SUMITOMO

SUMITOMO (S.H.I.) CONSTRUCTION MACHINERY CO., LTD.

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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

SH*7*5X-6A SH*7*5XU-6A SH80BS-6A







Engine and Hydraulics



SH75X-6A has achieved a 5% reduction in fuel consumption in comparison with the previous 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, which complies with emission regulations such as U.S. EPA Tier 4 Final and EU Stage III B, contributes greatly to the environment.





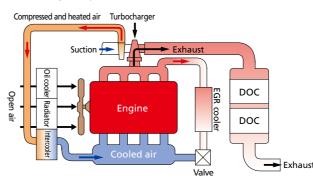
Compliant to Emission Regulations U.S. EPA Tier 4 Final and EU Stage III B.

The state-of-the-art engine system "SPACE 5+" substantially reduces PM (particulate matter) contained in the exhaust gas, further reducing or minimising the impact on the environment.

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 wastegate turbocharger. At the same time, excellent response times are achieved.

4LE2X Engine System Overview



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.

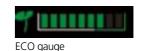


Further Improvements to Fuel Consumption

Optimal control for economic operation has reduced fuel consumption by 5% in A mode.

ECO Gauge to Display Energy Efficiency Operation

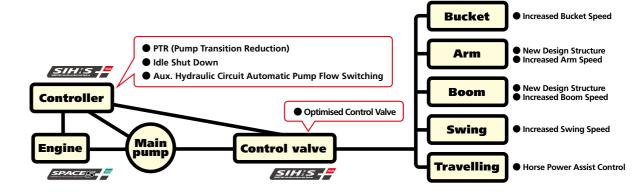
An ECO Gauge and fuel consumption indicator are included within the monitor to make energy efficiency recognisable in an instant.





SUMITOMO's original hydraulic system "SIH:S+" perfectly matches the engine and hydraulic power, further improving the operational speed whilst maintaining smooth control of the machine.

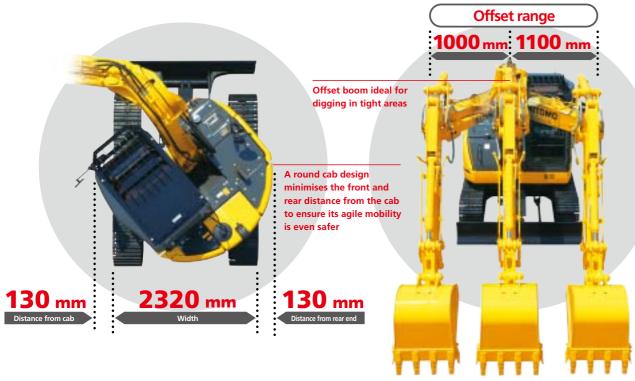




Engine and Hydraulics

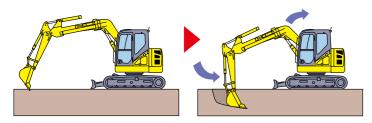
SH75XU-6A

Mobility With Small Swing Radius and Offset Boom to Suit a Diverse Range of Jobs





Speed and Power, Dramatically Increases Productivity



• SP mode 7% faster cycle time

• H mode 3% faster cycle time

• A mode 1% faster cycle time

(as compared with the previous model)
*Rased on SUMITOMO's testing condition and result



Increased Pump Flow Capacity

The volume of the main pump has been increased by 9% for faster work speed and more flexibility with complex operations.

Shorter Cycle Time and Operability

A speed increase of 7% for cycle time (SP mode) has been achieved, compared with the previous model. Control also focuses on operability when delicate operations are required, ensuring both productivity and operability.

PTR (Pump Transition Reduction)

PTR decreases main pump loads to reduce fuel consumption. Pressure sensors are constantly monitored to prevent engine lug-down upon abrupt pump load.

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.

Auto Idle & Idle Shut Down

Auto Idle function automatically signals the engine to drop back to idle when the joysticks are at rest for more than five seconds. Idle Shut Down automatically shuts the engine down when the machine is not in operation for set amount of time.

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

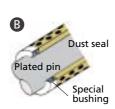
Sections equipped with steel EMS bushing ➡ Sections equipped with EMS bushing



• Bucket greasing interval:

EMS bushing





A solid lubricant embedded in high strength brass 3 The surface of the pin is plated to increase the surface hardness and improve the

Steel EMS bushing



Steel EMS is installed around the bucket

Precautionary use of EMS

① Grease is enclosed, however greasing is necessary every 1000 hours or six months depending on the level of dusting conditions. @ Greasing is also necessary after any components have been submerged underwater for prolonged periods.

® Greasing is also recommended after use with hydraulic breakers, crushers or other high impact attachments such as rock saws. @ Bucket pins should be cleaned thoroughly when removing or attaching new buckets.

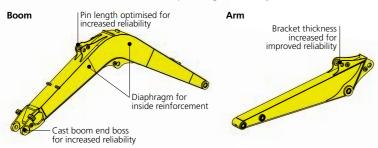
High Rigidity Attachments

state to reduce abrasion of joints

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 end, improving reliability.

forms a layer on the bushing surface to prevent contact

between metals, maintaining an excellent lubricated



Inner Hydraulic Hose (SH75XU-6A)

The hydraulic hose is installed inside the off-set rod, protecting it from potential damage caused by direct external contact.





Ground Level Access to Engine Area Improves Preventative Maintenance

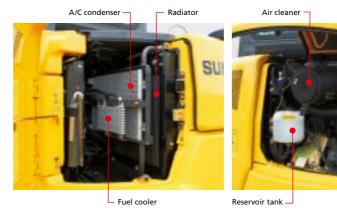
Parts cleaning and maintenance are possible from the ground without climbing onto the upper structure of the excavator body.

Increased Cooling Capability

With the improved air flow and EGR 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 clogging sensor to the main fuel filter are provided as standard equipment to reduce trouble due to fuel clogging. 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

2,000 hours • Life of filter:

Cab Floor Mat SUMITOMO

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



Easy Access to A/C Filter

The air intake filter is located in a lockable compartment to make it 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

The cabin provides Roll Over Protective Structure (ROPS) in compliance with ISO 12117-2:2008. This enhanced protection comes standard from the factory.

The cabin is also compliant to OPG Top Guard Level 1.

To support the operator in the field, the DASH 6 incorporates a 7"

wide full colour LCD monitor with numerous functions and universally designed switch panel.

The ROPS compliant cabin with enhanced operator comfort ensures a safe working environment.

Deformed steel pipe

Wide View Increases Safety of Work

In addition to the wide front view, the upper and side views have been widened to enhance work safety.

Rearview Camera

With the optional rearview camera, the operator can view the image on the large LCD monitor.



Rearview camera (option)

SUMITOMO 3 80

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



ISO-compliant hand grip and lower step

New OPG Level 2 Head Guard

OPG Level 2 head guard is available as an option. The see-through grille has been redesigned for better protection and visibility.



ISO Compliant Rearview Mirror

The new ISO compliant rearview mirrors reduce blind spots during operation. Together with the front mirrors, visibility is secured for safe operation.





Safety Equipment



Anti-theft alarm system

Emergency stop switch



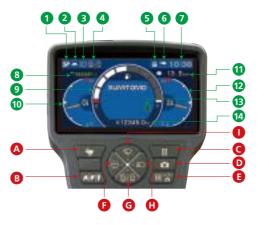
Safety and **Operator Comfort**

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



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
- 6 Anti-theft
- 6 Attachment selection Digital clock

Switch Panel

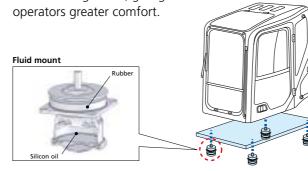
- A Travel speed button
- Camera on/off
- Hour meter / Camera toggle button

- 8 ECO gauge
- 9 Fuel level gauge
- 10 Engine coolant temperature 11 Fuel consumption indicator
- 12 Hydraulic oil temperature
- Radio mute 4 Hour meter

- Aux. hydraulics settings
- **©** Computer menu
- (B) Window washer control **G** 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



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.





Air suspension seat (option)

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 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

SH75X-6A / SH75XU-6A / SH80BS-6A Technical Data Hydraulic cylinders

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

Engine

	SH75X-6A	SH75XU-6A	SH80BS-6A		
Model	I	SUZU AP-4LE2>	<		
Туре	Water-cooled, 4-cycle diesel, 4-cylinder in line, high pressure common rail system (electric control), turbocharger with air cooled intercooler, DOC.				
Rated output	40.0 kW /2,000 min ⁻¹				
Maximum torque	193 N-m at 1,800 min ⁻¹				
Piston displacement	2.179 ltr				
Bore and stroke	85 mm x 96 mm				
Starting system	24 V electric motor starting				
Alternator	24 V, 50 A				
Fuel tank	120 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.

	SH75X-6A	SH75XU-6A	SH80BS-6A
Maximum oil flow		2 x 74 ltr/min	
Pilot pump max.oil flow		18 ltr/min	

Hydraulic motors

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

Relief valve settings

Boom/arm/bucket ···· 29.4 MPa (300 kgf/cm²)
Swing circuit22.6 MPa (230 kgf/cm²)
Travel circuit29.4 MPa (300 kgf/cm²)

Control valve

SH75X-6A

With boom 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

SH75XU-6A

With boom holding valve

One 5-spool valve for right track travel, bucket, boom, arm acceleration and offset One 5-spool valve for left track travel, auxiliary, swing, boom acceleration and arm One 1-spool valve for blade

SH80BS-6A

With boom holding valve

One 5-spool valve for right track travel, bucket, boom, arm acceleration and boom swing 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

,							
	Cylinder	Q'ty	Bore x Rod Diameter x Stroke				
	Boom	1	115 mm x 75 mm x 850 mm				
SH75X-6A	Arm	1	100 mm x 65 mm x 755 mm				
	Bucket	1	85 mm x 55 mm x 665 mm				
	Blade	1	110 mm x 70 mm x 180 mm				
	Cylinder	Q'ty	Bore x Rod Diameter x Stroke				
	Boom	1	115 mm x 75 mm x 850 mm				
011757/11 04	Arm	1	95 mm x 60 mm x 685 mm				
SH75XU-6A	Offset	1	100 mm x 55 mm x 315 mm				
	Bucket	1	85 mm x 55 mm x 665 mm				
	Blade	1	110 mm x 70 mm x 180 mm				
	Cylinder	Q'ty	Bore x Rod Diameter x Stroke				
	Boom	1	115 mm x 75 mm x 850 mm				
	Arm	1	100 mm x 65 mm x 755 mm				
SH80BS-6A	Boom Swing	1	95 mm x 55 mm x 675 mm				
	Bucket	1	85 mm x 55 mm x 665 mm				
	Blade	1	110 mm x 70 mm x 180 mm				

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

Cab & controls

Roll-over protective structure (ROPS) cab, top guard OPG level1 (in cab structure). Cab mounted on four fluid mountings. Features include safety glass front, rear and side windows, adjustable upholstered suspension seat with headrest and armrest, pop-up skylight window, and intermittent wiper with washer. 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.

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.

	SH75X-6A	SH75XU-6A	SH80BS-6A
Swing speed			
Tail swing radius	1,290 mm		1,680 mm
Swing torque	17.0 kN·m (1,734 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 leaded tin bronze casting, sealed for lifetime lubrication.

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

Number of folicis	realiser of folicis and shoes on each side						
	SH75X-6A	SH75XU-6A	SH80BS-6A				
Upper rollers		1					
Lower rollers		5					
Track shoes		39					

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 switch panel.

Hydraulically released disc parking brake is built into each motor.

		SH75X-6A	SH75XU-6A	SH80BS-6A
Travel and ad		5.1 km/h		
Travel speed	Low		3.2 km/h	
Drawbar pull		59.5 kN (6,067 kgf)		

Lubricant & coolant capacity

	SH75X-6A	SH75XU-6A	SH80BS-6A		
Hydraulic system		96.3 ltr			
Hydraulic oil tank		51 ltr			
Fuel tank	120 ltr				
Cooling system	12.2 ltr				
Final drive case (per side)		1.1 ltr			
Engine crank case		11.5 ltr			

Auxiliary hydraulic system

		SH75XU-6A		
Auxiliary piping type (option)	For Breaker	For Double (breaker & crusher) acting	For D/A + Second option line	For Breaker
Arm type	STD	Reinforced	Reinforced	STD
Bucket linkage type	HD	HD	HD	HD
Auxiliary hydraulic pump flow	74 Itr/min	148 ltr/min	148+35 ltr/min	74 ltr/min

Rucket

DUCKEL								
Model			SH75X-6A/SH75XU-6A/SH80BS-6A					
Bucket capacity (ISO/SAE/PCSA	heaped)	0.11 m ³	0.11 m³ 0.17 m³ 0.22 m³ 0.28 m³ 0.34 m³					
Bucket capacity (CECE heaped)		0.10 m ³	0.15 m ³	0.19 m³	0.24 m ³	0.30 m ³		
Bucket type		STD	STD	STD	STD	STD		
Number of teeth		3	3	3	4	4		
Width (mm)	With side cutter	_	_	673	804	934		
Width (mm)	Without side cutter	370	490	600	730	860		
Weight (kg)		137	162	184	209	227		
Combination	1.69 m arm	0			•	\circ		
(SH75X-6A/80BS-6A)	2.19 m arm	0	0	•	Δ	×		
Combination	1.75 m arm	0	0	0	•	×		
(SH75XU-6A)	2.10 m arm	0	0	•	×	×		

- O Suitable for materials with density up to 2,000 kg/m³ or less
- Standard bucket (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
- Suitable for materials with density up to 1,200 kg/m³ or less

Weight & Ground Pressure

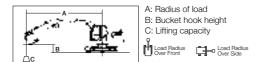
···oigiii w	rroight & Ground 1 rootalo						
	Shoe type	Shoe width	Overall width	Operating weight	Ground pressure		
SH75X-6A	Triple grouper abox	450 mm	2,320 mm	7,880 kg	35 kPa		
	Triple grouser shoe	600 mm	2,470 mm	8,010 kg	31 kPa		
	Shoe type	Shoe width	Overall width	Operating weight	Ground pressure		
SH75XU-6A	Triple grouper chas	450 mm	2,320 mm	8,260 kg	37 kPa		
	Triple grouser shoe	600 mm	2,470 mm	8,390 kg	32 kPa		
	Shoe type	Shoe width	Overall width	Operating weight	Ground pressure		
SH80BS-6A	Triple grouser shoe	450 mm	2,320 mm	8,570 kg	38 kPa		
		600 mm	2,470 mm	8,700 kg	34 kPa		

Digging Force

55 5					
Model		SH75X-6A/	SH80BS-6A	SH75>	(U-6A
Arm length		1.69 m	2.19 m	1.75 m	2.10 m
Rucket diaging force	ISO 6015	56.9 kN	56.9 kN	56.9 kN	56.9 kN
Bucket digging force	SAE: PCSA	49.9 kN	49.9 kN	49.9 kN	49.9 kN
arm digging force	ISO 6015	39.5 kN	33.8 kN	39.4 kN	34.7 kN
	SAF: PCSA	37.9 kN	32.7 kN	37.8 kN	33.5 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.



SH7	5X-6	Α	SHOE : 45 BUCKET : S.		22 (m ³)		NGTH : 2.1 M REACH			OM : 3.75 ADE : Dow								
Bucket		Max. F	Radius		6	m	4.5		Radius o		1.5	5 m	0	m		Min. F	Radius	
Hook Height	r ^l	j	G	<u> </u>	Ů		Ů	#	Ů	;	Ů	;	Ů		Ę.	j	G	F
6 m	(kg) 1 020*	(m) 4.67	(kg) 1 020*	(m) 4.67			1 240*	1 240*							(kg) 1 060*	(m) 3.02	(kg) 1 060*	(m) 3.02
4.5 m	900*	5.89	900*	5.89			1 570*	1 570*							1 500*	3.13	1 500*	3.13
3 m	890*	6.48	810	6.48	1 490*	950	1 730*	1 570	2 030*	2 030*					2 330*	2.13	2 330*	2.13
1.5 m	940*	6.63	750	6.63	1 630*	910	2 120*	1 470	3 090*	2 850					1 690*	1.98	1 690*	1.98
0 m	1 060*	6.4	780	6.4	1 670*	870	2 330*	1 380	3 670*	2 590	1 840*	1 840*			1 760*	1.45	1 760*	1.45
-1.5 m	1 330*	5.77	910	5.77			2 280*	1 330	3 570*	2 520	3 160*	3 160*	2 130*	2 130*	2 130*	0	2 130*	0
-3 m	1 530*	4.62	1 300	4.62			1 670*	1 370*	2 870*	2 550	5 110*	5 110*			3 740*	0.49	3 740*	0.49

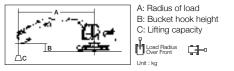
SH7	5X-6	Α	50 (mm)G AE/PCSA 0.	22 (m³)		NGTH : 2.1 M REACH	19 (m) I : 6.89 (m)		OM : 3.75 ADE : Up	(m)								
Bucket		Max. I	Radius		6	m	4.5	5 m	Radius 6	of Load m	1.5	5 m	0	m		Min. F	Radius	
Hook Height	ľ	b	G	-	ů	-1-0	ů	-1-	ů	;	Ů	;	ů	;	ď	j	Ġ	⊨ ∘
6 m	(kg) 1 020*	(m) 4.67	(kg) 1 020*	(m) 4.67			1 240*	1 240*							(kg) 1 060*	(m) 3.02	(kg) 1 060*	(m) 3.02
4.5 m	900*	5.89	900*	5.89			1 570*	1 530*							1 500*	3.13	1 500*	3.13
3 m	850	6.48	780	6.48	990	910	1 650	1 510	2 030*	2 030*					2 330*	2.13	2 330*	2.13
1.5 m	790	6.63	720	6.63	950	860	1 550	1 400	3 010	2 710					1 690*	1.98	1 690*	1.98
0 m	820	6.4	740	6.4	910	830	1 450	1 310	2 790	2 460	1 840*	1 840*			1 760*	1.45	1 760*	1.45
-1.5 m	960	5.77	870	5.77			1 400	1 270	2 700	2 390	3 160*	3 160*	2 130*	2 130*	2 130*	0	2 130*	0
-3 m	1 370	4.62	1 240	4.62			1 440	1 310	2 720	2 430	5 110*	5 110*			3 740*	0.49	3 740*	0.49

SH7	5X-6	Α	SHOE : 4 BUCKET : S	50 (mm)G AE/PCSA 0.2		ARM LENGTH MAXIMUM RE			OM : 3.75 (m ADE : Down	1)						
								Radius	of Load							
Bucket		Max.	Radius		6	m	4.5	5 m	3	m	1.5	m		Min. I	Radius	
Hook Height		(m) (kg) (m)		- -	Ů		Ů	;	Ů		Ů		Ę	j	Ç.	1-
6 m	(kg) 1 210*	(m) 3.91	(kg) 1 210*	(m) 3.91					1 690*	1 690*			(kg) 920*	(m) 2.5	(kg) 920*	(m) 2.5
4.5 m	1 040*	5.34	1 040*	5.34			1 690*	1 600	1 840*	1 840*			1 860*	2.62	1 860*	2.62
3 m	1 030*	5.99	920	5.99			1 910*	1 530	2 560*	2 560*	3 910*	3 910*	3 860*	1.19	3 860*	1.19
1.5 m	1 090*	6.16	850	6.16	1 620*	890	2 230*	1 440	3 370*	2 760			2 090*	2.08	2 090*	2.08
0 m	1 250*	5.91	880	5.91			2 340*	1 360	3 680*	2 560			1 930*	1.58	1 930*	1.58
-1.5 m	1 630*	5.22	1 070	5.22			2 180*	1 340	3 430*	2 530	3 660*	3 660*	2 510*	0.46	2 510*	0.46
-3 m	1 550*	3.94	1 550*	3.94					2 420*	2 420*	4 020*	4 020*	4 660*	1.16	4 660*	1.16

SH7	5X-6	Α	SHOE : 4: BUCKET : S			ARM LENGTH MAXIMUM RE			OOM : 3.75 (m ADE : Up	1)						
Bucket		Max.	Radius		6	m	4.5	Radius m		m	1.5	i m		Min. F	Radius	
Hook Height	ď	j	Ē		Ů		Ů		Ů	;	ů	;	Ę	j	٦	10
6 m	(kg) 1 210*	(m) 3.91	(kg) 1 210*	(m) 3.91					1 690*	1 690*			(kg) 920*	(m) 2.5	(kg) 920*	(m) 2.5
4.5 m	1 040*	5.34	1 040*	5.34			1 660	1 530	1 840*	1 840*			1 860*	2.62	1 860*	2.62
3 m	960	5.99	880	5.99			1 610	1 470	2 560*	2 560*	3 910*	3 910*	3 860*	1.19	3 860*	1.19
1.5 m	890	6.16	810	6.16	930	850	1 510	1 370	2 960	2 630			2 090*	2.08	2 090*	2.08
0 m	930	5.91	840	5.91			1 430	1 300	2 750	2 430			1 930*	1.58	1 930*	1.58
-1.5 m	1 130	5.22	1 020	5.22			1 410	1 280	2 720	2 400	3 660*	3 660*	2 510*	0.46	2 510*	0.46
-3 m	1 550*	3.94	1 550*	3.94					2 420*	2 420*	4 020*	4 020*	4 660*	1.16	4 660*	1.16

Lifting Capacity

- Ratings are based on ISO 10567
 Lifting capacity does not exceed 75% of tipping load with the machine on firm, level ground or 87% full hydraulic capacity.
 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.



SH7	5XU-	6A	SHOE : 4 BUCKET : S			ARM LENGTH MAXIMUM RE			OM : 3.89 (n ADE : Down							
Bucket								Radius								
Hook		Max.	Radius		6	m	4.5	m	3	m	1.5	5 m		Min. F	Radius	
Height	ľ		Ç.	-	Ů	.	Ů		ů	-	ф	-	ľ	h	G	=0
6 m	(kg) 1 330*	(m) 4.53	(kg) 1 330*	(m) 4.53			1 350*	1 350*	1 210*	1 210*			(kg) 1 120*	(m) 2.9	(kg) 1 120*	(m) 2.9
4.5 m	1 230*	5.78	980	5.78			1 470*	1 470*	1 530*	1 530*			1 530*	2.93	1 530*	2.93
3 m	1 260*	6.38	750	6.38	1 370*	860	1 610*	1 520	2 030*	2 030*			2 490*	2.17	2 490*	2.17
1.5 m	1 350*	6.54	660	6.54	1 460*	800	1 950*	1 350	2 800*	2 630			1 870*	2.75	1 870*	2.75
0 m	1 380*	6.3	670	6.3	1 490*	730	2 090*	1 200	3 250*	2 270			1 650*	2.41	1 650*	2.41
-1.5 m	1 410*	5.66	790	5.66			2 020*	1 130	3 170*	2 180	3 070*	3 070*	2 400*	0.28	2 400*	0.28
-3 m	1 450*	4.49	1 170	4.49					2 500*	2 240	4 290*	4 290*	3 740*	0.71	3 740*	0.71

SH7	5XU-	6A	SHOE : 4: BUCKET : S	50 (mm)G AE/PCSA 0.		ARM LENGTH MAXIMUM RE			OM : 3.89 (n ADE : Up	n)						
								Radius	of Load							
Bucket		Max.	Radius		6	m	4.5	5 m	3	m	1.5	5 m		Min. F	Radius	
Hook Height	ľ	b	G	-	Ů	;	Ů		Ů		Ů		ď	j	G	├ □
6 m	(kg) 1 330*	(m) 4.53	(kg) 1 330*	(m) 4.53			1 350*	1 350*	1 210*	1 210*			(kg) 1 120*	(m) 2.9	(kg) 1 120*	(m) 2.9
4.5 m	1 030	5.78	930	5.78			1 470*	1 470*	1 530*	1 530*			1 530*	2.93	1 530*	2.93
3 m	790	6.38	710	6.38	910	820	1 590*	1 450	2 030*	2 030*			2 490*	2.17	2 490*	2.17
1.5 m	700	6.54	620	6.54	840	750	1 430	1 290	2 790	2 500			1 870*	2.75	1 870*	2.75
0 m	710	6.3	630	6.3	780	690	1 280	1 140	2 460	2 140			1 650*	2.41	1 650*	2.41
-1.5 m	840	5.66	750	5.66			1 210	1 070	2 360	2 050	3 070*	3 070*	2 400*	0.28	2 400*	0.28
-3 m	1 250	4.49	1 110	4.49					2 400	2 130	4 290*	4 290*	3 740*	0.71	3 740*	0.71

SH7	5XU-	6A	SHOE : 4 BUCKET : S	50 (mm)G AE/PCSA 0.:		ARM LENGTH MAXIMUM RE			OOM : 3.89 (n .ADE : Down							
D								Radius	of Load							
Bucket Hook		Max.	Radius		6	m	4.5	5 m	3	m	1.8	5 m		Min. F	Radius	
Height	ľ		Ç	-	Ů		Ů	;	ů	-	ů			h	G	⊢ ∘
6 m	(kg) 1 500*	(m) 4.05	(kg) 1 500*	(m) 4.05					1 590*	1 590*			(kg) 1 020*	(m) 2.55	(kg) 1 020*	(m) 2.55
4.5 m	1 420*	5.44	1 080	5.44			1 600*	1 540	1 750*	1 750*			1 810*	2.57	1 810*	2.57
3 m	1 420*	6.07	810	6.07	1 430*	840	1 730*	1 480	2 250*	2 250*			2 840*	2.24	2 840*	2.24
1.5 m	1 440*	6.24	720	6.24	1 500*	780	2 020*	1 320	2 970*	2 540			1 740*	2.8	1 740*	2.8
0 m	1 460*	6	740	6			2 110*	1 190	3 310*	2 240			1 670*	2.46	1 670*	2.46
-1.5 m	1 470*	5.32	890	5.32			1 980*	1 150	3 090*	2 210	3 350*	3 350*	2 810*	0.62	2 810*	0.62
-3 m	1 460*	4.06	1 410	4.06					2 240*	2 240*	3 620*	3 620*	4 150*	1.16	4 150*	1.16

SH7	5XU-	6A	SHOE : 4: BUCKET : S			ARM LENGTH MAXIMUM RE			OM : 3.89 (n ADE : Up	n)						
Bucket		May	Radius		6	m	1 F	Radius 5 m		m	1.6	5 m		Min F	Radius	
Hook Height	r)	,			Ů	;	Ů	-	Ů	-1 -	Ů	-1 -	ſ	j		-
6 m	(kg) 1 500*	(m) 4.05	(kg) 1 500*	(m) 4.05					1 590*	1 590*			(kg) 1 020*	(m) 2.55	(kg) 1 020*	(m) 2.55
4.5 m	1 140	5.44	1 030	5.44			1 600*	1 500	1 750*	1 750*			1 810*	2.57	1 810*	2.57
3 m	860	6.07	770	6.07	880	790	1 560	1 410	2 250*	2 250*			2 840*	2.24	2 840*	2.24
1.5 m	760	6.24	680	6.24	830	740	1 400	1 260	2 740	2 400			1 740*	2.8	1 740*	2.8
0 m	780	6	690	6			1 270	1 130	2 430	2 110			1 670*	2.46	1 670*	2.46
-1.5 m	950	5.32	840	5.32			1 230	1 090	2 400	2 080	3 350*	3 350*	2 810*	0.62	2 810*	0.62
-3 m	1 460*	4.06	1 330	4.06					2 240*	2 150	3 620*	3 620*	4 150*	1.16	4 150*	1.16

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.



SH8	0BS-	6A	SHOE : 4 BUCKET : S	50 (mm)G AE/PCSA 0.		RM LENGTH MAXIMUM RE	H : 2.19 (m) EACH : 7.56		OM : 3.50 (m ADE : Down	1)						
Bucket									of Load							
Hook		Max.	Radius		6	m	4.5	5 m	3	m	1.5	5 m			Radius	
Height	وآ	j	G		Ů	-	ģ	-	Ů	;	Ů	-	ľ		Ç.	1-0
6 m	(kg) 1 090*	(m) 5.17	(kg) 1 090*	(m) 5.17									(kg) 1 170*	(m) 4.78	(kg) 1 170*	(m) 4.78
4.5 m	950*	6.51	950*	6.51	1 380*	1 200							1 410*	4.76	1 410*	4.76
3 m	930*	7.14	850	7.14	1 650*	1 170	1 700*	1 700*					1 700*	4.11	1 700*	4.11
1.5 m	990*	7.3	800	7.3	1 900*	1 120	2 570*	1 760	3 970*	3 330			1 680*	2.61	1 680*	2.61
0 m	1 130*	7.06	830	7.06	2 130*	1 070	3 120*	1 650	4 010*	3 030			1 580*	1.91	1 580*	1.91
-1.5 m	1 460*	6.4	960	6.4	2 090*	1 050	3 170*	1 610	5 110*	3 010	2 720*	2 720*	2 160*	0.48	2 160*	0.48
-3 m	1 990*	5.18	1 320	5.18			2 670*	1 660	4 670*	3 090	4 820*	4 820*	3 790*	0.98	3 790*	0.98

SH8	0BS-	6A	SHOE : 4 BUCKET : S	50 (mm)G AE/PCSA 0.		ARM LENGTH MAXIMUM RE			OM : 3.50 (n ADE : Up	n)						
Bucket								Radius								
Hook		Max.	Radius		6	m	4.5	5 m	3	m	1.5	5 m		Min. F	Radius	
Height	r]	ħ	Ç.		Ф	;	Ф	;	ф	÷	ф	;	ľ	h	Ģ	
6 m	(kg) 1 090*	(m) 5.17	(kg) 1 090*	(m) 5.17									(kg) 1 170*	(m) 4.78	(kg) 1 170*	(m) 4.78
4.5 m	950*	6.51	950*	6.51	1 260	1 150							1 410*	4.76	1 410*	4.76
3 m	900	7.14	820	7.14	1 230	1 120	1 700*	1 700*					1 700*	4.11	1 700*	4.11
1.5 m	840	7.3	760	7.3	1 170	1 070	1 860	1 690	3 580	3 180			1 680*	2.61	1 680*	2.61
0 m	870	7.06	790	7.06	1 120	1 020	1 750	1 580	3 270	2 890			1 580*	1.91	1 580*	1.91
-1.5 m	1 010	6.4	910	6.4	1 110	1 010	1 700	1 540	3 250	2 870	2 720*	2 720*	2 160*	0.48	2 160*	0.48
-3 m	1 390	5.18	1 270	5.18			1 760	1 590	3 330	2 950	4 820*	4 820*	3 790*	0.98	3 790*	0.98

SH8	0BS-	6A	SHOE : 44 BUCKET : S.			ARM LENGTH			OM : 3.50 (m ADE : Down	n)						
Б								Radius	of Load							
Bucket Hook		Max.	Radius		6	m	4.5	i m	3	m	1.5	5 m		Min. F	Radius	
Height	ال	j	(m) (kg) (m)		Ů		Ů		ů	7	Ů	-	rl	j	Ē	⊢ ∘
4.5 m	(kg) 1 100*	(m) 5.95	(kg) 1 100*	(m) 5.95			1 680*	1 680*					(kg) 1 670*	(m) 4.26	(kg) 1 670*	(m) 4.26
3 m	1 080*	6.65	950	6.65	1 750*	1 140	2 060*	1 840					2 250*	3.28	2 250*	3.28
1.5 m	1 160*	6.83	890	6.83	2 020*	1 100	2 800*	1 730	4 730*	3 200			2 230*	2.72	2 230*	2.72
0 m	1 340*	6.57	920	6.57	2 150*	1 060	3 190*	1 640	3 770*	3 000			1 820*	2.09	1 820*	2.09
-1.5 m	1 820*	5.84	1 100	5.84			3 110*	1 620	5 430*	3 040	3 300*	3 300*	2 760*	0.98	2 760*	0.98
-3 m	2 110*	4.47	1 670	4.47					3 970*	3 130			5 580*	1.63	5 580*	1.63

SH8	80BS-6A SHOE : 450 (mm)G BUCKET: SAE/PCSA 0.28 (m³) ARM LENGTH : 1.69 (m) BLADE: Up BLADE: Up																
Dualest		Radius of Load															
Bucket Hook	Max. Radius				6 m		4.5 m		3 m		1.5 m		Min. Radius				
Height	Ů				ď		ů 鋛		Ů		ტ ∺		ů		Ġ	- <u>1</u> -0	
4.5 m	(kg) 1 100*	(m) 5.95	(kg) 1 100*	(m) 5.95			1 680*	1 680*					(kg) 1 670*	(m) 4.26	(kg) 1 670*	(m) 4.26	
3 m	1 000	6.65	910	6.65	1 200	1 100	1 930	1 770					2 250*	3.28	2 250*	3.28	
1.5 m	930	6.83	850	6.83	1 150	1 050	1 820	1 660	3 450	3 050			2 230*	2.72	2 230*	2.72	
0 m	970	6.57	880	6.57	1 120	1 020	1 730	1 560	3 230	2 860			1 820*	2.09	1 820*	2.09	
-1.5 m	1 160	5.84	1 060	5.84			1 710	1 550	3 280	2 900	3 300*	3 300*	2 760*	0.98	2 760*	0.98	
-3 m	1 770	4.47	1 600	4.47					3 360	2 990			5 580*	1.63	5 580*	1.63	

winainla Chasifications	SH75X-6A	SH75XU-6A	SH80BS-6A					
rinciple Specifications	STD Specifications							
Std. operating weight	7,880 kg	8,260 kg	8,570 kg					
Boom length	3.75 m	3.89 m	3.50 m					
Arm length Bucket capacity (ISO heaped)	1.69 m	1.75 m	1.69 m					
Bucket capacity (ISO heaped)	0.28 m ³							
Shoe width	450 mm							
Counterweight	970 kg	970 kg	1,100 kg					
Make & model	ISUZU AP-4LE2X							
Make & model Rated output Piston displacement	40.0 kW/2,000 min ⁻¹							
Piston displacement	2.179 ltr							
Main pump	2 variable displacement axial piston pumps with regulating system							
Max oil flow	2 × 74 ltr/min							
Max pressure	29.4 MPa							
Travel motor	Variable displacement axial piston motor							
Main pump Max oil flow Max pressure Travel motor Parking brake Swing motor	Mechanical disc brake							
Swing motor	Fixed displacement axial piston motor							
Travel speed	5.1/3.2 km/h							
Drawbar pull	59.5 kN							
Gradeability	70% <35° >							
Ground pressure	35 kPa	37 kPa	38 kPa					
Max swing speed		10.4 min ⁻¹						
Gradeability Ground pressure Max swing speed Swing torque	17.0 kN·m (1,734 kgf·m)							
Bucket digging force (ISO 6015)	56.9 kN							
Arm digging force (ISO 6015)	39.5 kN	39.4 kN	39.5 kN					
Fuel tank Hydraulic oil tank	120 ltr							
Hydraulic oil tank	51 ltr							

Standard Equipment

[Hydraulic system]

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

[Cab/interior equipment]

- •Roll-over protective structure (ROPS) cab
- •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
- •Windscreen wiper (with intermittent operation function)
- •Cup holder
- •AM/FM radio (with muting function and AUX port)
- •Radio mute/Windscreen wiper one-touch control on joystick
- Clock
- •Magazine rack
- Accessory case
- Floor mat
- Armrest & headrest
- •Cab light (Auto-OFF function)
- •12V power (DC-DC converter)
- 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 right of boom)
- •Fuel filter (with water separator)
- •Fuel prefilter (with water separator)
- •Double-element air cleaner
- •Grease-enclosed track link
- •Large tool box
- •A set of tools

Accessories (option)

■ Cab-top lights





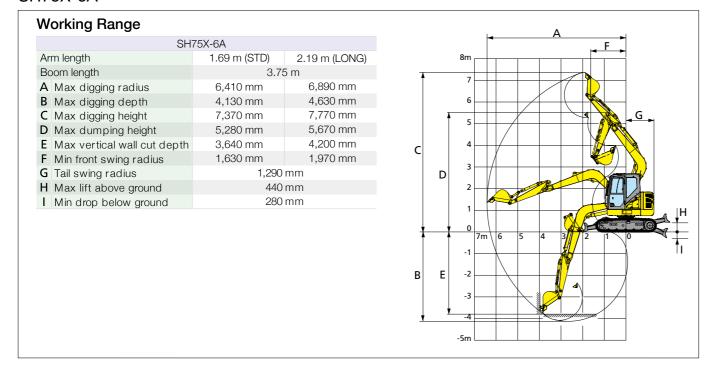


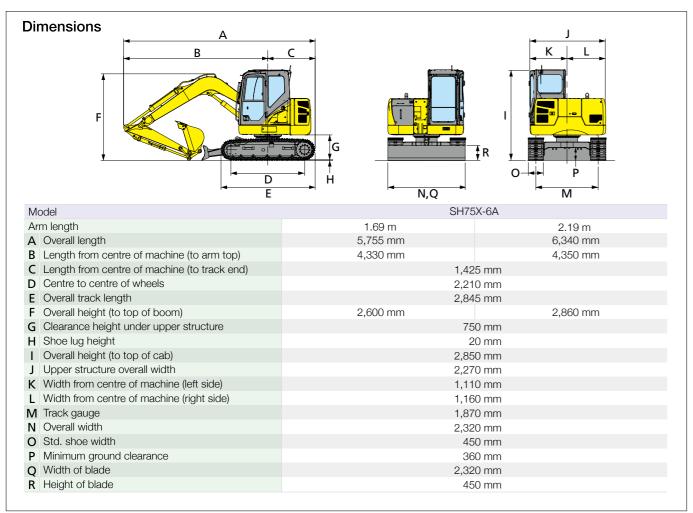
■ Air suspension (KAB seat)



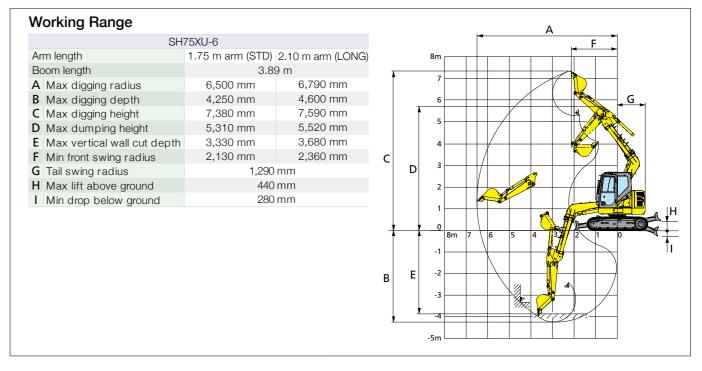
- Refuel pump
- Hose burst check valve (HBCV) for boom/arm cylinders
- Rearview camera

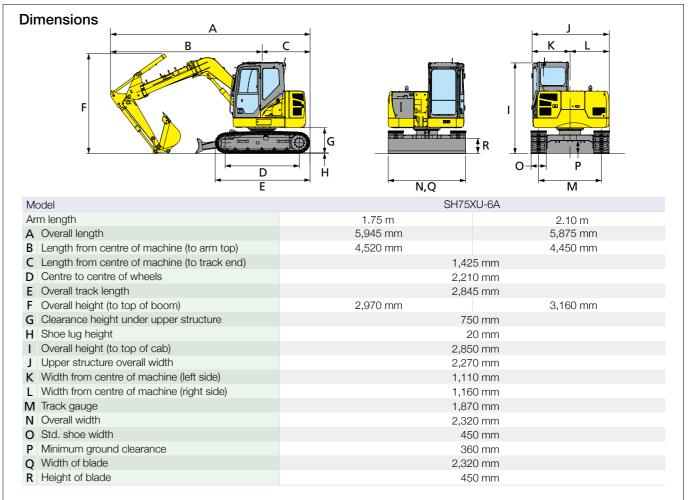
SH75X-6A



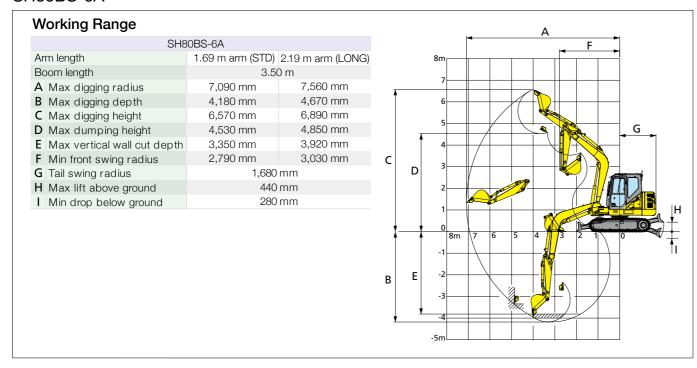


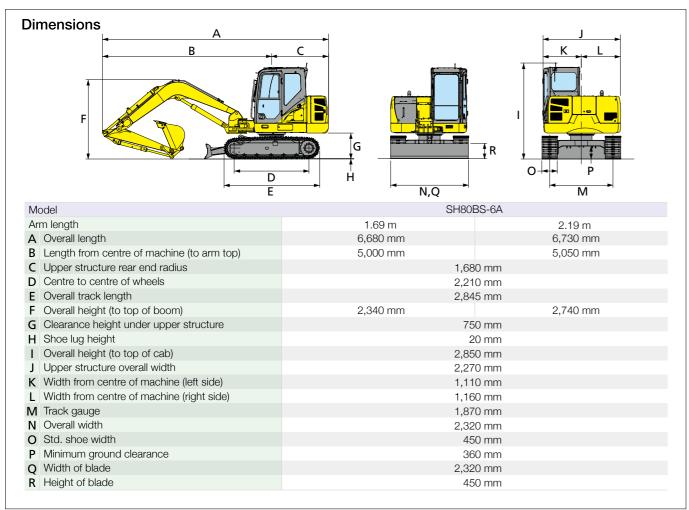
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SH80BS-6A





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