

SUMITOMO

SH 225X

MINIMUM SWING RADIUS

LEGEST



●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
MANUFACTURING CO., LTD.

731-1 Naganumahara-cho, Inage-ku,
Chiba, 263-0001 Japan
For further information please contact:
Phone : +81-43-420-1796
Facsimile : +81-43-420-1907

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 design and manufacturing is the best especially for industrial products. The hydraulic excavator is not the exception when a total integration concept is required in design work involving key components, manufacturing engineering and product quality assurance in the factory.

All SUMITOMO hydraulic excavators are engineered and assembled in SUMITOMO's 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.)



LEGEST
SH 225X

Minimum Swing Radius

In addition to boasting top-class compact rotational capability for cramped areas, outstanding stability, and powerful digging and drive strength have been realized. On various kinds of work-sites it can always be trusted to perform and maneuver exactly as the operator intends.



SPACE5

SUMITOMO Powerful And Clean Engine System

1 Powerful 2 Economy 3 Clean 4 Silent 5 Strong

High-level operational performance and environmental soundness have been simultaneously achieved. The new-type "SPACE 5" engine system meets the newly enacted Japanese Off-road machinery regulation (Law on Regulation of Special Motor Vehicle Exhaust)

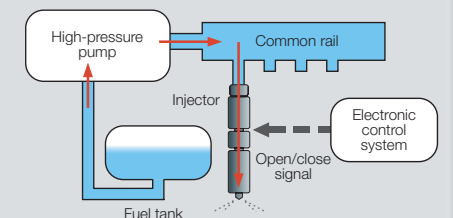
Clearing the Non-road Special Motor Vehicle Exhaust Emission Standard



"Achieving an exceptionally high standard for the 5 major qualities required of construction machinery", that is the solution provided by the SPACE5 engine that will meet the demands of the next generation.

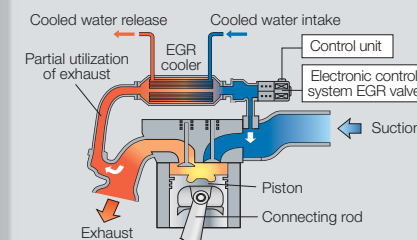
Common rail fuel injection system

The super-high-pressure common rail fuel injection system realizes super-high-pressure, high-precision multiple-injections. Timing and volume of fuel injection is controlled, which improves consumption efficiency, and PM (particulate matter) is greatly reduced.



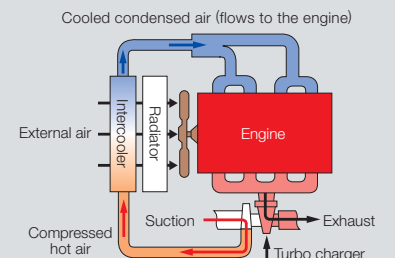
Cooled EGR system

Exhaust gas is re-circulated and combustion temperature lowered by the EGR (Exhaust Gas Recirculation) engine. In addition, a water-cooled EGR system has been employed, which further efficiently reduces NOx (nitrogen oxide).



4-valve OHC turbo engine with intercooler

Air intake efficiency is improved by the intercooler. It cools air taken in, which has been heated by the compression of the turbo charger. In addition to a great reduction of NOx and PM, high output and improved fuel consumption have been realized.



● Performance capacity **UP 5%**

(As compared with SH200-5 in H-mode)

● Standard output **UP 11%**
114.4kW/1800min⁻¹

Diversified operational field

Road works

Forest road works

Demolition works

Improvements to precision maneuverability

Precision maneuverability that functions exactly as the operator intends has been made possible through the employment of a new type of rotational bearing.

Rotational ABS

A rotation shock-absorber device has been installed to soften jolts that occur when the vehicle halts rotation. This is particularly useful for pinpointing position, and preventing spillages during manual operation.

Employment of speed assisted mechanics

Through employing an oil return system in the arm and boom, speed assisted operations for digging, as well as fuel consumption, have been improved.

280mm
Excess cab width

2800mm
Track width

280mm
Excess rear width

2300mm
(SH200-s:3600mm)
(SH130-s:2340mm)

Minimum front swing radius

Tail swing radius

1680mm
(SH200-s:2750mm)
(SH130-s:2130mm)

Precision movement and secure operational control, "front and back", with a rounded body-form that minimizes excess width

Excess of full rear rotational radius

1070mm

SH200-s

SH130-s

Excess of full rear rotational radius

450mm

Width
3980mm

Maintenance

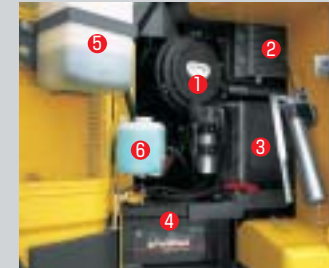
Diverse innovations designed to reduce running costs and make maintenance easy. In terms of both cost and labor, you will really come to appreciate its efficiency the longer you use it.



Ground Level Access

Various parts of the excavator can now be cleaned and changed from ground level without climbing onto the body of the vehicle. Maintenance is no longer troublesome.

- ① Double element air cleaner
- ② Fuel cooler
- ③ Condenser
- ④ Battery (maintenance free)
- ⑤ Reserve tank
- ⑥ Washer tank



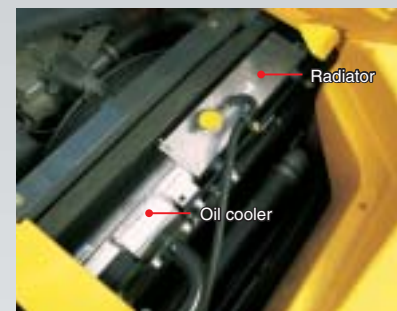
Fuel, oil filter remote

Thanks to the installation of a fuel pre-filter as standard, breakdowns caused by fuel blockages are reduced. In addition, because the fuel and oil filters are installed in positions that can be accessed from ground level, changing them is made simple.

- ① Fuel pre-filter (with water separator)
- ② Fuel filter (with water separator)
- ③ Oil filter



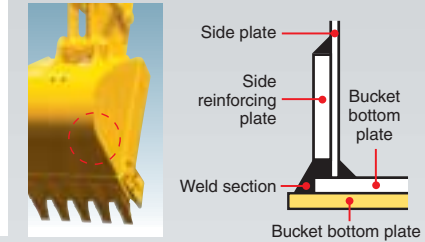
Ease of cleaning around radiator



Bucket

A one piece wear plate covers the weldment area to increase the wear life of the bucket.

■ Cross section
Protection of weld bottom plate and flattening of bottom plate by changing the bottom plate weld structure.



New-type track guard to prevent wheel loosening

A new-type of track guard has been employed. This is effective in protecting the roller and preventing the shoe from coming loose.



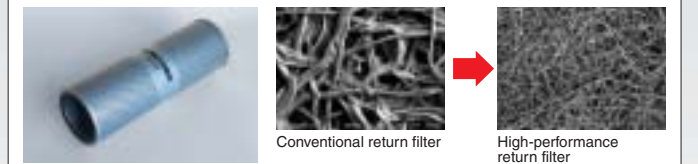
High-Performance Return Filter

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

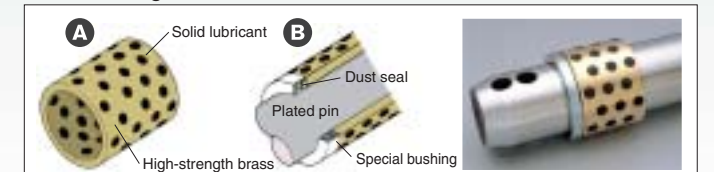
The interval of greasing around the bucket is 250 hours, and the interval for the other sections is 1,000 hours, keeping the joints lubricated for a long time and extending the service life of parts by reducing abrasion and rattling.



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

※The greasing interval depends on the working conditions.

EMS bushing



- ① 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.
- ② 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 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.

Operation mode-change switch



The customer can easily switch between N Mode, which maximizes operational capacity, and E Mode, which prioritizes fuel economy, as required.

Fuel consumption rate
Improved by approximately
7%
(when in N Mode)

Cycle time
Reduced by approximately
5%
(when in N Mode)

Engine Oil Drain Coupler

The engine oil pan is provided with a drain coupler. This makes it easier to do drain work and prevents oil from spattering because of the attached drain hose.



Operator Comfort and Safety

How safely, and in what level of comfort can the driver carry out daily operations?
We have extended every possible care and attention to ensure that both safety and comfort are provided.



Comfortable and spacious cab

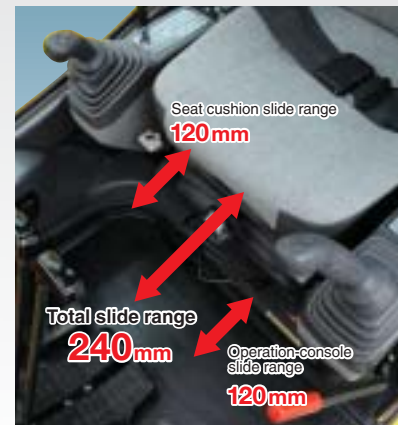
Spacious foot space



Floor design allows easy access to and from cab



Full operation-console slide adjustment (Reclining seat)



Air conditioner installed as standard

An air conditioner is fitted as standard. Front facing airflow vents and a defrosting function allow a pleasant work environment to be maintained.

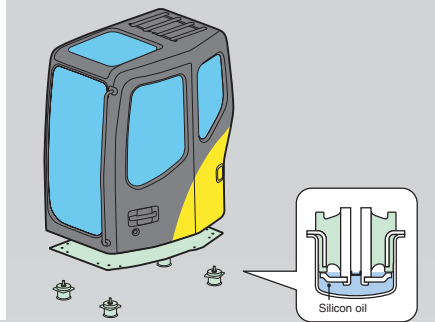


Slide-door windows



Employment of fluid-mount suspension to reduce fatigue

Impacts and vibrations on the cab are effectively absorbed, providing a pleasant and comfortable ride, as well as reducing noise levels inside the cab. Operator fatigue is reduced.



AM/FM radio



Stereo speakers

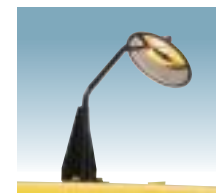
Gate-type lock lever on the operation lever to prevent operational errors



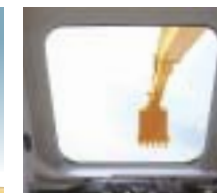
Large hand rail on front right side



Emergency escape hammer



Reversing rear-view mirror



Cab roof window



Membrane switch



Emergency stop switch



Defroster/Cup holder

■ Lifting Capacity

ARM : STD ARM
SHOE : 600G
BUCKET : 0.8m3

ARM LENGTH = 3.00 (m)
MAXIMUM REACH = 8.87 (m)
TIPPING CAPACITY (MARK :) = 75.0 (%)
HYDRAULIC CAPACITY (MARK :*) = 87.0 (%)

Bucket Hook Height		Radius of Load										
		Max.Radius	8m	7m	6m	5m	4m	3m	2m	Min.Radius		
7m	We	4640*	5.69							4770*	5.08	
	Ws	4640*	5.69							4770*	5.08	
6m	We	3730*	7.37	4280*	4950*	5040*				5050*	4.82	
	Ws	2880	7.37	3190	4250	5040*				5050*	4.82	
5m	We	2570*	8.29	3460*	5000*	5280*	5590*			5600*	4.2	
	Ws	2230	8.29	2410	3130	4130	5590*			5600*	4.2	
4m	We	2570*	8.61	3870	4900	5770*	6380*	7310*	8370*	8520*	2.77	
	Ws	2030	8.61	2360	3030	3970	5390	7310*	8370*	8520*	2.77	
3m	We	2660*	8.8	3800	4770	6160	7320*	8910*	11980*	9030*	2.15	
	Ws	1900	8.8	2290	2910	3780	5080	7250	11650	9030*	2.15	
2m	We	2790*	8.87	3710	4630	5940	8000	10460*	11400*	4510*	2.43	
	Ws	1820	8.87	2210	2790	3580	4760	6680	10440	4510*	2.43	
1m	We	2990*	8.83	3630	4500	5740	7690	11200	7850*	3390*	2.28	
	Ws	1790	8.83	2140	2670	3410	4480	6240	7850*	3390*	2.28	
0	We	3140	8.67	3570	4400	5590	7450	10860	8180*	4200*	3540*	1.69
	Ws	1810	8.67	2080	2580	3270	4280	5960	8180*	4200*	3310*	1.54
-1m	We	3280	8.4	3530	4320	5480	7310	10690	9700*	6220*	5640*	1.69
	Ws	1890	8.4	2040	2510	3170	4160	5820	9310	6220*	5110*	1.19
-2m	We	3540	7.98	4290	5430	7250	10640	11920*	8380*	7760*	1.69	
	Ws	2040	7.98	2480	3120	4100	5770	9340	8380*	7090*	1.19	
-3m	We	3970	7.41	4310	5430	7260	10680	14070*	10830*	10080*	1.69	
	Ws	2310	7.41	2500	3130	4110	5810	9450	10830*	9230*	1.19	
-4m	We	4740	6.64	5510	7340	9750*	12240*	13770*	12810*	1.69		
	Ws	2770	6.64	3200	4180	5920	9640	13770*	11670*	1.19		
-5m	We	5230*	5.59	6200*	7800*	9660*	12260*	13430*	1.69			
	Ws	3700	5.59	4340	6110	9660*	12260*	13550*	1.66			

WE : OVER END WS : OVER SIDE

ARM LENGTH = 3.00 (m)
MAXIMUM REACH = 8.87 (m)
TIPPING CAPACITY (MARK :) = 75.0 (%)
HYDRAULIC CAPACITY (MARK :*) = 87.0 (%)

Bucket Hook Height		Radius of Load										
		Max.Radius	8m	7m	6m	5m	4m	3m	2m	Min.Radius		
7m	We	4640*	5.69							4770*	5.08	
	Ws	4640*	5.69							4770*	5.08	
6m	We	3730*	7.37	4280*	4950*	5040*				5050*	4.82	
	Ws	3080	7.37	3410	4510	5040*				5050*	4.82	
5m	We	2570*	8.29	3460*	5000*	5280*	5590*			5600*	4.2	
	Ws	2410	8.29	2590	3350	4390	5590*			5600*	4.2	
4m	We	2570*	8.61	3980	5020	5770*	6380*	7310*	8370*	8520*	2.77	
	Ws	2200	8.61	2540	3250	4230	5720	7310*	8370*	8520*	2.77	
3m	We	2660*	8.8	3900	4890	6310	7320*	8910*	11980*	9030*	2.15	
	Ws	2060	8.8	2470	3130	4040	5410	7690	11980*	9030*	2.15	
2m	We	2790*	8.87	3820	4750	6090	8200	10460*	11400*	4510*	2.43	
	Ws	1980	8.87	2400	3000	3840	5090	7130	11130	4510*	2.43	
1m	We	2990*	8.83	3740	4620	5890	7880	11480	7850*	3390*	2.28	
	Ws	1960	8.83	2320	2890	3670	4810	6680	7850*	3390*	2.28	
0	We	3240	8.67	3670	4520	5740	7650	11140	8180*	4200*	3540*	1.69
	Ws	1980	8.67	2260	2790	3530	4610	6400	8180*	4200*	3310*	1.54
-1m	We	3380	8.4	3630	4450	5630	7510	10970	9700*	6220*	5640*	1.69
	Ws	2070	8.4	2220	2730	3430	4480	6260	9700*	6220*	5110*	1.19
-2m	We	3640	7.98	4420	5580	7440	10920	11920*	8380*	7760*	1.69	
	Ws	2230	7.98	2700	3390	4430	6220	10030	8380*	7090*	1.19	
-3m	We	4090	7.41	4430	5580	7440	10960	14070*	10830*	10080*	1.69	
	Ws	2510	7.41	2710	3390	4440	6250	10140	10830*	9230*	1.19	
-4m	We	4870	6.64	5660	7500	9750*	12240*	13770*	12810*	1.69		
	Ws	3000	6.64	3460	4510	6360	10330	13770*	11670*	1.19		
-5m	We	5230*	5.59	6200*	7800*	9660*	12260*	13430*	1.69			
	Ws	3980	5.59	4670	6560	9660*	12260*	13550*	1.66			

WE : OVER END WS : OVER SIDE

ARM LENGTH = 3.00 (m)
MAXIMUM REACH = 8.87 (m)
TIPPING CAPACITY (MARK :) = 75.0 (%)
HYDRAULIC CAPACITY (MARK :*) = 87.0 (%)

Bucket Hook Height		Radius of Load										
		Max.Radius	8m	7m	6m	5m	4m	3m	2m	Min.Radius		
7m	We	4640*	5.69							4770*	5.08	
	Ws	4640*	5.69							4770*	5.08	
6m	We	3730*	7.37	4280*	4950*	5040*				5050*	4.82	
	Ws	3150	7.37	3470	4590	5040*				5050*	4.82	
5m	We	2570*	8.29	3460*	5000*	5280*	5590*			5600*	4.2	
	Ws	2470	8.29	2650	3410	4470	5590*			5600*	4.2	
4m	We	2570*	8.61	4060	5120	5770*	6380*	7310*	8370*	8520*	2.77	
	Ws	2250	8.61	2600	3320	4310	5820	7310*	8370*	8520*	2.77	
3m	We	2660*	8.8	3990	4990	6350*	7320*	8910*	11980*	9030*	2.15	
	Ws	2110	8.8	2530	3200	4120	5510	7830	11980*	9030*	2.15	
2m	We	2790*	8.87	3900	4850	6220	8240*	10460*	11400*	4510*	2.43	
	Ws	2030	8.87	2450	3070	3920	5190	7260	11340	4510*	2.43	
1m	We	2990*	8.83	3820	4730	6020	8050	11580*	7850*	3390*	2.28	
	Ws	2010	8.83	2380	2950	3750	4910	6820	7850*	3390*	2.28	
0	We	3260*	8.67	3760	4620	5860	7810	11380	8180*	4200*	3540*	1.69
	Ws	2030	8.67	2320	2860	3610	4710	6540	8180*	4200*	3310*	1.54
-1m	We	3460	8.4	3720	4550	5760	7670	11210	9700*	6220*	5640*	1.69
	Ws	2120	8.4	2280	2790	3510	4590	6400	9700*	6220*	5110*	1.19
-2m	We	3730	7.98	4520	5710	7610	11160	11920*	8380*	7760*	1.69	
	Ws	2290	7.98	2760	3470	4530	6360	10240	8380*	7090*	1.19	
-3m	We	4180	7.41	4540	5710	7620	11030*	14070*	10830*	10080*	1.69	
	Ws	2570	7.41	2780	3470	4540	6390	10350	10830*	9230*	1.19	
-4m	We	4980	6.64	5780	7700	9750*	12240*	13770*	12810*	1.69		
	Ws	3070	6.64	3540	4610	6500	10550	13770*	11670*	1.19		
-5m	We	5230*	5.59	6200*	7800*	9660*	12260*	13430*	1.69			
	Ws	4070	5.59	4770	6690	9660*	12260*	13550*	1.66			

WE : OVER END WS : OVER SIDE

ARM : STD ARM
SHOE : 700G
BUCKET : 0.8m3

ARM LENGTH = 3.00 (m)
MAXIMUM REACH = 8.87 (m)
TIPPING CAPACITY (MARK :) = 75.0 (%)
HYDRAULIC CAPACITY (MARK :*) = 87.0 (%)

Bucket Hook Height		Radius of Load										
		Max.Radius	8m	7m	6m	5m	4m	3m	2m	Min.Radius		
7m	We	4640*	5.69							4770*	5.08	
	Ws	4640*	5.69							4770*	5.08	
6m	We	3730*	7.37	4280*	4950*	5040*				5050*	4.82	
	Ws	2940	7.37	3260	4330	5040*				5050*	4.82	
5m	We	2570*	8.29	3460*	5000*	5280*	5590*			5600*	4.2	
	Ws	2290	8.29	2470	3200	4210	5590*			5600*	4.2	
4m	We	2570*	8.61	3960	5000	5770*	6380*	7310*	8370*	8520*	2.77	
	Ws	2080	8.61	2420	3100	4050	5500	7310*	8370*	8520*	2.77	
3m	We	2660*	8.8	3880	4870	6290	7320*	8910*	11980*	9030*	2.15	
	Ws	1950	8.8	2350	2980	3860	5180	7390	11870	9030*	2.15	
2m	We	2790*	8.87	3800	4730	6070	8170	10460*	11400*	4510*	2.43	
	Ws	1870	8.87	2270	2860	3660	4860	6820	10650	4510*	2.43	
1m	We	2990*	8.83	3720	4600	5870	7850	11440	7850*	3390*	2.28	
	Ws	1840	8.83	2190	2740	3490	4580	6370	7850*	3390*	2.28	
0	We	3220	8.67	3660	4500	5710	7620	11100	8180*	4200*	3540*	1.69
	Ws	1870	8.67	2130	2640	3350	4380	6090	8180*	4200*	3310*	1.54
-1m	We	3360	8.4	3620	4430	5610	7480	10930	9700*	6220*	5640*	1.69
	Ws	1950	8.4	2100	2580	3250	4260	5950	9530	6220*	5110*	1.19
-2m	We	3620	7.98	4400	5560	7410	10870	11920*	8380*	7760*	1.69	
	Ws	2100	7.98	2550	3210	4200	5910	9550	8380*	7090*	1.19	
-3m	We	4070	7.41	4410	5560	7420	10920	14070*	10830*	10080*	1.69	
	Ws	2370	7.41	2570	3210	4210	5950	9660	10830*	9230*	1.19	
-4m	We	4850	6.64	5630	7510	9750*	12240*	13770*	12810*	1.69		
	Ws	2840	6.64	3280	4280	6050	9660	13770*	11670*	1.19		
-5m	We	5230*	5.59	6200*	7800*	9660*	12260*	13430*	1.69			
	Ws	3780	5.59	4440	6250	9660*	12260*	13550*	1.66			

WE : OVER END WS : OVER SIDE

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HYDRAULIC CAPACITY (MARK :*) = 87.0 (%)

Bucket Hook Height		Radius of Load									
		Max.Radius	8m	7m	6m	5m	4m	3m	2m	Min.Radius	
7m	We	4640*	5.69							4770*	5.08
	Ws	4640*	5.69							4770*	5.08
6m	We	3730*	7.3								