# SUMITOMO



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# **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.



# **Compact Swing Radius and Swing Boom Design**

Because of compact-swing and swing-boom design, an operator can concentrate on the work at hand. The swing-boom can be positioned anywhere within a 130 degree arc.

These design not only provides greater versatility and capability to work within confined areas, but also achieve more excellent stability in digging and driving.

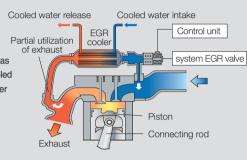


# Clearing the Non-road Special Motor Vehicle Exhaust Emission Standard



# Cooled EGR system

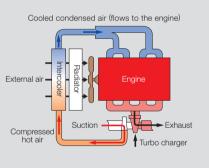
Exhaust gas is re-circulated and combustion temperature lowered by the EGR (Exhaust Gas Recirculation) engine. In addition, a water-cooled EGR system has been employed, which further efficiently reduces NOx (nitrogen oxide).



# 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.



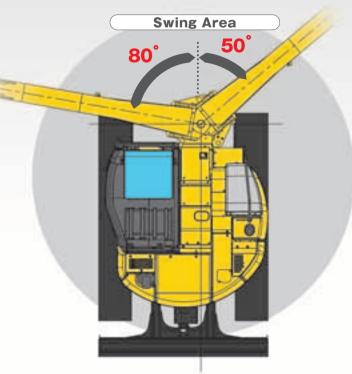
# Bucket digging capacity capacity Diversified operational field Road works Forest road works Demolition works

# **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.



# **Maintenance**



### **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.



- Condenser
- 8 Battery (maintenance free)

1 Double element air cleaner

4 Reserve tank



# •Fuel and oil filters

The fuel and oil filters are installed in positions that can be accessed from ground level, so replacing them is made simple.

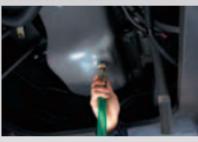
- Water separator
- Puel filter Oil filter

# Ease of cleaning around radiator



# **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.



# **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.

# **EMS (Easy Maintenance System)** as Standard

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.

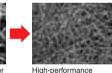


- Sections equipped with EMS bushing
- Sections equipped with steel

The High-Performance Return Filter is made more precisely to condense the Nephron filter function

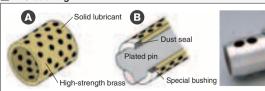






# • Greasing interval for EMS: 1,000 hours

\*The greasing interval depends on the working conditions.



- 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.
- 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.

# **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

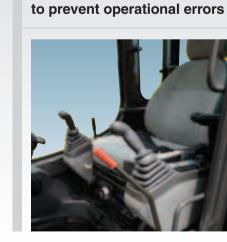




Full operation-console slide adjustment (Reclining seat)



Gate-type lock lever on the operation lever



# Air conditioner installed as standard

An air conditioner is fitted as standard. Front facing airflow vents and a defrosting function allow a



Slide-door windows







**Employment of fluid-mount** 

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

suspension to reduce fatigue

# Cab side light







Cab roof window



Membrane switch



Emergency stop switch



# ■Lifting Capacity

ARM LENGTH = 1.71 (m)
MAXIMUM REACH = 6.01 (m)
TIPPING CAPACITY (MARK: ) = 75.0 (%)
HYDRAULIC CAPACITY (MARK:\*) = 87.0 (%) BLADE : UP ARM : STD ARM SHOE: 450G BUCKET: 0.28BUCKET

Bucket Hook		Radius of Load								
	ight	Max.Radius		5m	4m	3m	2m	Min.R	adius	
5m	We	1380*	4.39					1330*	4.24	
5m	Ws	1380*	4.39					1330*	4.24	
4	We	1510	5.23	1490*				1350*	4.2	
4m	Ws	1370	5.23	1480				1350*	4.2	
0	We	1280	5.72	1600	1720*			1770*	3.5	
3m	Ws	1150	5.72	1440	1720*			1770*	3.5	
	We	1170	5.96	1550	2190	3460		3200*	2.52	
2m	Ws	1050	5.96	1390	1960	3030		3200*	2.52	
	We	1130	6	1490	2080	3210		1830*	2.64	
1m	Ws	1010	6	1330	1850	2800		1830*	2.64	
0	We	1150	5.83	1440	2010	3130		2300*	2.12	
0	Ws	1030	5.83	1290	1780	2730		2300*	2.12	
4	We	1260	5.43	1420	1980	3120	3310*	3340*	1.27	
-1m	Ws	1130	5.43	1270	1750	2720	3310*	3340*	1.27	
2m	We	1550	4.74		1990	3160	4880*	4220*	1.3	
-2m	Ws	1380	4.74		1760	2750	4880*	4220*	1.3	
0	We	2510	3.5			3230	6900*	6870*	1.99	
-3m	Ws	2220	3.5			2820	5900	5980	1.99	

WE: OVER END WS: OVER SIDE

BLADE : DOWN ARM : STD ARM ARM LENGTH = 1.71 (m) MAXIMUM REACH = 6.01 (m) TIPPING CAPACITY (MARK: ) = 75.0 (%)
HYDRAULIC CAPACITY (MARK:\*) = 87.0 (%) SHOE: 450G BUCKET: 0.28BUCKET

Bucket Hook Height		Radius of Load								
		Max.Radius		5m	4m	3m	2m	2m Min.Radi		
5m	We	1380*	4.39					1330*	4.24	
	Ws	1380*	4.39					1330*	4.24	
4	We	1540*	5.23	1490*				1350*	4.2	
4m	Ws	1370	5.23	1480				1350*	4.2	
0	We	1670*	5.72	1660*	1720*			1770*	3.5	
3m	Ws	1150	5.72	1440	1720*			1770*	3.5	
•	We	1810*	5.96	1970*	2390*	3600*		3200*	2.52	
2m	Ws	1050	5.96	1390	1960	3030		3200*	2.52	
	We	1980*	6	2320*	3070*	3850*		1830*	2.64	
1m	Ws	1010	6	1330	1850	2800		1830*	2.64	
	We	2170*	5.83	2590*	3530*	4060*		2300*	2.12	
0	Ws	1030	5.83	1290	1780	2730		2300*	2.12	
	We	2430*	5.43	2710*	3700*	5480*	3310*	3200*	1.85	
-1m	Ws	1130	5.43	1270	1750	2720	3310*	3340*	1.27	
	We	2790*	4.74		3550*	5250*	4880*	4690*	1.85	
-2m	Ws	1380	4.74		1760	2750	4880*	4220*	1.3	
	We	3480*	3.5			4270*	6900*	6870*	1.99	
-3m	Ws	2220	3.5			2820	5900	5980	1.99	

WE : OVER END WS : OVER SIDE

BLADE : UP ARM : LONG ARM SHOE: 450G BUCKET: 0.22BUCKET

ARM LENGTH = 2.12 (m) MAXIMUM REACH = 6.40 (m) TIPPING CAPACITY (MARK: ) = 75.0 (%) HYDRAULIC CAPACITY (MARK:\*) = 87.0 (%)

ARM LENGTH = 2.12 (m) BLADE : DOWN ARM:LONG ARM MAXIMUM REACH = 6.40 (m) TIPPING CAPACITY (MARK: ) = 75.0 (%) HYDRAULIC CAPACITY (MARK:\*) = 87.0 (%) SHOE: 450G BUCKET: 0.22BUCKET

Bucket Hook Height		Radius of Load										
		Max.Radius		6m	n 5m 4m		3m	2m	Min.R	adius		
5m	We	1240*	4.95						1140*	4.66		
5M	Ws	1240*	4.95						1140*	4.66		
	We	1320	5.69		1230*				1140*	4.62		
4m	Ws	1190	5.69		1230*				1140*	4.62		
3m	We	1140	6.14	1190	1420*				1370*	4.1		
	Ws	1030	6.14	1070	1420*				1370*	4.1		
2m	We	1050	6.36	1160	1560	2030*	2790*		4190*	2.39		
	Ws	940	6.36	1040	1400	1990	2790*		4190*	2.39		
4	We	1010	6.39	1120	1490	2090	3270		2180*	2.51		
1m	Ws	910	6.39	1010	1340	1860	2850		2180*	2.51		
_	We	1030	6.24	1090	1440	2000	3130	1710*	1540*	1.77		
0	Ws	920	6.24	980	1280	1780	2720	1710*	1540*	1.77		
	We	1110	5.88		1410	1960	3090	2830*	2430*	1.11		
-1m	Ws	990	5.88		1250	1730	2680	2830*				
0	We	1310	5.25		1400	1950	3100	4130*	3400*	1.11		
-2m	Ws	1170	5.25		1250	1730	2700	4130*				
	We	1840	4.22			1990	3160	5830*	4860*	1.4		
-3m	Ws	1630	4.22			1760	2750	5760	4860*	1.4		

· Cab-top headlight

· Boom holding valve

· Theft prevention dog-chain

Engine emergency stop

Cab/interior equipment

· Large-size rounded cab · Fluid mount

Travel alarm

· KAB seat

WE: OVER END WS: OVER SIDE

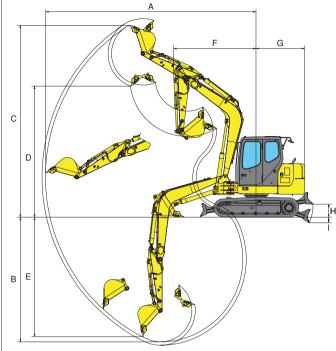
Bucket Radius of Load										
Hook Height		Max.Radius		6m	5m	5m 4m 3m 2m		Min.R	Min.Radius	
5m	We	1240*	4.95						1140*	4.66
	Ws	1240*	4.95						1140*	4.66
4	We	1380*	5.69		1230*				1140*	4.62
4m	Ws	1190	5.69		1230*				1140*	4.62
0	We	1500*	6.14	1480*	1420*				1370*	4.1
3m	Ws	1030	6.14	1070	1420*				1370*	4.1
0	We	1600*	6.36	1640*	1750*	2030*	2790*		4190*	2.39
2m	Ws	940	6.36	1040	1400	1990	2790*		4190*	2.39
	We	1770*	6.39	1840*	2130*	2780*	4520*		2180*	2.51
1m	Ws	910	6.39	1010	1340	1860	2850		2180*	2.51
_	We	1940*	6.24	2020*	2460*	3350*	4170*	1710*	1590*	1.85
0	Ws	920	6.24	980	1280	1780	2720	1710*	1540*	1.77
4	We	2160*	5.88		2660*	3630*	5010*	2830*	2700*	1.85
-1 m	Ws	990	5.88		1250	1730	2680	2830*		
0	We	2460*	5.25		2650*	3630*	5450*	4130*	3940*	1.85
-2m	Ws	1170	5.25		1250	1730	2700	4130*		
0	We	2960*	4.22			3210*	4770*	5830*	5540*	1.85
-3m	Ws	1630	4.22			1760	2750	5760	4860*	1.4

WE: OVER END WS: OVER SIDE

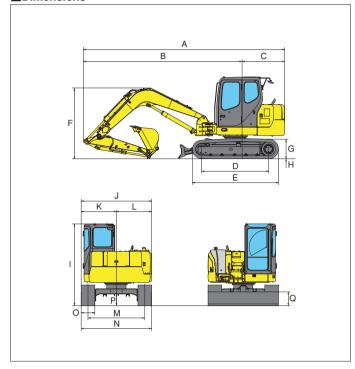
**■**Optional equipment

· Quick change 4way (Kit)

# **■**Working Range



# **■**Dimensions



**■**Working Range

		SH80-3B				
Ar	m length	1.71m	2.12m			
Вс	oom length	3.5	0m			
Α	Max. digging radius	7030mm	7400mm			
В	Max. digging depth	4180mm	4590mm			
С	Max. digging height	6390mm	6600mm			
D	Max. dumping height	4390mm	4600mm			
Е	Max. vertical wall cut depth	3080mm	3550mm			
F	Min. front swing radius	2750mm	2910mm			
G	Rear end swing radius	1655mm				
Н	Max. lift above ground	415mm				
1	Min. drop below ground	205mm				

# ■Principal specifications

		SH80-3B			
		STD Specifications			
	Boom length	3500cm			
Base	Arm length	1.71m			
Base	Bucket capacity (ISO heaped)	0.28m <sup>3</sup>			
	Std. Operating weight	8,430kg			
	Make & model	ISUZU AU-4LE2X			
Engine	Rated output	40.0kw/2000min <sup>-1</sup>			
	Displacement	2179ml(cc)			
	Main pump	2 variable displacement axial piston pumps			
Hydraulic	Max pressure	29.4Mpa			
•	Travel motor	Variable displacement axial piston motor			
System	Parking brake type	Mechanical disc brake			
	Swing motor	Fixed displacement axial piston motor			
	Travel speed	5.1/3.3km/h			
	Drawbar pull	59.2kN(6,037kgf)			
	Grade ability	70% <35°>			
Performance	Ground pressure	38kPa			
	Swing speed	9.5min <sup>-1</sup>			
	Bucket	56.9kN			
	Arm	38.3kN			
	Size (Width×Height)	2,320mm×450mm			
Dozer Blade	Lift above ground	415mm			
	Drop below ground	205mm			
Others	Fuel tank	100liter			
Others	Hydraulic fluid tank	97.3liter			

**■**Dimensions

		SH80-3B				
Arı	m length	1.71m	2.12m			
Α	Overall length	6655mm	6740mm			
В	Length from center of machine (to arm top)	5000mm	5085mm			
С	Upper structure rear end radius	1655	āmm			
D	Center to center of wheels	2210	)mm			
Е	Overall track length	2845	āmm			
F	Overall height	2330mm	2645mm			
G	Clearance height under upper structure	745mm				
Н	Shoe lug height	20mm				
1	Cab height	2700	)mm			
J	Upper structure overall width	2225	5mm			
K	Width from center of machine (left side)	1065	āmm			
L	Width from center of machine (right side)	1160	)mm			
М	Track gauge	1870mm				
Ν	Overall track width	2320	)mm			
0	Std. Shoe width	450mm				
Р	Minimum ground clearance	360	mm			
Q	Height of blade	450	mm			

# Bucket

Mo	odel	SH80-3B						
Bucket capacity (ISO	0.11m <sup>3</sup>	0.17m <sup>3</sup>	0.22m <sup>3</sup>	0.28m <sup>3</sup>	0.34m <sup>3</sup>			
Bucket capacity (C	ECE heaped)	0.1m	0.15m	0.19m	0.24m	0.3m		
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	865mm		
Weight		136kg	161kg	178kg	204kg	227kg		
	1.71m arm	0	0	0	•	0		
	2.12m arm	0	0	•	$\triangle$	×		

©: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

A:Suitable for materials with density up to 1200kg/m³ or less

X:Not available

# ■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 Side hand rail

# · Defroster

· Room lamp

Automatic lock for front facing Others

window · Automatic point wiper connecter

Intermittent wiper with washe Reclining seat Cup holder Ashtray

regulations
Semi-EMS (Semi Easy Maintenance System) Long life hydraulic fluid · Front-face protective net for

Aluminum radiator

radiator

· Engine that complies with

tear-3 exhaust emissions

· AM/FM Radio

· Aluminum oil cooler Tool box

· Grease gun · Double-element air cleaner

· Tool kit

## ■Weight & Ground pressure

—····9···								
Model SH80-3B								
Shoe type	Shoe width	Overall width	Operating weight	Ground pressure				
Triple grouser shoe	450mm	2320mm	8430kg	38kPa				
	600mm	2470mm	8530kg	29kPa				