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XE235C
Hydraulic Excavator

Advanced Configuration

Ecological and economical

- Japan ISUZU 128.5kW high-power engine is more fuel saving
- New Japan Kawasaki main pump can ensure high efficiency and reduced leakage
- Efficiency main valve increases overflow pressure and reduces pressure loss
- Smart matching technology ensures higher operating efficiency and lower fuel consumption

Excellent after-sales service

- Global after-sales service system and quick response mechanism
- Real-time technical consultation and maintenance

Multiple applications

- Different boom, arm and bucket combinations can adapt to as many working conditions as possible
- Multi-functional intelligent work tool control system can meet different operating requirements such as digging, breaking and dismantling
- Instantaneous pressurization function copes with complex working conditions

Convenient maintenance

- Easy maintenance design concept makes your maintenance done without dead angle
- Maintenance-free air prefilter

Comfortable operational experience

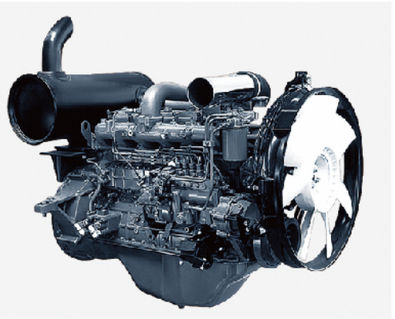
- Air Conditioner and Heator with Double stage air filter ensure the appropriate temperature
- Silicone rubber shock absorber is adopted in the cab
- Air-suspending seat equipped with electric heating function
- Integrated control panel and large display screen provide multiple information
- ROPS and FOPS Cab can improve cab safety

Safe and durable

- Whole brazing technology improves lifespan
- Upgrade undercarriage structure to improve load bearing performance
- Strengthened key stress-bearing parts of chain links

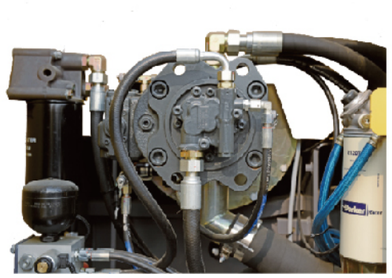
Ecological And Economical

- The whole machine adopts Japan ISUZU 128.5kW high-power engine that featuring with low speed, high torque and high-pressure injection, which can provide stronger power and better fuel economy performance and meet Euro stage IV emission standards.



- New Japan Kawasaki main pump is fully upgraded with large displacement, which is 7% higher than that of the previous generation. It can ensure high efficiency and reduced leakage under the same pressure. Swashplate swing angle increases power density greatly.

- 3、Equipped with new generation of high efficiency main valve with the functions of confluence and regeneration, the relief pressure is increased, the pressure loss is smaller, and the working ability is more outstanding.



- Smart matching technology, the machine can achieve higher operating efficiency and lower fuel consumption, and its fuel efficiency ratio is ahead of the same tonnage models. After continuous optimizations and improvements of the hydraulic system, the control performance is further strengthened, maneuverability is more refined, and leveling and loading performance is better.

Comfortable And Safe

- Air conditioner and heater with double-stage air filtration: the ambient temperature inside and outside can be detected by the sensor and it can be automatically adjusted to a comfortable one.With the adjustable air vents at different positions, it can provide a comfortable environment for the operators.

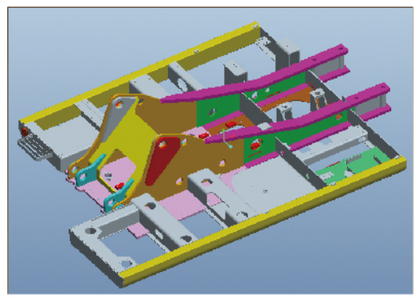
- Silicone rubber shock absorber is adopted in the cab to reduce vibration and impact
- Comfortable high-performance seats: air-suspension seats with electric heating functions can achieve multi-dimensional adjustment and isolation of vibration waves.

- A new generation instrument has an 8-inch large screen display (the largest one among the industry). The page layout is more detailed and the picture is clearer.

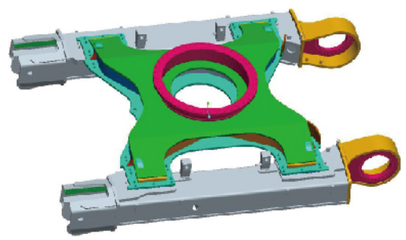
Reliable And Durable

- Adopt the integral brazing technology. New-type radiator with positive pressure degassing type expansion tank can extend the pump life. It can quickly remove the gas within engine and waterway, reduce the rust and meet 50℃ environment operation requirements.

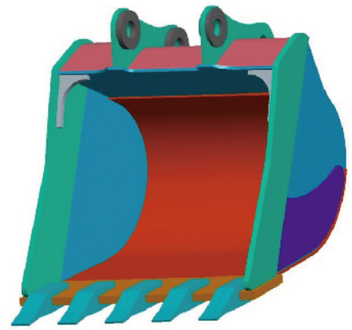
- The turntable adopts a rigid box structure to provide higher strength. The engine mounting base structure is strengthened to improve shock absorption.



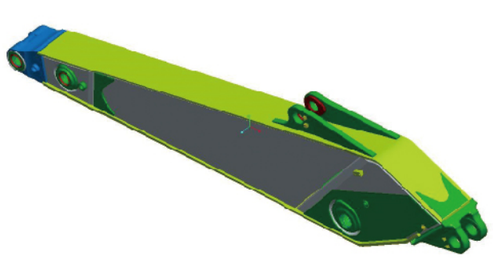
- With main body adopting H-frame rigid structure, the whole machine's strength is reinforced, and the turntable side frame adopts the D-tube structure to improve its ability to resist external impact.
- The travelling mechanism adopts strengthened key parts of the chain rails that take on stress to improve its strength and impact resistance, and the service life of the track is greatly improved. With strengthened X-beam section, and the strength of the end face is greatly improved by increasing the size, thickness and structure of the box beam.

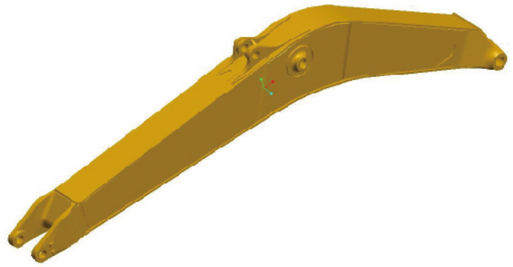


- The butter dish is changed from welding parts to integral stamping parts, which ensures the installation stability of the sealing ring, prevents the sealing ring from wrinkling and improves the sealing performance.
- Replace with the XCMG new second generation bucket to make the force more reasonable and increase the durability.



- Adopt the Finite Element Analysis (FMA) to strengthen the key parts of the boom and arm. Use the new type of shaft locking mode and increase the plate thickness. The arm has the regeneration function, which can fully improve the operation efficiency, coordination and stability of the whole machine.





Maintenance And Service

- (1)Accessible maintenance design reduces maintenance time by 10%. Integrate electrical box, air filter, diesel filter, oil filter and pilot filter to make maintenance and replacement convenient.

- Adopt maintenance-free air prefilter, which has self-cleaning function

- A wide range of after-sales service system and quick-response rescue mechanism can ensure that you use machine at ease.

Multiple Application Conditions

The independently developed multi-functional intelligent work tool control system can be widely used for irrigation and water conservancy, river dredging, municipal construction and small mine construction. It can meet different operating requirements such as digging, breaking and dismantling, and its working condition adaptability is further strengthened.

It is designed with instantaneous boost function, and you can immediately raise the boom speed or the travel traction by pressing this button.

The new control system uses CAN bus, with the monitor for display and the controller for signal acquisition and output, the monitor, GPS controller and engine ECM are connected via CAN bus, which can achieve faster data management and more efficient control.

Standard Equipment

	Name of equipment	XE235C
Engine	Engine model CC-6BG1TRP	
	Automatic preheating	
	Oil-water separator with water level indication sensor	
	Radial seal air cleaner	
	Air prefilter	
	Radiator dust screen	
	Fuel marker	
	Air pressure difference indicator	
	Automatic idle speed	
Hydraulic system	Boom/arm flow regeneration	
	Auxiliary hydraulic valve	
	Reverse rotation damping valve	
	Automatic rotation parking brake	
	Hydraulic buffer valve	
	Straight hydraulic circuit	
	Boom priority valve	
	Rotary logic valve	
	Hydraulic oil ISO VG 46	
	Rotary anti-sway valve	
	Gauge pressure monitoring	
Cab and interior trim	Fully adjustable mechanical suspension seat	
	Adjustable seat armrest	
	Seat belt (51 mm [2 "] wide)	
	Openable windscreen with auxiliary device	
	Double laminated windshield and other toughened windows	
	Sliding door upper window	
	Bi-directional air outlet air conditioner with defroster (automatic type) (pressurization function)	
	Color liquid crystal display capable of displaying warning information, filter / liquid replacement information and working hours	
	Control handle	
	Travel control pedal with detachable manual control lever	
	Two stereo speakers	
	Beverage cup holder	
	Coat and hat hook	
	Cleanable floor mat	
	Air conditioning system	
	High and low gears shift	
	One-key boost mode	
	Top sunroof	
	Intermittent multi-gear wiper	
	Cup holder/envelope	
	Radio receiver	
Safety and security configuration	Driving door locks and cabin locks	
	Alarm horn	
	Isolation plate between engine and oil pump chamber	
	Rear window emergency exit	
	Battery circuit breaker	
	Boom and arm retaining valve	
	Overheat alarm	
	Safety handrails and pedals	
	Anti-skid plate/anti-skid paste	
	Hydraulic safety locking lever	
	Emergency escape hammer	
	Left and right rearview mirrors	
Chassis system and shield	Bottom frame traction ring	

Chassis system and shield	600 mm (24 ") three-rib track shoe
	Protective device kit: chassis bottom sealing plate, walking motor sealing plate
	single guardrail device of track
Working device	Boom6.0m
	Arm2.96m
	Bucket 1.0m³ strengthened bucket
Lamp	Boom working lamp at left and right side
	Working lamp installed on the right side of storage box
	Lamp inside the cab
	Front working lamp installed on the top of cab
Electrical system	Battery (2×850CCA)
	50A Alternator
	4.5KW start motor
	24V Cigar lighter
Counterweight	5.4t Conuterweight
Technology	XEICS intelligent system

Optional Equipment

	Name of equipment	XE235C
Engine	Oil-water separator with heater (24V)	
	Oil bath type air prefilter	
	arm concentration	
	Fuel refueling pump 50L/min	
Hydraulic system	Hydraulic pipeline:quartering hammer	
	Operating modes switch	
	Hydraulic oil ISO VG 32, 68	
	Spare valve disc	

Cab and interior trim	Retractable seat belt (51 mm [2 "] wide)
	Heating and cooling storage box
	Fire extinguisher
	Explosion-proof valve of boom and arm pipeline
	Reserved switch for auxiliary equipment
	Rotating alarm light
	Counterweight reaview mirror
	Falling object protective structure (FOPS)
Chassis system and shield	600 mm (24 ") double-rib track plate
	700 mm (28 ") double-rib track plate
	800 mm (31 ") double-rib track plate
	700mm (28 ") three-rib track plate
	800 mm (31 ") three-rib track plate
	Track rubber block
	Full-length track guard (two-piece, lower frame needs to be replaced)
Working device	Arm 2.5m
	1.0m3 Rock bucket
	1.0m³ strengthened bucket
	1.1m3 Earthwork bucket
	Quick coupler
	Hydraulic breaker
	Hydraulic thumb pliers
	Ripper
	Vibratory plate compactor

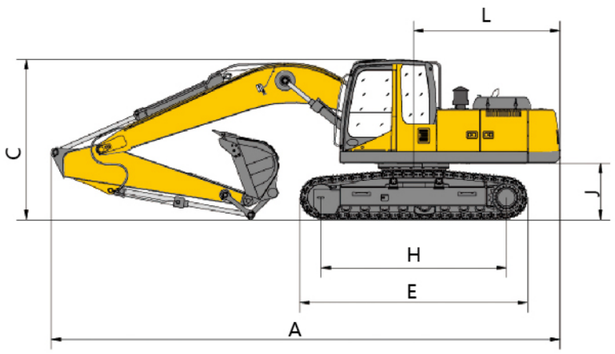
Main Specifications

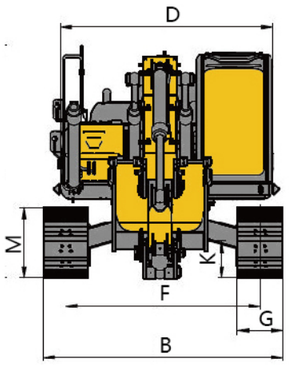
Item		Unit	Parameters
Model		/	XE235C
Operating weight		Kg	23500
Bucket capacity		m³	1.0-1.1
Engine	Model	/	Isuzu CC-6BG1TRP-08
	Direct injection	/	√
	Four strokes	/	√
	Water cooling	/	√
	Turbo-charging	/	√
	Air to air intercooler	/	√
	No. of cylinders	/	6
	Rated power/speed	kw/rpm	128.5/2100
	Maximum torque/speed	N.m	637/1800
	Displacement	L	6.494
Main Performance	Travel speed（H/L）	km/h	6.0/4.0
	Swing speed	r/min	12.1
	Gradeability	°	≤35
	Ground pressure	kPa	48.9
	Bucket digging force	kN	176
	Arm digging force	kN	125
	Maximum tractive force	kN	194.8
Hydraulic System	Main pump	/	Two piston pumps
	Rated flow of main pump	L/min	2×246
	Main safety valve pressure	MPa	34.3/37
	Travel system pressure	MPa	34.3
	Swing system pressure	MPa	25
	Pilot system pressure	MPa	3.9

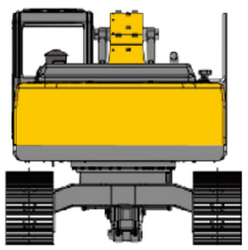
Item		unit	Main specifications
Oil Capacity	Fuel tank capacity	L	400
	Hydraulic tank capacity	L	240
	Engine oil capacity	L	25
Standard	Length of boom	mm	6000
	Length of arm	mm	2960
	Bucket capacity	m³	1
Optional	Length of boom	mm	-
	Length of arm	mm	2500
	Bucket capacity	m³	1.1(Earthwork bucket) 1.0（Rock bucket）

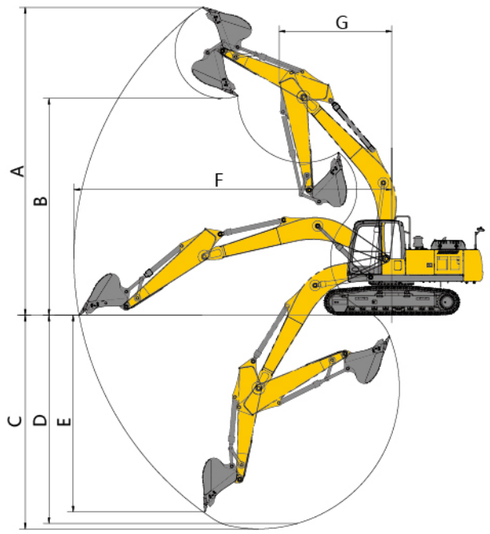
Dimensions

Item		Unit	Parameters
Apperance size	A Overall length	mm	10160
	B Overall width	mm	2990
	C Overall height	mm	3100
	D Width of platform	mm	2830
	E Track length	mm	4255
	F Overall width of chassis	mm	3990
	G Track shoe width	mm	600
	H Wheel base of crawler	mm	3462
	I Track gauge	mm	2390
	J Counterweight clearance	mm	1050
	K Min. ground clearance	mm	485
	L Min. tail swing radius	mm	2985
	M Track height	mm	942









Working Range

	Item	Unit	Parameters
Working scope	A Max. digging height	mm	9595
	B Max. dumping height	mm	6725
	C Max. digging depth	mm	6960
	D Maximum depth cut for 2240mm(8 ft) level bottom	mm	6750
	E Max. vertical wall digging depth	mm	6090
	F Max. digging radius	mm	10240
	G Min. swing radius	mm	3850

Lifting Capacity

Lifting point height (m)	Rated lift capacity – Straight ahead (back) (kg)						Rated lift capacity – over-side (kg)					
	Lifting point radius (m)					Lifting capacity at maximum radius	Lifting point radius (m)					Lifting capacity at maximum radius
	1.5	3	4.5	6	7.5		1.5	3	4.5	6	7.5	
7.5						*4412						*4412
6				*5650	*4793	*4186				*5650	4334	*4186
4.5			*7315	*6404	*6675	*3918			*7315	5982	4260	3611
3			*6500	*7477	6512	*3947			*6500	5666	4113	3321
1.5			*11608	*8538	6342	*4147			7941	5367	3961	3213
Ground			*12670	8603	5925	*4569			7629	5161	3586	3265
-1.5		*9452	*12841	8501	6170	*5370		*9452	7543	5073	3806	3509
-3	*10358	*15194	*12236	8539		*6612	*10358	14757	7611	5106		4078
-4.5		*17013	*10570			*7771		15176	7844			5477

Capacities marked with an asterisk (*) are limited by hydraulic capacities.