height	п				Ů		Ů		Ь		ů		ტ ಈ		Ů	-	Ů			-				
	(kg)	(m)	(kg)	(m)													(kg)	(m)	(kg)	(m)				
7.5 m	1 290*	5.96	1 290*	5.96					2 350*	2 350*							2 080*	3.95	2 080*	3.95				
6 m	1 130*	7.25	1 130*	7.25			2 300*	2 300*	2 770*	2 770*							2 810*	4.18	2 810*	4.18				
4.5 m	1 080*	8.00	1 080*	8.00	2 000*	1 520	2 740*	2 300	3 100*	3 100*							3 000*	3.76	3 000*	3.76				
3 m	1 090*	8.38	1 090*	8.38	2 000	1 470	2 950	2 190	4 270*	3 530	4 650*	4 650*					4 620*	2.04	4 620*	2.04				
1.5 m	1 150*	8.46	1 120	8.46	1 930	1 400	2 800	2 060	4 490	3 260	8 980*	6 220					3 800*	2.08	3 800*	2.08				
0 m	1 280*	8.24	1 140	8.24	1 870	1 350	2 670	1 940	4 220	3 020	8 490	5 630	2 850*	2 850*			2 570*	1.32	2 570*	1.32				
-1.5 m	1 510*	7.72	1 260	7.72	1 850	1 320	2 600	1 870	4 080	2 890	8 240	5 470	4 730*	4 730*	3 900*	3 900*	3 900*	0	3 900*	0				
-3 m	1 980*	6.84	1 550	6.84			2 620	1 890	4 090	2 910	8 300	5 530	6 950*	6 950*	5 170*	5 170*	5 170*	0	5 170*	0				
-4.5 m	2 460*	5.42	2 260	5.42					3 980*	3 000	5 980*	5 600	9 290*	9 290*			8 250*	0.91	8 250*	0.91				

SH1	SH145X-6 SHOE : 500 (mm)G BUCKET : SAE/PCSA 0.37 (m ²							M LENGTH : XIMUM REA			BOOM : 4.63 (m) BLADE : Down										
										Radius	of Load										
Bucket Hook	1	Max. I	Radius		7.5 m		6 m		4.5 m		3 m		1.5 m		0 m		Min. R		Radius	ładius	
Height	Ů				Ů		ů		Ů		ů		Ů		Ů		r ^l	j	Ģ	1-0	
	(kg)	(m)	(kg)	(m)													(kg)	(m)	(kg)	(m)	
7.5 m	1 290*	5.96	1 290°	5.96					2 350*	2 350*							2 080*	3.95	2 080*	3.95	
6 m	1 130*	7.25	1 130*	7.25			2 300*	2 300*	2 770*	2 770*							2 810*	4.18	2 810*	4.18	
4.5 m	1 080*	8.00	1 080*	8.00	2 000*	1 610	2 740*	2 430	3 100*	3 100*							3 000*	3.76	3 000*	3.76	
3 m	1 090*	8.38	1 090*	8.38	2 570*	1 560	3 520*	2 320	4 270*	3 710	4 650*	4 650*					4 620*	2.04	4 620*	2.04	
1.5 m	1 150*	8.46	1 150*	8.46	3 080*	1 500	4 600*	2 180	6 040*	3 460	8 980*	6 640					3 800*	2.08	3 800*	2.08	
0 m	1 280*	8.24	1 220	8.24	3 300*	1 440	4 870*	2 060	6 690*	3 210	9 660*	6 040	2 850*	2 850*			2 570*	1.32	2 570*	1.32	
-1.5 m	1 510*	7.72	1 350	7.72	2 440*	1 410	4 790*	1 990	6 660*	3 080	9 440*	5 870	4 730*	4 730*	3 900*	3 900*	3 900*	0	3 900*	0	
-3 m	1 980*	6.84	1 650	6.84			4110*	2 010	5 940*	3 100	8 810*	5 940	6 950*	6 950*	5 170*	5 170*	5 170*	0	5 170*	0	
-4.5 m	2 460*	5.42	2 400	5.42					3 980*	3 180	5 980*	5 950	9 290*	9 290*			8 250*	0.91	8 250*	0.91	

Pi	inciple Specifications	SH145X-6								
		STD Specifications								
	Std. operating weight	14,500 kg								
	Boom length	4.63 m								
Base	Arm length	2.50 m								
Ba	Bucket capacity (ISO heaped)	0.50 M3								
	Shoe width	500 mm								
	Counterweight	3,500 kg								
ഉ	Make & model	ISUZU GJ-4JJ1X								
Engine	Rated output	70.9 kW/2,000 min ⁻¹								
ш	Piston displacement	2.999 ltr								
_	Main pump	2 variable displacement axial piston pumps with regulating system								
System	Max oil flow	2 × 129 ltr/min								
Sys	Max pressure	34.3 MPa								
	/with auto power boost	36.3 MPa								
Hydraulic	Travel motor	Variable displacement axial piston motor								
<u> </u>	Parking brake type	Mechanical disc brake								
_	Swing motor	Fixed displacement axial piston motor								
	Travel speed	5.6/3.4 km/h								
	Drawbar pull	116 kN								
4	Gradeability	70% <35°>								
Performance	Ground pressure	47 kPa								
ma	Max swing speed	11.2 min ⁻¹								
Į.	Swing torque	37.0 kN·m (3,773 kgf·m)								
Per	Bucket digging force (ISO 6015)	90 kN								
	/with power boost	95 kN								
	Arm digging force (ISO 6015)	62 kN								
	/with power boost	66 kN								
Others	Fuel tank	200 ltr								
동	Hydraulic oil tank	75 ltr								

Standard Equipment

[Hydraulic system]

- •SIH:S+ hydraulic system
- •Operation mode (SP, H and A mode)
- •Automatic 2-speed travel
- Automatic power boost
- Arm/boom/bucket reactivation circuit
- Automatic swing parking system
- •High-performance return filter

[Cab/interior equipment]

- •Top guard OPG level1 (in cab structure)
- •4-point fluid mounts
- •Built-in type full-colour monitor display
- •Open air introducing pressurised full-automatic air conditioner
- Defroster
- KAB seat
- Seat suspension
- Armrest & headrest
- •Windscreen wiper (with intermittent operation function)
- •Cup holder
- •AM/FM radio (with muting function and AUX port & USB port)
- •Radio mute/Windscreen wiper one-touch control on joystick
- Clock
- •Magazine rack
- Accessory case
- Floor mat
- •Ashtray & cigarette lighter
- Cab light (Auto-OFF function)
- Coat hook

[Safety equipment]

- •Rearview mirror (left/right)
- •Emergency escape tool
- •Retracting 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
- •Engine neutral start

[Others]

- Auto/one-touch idling
- •Auto idle shutdown system
- •EMS
- •Long-life hydraulic oil
- •Two lights (main unit and left of boom)
- •Fuel filter (with water separator)
- •Fuel prefilter (with water separator)
- •Double-element air cleaner
- •Grease-enclosed track link
- Tool box
- A set of tools

Accessories (option)





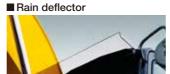






■ Head guard (OPG level 2)





■12V power (DC-DC converter)



■ Front guard (OPG level 1 or 2)



- Refuel pump
- Hose burst check valve (HBCV) for boom/arm cylinders
- Side camera
- Rearview camera
- ■ISO compliant guardrail
- ISO compliant mirror
- ■ROPS Cabin

