

SUMITOMO

LEGEST

SH75X

MINIMUM SWING RADIUS

Engine Rated Power (Net) : 40 kW·54 PS
Operating weight : 7852~8053 kg
Bucket Capacity : ISO heaped 0.11m³~0.34m³
CECE heaped .. 0.10m³~0.30m³



●There are times when we may change the content of the catalogue without warning ●There are times when printed photographs may differ from the retailer's actual specifications
●Photographs shown above have been taken in poses for use in this catalogue. When exiting machinery, please ensure that operational equipment is always grounded, and that every effort has been made to ensure safety ●There are times when the color of catalogue photographs may, as a result of the printing process, differ from the actual color ●Please always ensure that you have read the instruction manual before operating this vehicle ●A special license (Certification of the completion of a vehicle type construction machinery skilled operator's course) is required to operate construction machinery in excess of 3 tons ●Operation of specified cranes requires completion of a vehicle type construction machinery skilled operator's course, or completion of a small size mobile crane skilled operator's course

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

731-1 Naganumahara-cho, Inage-ku, Chiba, 263-0001 Japan

For further information please contact:

Phone : +81-43-420-1829

Facsimile : +81-43-420-1907

<http://www.sumitomokenki.com/>

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.

MADE IN JAPAN

The world knows that Japanese designed, engineered and manufactured 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 is one of the largest business groups in Japan, tracing its roots back to the late 1600's when they started a mining and copper smelting business, and since then have expanded and diversified their business operations on a continuing basis 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.



LEGEST
SH 75X



Minimum Swing Radius

In addition to the world top class compact swing capability in limited space, outstanding operation stability and strong digging and driving strength have been realized. SUMITOMO excavators can always be trusted to perform and maneuver exactly as the operator wants on various conditions of work sites.

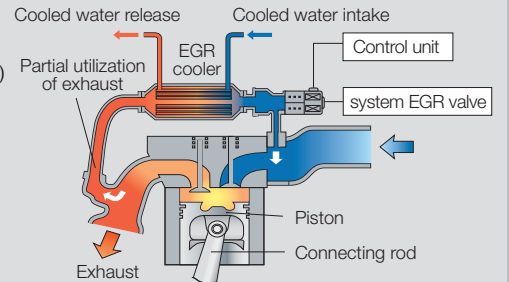


Clearing the Non-road Special Motor Vehicle Exhaust Emission Standard



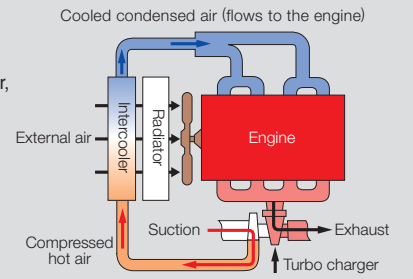
● Cooled EGR system

By installing EGR (Exhaust Gas Recirculation) engine, we have succeeded in re-circulating exhausted gas and lowering combustion temperature. Moreover, by adopting a water cooled EGR system, Nox (Nitrogen Oxide) emission is reduced.



● Turbo engine with intercooler

Air intake efficiency is improved by the intercooler, cooling the air heated by the turbo charger compression. In addition to the great effect of reducing Nox and PM, higher output and lower fuel consumption have been realized.



● Bucket digging capacity **57 kN**

● Arm digging capacity **39 kN**

Diversified operational field

- Road works
- Forest road works
- Demolition works

Rotational ABS
A rotation shock absorber device has been installed to soften jolts occurring from halting swing operations. ABS supports operators to turn the upper structure to intended direction, and prevents spillages of the bucket contents.

Employment of speed assisted mechanics
With the introduction of oil regeneration system in the arm and boom, digging operations and fuel consumption have been improved.

1785mm (SH60-2: 1750mm) Minimum front swing radius

1235mm (SH60-2: 1750mm) Tail swing radius

515mm Excess of full rear swing width

3020mm Width

190mm Excess cab width

2320mm Track width

75mm Excess rear width

Agile movement and safe operation with a rounded body form that minimizes "front and back" excess width while operation.

Maintenance

Diverse innovations have been made for reduced running costs and simplified maintenance. In terms of both cost and labor, the longer you use, the more you feel its efficiency.



Ground level access

By optimizing components layout, maintenance and cleaning process are easily accomplished from the ground level.



- ① Double element air cleaner
- ② Condenser
- ③ Battery (maintenance free)
- ④ Reserve tank

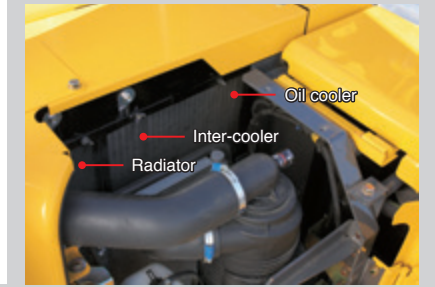


Fuel and oil filters

The fuel and oil filters are installed at positions that can be easily reached from ground level, simplified filter replacement.

- ① Water separator
- ② Fuel filter
- ③ Oil filter

Easy cleaning around radiator



Engine oil drain coupler

Engine oil pan (sump) is provided with a drain coupler, making the drain works easier and preventing oil spattering with the use of the attached drain hose.



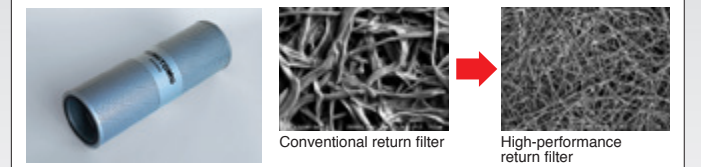
High-Performance return filter

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 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.

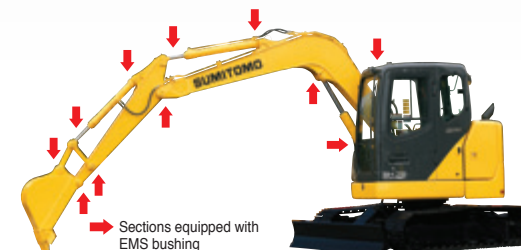


EMS (Easy Maintenance System) as standard

SUMITOMO unique design

SUMITOMO's newly improved EMS keeps the pins and bushes fully lubricated at all times and prevents rattling. EMS significantly extends the lifetime of pins and bushes.

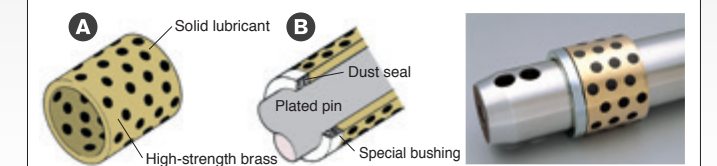
The interval of greasing around the bucket is 250 hours, and the interval for the other sections is 1,000 hours, keeping the joints lubricated for a long time and extending the lifetime of parts by reducing abrasion and rattling.



- Bucket greasing interval : **250 hours**
- Greasing interval for other sections: **1,000 hours**

※The greasing interval depends on the working conditions.

EMS bushing



- A A solid lubricant embedded in high strength brass forms a layer on the bushing surface to prevent contact between metals, maintaining an excellent lubricated state to reduce the abrasion of joints.
- B The surface of the pin is plated to increase the surface hardness and to improve the wear resistance accordingly.

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.
- ② Greasing is required when any component has been submerged underwater for a long time of period.
- ③ Greasing is also recommended after using hydraulic breakers, crushers or other high impact attachments such as rock saws and etc.
- ④ Bucket pins should be cleaned thoroughly when removing buckets or attaching new buckets.

Operator Comfort and Safety

Operators are provided with safety and comfort during their daily operations by SUMITOMO SH75X by our continuous endeavor to improve our excavators.



Comfortable and Spacious Cabin

Spacious foot space



Travel pedals are optional equipment

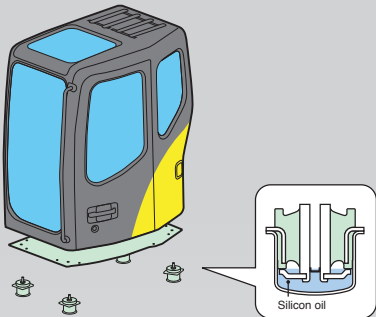
Air conditioner equipped as standard

Air conditioner is equipped as standard, air ventilation and defrosting function serve for operator's pleasant working environment.



Employment of fluid-mount suspension to reduce operator's fatigue

Shocks and vibrations are effectively absorbed by fluid mount suspension, and the operator is provided with comfortable ride in a quiet cabin.



Floor design allows easy access to cab



Slide-door windows

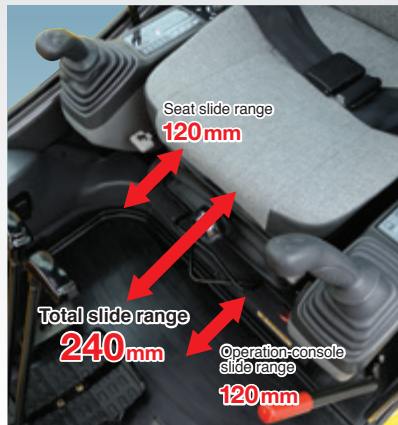


AM/FM radio



Stereo speakers

Full operation-console slide adjustment (Reclining seat)



Gate-type lock lever is equipped as standard to prevent operating errors



Emergency escape hammer



Reversing rear-view mirror



Cab roof window



Membrane switch



Emergency stop switch



Defroster/Cup holder

■ Lifting Capacity

BLADE : UP
 ARM : STD ARM
 SHOE : 450G
 BUCKET : 0.28BUCKET
 ARM LENGTH = 1.71 (m)
 MAXIMUM REACH = 5.52 (m)
 TIPPING CAPACITY (MARK:) = 75.0 (%)
 HYDRAULIC CAPACITY (MARK:*) = 87.0 (%)

Bucket Hook Height		Radius of Load						
		Max.Radius	5m	4m	3m	2m	Min.Radius	
5m	We	1610*	4.07	1670*	1600*	1590*	2.88	
	Ws	1610*	4.07	1670*	1600*	1590*	2.88	
4m	We	1490	4.8	1700*	1770*	1810*	2.56	
	Ws	1340	4.8	1700*	1770*	1810*	2.56	
3m	We	1250	5.25	1360	1900*	2230*	1.39	
	Ws	1120	5.25	1220	1790	2230*	1.39	
2m	We	1130	5.47	1320	1900	2860*	2.11	
	Ws	1010	5.47	1180	1690	2670	2.11	
1m	We	1080	5.51	1270	1800	2840	2.2	
	Ws	970	5.51	1130	1600	2470	2.2	
0	We	1100	5.36	1230	1730	2720	1.990*	1.78
	Ws	980	5.36	1090	1530	2360	1.990*	1.78
-1m	We	1210	5.01	1210	1690	2670	3910*	1.11
	Ws	1070	5.01	1070	1490	2320	3910*	0.98
-2m	We	1470	4.4	1690	2680	4560*	4110*	1.11
	Ws	1300	4.4	1490	2330	4560*	4000*	0.99
-3m	We	2200*	3.41	2550*	3520*	3880*	1.72	
	Ws	1960	3.41	2390	3520*	3880*	1.72	

WE : OVER END WS : OVER SIDE

BLADE : DOWN
 ARM : STD ARM
 SHOE : 450G
 BUCKET : 0.28BUCKET
 ARM LENGTH = 1.71 (m)
 MAXIMUM REACH = 5.52 (m)
 TIPPING CAPACITY (MARK:) = 75.0 (%)
 HYDRAULIC CAPACITY (MARK:*) = 87.0 (%)

Bucket Hook Height		Radius of Load						
		Max.Radius	5m	4m	3m	2m	Min.Radius	
5m	We	1610*	4.07	1670*	1600*	1590*	2.88	
	Ws	1610*	4.07	1670*	1600*	1590*	2.88	
4m	We	1560*	4.8	1700*	1770*	1810*	2.56	
	Ws	1340	4.8	1700*	1770*	1810*	2.56	
3m	We	1600*	5.25	1730*	1900*	2230*	1.86	
	Ws	1120	5.25	1220	1790	2230*	1.39	
2m	We	1710*	5.47	1860*	2190*	2860*	2.11	
	Ws	1010	5.47	1180	1690	2670	2.11	
1m	We	1830*	5.51	1990*	2460*	3400*	2.2	
	Ws	970	5.51	1130	1600	2470	2.2	
0	We	1920*	5.36	2070*	2630*	2490*	1.86	
	Ws	980	5.36	1090	1530	2360	1.990*	1.78
-1m	We	2020*	5.01	2020*	2630*	3570*	3590*	1.86
	Ws	1070	5.01	1070	1490	2320	3910*	0.98
-2m	We	2120*	4.4	2410*	3250*	4560*	4810*	1.86
	Ws	1300	4.4	1490	2330	4560*	4000*	0.99
-3m	We	2200*	3.41	2550*	3520*	3700*	1.86	
	Ws	1960	3.41	2390	3520*	3880*	1.72	

WE : OVER END WS : OVER SIDE

BLADE : UP
 ARM : LONG ARM
 SHOE : 450G
 BUCKET : 0.22BUCKET
 ARM LENGTH = 2.12 (m)
 MAXIMUM REACH = 5.92 (m)
 TIPPING CAPACITY (MARK:) = 75.0 (%)
 HYDRAULIC CAPACITY (MARK:*) = 87.0 (%)

Bucket Hook Height		Radius of Load							
		Max.Radius	5m	4m	3m	2m	Min.Radius		
5m	We	1390*	4.59	1430*	1350*	3.29			
	Ws	1390*	4.59	1430*	1350*	3.29			
4m	We	1290	5.25	1420	1490*	1470*	3.03		
	Ws	1160	5.25	1280	1490*	1470*	3.03		
3m	We	1100	5.66	1380	1700*	1920*	2.08		
	Ws	990	5.66	1240	1700*	1920*	2.08		
2m	We	1000	5.87	1330	1930	2560*	3920*	2.03	
	Ws	900	5.87	1190	1720	2560*	3920*	2.03	
1m	We	960	5.91	1270	1810	2880	3000*	2.13	
	Ws	860	5.91	1130	1610	2510	3000*	2.13	
0	We	970	5.77	1220	1730	2730	2570*	1.69	
	Ws	870	5.77	1090	1530	2370	2570*	1.69	
-1m	We	1050	5.44	1190	1670	2650	3540*	2.290*	1.11
	Ws	930	5.44	1060	1480	2300	3540*	2.210*	0.98
-2m	We	1230	4.89	1660	2640	4930*	3450*	1.11	
	Ws	1090	4.89	1460	2290	4770	3340*	0.98	
-3m	We	1680	4.03	1690	2680	4070*	4930*	1.11	
	Ws	1480	4.03	1490	2330	4070*	4930*	1.11	

WE : OVER END WS : OVER SIDE

BLADE : DOWN
 ARM : LONG ARM
 SHOE : 450G
 BUCKET : 0.22BUCKET
 ARM LENGTH = 2.12 (m)
 MAXIMUM REACH = 5.92 (m)
 TIPPING CAPACITY (MARK:) = 75.0 (%)
 HYDRAULIC CAPACITY (MARK:*) = 87.0 (%)

Bucket Hook Height		Radius of Load							
		Max.Radius	5m	4m	3m	2m	Min.Radius		
5m	We	1390*	4.59	1430*	1350*	3.29			
	Ws	1390*	4.59	1430*	1350*	3.29			
4m	We	1350*	5.25	1500*	1490*	1470*	3.03		
	Ws	1160	5.25	1280	1490*	1470*	3.03		
3m	We	1370*	5.66	1590*	1700*	1920*	2.08		
	Ws	990	5.66	1240	1700*	1920*	2.08		
2m	We	1450*	5.87	1740*	2010*	2560*	3920*	2.03	
	Ws	900	5.87	1190	1720	2560*	3920*	2.03	
1m	We	1590*	5.91	1900*	2330*	3180*	3000*	2.13	
	Ws	860	5.91	1130	1610	2510	3000*	2.13	
0	We	1740*	5.77	2020*	2550*	3530*	2570*	1.86	
	Ws	870	5.77	1090	1530	2370	2570*	1.69	
-1m	We	1830*	5.44	2040*	2620*	3590*	3540*	3.230*	1.86
	Ws	930	5.44	1060	1480	2300	3540*	2.210*	0.98
-2m	We	1940*	4.89	2500*	3390*	4930*	4610*	1.86	
	Ws	1090	4.89	1460	2290	4770	3340*	0.98	
-3m	We	2040*	4.03	2060*	2880*	4070*	4310*	1.86	
	Ws	1480	4.03	1490	2330	4070*	4930*	1.11	

WE : OVER END WS : OVER SIDE

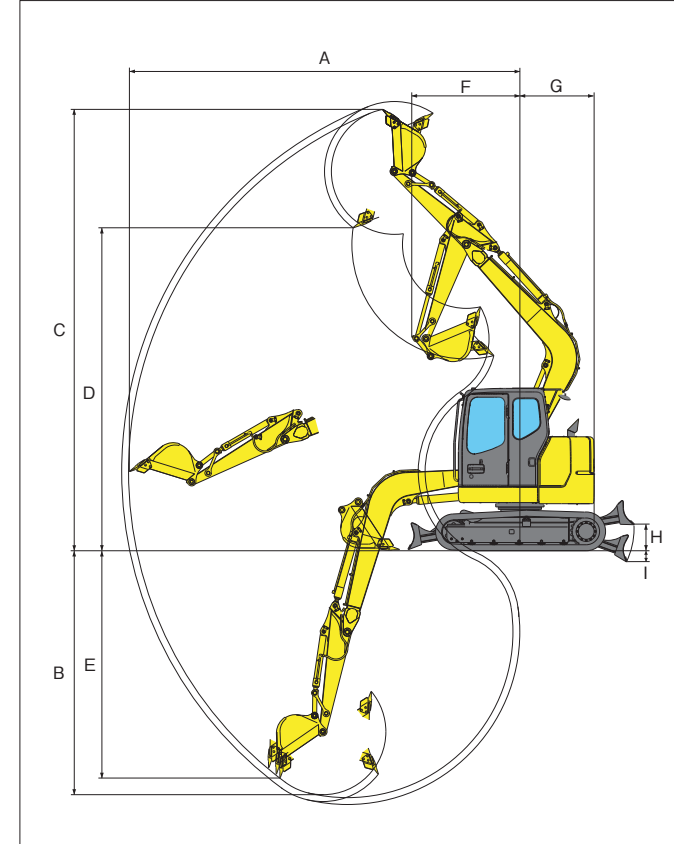
■ Standard equipment

- Hydraulics system
 - High-performance return filter
 - One-touch idle
 - Changeable 2-speed-travel
 - Rotational ABS
 - Safety equipment
 - Rear-view mirror
 - Gate lock lever
 - Emergency escape hammer
 - Seat belt
 - Cab-top headlight
 - Travel alarm
- Theft prevention dog-chain
- Boom holding valve
- Engine emergency stop switch
- Cab/interior equipment
 - KAB seat
 - Large-size rounded cab
 - Fluid mount
 - Air conditioner
 - Defroster
 - Automatic lock for front facing window
 - Automatic point wiper
- connector
- Intermittent wiper with washer
- Reclining seat
- Cup holder
- Ashtray
- Room lamp
- Hat hook
- AM/FM Radio
- Others
 - Engine that complies with tear-3 exhaust emissions regulations

■ Optional equipment

- EMS (Easy Maintenance System)
- Long life hydraulic fluid
- Front-face protective net for radiator
- Aluminum radiator
- Aluminum oil cooler
- Tool kit
- Grease gun
- Fuel filter
- Double-element air cleaner
- Quick change 4way (Kit)
- Travel pedal

■ Working Range



■ Working Range

	SH75X-3B	
Arm length	1.71m	2.12m
A Max. digging radius	6520mm	6900mm
B Max. digging depth	4140mm	4540mm
C Max. digging height	7330mm	7620mm
D Max. dumping height	5250mm	5540mm
E Max. vertical wall cut depth	3640mm	4100mm
F Min. front swing radius	1785mm	2085mm
G Rear end swing radius	1235mm	
H Max. lift above ground	415mm	
I Min. drop below ground	205mm	

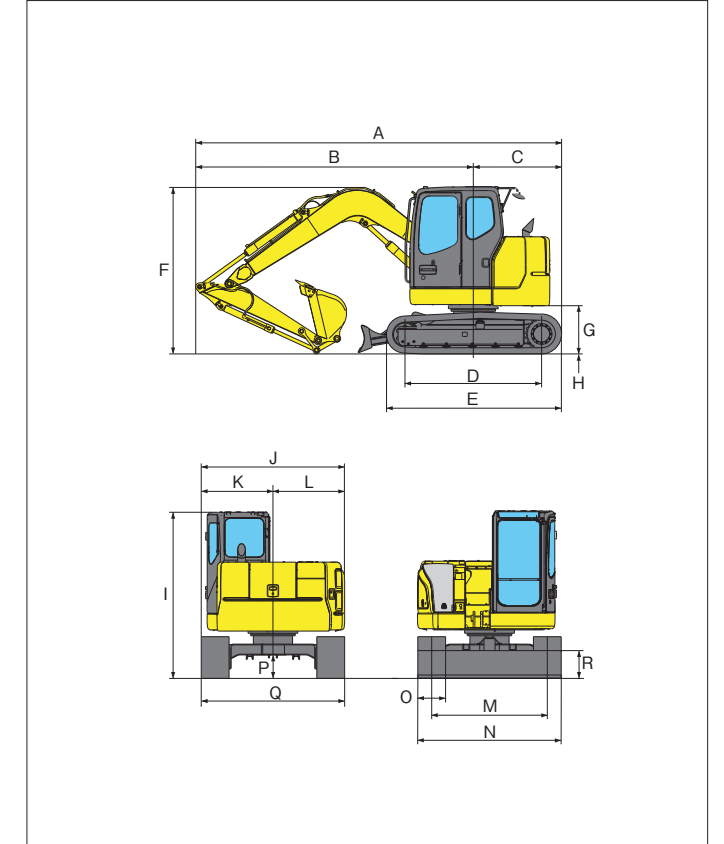
■ Principal specifications

	SH75X-3B	
	STD Specifications	
Engine	Arm length	1.71m
	Bucket capacity (ISO heaped)	0.28m³
	Std. Operating weight	7920kg
	Make & model	ISUZU AU-4LE2X
Hydraulic System	Rated output	40.0kw/2000min⁻¹
	Displacement	2179ml(cc)
	Main pump	2 variable displacement axial piston pumps
Performance	Max pressure	29.4Mpa
	Travel motor	Variable displacement axial piston motor
	Parking brake type	Mechanical disc brake
Others	Swing motor	Fixed displacement axial piston motor
	Travel speed	5.1/3.3km/h
	Drawbar pull	59kN
	Grade ability	70% <35°>
	Ground pressure	35kPa
	Swing speed	9.5min⁻¹
Bucket	Bucket	57kN
	Arm	38kN
	Fuel tank	100liter
Hydraulic fluid tank		97liter

■ Weight & Ground pressure

Model	SH75X-3B			
Shoe type	Shoe width	Overall width	Operating weight	Ground pressure
Triple grouser shoe	450mm	2320mm	7920kg	35kPa
	600mm	2470mm	8030kg	27kPa

■ Dimensions



■ Dimensions

	SH75X-3B	
Arm length	1.71m	2.12m
A Overall length	5915mm	5910mm
B Length from center of machine (to arm top)	4492mm	4487mm
C Length from center of machine (to shoe top)	1425mm	
D Center to center of wheels	2210mm	
E Overall track length	2845mm	
F Overall height	2695mm	2950mm
G Clearance height under upper structure	745mm	
H Shoe lug height	20mm	
I Cab height	2700mm	
J Upper structure overall width	2225mm	
K Width from center of machine (left side)	1065mm	
L Width from center of machine (right side)	1160mm	
M Track gauge	1870mm	
N Overall track width with 450mm	2320mm	
O Std. Shoe width	450mm	
P Minimum ground clearance	360mm	
Q Width of blade	2320mm	
R Height of blade	450mm	

■ Bucket

Model	SH75X-3B				
Bucket capacity (ISO/SAE/PCSA heaped)	0.11m³	0.17m³	0.22m³	0.28m³	0.34m³
Bucket capacity (CECE heaped)	0.10m³	0.15m³	0.19m³	0.24m³	0.30m³
Bucket type	STD	STD	STD	STD	STD
No. of tooth	3	3	4	4	4
Width	With side cutter	-	673mm	804mm	945mm
	Without side cutter	370mm	480mm	600mm	730mm
Weight		136kg	161kg	178kg	204kg
					227kg
	1.71m arm	○	○	○	●
	2.12m arm	○	○	●	△

- : Suitable for materials with density up to 2000kg/m³ or less
- : Standard bucket (Suitable for materials with density up to 1800kg/m³ or less)
- : Suitable for materials with density up to 1600kg/m³ or less
- △: Suitable for materials with density up to 1200kg/m³ or less
- ×: Not available