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 Sany Heavy Machinery

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SY175W
WHEELED EXCAVATOR



FULLY HYDRAULIC TIRE TYPE
FULLY OPTIMIZED

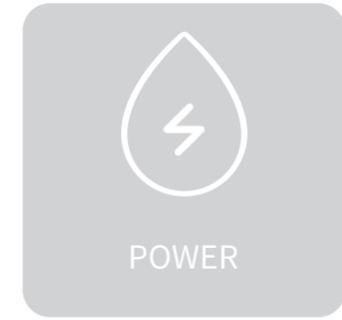
SY175W

WHEELED EXCAVATOR



Highlights

SY175W is a new generation of hydraulic wheeled excavator specially designed for European market. It has been optimized in power, safety, comfort and reliability, being committed to producing the machine favored by customers, respected by opponents and taken pride in by us.



◎ ENGINE & CONTROL VALVE & DRIVE AXLE



DEUTZ TCD5.2 STAGE V
 4-cylinder, powerful, fuel economic
 Rated power: 130kW at 2000rpm
 Max.torque: 887N.m at 1400rpm



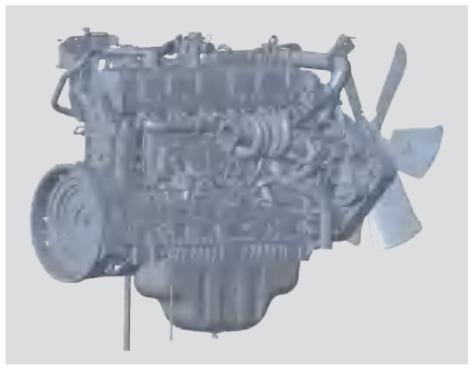
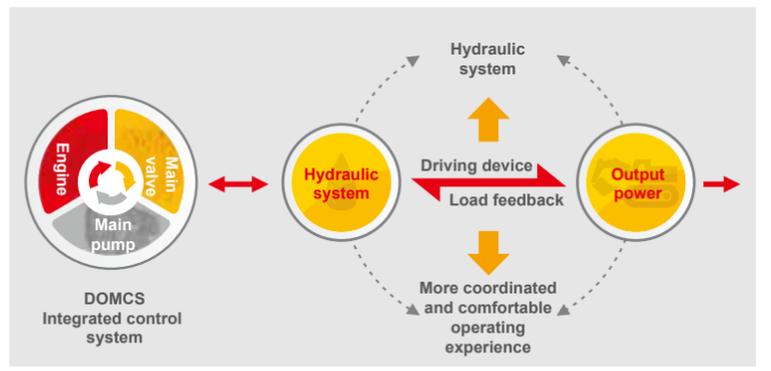
REXROTH HYDRAULIC SYSTEM
 Load-sensitive hydraulic system
 Adjustable pressure and flow of the AUX pipelines.
 Variety of accessories can be used.



ZF DRIVE AXLE and GEARBOX
 Shift during travelling
 Travelling speed can reach 32km/h.

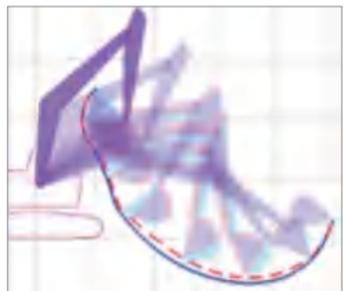
◎ DOMCS dynamic optimization intelligent matching technology

A new intelligent dual-core controller is adopted, equipped with the intelligent control system of DOMCS dynamic optimization, and advanced control theories such as neural network, fuzzy PID and variable speed integral are adopted for the hydraulic system, so that the real-time perfect matching between the engine and the pump can be realized according to the load condition, which brings high efficiency and fuel saving.

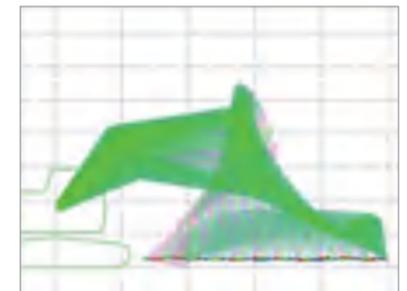


- **Powerful**
Rated power 130kW, meet working requirement
- **Efficient**
DOMCS technology, high efficiency
- **Customized**
Optimized engine output, matching with pump
- **Stable**
Adaptable, low malfunction rate

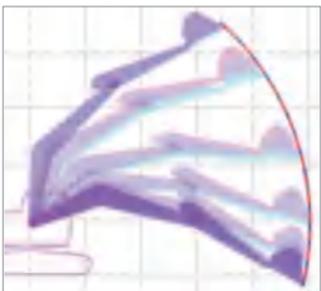
◎ IMPROVED PERFORMANCE



Improved combination movement performance



Improved ground levelling performance



Diminished movement impact

● **Load-sensitive hydraulic system**

- Developed Rexroth load-sensitive hydraulic system
- Stable performance, reliable quality
- Proportionally adjustable pressure and flow for AUX pipelines
- Meet requirements of various attachments
- Improved working accuracy and operation performance



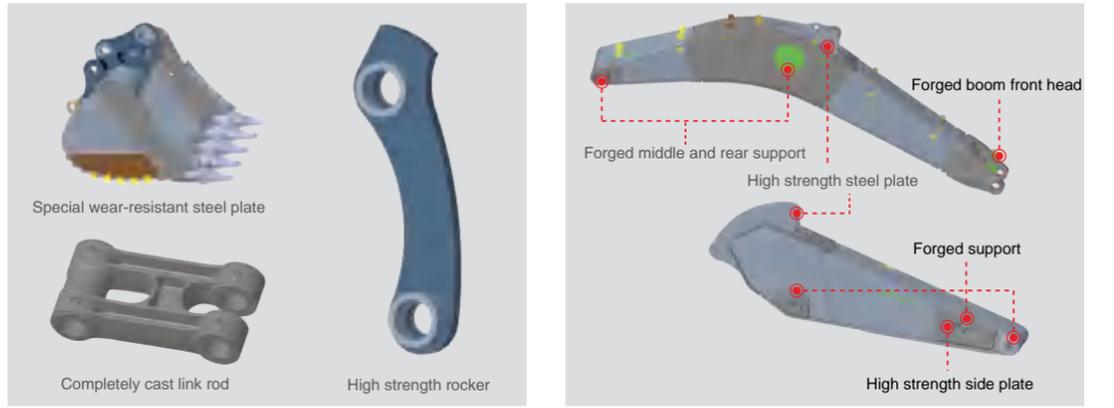
● **Double hydraulic circuit brake system**

Two sets of independent hydraulic brake system are installed on front and rear axle respectively. When either of them was dysfunction due to leakage or pipeline explosion, the other can function normally, increasing safety.



● **Endurable structural steel**

- **Decreased stress:** optimized fatigue design, stress of working device structure was decreased up to 30% .
- **Optimized structure:** strengthened 3-section box structure for mine, 20% increased bending modulus.
- **Advanced welding technology:** optimized weld toe formation and increased fusion depth in root.
- **Premium material:** high strengthened steel plate + forged parts + wear-resistant steel, completely cast link rod.



● **Upgraded cab**

- New intelligent cab outperform opponents in digital technology, operation convenience, automation and working safety.
- Based on facts of long working hours each day and strong vibration for such types of models, air suspension seat (Comfort class A) is being equipped, decreasing operator's feeling of fatigue.
- One button start and stop, 10-inch touch screen, multi-function keyboard panel, rear camera, AC, and 90% physical buttons have been removed, increasing convenience of communicating with machine.



SY175W WHEELED EXCAVATOR

Optional chassis system

Depending on customers' requirements, outrigger and blade can be optional independently or combinedly to increase machine's stability.

Automatic cruising

Automatic cruising can improve comfort of long journey driving. This function will be turned off automatically when brake signal is detected by system.

Gear shift protection system when travelling

Adopt advanced control technology that figure out current travelling speed by transforming the rotating speed signal of output shaft to pressure signal to select suitable gear ratio in the transmission box, avoiding impact due to gear outmatching speed to extend life span of axle and transmission box and improve comfort.

Cylinder anti-drift system

Two-way hydraulic self-lock function has been used in cylinders of blade and outrigger. No drift in blade cylinder can be guaranteed at any situation to make sure travelling safety.

360° panoramic vision

Right side and rear camera are equipped in standard (360° panoramic vision optional) to provide operator with wide vision of circumstance, guaranteeing travelling and working safety.

Reversing warning system

Alert person around to be cautious, increasing safety during reversing. Alarm cannot be turned off in travelling mode while you're able to choose to turn it off or not in working mode, balancing safety and comfort effectively.

AUTOMATIC CRUISING
REVERSING WARNING SYSTEM

SY175W
WHEELED EXCAVATOR



◎ Easy maintenance



• **Open maintenance space**
Spacious engine compartment



• **Centralized valve group**
Increased maintenance convenience



• **Accessible boarding aisle**
Reach fault point easily



• **Centralized lubrication system**
Double-line progressive lubrication system in which lubrication cycle can be adjusted, providing machine's working device with stable and reliable lubrication.

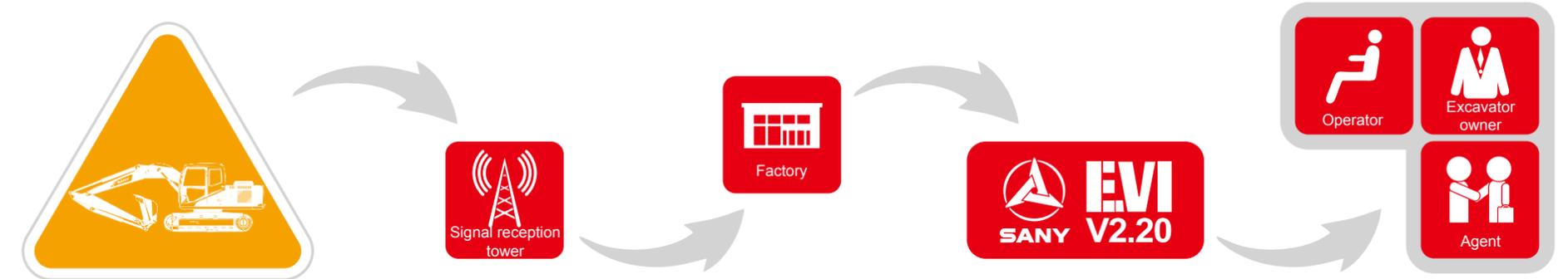


• **Blade centralized lubrication**
Supply grease to points hard to access



"EVI" Customer Management System

The machine is equipped with "EEVIA" system which is independently developed by SANY. SANY has established four-dimension construction management system including "factory- agent- owner- operator" for the purpose of minimizing mine construction management **cost and risks, and maximizing the efficiency.**



Lifting capacity table

Rated Lift Capacity(Kg)-SY175W											
		Max	3.0m		4.5m		6.0m		7.5m		
	MAX dimension										
7.5m	Blade upper	*6100	*6100	-	-	*6600	*6600	-	-	-	-
	Blade lower	5126	*6100	*6100	-	-	*6600	*6600	-	-	-
	Outrigger and blade lower		*6100	*6100	-	-	*6600	*6600	-	-	-
	Front and rear outrigger lower		*6100	*6100	-	-	*6600	*6600	-	-	-
6.0m	Blade upper	*5300	*5300	-	-	*6700	*6700	*5700	*5700	-	-
	Blade lower	6486	*5300	*5300	-	-	*6700	*6700	*5700	*5700	-
	Outrigger and blade lower		*5300	*5300	-	-	*6700	*6700	*5700	*5700	-
	Front and rear outrigger lower		*5300	*5300	-	-	*6700	*6700	*5700	*5700	-
4.5m	Blade upper	*4900	*4900	*7000	*7000	*6300	*6300	*5200	*5200	-	-
	Blade lower	7262	*4900	*4900	*7000	*7000	*6300	*6300	*5200	*5200	-
	Outrigger and blade lower		*4900	*4900	*7000	*7000	*6300	*6300	*5200	*5200	-
	Front and rear outrigger lower		*4900	*4900	*7000	*7000	*6300	*6300	*5200	*5200	-
3.0m	Blade upper	*4500	4400	*6600	*6600	*5700	*5700	*5200	*5200	*4600	*4500
	Blade lower	7673	*4500	*4500	*6600	*6600	*5700	*5700	*5200	*5200	*4600
	Outrigger and blade lower		*4500	*4500	*6600	*6600	*5700	*5700	*5200	*5200	*4600
	Front and rear outrigger lower		*4500	*4500	*6600	*6600	*5700	*5700	*5200	*5200	*4600
1.5m	Blade upper	*4400	4200	*5900	*5900	*5100	5000	*4800	4800	*4400	4300
	Blade lower	7765	*4400	*4400	*5900	*5900	*5100	*5100	*4800	*4800	*4400
	Outrigger and blade lower		*4400	*4400	*5900	*5900	*5100	*5100	*4800	*4800	*4400
	Front and rear outrigger lower		*4400	*4400	*5900	*5900	*5100	*5100	*4800	*4800	*4400

Rated Lift Capacity(Kg)-SY175W											
		Max	3.0m		4.5m		6.0m		7.5m		
	MAX dimension										
0m	Blade upper	*4300	4200	*5100	5100	*4800	4700	*4600	4500	*4300	4200
	Blade lower	7556	*4300	*4300	*5100	5100	*4800	*4800	*4600	*4600	*4300
	Outrigger and blade lower		*4300	*4300	*5100	5100	*4800	*4800	*4600	*4600	*4300
	Front and rear outrigger lower		*4300	*4300	*5100	5100	*4800	*4800	*4600	*4600	*4300
-1.5m	Blade upper	*4500	4200	*5000	4900	*4700	*4700	*4500	4400	-	-
	Blade lower	6806	*4500	*4500	*5000	*5000	*4700	*4700	*4500	*4500	-
	Outrigger and blade lower		*4500	*4500	*5000	*5000	*4700	*4700	*4500	*4500	-
	Front and rear outrigger lower		*4500	*4500	*5000	*5000	*4700	*4700	*4500	*4500	-
-3.0m	Blade upper	*4900	4800	-	-	*4900	4800	-	-	-	-
	Blade lower	5651	*4900	*4900	-	-	*4900	*4900	-	-	-
	Outrigger and blade lower		*4900	*4900	-	-	*4900	*4900	-	-	-
	Front and rear outrigger lower		*4900	*4900	-	-	*4900	*4900	-	-	-

Specifications

Engine		Hydraulic system		Chassis	
Type	Deutz TCD5.2	Main pump	Rexroth A11VLO145LE2S2	Front axle	ZF MS-3060
Fuel injection system	High pressure common rail	Max. displacement	145cc/rev	Rear axle	ZF MT-3060
Rated power	130kw/2000rpm	Main control valve	Rexroth 5M7-20/LUDV	Transmission	ZF 2HL270
Max.torque	887 N.m / 1400rpm	Control method	Rexroth load sensitive system	Tyre	10.00-20
Aftertreatment	DOC+DPF+SCR	Pressure-Implement	34Mpa/38Mpa		
Air intake	Turbo	Pressure-Pilot	3.5Mpa		
No. Cylinder	4	Travel motor	Rexroth A6VM140HA1T30001F		
Displacement	5.193L	Swing motor	Doosan SD070M-72		

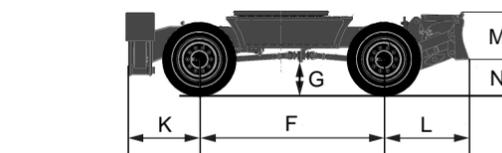
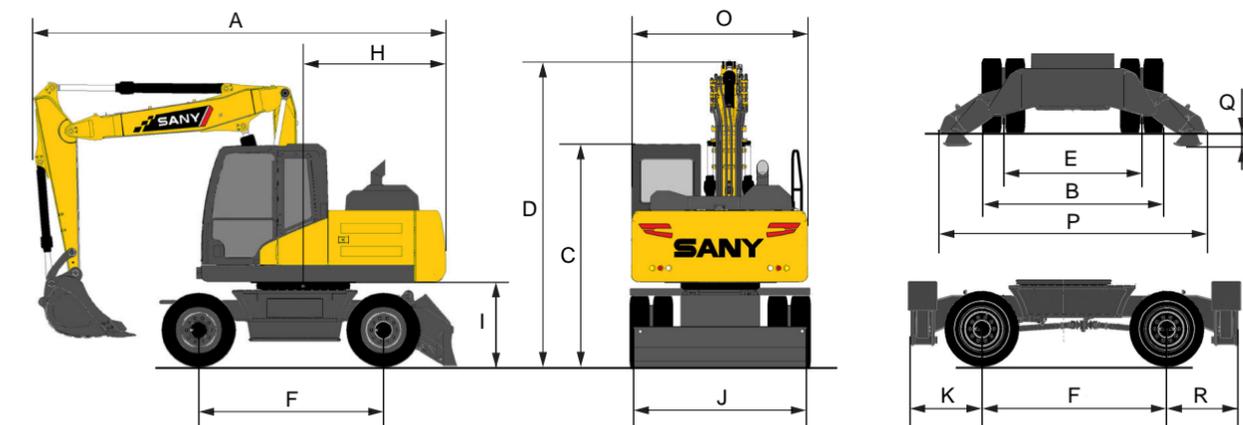
Service refill capacity		Recommended oil type		Working device	
Fuel tank/L	280	Engine oil	CI-4 15W-40	Boom(m)	Lower 1.9+Upper 3.45
Hydraulic system/L	150	Swing gearbox	85W-90 gearbox oil	Arm(m)	2.5
Engine oil/L	15.5	Hydraulic system	HDZ46 Wear-resistant hydraulic oil		
Engine coolant/L	26	Coolant	TEEC-L35		
Swing drive/L	3	Axle	ZF 80W-90 wear-resistant additive		
Transmission/L	2.5	Transmission	CI-4 15W-40		
Front axle/L	9				
Rear axle/L	11.2				
Front and rear hub/L	4x2.4				

Dimensions (mm) SY175W

A. Overall length (Transport)	8250
B. Overall width (Transport)	2550
C. Cab height	3200
D. Overall height(Transport)	3980
E. Tread width	1944
F. Wheel base	2600
G. Min. ground clearance	360
H. Tail swing radius	2150
I. Ground clearance of counterweight	1230
J. Blade width	2550
K. Outrigger length (Rear)	1040
L. Blade length (Front)	1196
M. Blade height	600
N. Blade clearance (Raised)	472
O. Upper structure width	2550
P. Outriggers width (Ground)	3690
Q. Max. outriggers depth	155
R. Outriggers length (Front)	1127

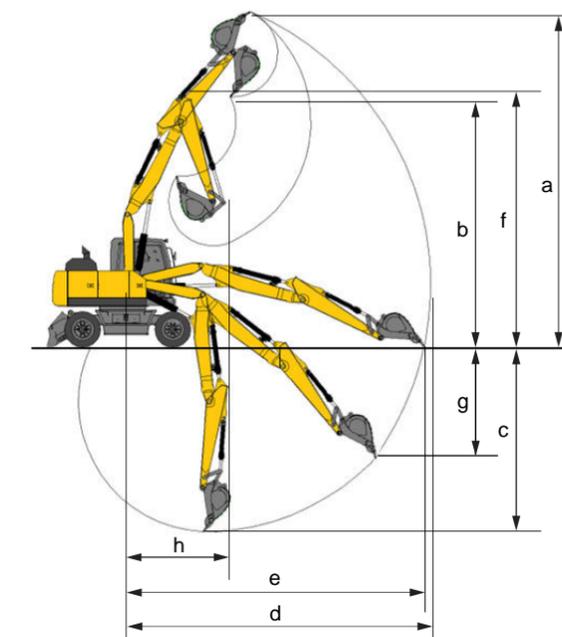
Performance SY175W

Operating weight (kg)	18000(Standard)
Bucket capacity (m³)	0.22-0.75 (Optional)
Rated power (kW/rpm)	130/2000
Travel speed (km/h)	32/20/7
Swing speed (rpm)	10.5
Gradeability	70%/35°
Traction force (kN)	104
Bucket digging force (kN)	107.7
Arm digging force (kN)	86



Working range (mm) SY175W

a. Max. digging height	10000
b. Max. dumping height	7100
c. Max. digging depth	5540
d. Max. digging reach	9150
e. Max. digging reach at ground level	8950
f. Max. height at Min. front swing radius	7280
g. Max. vertical digging depth	4600
h. Min. swing radius	2150
Blade clearance (Raised)	515
Max. blade depth	155



Equipment

Power system		Cab		Chassis	
Stage V emission engine	●	Soundproof steel frame cab	●	10.00–20 16PR double tyres	●
4-stroke, water-cooled, direct injection, turbo	●	High definition TET LCD display	●	Wet disc brakes	●
Engine auto-preheat	●	Adjustable steering wheel	●	Two-speed transmission gearbox	●
H、S、L mode	●	Reinforced light glazed wind glass	●	Two-circuit brake system	●
Engine startup protection system	●	6 silicone oil rubber shock-absorbing supports	●	Swaying front axle	●
24V/5.0kW starter	●	Openable top, front and left side window	●	Cylinder protection cover	●
50A alternator	●	Rear window with emergency exit	●	Toolbox	●
Air prefilter	●	Muted wiper with washer	●	Boarding steps	●
Dry dual-element air filter	●	Adjustable tilted seat and armrest	●	Anti-sliding blocks	●
Cartridge engine oil filter	●	Footrest and floor mats	●	Blade	○
Cartridge fuel filter	●	Loudspeaker and rearview mirrors	●	Front blade and rear outrigger	●
Engine oil cooler	●	Safety belts and fire extinguisher	●	Front and rear outrigger	○
Radiator with protection grill	●	Cup holder and cab lamp	●	Maintenance-free transmission shaft	●
Sub-coolant tank	●	Ashtray and safety hammer	●	Traction hook	●
Fan deflect cover	●	Storage compartments	●	Tyre mudguards	○
Shock-absorbing mounted engine	●	Pilot control cut off rod	●		
Auto-idle	●	Electro-proportional joystick	●		
Electronic viscous clutch fan	●	Screen split display	●		
Fuel refilling pump	●	Electric fuel throttle for travelling	●		
		One button start and stop	●		
		Air suspension seat	●		

- Standard
- Optional

Equipment

Hydraulic system		Superstructure	
Variable displacement axial piston pump	●	Electro-proportional joystick	●
Independent steering and brake gear pump	●	Adjustable flow	●
Variable displacement axial piston motor	●	Swing torque proportional control	●
Main control valve with pressure relief valve	●	Swing lock	●
Spare oil ports	●	Swing deactivating function	●
Oil suction filter	●	Limited travel speed (35/20 km per hour)	●
Oil return filter	●	Adjustable pressure and flow of AUX_1 pipeline	●
Pilot oil filter	●	Adjustable pressure and flow of AUX_2 pipeline	●
Hydraulic breaker pipeline	●	Auto-suspension cylinder	●
Quick coupler pipeline	●		
Boom suspension system	●		
Travel control system	●		
Swing brake system	●		
Lower boom safety valve	●		
Upper boom safety valve	●		
Arm safety valve	●		
Blade two-way hydraulic lock	●		
Outrigger two-way hydraulic lock	●		
The third large flow auxiliary pipeline	●		
		Fuel level sensor	●
		Hydraulic oil level sensor	●
		Toolbox	●
		Swing brake	●
		Rearview mirror (Left and right side)	●
		Front platform light and turn signal light	●
		Reversing light	●
		License plate light	●
		Controllable reversing alert	●
		Rear camera	●
		Side camera	●
		360° panoramic camera	○

- Standard
- Optional

Equipment

Warning system	Working device	Monitoring instrumentals
Low engine oil pressure ●	Flange pin ●	Working hours and fuel level ●
Engine coolant overheated ●	Welded link rod ●	Engine coolant temperature ●
Fuel insufficient ●	Centralized lubrication system ●	Engine oil pressure ●
Air filter clogged ●	Bucket pins anti-dust seals ●	Travel mileage ●
Fuel throttle knob fault ●	4.6m reinforced welded box-section boom ●	Superstructure aligned indication ●
Low brake pressure warning ●	2.1m reinforced welded box-section arm ●	Real-time travel speed display ●
Low gear shift pressure warning ●	Anti-collision plate ●	
Boom lifting alarm ●		
Audible and visual alarm ●		
Reversing alarm ●		
One button start and stop ●		
Safety belt alert ●		

Air-conditioning system	Other configurations
Air-conditioning and heating ●	Standard battery ●
Air-conditioning control panel ●	Lockable hoods ●
Ventilation system ●	Lockable fuel tank cap ●
	Battery master switch ●
	Auto-lubrication system ●
	Travel cruising ●

● Standard
○ Optional

Service points / Warehouse

