

SWE 60B

SWE 60B MINI-SIZED EXCAVATOR



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Engine netpower:36.2kW

Machine weight:6180kg

Please read the maunal book and maintenance book before operation, changes are periodically added to the information, and Sunward may change the products or services described in this book at any time without announcement. All rights of this manual book reserve to Sunward. SUNWARD Internal Use Only

SWE EN 2017-8

Powerful Engine

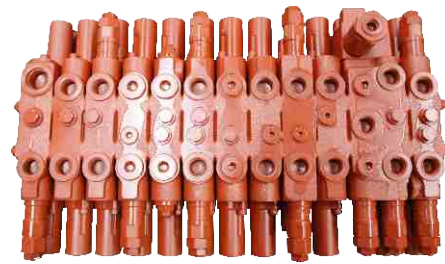
Customized Yanmar direct injection engine, powerful and fuel saving;
Optimized matching between engine and main pump at lower speed, it is more efficient and fuel saving.



Outstanding Performance

Customized main control valve

Customized main control valve, optimized efficiency and fuel consumption, and also the new sunward valve provides an extremely practical mode: levelling mode. Under this mode, the arm circuit is three pump flow converging, thus the levelling efficiency is greatly improved.



Optimised Site Cleaning

The distance between the blade and the bucket at ground has been optimised, it gives easier operation of site cleaning and levelling.



Enhanced Digging Force

The bucket digging force is up to 47kN, it allows operator to work in any tough condition.



Versatility

Two auxiliary circuits

Standard with two auxiliary circuits, the maximum oil flow is up to 100L/min, it allows operator to use most of the attachments.



Comfort

Proportional joystick

Standard with one proportional joystick, convenient thumb-operated switch allows operator to control auxiliary circuits easier.



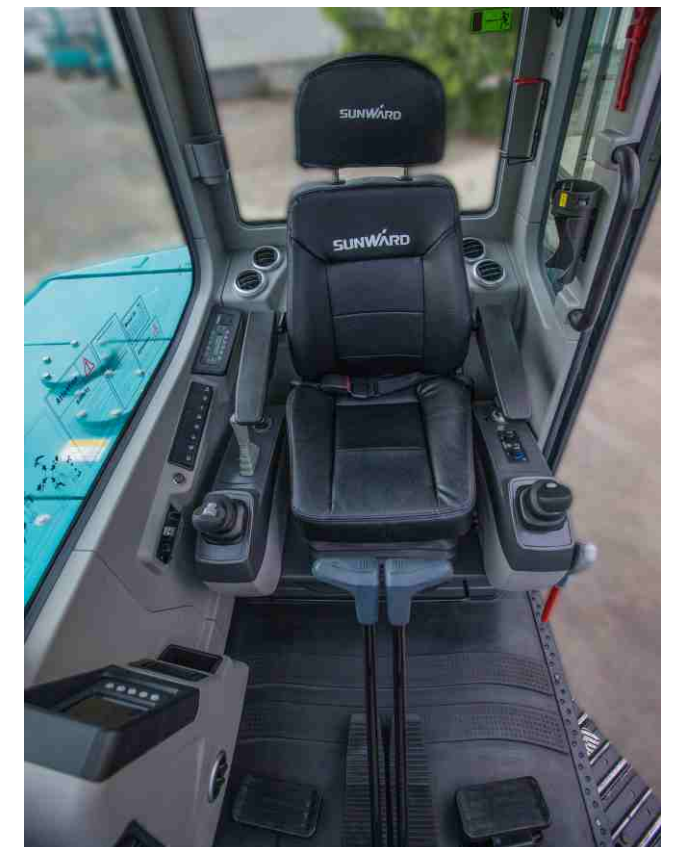
Air Conditioning

Standard with air conditioning, The strong cooling heating system and the positioning of 7 vents around the operator gives all-round comfort.



Suspension Seat

Weight-adjustable full suspension seat, two-stage adjustable and well ergonomically designed, it provides spacious operating space and reduces operator fatigue.



Digital Panel

5.7 inch LCD sunward homemade digital panel, it is user-friendly and easy accessing .You'll always be aware of the machine's functioning status.



Machine status



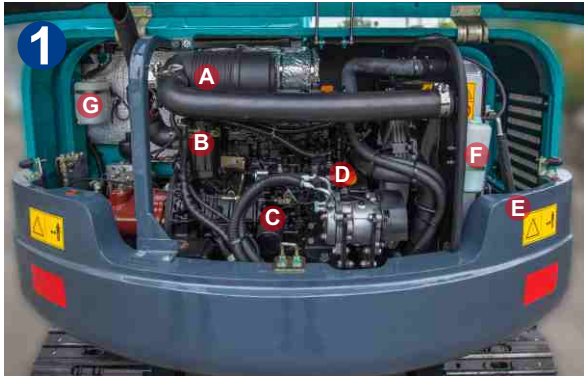
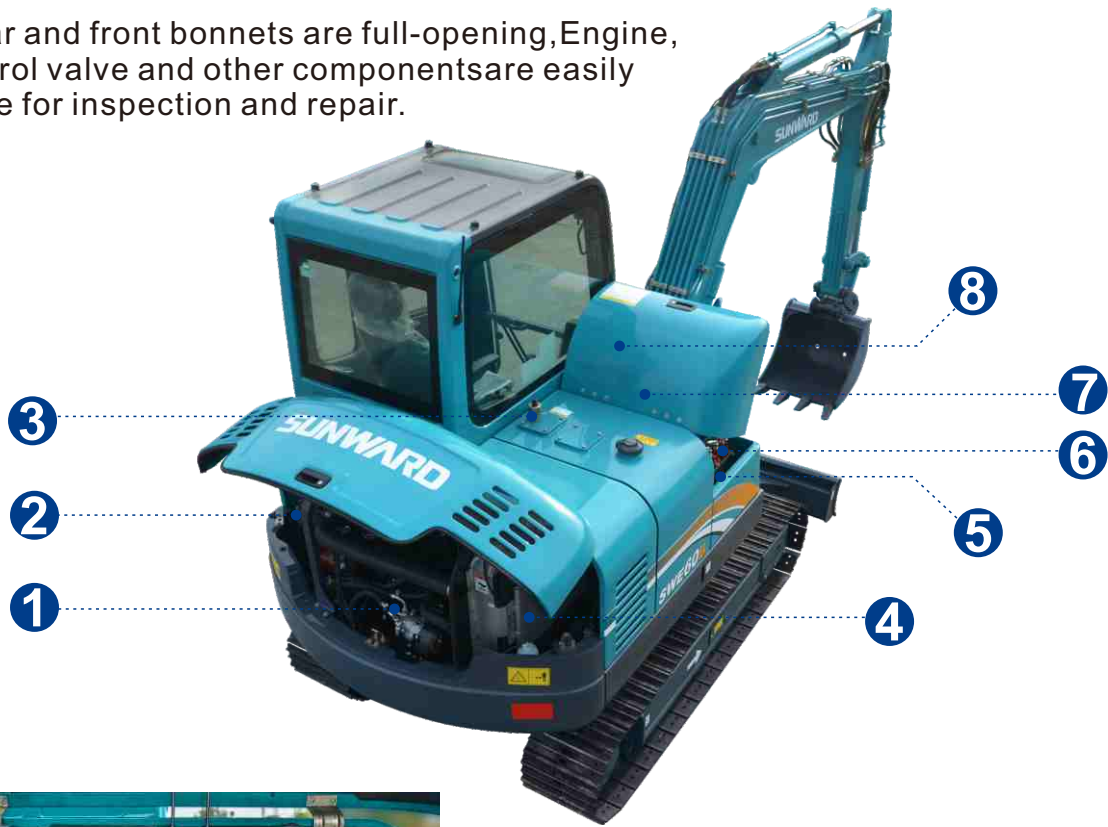
Settings



Maintenance and fault diagnosis

Easy maintenance

As the rear and front bonnets are full-opening,Engine, main control valve and other componentsare easily accessible for inspection and repair.



- A Air filter
- B Fuel filter
- C Oil filter
- D Oil filling port
- E Water separator
- F Expansion tank
- G Window washer



Pilot filter



Breather



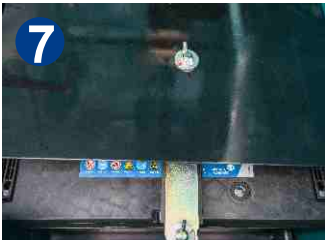
Radiator



Main control valve



Battery switch



Battery



Refuelling pump

Standard Equipment

Engine/Fuel System
• Double-element air filter
• Electric refuel pump
• Water separator with drain cock
Undercarriage
• 400 mm rubber track
• 1 x upper track roller
• 5 double-flange track rollers on each track
• 2-speed travel switch
Hydraulic System
• Hydraulic pressure checking ports
• Straight travel circuit
• Third line hydraulic return
• Double auxiliary circuit for accessories
• Auxiliary switch (SP1) on right joystick
• Auxiliary switch (SP2) on left pedal
Safety System
• Travel motor with disc brake
• Swivel motor with disc brake
• Safety hammer

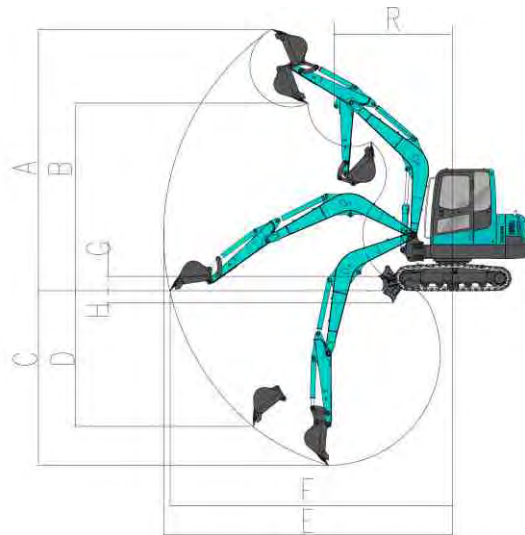
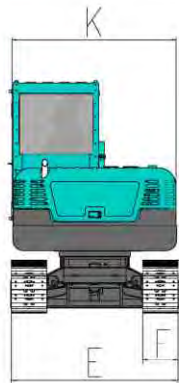
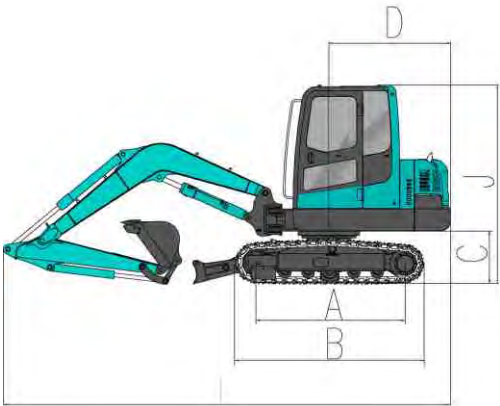
Optional Equipment

Working Equipment
• 1760mm arm
• Mechanical quick coupler
• 300mm bucket
• 1500mm bucket

Cabin
• FOPS,TOPS
• Weight-adjustable full suspension seat
• Seatbelt
• Travel levers with foot pedals
• Right proportional joystick
• Air conditioning
• Cabin heater for defrosting and demisting
• Front window
• 12V power source
• 2 speakers and radio aerial
• Location for radio
• Side mirrors
• Cup holder
Working Equipment
• Auxiliary hydraulic circuits piping to the arm end
• 2 working lights on platform and 1 light on the boom
• 1600mm arm
• 680mm bucket

Undercarriage
• 400 mm steel track
Cabin
• Left proportional joystick

SWE60B Technical Parameters			
Overall(L×W×H)		mm	5875×1900×2615
Dimensions	A Tumbler length	mm	1965
	B Track length	mm	2495
	C Counterweight clearance	mm	700
	D Tail swing radius	mm	1600
	E Track width	mm	1880
	F Track shoe width	mm	400
	G Ground clearance	mm	320
	H Track height	mm	595
	I Shipping length	mm	5875
	J Shipping height	mm	2615
Working range	K Upeerstructure width	mm	1900
	A Maximum dig height	mm	5855
	B Maximum dump clearance	mm	4175
	C Dig depth	mm	3765
	D Vertical wall dig depth	mm	3290
	E Maximum reach	mm	6175
	F Maximum reach at ground level	mm	6040
	G Maximum blade height	mm	445
	H Maximum blade depth	mm	340
	I Swing radius	mm	2480
Weight	J Blade(L×W)	mm	1900X340
	Rubber track	T	6.11
	Steel track	T	6.18
Bucket capacity		m3	0.18
Bucket digging force(ISO)		kN	47
Arm digging force(ISO)		kN	31
Maximum traction		kN	42.1
Boom swing angle		°	R48/L72
Travel speed		km/h	4.74/2.75
Gradeability		°	35
Ground pressure		kPa	35.6
Swing speed		rpm	9.4
Engine	Brand	YANMAR	
	Model	4TNV94L-BVSU	
	Type	4 cylinder,4 stroke,water-cooled	
	Displacement	L	3.054
	Rated power	kW/rpm	36.2/2100
Main pump	Fuel tank capacity	L	113
	Type	2 variable displacement piston pump,1 gear pump	
	Oil flow	L/min	2×59+42
Relief valve pressure		MPa	2×24+21
Hydraulic tank capacity		L	73



Load Capacity:

Lift Point Height	Lift Point Radius(MAX)		Lift Point Radius(5.0m)		Lift Point Radius(4.0m)		Lift Point Radius(3.0m)	
	Over-front(kg)	Over-side(kg)	Over-front(kg)	Over-side(kg)	Over-front(kg)	Over-side(kg)	Over-front(kg)	Over-side(kg)
4.0	885.40*	837.50*	—	—	842.30*	861.40*	—	—
3.0	866.20*	581.70	—	—	885.40*	871.00*	—	—
2.0	832.70*	486.80	—	—	981.10*	697.20	1316.10*	1301.70*
1.0	890.20*	449.70	918.90*	474.50	1115.10*	631.20	1703.70*	969.50
0.0	1186.90*	585.80	1196.40*	614.70	1483.60*	750.90	1971.70*	1043.80
-1.0	1172.50*	614.70	—	—	1182.10*	639.50	1617.60*	837.50
-2.0	713.10*	833.40	—	—	713.10*	833.40	1397.40*	915.90

Notes :

- 1、 Load with * is limited by hydraulic capacity and based on ISO 10567.Rated loads do not exceed 87% of hydraulic capacity.
- 2、 Load without * is limited by tipping load and based on ISO 10567.Rated loads do not exceed 75% of tipping capacity.
- 3、 The excavator bucket,hook,sling and other lifting accessories are not included in this table.