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SANY[®]
QUALITY CHANGES THE WORLD



Engine power
133 kW/2000 rpm

Operating weight
24600 kg
(This weight is the machine weight without logging head.)

SY215F
Sany Excavator

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FORWARD THINKING HARVESTING SOLUTIONS>>



HIGHLIGHTS



STRONG POWER

4HK1 engine

The 4HK1 engine, which meets the GB III emission standard, and the high-pressure common rail EFI fuel injection system has strong power to help customers solve the problem of heavy-duty operation.

Main pump

Exclusive customization, SY215F special parallel pump, compared with the traditional series pump, the power output is increased by 10%, the arrangement structure is more compact, and the maintenance is more convenient.

Main valve

The designation is according to the needs of customers, which has "high reliability, small pressure loss, high flow distribution efficiency, smooth compound action" and other outstanding advantages, to help customers easily solve heavy work.

HIGHLIGHTS

COMFORTABLE DRIVING



The cab adopts a brand-new design, offering a larger space. It is equipped with bulletproof functional glass, ensuring safer operation.



The performance of the new cab in terms of intelligence, comfort and reliability has been greatly improved. The over all design is simple, modern and high-quality, providing users with a good physical and mental environment in terms of vision, touch and psychological feeling, Enlarged, widened and thickened seats with seat extension, seat tilt and lumbar support Selective distribution heating.

- Comfort seats;
- New generation air conditioner ;
- Multifunctional panel One- key start;
- Intelligent touch screen Bluetooth;
- WIFI Mobile phone call USB Charging;
- Integrated radio A/C control.



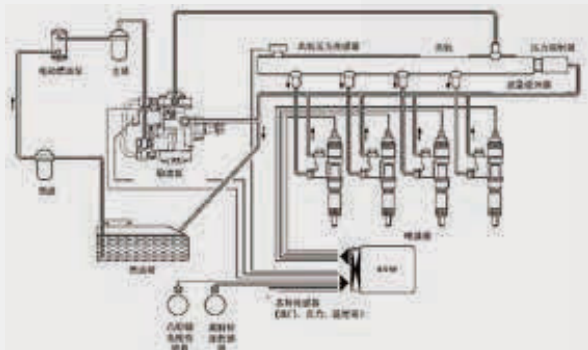
POWERFUL IN PERFORMANCE

SUPER-LOW MAINTENANCE COST

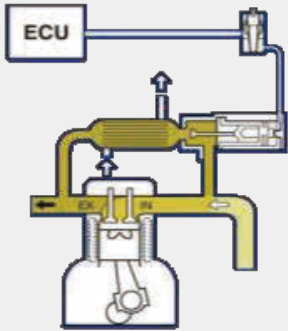
The new engine system improves efficiency by more than 8% and reduces fuel consumption by more than 10%.

High pressure common rail electronically controlled fuel injection system

Precise control to improve combustion efficiency and power



Water-cooled EGR



4-valve structure

Increasing the suction volume of the cylinder improves the combustion efficiency and realizes high power



2 valves



4 valves

THE CORE COMPONENTS

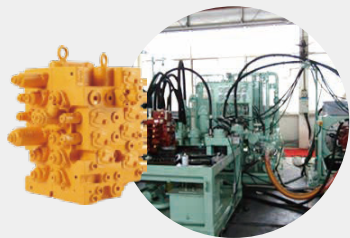
Relying on the only endurance test system for excavator parts in china, and through joint research with world famous research institutions, the research on service life of the parts is carried out for improving the service life of core parts comprehensively. The service life of components including pump, valve, oil cylinder, retarder, fuel tank and cab etc. is doubled.



Oil cylinder impulse test bed

Hydraulic components like oil cylinder and reducer etc. must be subjected to impulse test according to the requirements higher than industrial standard. They can be put in to operation only after reaching the requirements. Through this process, the service life of the components is 30% higher than that of general brands.

With pump-valve endurance test bench, the service life of main pump and main valve are tested and analyzed. In combination with research achievements of long-life parts of the customer the service life of the pumps, and the valves is improved by 1 time.



Pump-valve test bench



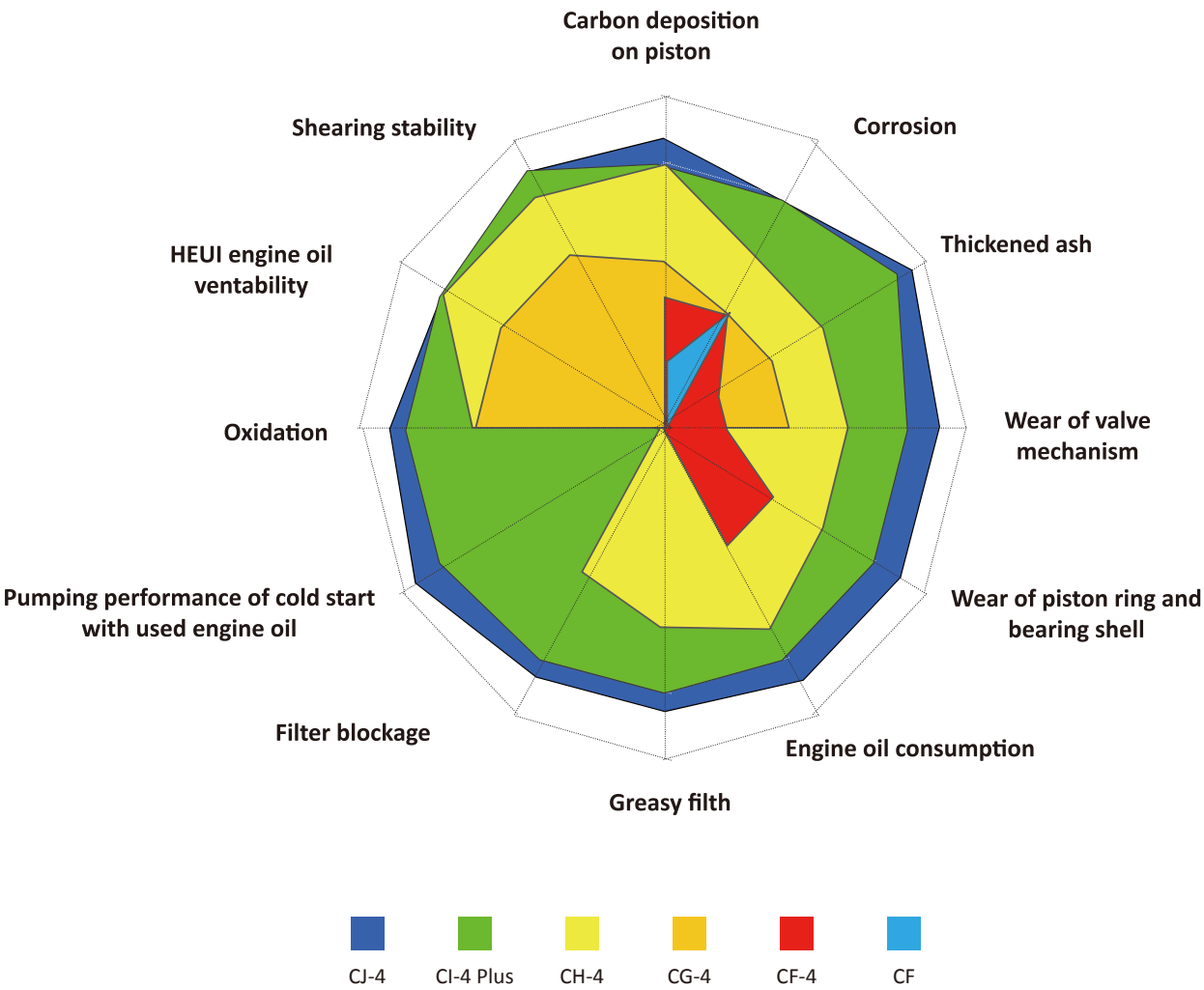
Vibration test bench

With vibration test bench, fuel tank and the cab has been tested by over hundreds of thousands of times on aspect of the vibration to improve the service life of the component by 50%.

HIGHLIGHTS

SUPER-LOW MAINTENANCE COST

SANY is developing long-life engine oil, diesel oil filter and hydraulic oil jointly with professional manufacturers. Through two years' market verification, maintenance cost of the product is reduced by 50%, and maintenance interval is extended by 1 time; maintenance costs are 40% lower than competing brands.



Hydraulic oil: service life of hydraulic oil is 4,000h and is extended by 1 time as compared with that of the competitors,
Engine oil: replacement interval is 500h and is extended by 1 time as compared with that of the competitors;
Fuel filter element and engine oil filter element: maintenance interval is extended from 250h to 500h.

HIGH ADAPTION ABILITY

By improving safety, heat dissipation, high-efficiency filtration systems and "high corrosion resistance" coatings, SY215F is adaptable to the environment, operating conditions and oils.

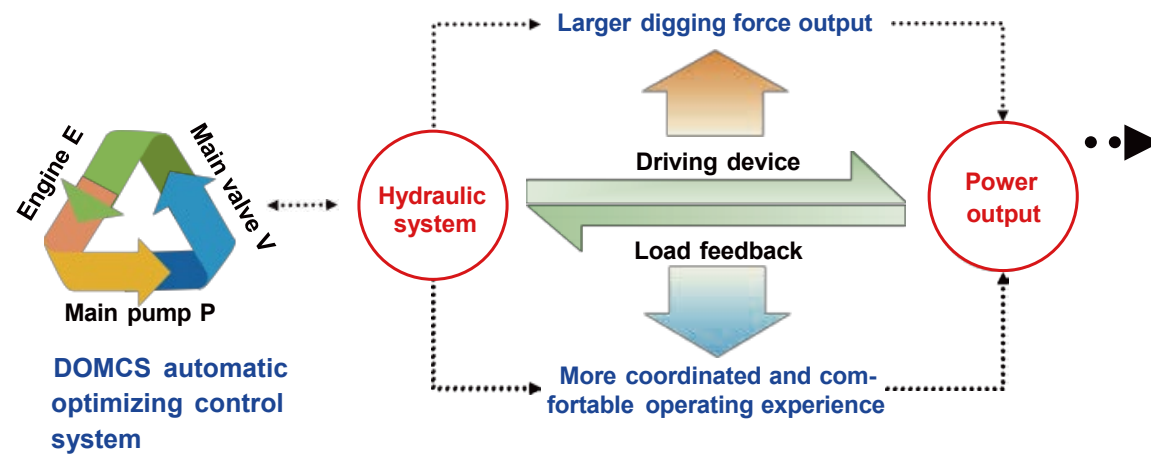


HIGHLIGHTS

SUPERIOR PERFORMANCE

Efficient low consumption

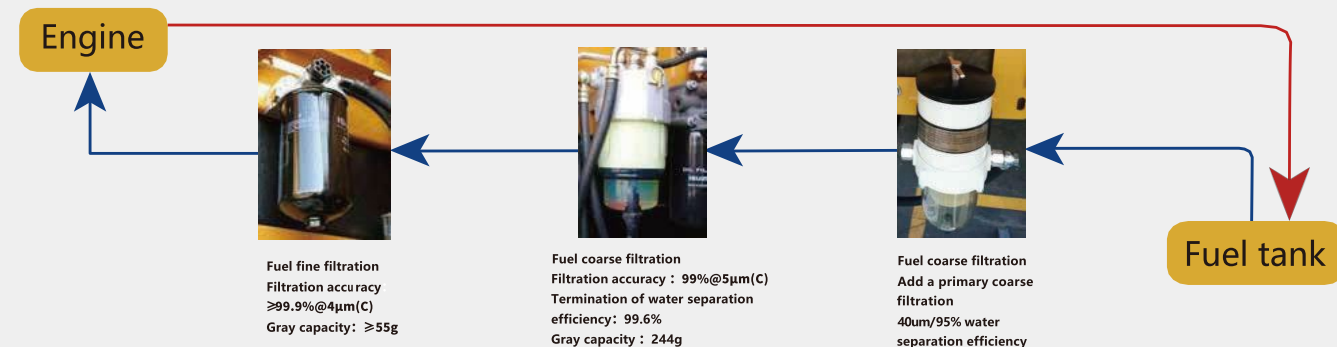
Using the "positive flow" system and the "DOMCS" engine-pump-valve integrated control system independently developed by SANY, the efficiency of fuel consumption has surpassed the competitive brands, with 8% higher efficiency and 10% lower fuel consumption.



HIGH-CAPACITY

Three-stage Filtration System

The "launch of the first self-circulation" large-scale multi-stage filtration system in China "copes with various domestic oil products, and meets the needs of GB III emissions, top protection" is changed to the launch of a double-layer fuel filtration system to cope with various domestic oil products and meet the needs of GB III emissions, with top protection and more stable performance of the whole machine.



SPECIAL DESIGN FOR FOREST CONDITION

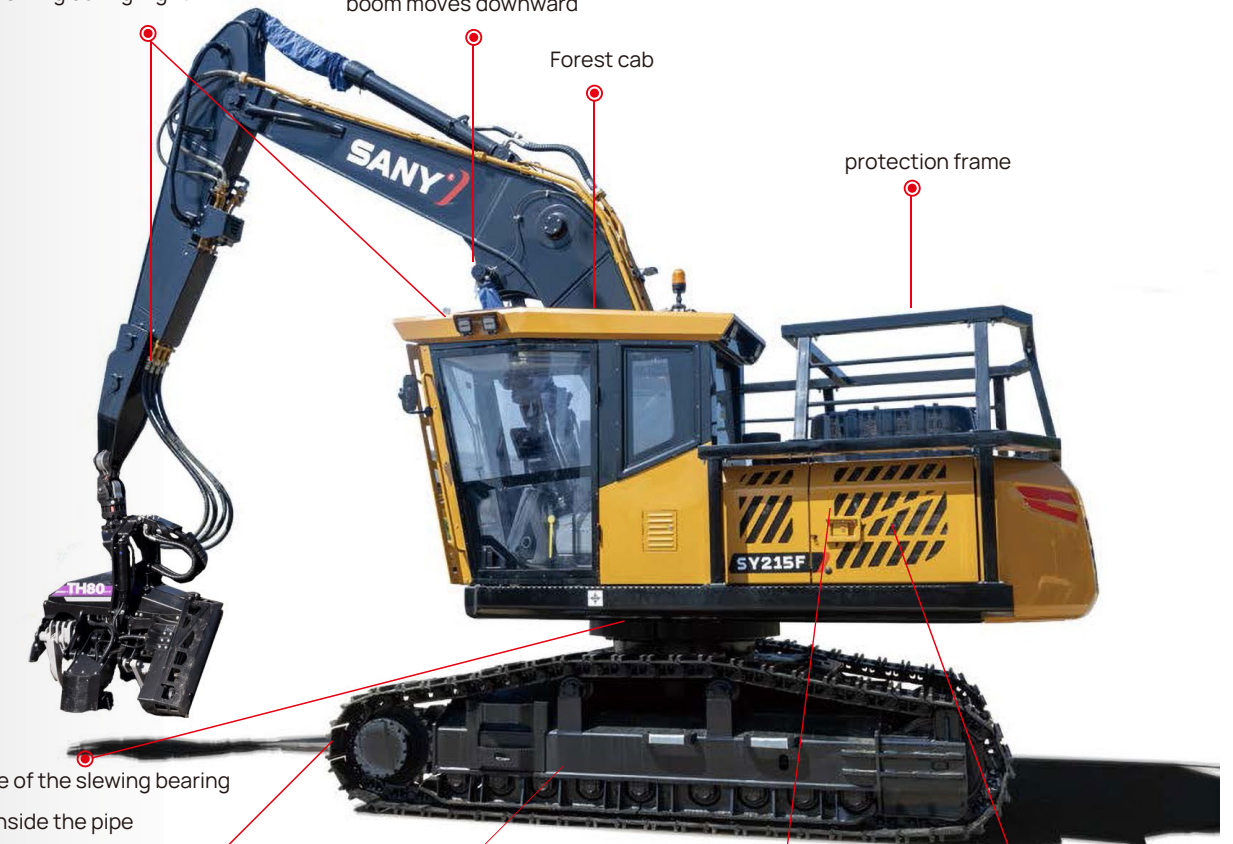
By improving safety, heat dissipation, fuel tank capacity, Boom design, SY215F is more adaptable for forest condition.

Adding lights to meet the requirement of working during night.

The support hinge point in the boom moves downward

Forest cab

protection frame



Raise the lower frame to increase the passing height

Add the support wheel guard plate

Hydraulic motor driven back blowing fan



HIGHLIGHTS

Complete research & development and test system

SANY has established complete machine endurance test center with full functions. Each model of excavator must be subjected to over 2,000h field excavating test.

Key components like working device, cab and hydraulic components etc. must be subject to fatigue test over 800,000 times.



Advanced manufacturing technology

SANY has RGV assembling line and full automatic welding robots, and possesses high precision machining equipment and precise machining center.

SANY's manufacturing and assembling lines won five-star national site in 2013 and national quality award in 2014. In 2023, SANY Mini Excavator Factory was awarded as the intelligent factory.



CONVENIENT MAINTENANCE

In allusion severe working conditions of the mine, the design of maintenance convenience of the maintainable parts is improved. "Big space, Easy to operate", Maintenance space for various maintainable parts increases by 20%-30% and makes the operation easier.

- Easy to replace air filter element
- Easy to replace diesel oil filter element
- Easily check engine oil and pump oil automatically after the filter element is maintained
- Engine compartment volume is increased by 20%, and water drain valve and diesel oil check valve are added



TECHNICAL SPECIFICATIONS

SPECIFICATION	UNIT	VALUE
Operating weight	kg	24600
Engine	-	Isuzu
Model	-	4HK1
Type	-	4cylinders, 4strokes, water-cooling Electric spray common rail and turbocharged
Engine power	kW/rpm	133/2000
Maximum torque	N·m/rpm	657/1500
Displacement	L	5.193

CAPACITY OF OIL AND COOLANT	UNIT	VALUE
Fuel tank	L	540
Hydraulic oil	L	230
Anti-freezing fluid	L	33.44
Final drive	L	2x5.0
Engine oil	L	21.5

SPECIFICATION	UNIT	VALUE
Traveling speed (high/low)	km/h	5.4/3.3
Gradeability	°	70%(35°)
Ground pressure	kPa	55.1

UNDER AND UPPER STRUCTURE	UNIT	VALUE
Number of track plates	-	49
Each carrier roller side	-	2
Each thrust wheel side	-	9
Standard track	mm	600/700

TABLE OF LIFTING CAPACITY

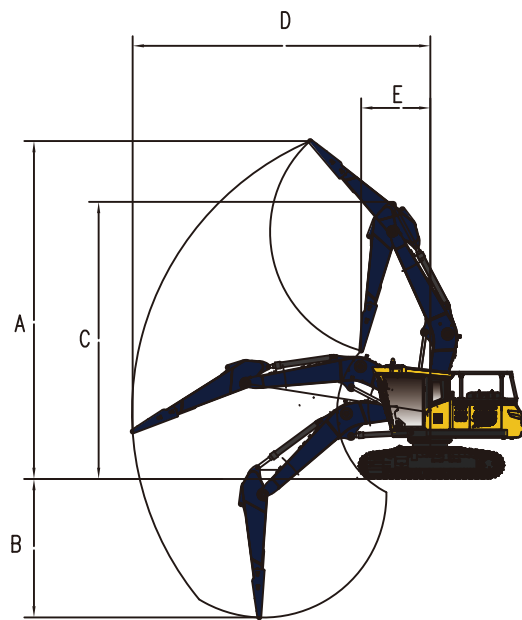
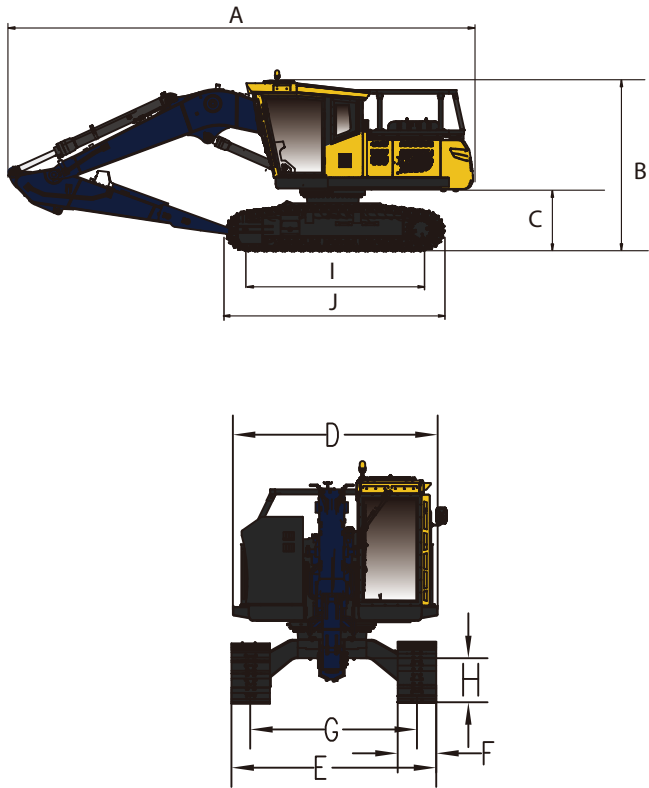
SY215F		RATED LIFTING CAPACITY UNDER FIRST WORKING CONDITION				RATED LIFTING CAPACITY UNDER SECOND WORKING CONDITION				REMOVED BUCKET WEIGHT: 770KG UNIT: KG		
		A										
Conditions		 	 	 	 	 	mm					
	B	3.0m	4.5m	6.0m	7.5m	Maximum point position						
	7.5m			4439.18 4439.18		3142.46 3142.46	6275					
	6.0m			5210.52 4631.08		3143.33 3143.33	7360					
Rod 2919mm	4.5m			5905.03 4466.82	4636.06 3133.94	3099.06 2783.4	8025					
Boom 5700mm	3.0m		8686.56 6388.9	6380.68 4225.13	4523.84 3031	3182.79 2540.63	8370					
counter weight 4000kg	1.5m		9504.66 5894.4	6112.18 3985.7	4396.98 2914.62	3381.35 2450.68	8435					
	0	6663.3 6663.3	9129.42 5577.9	5922.25 3816.32	4296.37 2822.33	3717.27 2494.18	8230					
	-1.5m	10709 10353.9	9085.85 5541.2	5840.95 3743.83	4275.64 2803.31	4110.75 2703.05	7730					
	-3.0m	16361 10539.8	9156.21 5600.5	5882.45 3780.84		4996.22 3295.6	6870					
	-4.5m	14692 10913	9415.98 5819.6			6959.28 4477.58	5485					

1. The lifting capacity is calculated in accordance with Is010560 and SAE11097, where the limit coefficient of hydraulic system is 0.87 and titing limit coefficient is 0.75
- 2、 Item with * is limited by hydraulic pressure and item without "*" is limited by stability
3. lifting point is front support hole of bucket rod (excuding bucket weight. it is necessary to deauct from the above lifing capacity if addiional accessory is installed such as bucket etc.

MACHINE DIMENSIONS

OVERALL DIMENSIONS	UNIT	VALUE
A. Shipping length	mm	9600
B. Shipping height	mm	3450
C. Ground clearance of upper structure	mm	1270
D. Top width	mm	3190
E. Width	mm	3190
F. Standard width of track shoe	mm	600
G. Gauge	mm	2590
H. Min. ground clearance	mm	710
I. Track grounding length	mm	3640
J. Track length	mm	4446

WORKING RANGE	UNIT	VALUE
A. Maximum dumping height	mm	10550
C. Maximum height at minimum sweing radius	mm	8331
D. Maximum digging reach	mm	9270
E. Minimum swing radius	mm	2049



STANDARD CONFIGURATION

ENGINE SYSTEM	
Dynamic hunting mode control	●
Radiator	●
24V/6.5kW starter motor	●
50A alternator	●
Dry type dual-element air filter	●
Engine oil filter	●
Three-stage fuel oil filter	●
Engine oil cooler	●
Radiator auxiliary water tank	●
Fan diversion cover	●
Automatic idling system	●
Additional fuel tank	●

ALARM SYSTEM	
Controller failure	●
Pump pressure abnormal	●
Pilot pressure of various movements abnormal	●
Power supply voltage abnormal	●
Starter motor relay abnormal	●
Hydraulic oil temperature abnormal	●
Engine oil pressure insufficient or engine coolant temperature too high	●
Fuel volume insufficient	●
Engine failure alarm	●
Fuel filter water level alarm	●

HYDRAULIC SYSTEM	
Multiple operating mode	●
Control valve with main overflow valve	●
Control valve with spare oil port	●
Oil suction filter	●
Return oil filter	●
Pilot filter	●
Fan derived by hydraulic, can reversed	●
1 ¼" inlet and outlet hydraulic pipe for tooling	●

SLEWING PLATFORM OF SUPERSTRUCTURE	
Fuel level sensor	●
Hydraulic oil level gaug	●
Protective frame	●
Right + Back Camera	○
Right front guard	●
Protect guard for Boom Cylinder	●
Thicker door leaf	●
Slewing brake	●

● Standard configuration ○ Optional

HIGHLIGHTS

CAB		UNDERCARRIAGE	
ROPS Certification	●	Raised track frame	●
Bullet proof glass	●	Roller guard plate	●
10" touch screen monitor	●	Toolbox	●
One-click boot	●	Foot step	●
Bluetooth	●	Traveling brake	●
		Traveling motor guard plate	●
		H-shaped track guide mechanism	●
FRONT-END WORKING DEVICE		Hydraulic tensioning device of tracks	●
Boom (middle support down)	●	Bolted driving wheel	●
Arm (with protective plate)	○	Thrust wheel and carrier wheel	●
Arm (with bucket cylinder)	○	Reinforced chain trail with pin seal	●
Connector	○	600/700mm double track shoes	○
Bucket cylinder	○	Reinforced side pedal	●
		Thicker Bottom cover plate	●
		Slewing bearing (butter tube built-in)	●
OTHERS			
High-capacity storage battery	●		
Lockable engine hood	●		
Lockable fuel filler cap	●		
Anti-slip sticker for armrest and sidewalk	●		

● Standard configuration ○ Optional

SANY OVERSEAS SERVICE

GLOBAL SUPPORT
ANYTIME
ANYWHERE

900+



Overseas service centers

3500+



Professional technical service engineers

365×24



Support

Service Center

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