

SWE 100E

Full-functional Medium and Small-sized Excavator —
An All-rounder for Urban Construction



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SWE 2019-1

Engine power: 60.7kW
Machine weight: 9500kg
Bucket capacity: 0.4~0.52m³

Elegant Appearance of Medium Excavator Framework

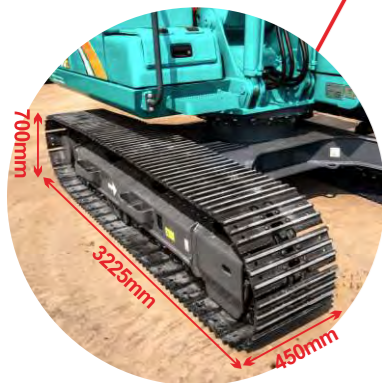


Boom and double oil cylinders, providing strong power.

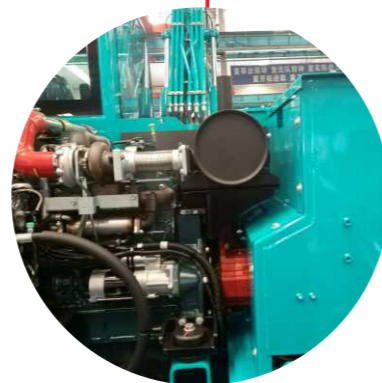
Integrated mold pressing head cover of medium excavator, showing an elegant appearance.



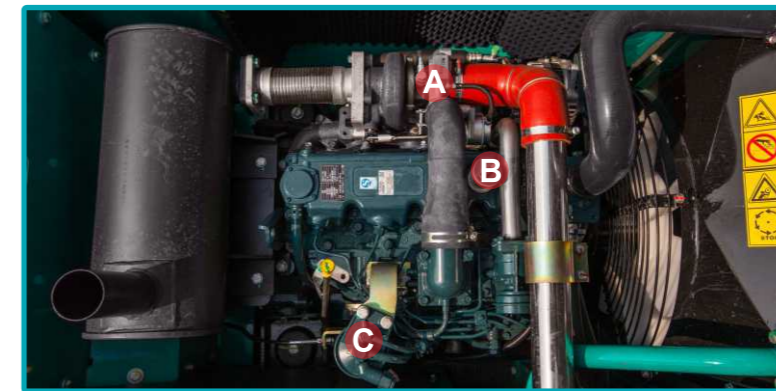
3,225mm long track, promising higher stability than other excavators at the same level.



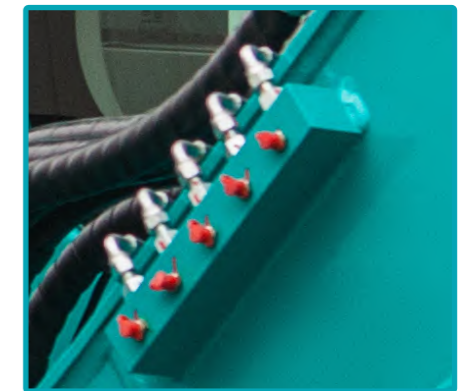
With a multi-compartment layout mode of medium excavator, the pump chamber, engine compartment and valve chamber are completely isolated from each other, realizing lower noise and higher heat dissipation efficiency.



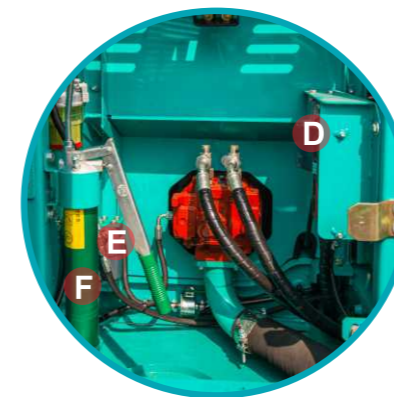
Easy and Convenient Maintenance



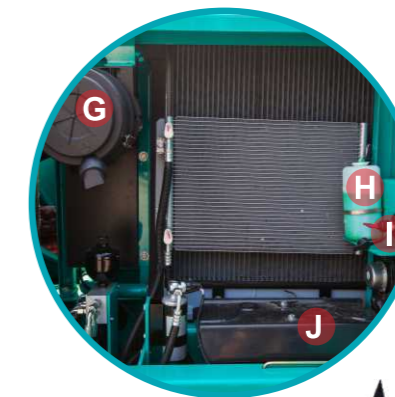
Generator (A), oil filler (B) and fuel filter (C) which can be maintained only by opening the head cover.



Centralized lubrication of boom and one-stop application of grease.



Remote oil filter (D)
Pilot oil filter (E)
Grease gun (F)



Air filter element (G)
Auxiliary water tank (H)
Battery switch (I)
Battery (J)

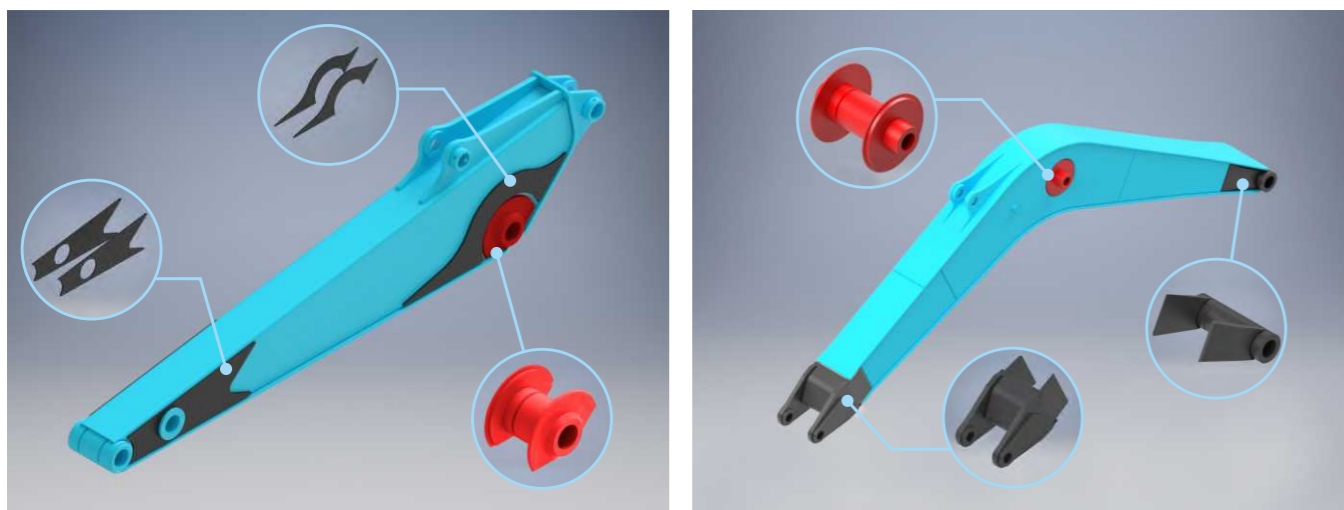
Double doors + head cover, facilitating easy and convenient maintenance.





Durable and Reliable Reinforced Structure

Reinforced operating device



- ◆All arm supports are of a forging structure and are effectively reinforced at key parts.
- ◆The front and rear supports of boom are of high-strength material and the intermediate support is integrally formed with a forging process.
- ◆All shaft sleeves are made with a liquid nitrogen cold fitting process, realizing higher interference and no displacement of sleeve in shaft hole.

Reinforced chassis

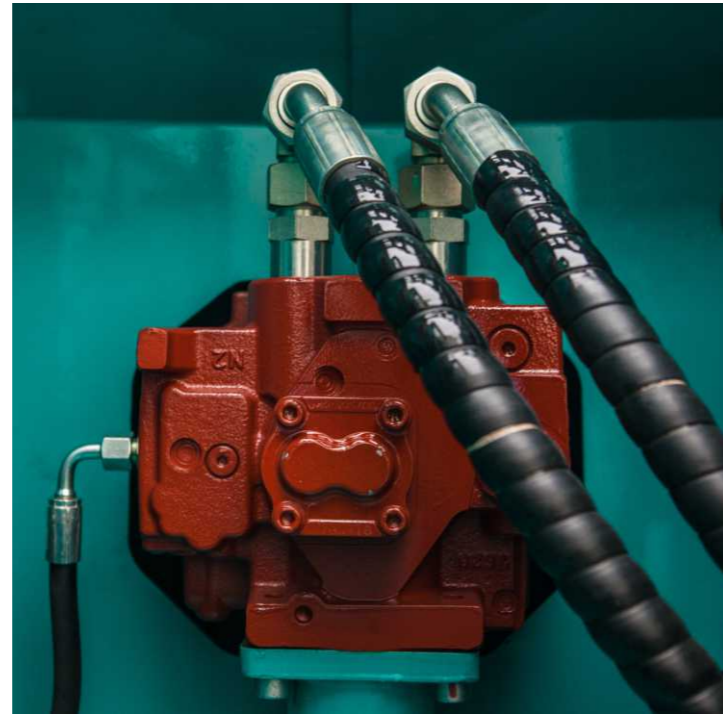
Superior to the chassis of excavators of the same tonnage. In the form of heavy-duty excavator featuring "four wheels with one track", the excavator can run stably and reliably. With a structure of four carrier rollers + anti-looseness frame of track, the excavator is free of looseness of track.



Energy-saving and Efficient Brand New System



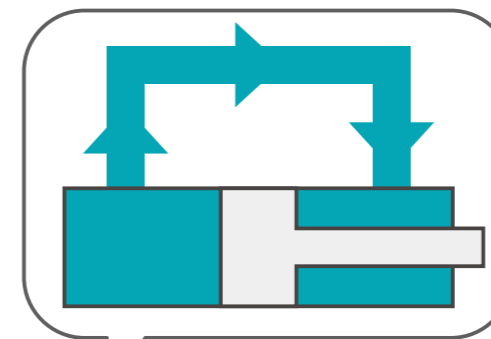
A new generation of large-diameter control valve integrating flow regeneration of boom and arm, featuring small pressure loss, accurate control, smooth operation and better energy-saving effect.



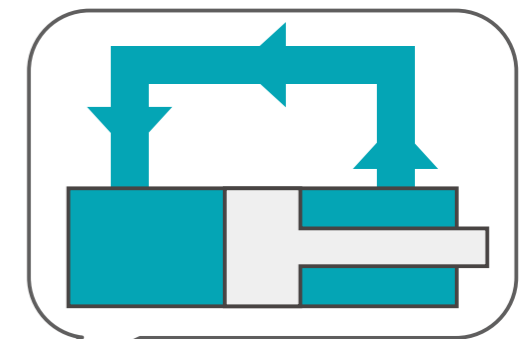
A brand new main pump with absorbing power perfectly matching the output power of engine, improving the overall operation efficiency.

In the regeneration loop for boom lowering, hydraulic oil in the large cavity of oil cylinder is partially transferred to the small cavity by effective use of potential energy of the boom, to reduce the energy output of main pump and the oil consumption during operation.

In the regeneration loop for arm retraction, hydraulic oil in the small cavity of oil cylinder is transferred to the large cavity by effective use of potential energy of the arm, to reduce the energy output of main pump and the oil consumption during operation.



Regeneration loop for boom lowering



Regeneration loop for arm retraction



Reliable performance with a high-power three-stage engine, and good adaptability of oil with a direct injection engine. Standard automatic idling, realizing efficient operation and saving of fuel cost.



Easy, Comfortable and Safe Operation



- Reversible front windscreen and sunroof of the cab, creating a wide view for you.
- Conformity of the cab with European TOPS&FOPS safety standards.
- 5.7-inch color screen featuring simple interface, simple operation and direct display of machine conditions.
- A brand new handle, reducing the operating force by 20% and featuring flexible operation and good fretting behavior.
- A multifunction radio with USB interface and Bluetooth.
- Double LED headlights of the boom, facilitating easy operation at night.

Adjustable suspension seat which conforms to ergonomics and can meet the requirements of drivers of different heights and weights, realizing a higher level of comfort during operation.

Basic Configuration

Engine/Oil Pump

9-inch air filter element

Electric oil suction pump

Oil-water separator with water drain outlet

Understructure

450mm wide steel track

Traveling dual-speed switch

One anti-looseness frame of track on each side

Two track carrier rollers on each side

Hydraulic system

Pressure testing port

Linear traveling function

Automatic idling system

Left foot pedal control accessories

Safety configuration

Travel motor with disc brake

Swing motor with disc brake

Safety hammer

Fire extinguisher

Cab

FOPS and TOPS certification

Two-stage adjustable suspension seat

Safety belt

Pedal type traveling control lever

Air conditioner

Front windscreen defroster

Climbing type wiper

12V power supply slot

Cigar lighter

Multi-function radio

Lateral rearview mirror

Cup holder

5.7-inch color screen

Operating device

Breaker pipeline

Two boom lights

1950mm arm

Standard bucket capacity 0.4m³

Technical Parameters

SWE80E9 Technical parameters			
Bucket capacity		m ³	0.4~0.52
Standard bucket width		mm	840
Operating weight		kg	9500
Dimension parameters	A	Wheel spacing	mm 2560
	B	Total track length	mm 3225
	C	Ground clearance of platform	mm 370
	D	Platform min. slewing radius	mm 1870
	E	Chassis width	mm 2320
	F	Track width	mm 450
	G	Chassis clearance from the ground	mm 370
	H	Track height	mm 700
	I	Total length	mm 6470
	J	Total height	mm 2660
K	Total width	mm 2320	
Working range	A	Max. digging height	mm 7515
	B	Max. discharging height	mm 5315
	C	Max. digging depth	mm 4375
	D	Max. vertical digging depth	mm 3930
	E	Max. digging radius	mm 6950
	F	Max. digging reach at ground level	mm 6800
Engine	Brand		Kutoba
	Model		V3800-DI-T-E3B
	Total displacement	L	3.769
	Rated output power	kW/rpm	60.7/2200
Max. digging force (bucket rod)		kN	43
Max. digging force (bucket)		kN	64.5
Driving speed (high/low)		km/h	4.5/2.7
Gradeability		deg	35
Slewing speed		rpm	10.8
Ground specific pressure		kpa	36.9
Slewing motor type		Plunger motor	
Driving motor type		2-speed plunger motor	
Fuel tank capacity		L	145
Hydraulic tank capacity		L	120

