

XE80D

Hydraulic Excavator



Advanced Configuration

Ecological and economical

- ▶ Adopting new environmental friendly Yanmar engine, low speed torque, low fuel consumption, high operating efficiency, reliable and durable
- ▶ The advanced load-sensitive control system, low energy consumption.

Multiple applications

- ▶ Short tail design and short slewing radius can achieve flexible operation in confined space
- ▶ Multiple additional configurations to adapt to a variety of operating requirements

Comfortable operational experience

- ▶ Fresh air conditioning system to ensure the appropriate temperature
- ▶ Toughened glass cockpit with good safety view
- ▶ Detailed design concept improves comfort



Excellent after-sales service

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

Convenient maintenance

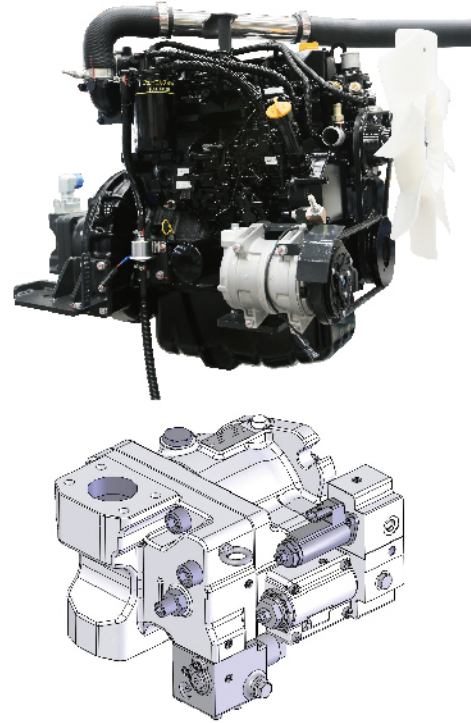
- ▶ Easy maintenance design, open the engine hood for no dead angle maintenance
- ▶ The new toolbox is easy to place the commonly used maintenance tools

The newly optimized working device

- ▶ Integrated body design
- ▶ Strengthened structure and stress dispersing
- ▶ Upgrade undercarriage to improve load bearing performance

Ecological And Economical

- ▶ Use of Yanmar naturally aspirated engine widely used in the industry, with the features of small displacement, low fuel consumption, low-speed and large-torque, is perfectly matched the excavator operation conditions. The engine uses direct injection technology with good oil adaptability. The mechanical speed regulation is upgraded to electronic speed regulation, the speed control is more stable, not only reduce the fuel consumption, but also effectively reduce the “black smoke” from the engine.
- ▶ First use of the electronically controlled main pump in the industrial same tonnage product, to control the maximum load torque of the main pump according to the maximum output torque under the different engine speed, which can really achieve the perfect matching the load and power output and greatly improve the engine energy utilization rate.
- ▶ The hydraulic control system uses the advanced load-sensitive control system, low energy consumption, fast response, precise control and small impact. The output flow of the variable piston pump is controlled according to the load feedback signal, which always adapts the requirement of the multi-way valve spool opening, with no more excess flow loss, to achieve load-independent flow distribution, better flexibility for the conformable movement, and easier to achieve ground grading movement.
- ▶ The new generation XE80D bucket capacity is enhanced more 10% than C Series products, the bucket capacity is increased to 0.33m³, improving the working efficiency of earthmoving operation.
The larger fuel tank capacity, with ultra-low fuel consumption level, extends the machine’s continuous operation time.
- ▶ According to the improved and upgraded hydraulic system, the hydraulic tank capacity is re-optimized, which is 11% lower than the C Series products, significantly reducing the machine maintenance costs.



Comfortable And Safe

Comfortable

- ▶ The new spacious and comfortable cab with beautiful appearance, the cab rear column adopts hidden type design with small blind area, which can improve the safety of operation.
- ▶ The standard equipped high-power air-conditioner, with reasonable air conditioning outlet layout. The front window glass has the air conditioning outlet, with a defrost function, which can eliminate fog, so as to ensure the safe driving.



- ▶ The cab is added with ashtray, cup holder, storage box, document folder and backup power jack, which greatly improve the comfort and convenience of the driving.

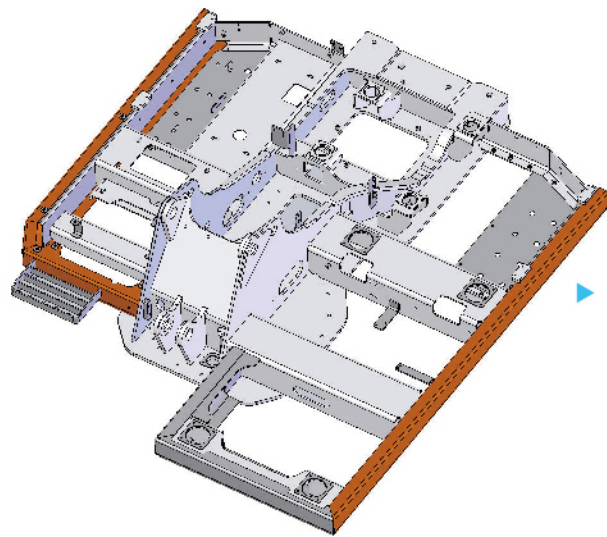
The left door glass of the cab is designed as a sliding window for easy communication.



Reliable

The newly optimized working device

- ▶ The position which has larger boom stress is locally strengthened, the arm uses the "U-shaped plate" by compression molding and is welded with upper cover plate, having a longer service life. The standard new type bucket makes the unloading more easily and quickly.



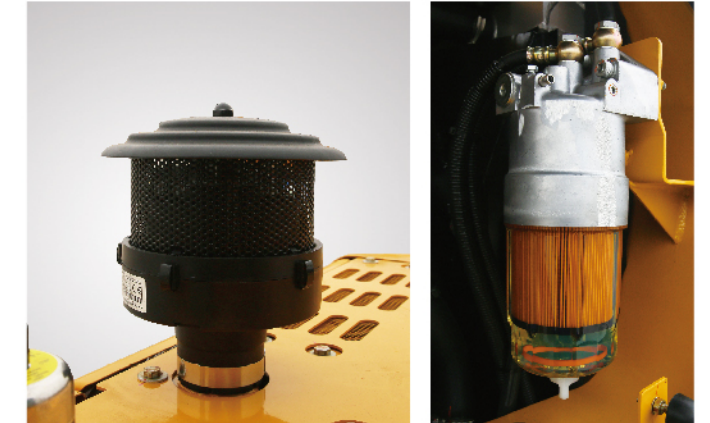
Highly reliable rotation platform

- ▶ The rotation platform main beam adopts the "H-beam" structure, and the side beam adopts "D-shaped section" structure, having higher overall reliability.

Reinforced chassis structure

- ▶ The chassis structure uses the X-shaped frame, the lower frame is formed a large cross-section box by the stiffener plate, with good load bearing performance, which can apply evenly the superstructure weight on the track beam, reduce the local stress concentration of the track beam. Using international standard reinforced track, which is more reliable and more convenient for maintenance.

- ▶ The new air intake pre-filter, can effectively filtrate the large particles of impurities into the air filter, which extends the service life of air filter.
- ▶ The equipped large Euro-III high-precision rough fuel filter with the oil-water separator, the filtration area is 1.5 times of other same tonnage models.



Intelligent Control

- ▶ The engine will automatically reduce the engine speed when the control joystick is in the neutral position, so as to reduce unnecessary fuel consumption, while reduce the noise and exhaust emissions, when the joystick is moved again, the engine speed will be restored.
- ▶ The new mode control function (mode switch F2 key on the instrument): E – economy model (low fuel consumption priority); P - efficiency mode (workload priority). Customers can choose the suitable mode according to the actual requirement of the operation conditions, and then achieve the maximum benefits.
- ▶ The machine also has the engine fault diagnosis function.

Maintenance and service

- ▶ After the hood is opened, the maintenances of diesel engine filter and oil filter are within reach.
- ▶ A wide range of after-sales service system, quick-response rescue mechanism to ensure that you use at ease.
- ▶ The glass liquid water bottle is installed on the back side of the cab to facilitate the observation of the glass water level.
- ▶ The slewing motor gear oil filling port is led out to the fuel tank for easy filling of the gear oil, which reduces maintenance difficulty and greatly reduces maintenance man-hours.





Multiple Applications Conditions

The short tail design with short slewing radius, it can realize complex operation together with upper structure slewing to ensure that the digging is parallel with wall surface in narrow space through the cooperation of upper structure slewing so as to easily deal with various operating conditions. Operation in narrow lane can also be done through the swing of the dozer blade

With one set of high pressure quick coupler pipeline and two sets of back-up pipelines with adjustable flow, it can provide more attachment options and the adjustable flow control allows user to operate more smoothly.

Standard Equipment

	Name of equipment	XE80D
Engine	Engine model	4TNV98
	Emission level	National3
	Manual preheating	
	Air cleaner (equipped with air cleaner blockage indicator)	
	Double filter element of air filter	
	Air prefilter	
	Collector type engine oil filter	
	Collector type big capacity ash fuel pre-filter	
	Collector type fuel main filter	
	Fan shroud	
	Radiator auxiliary water tank	
	Oil-water separator	
	Electronic fuel speed control	
	55A Alternator	
	Control valve with main overflow valve	
Hydraulic system	Pilot filter	
	Oil suction filter	
	Accumulator	
	Boom/Arm flow regeneration	
	Hydraulic oil ISO VG 46	
Cab and interior trim	Spare valve plate	
	AM - FM radio with digital display	
	All - weather soundproof steel structure cab	
	Ashtray	
	Beverage cup holder	
	Two stereo speakers	

	Engine key switch
	Emergency hammer
	Fire extinguisher support
	Front window washer
	Cleanable floor mat
	Footrest board
	Mechanical suspension seat with cloth cover
	Openable front upper windshield
	Removable front and lower windshield
	Tempered glass sliding door and window
	Intermittent windscreen wiper
Cab and interior trim	Seat belt
	Control handle
	Travel control pedal with detachable manual control lever
	Coat and hat hook
	High and low gears shift
	Sunshade
	Storage box
	Air conditioning system
	Work aid reservation switch
	Cigarette Lighter/Standby Power Supply
	Top sunroof
	Internal lighting in the cab
	Document bag
	Rearview mirror
	LCD liquid crystal monitor
Safety and security configuration	Driving door locks and cabin locks
	Alarm horn

Safety and security configuration	Parking brake for walking
	Rotary parking brake
	Isolation plate between engine and pump chamber
	Battery circuit breaker
	Safety rails and pedals
	Dozer retaining valve
	Anti-skid/slip stickers
	Boom, arm holding valve
	Hydraulic safety locking lever
	Emergency escape hammer
Chassis system and shield	Left and right rearview mirrors
	Front work light
	Roll over protection structure (ROPS)
	Counterweight reflector
	Track tensioning mechanism
	Bottom frame traction ring
	450 mm three-rib track shoe
	Bottom sealing plate of chassis
	Walking motor sealing plate
	Track clamp
Working device	Bulldozer shovel
	Supporting chain wheel and supporting wheel
	Boom 3.72m Arm 1.62m Bucket 0.33m ³ (ISO full bucket)
Electrical system	Battery (1× 120Ah)
	3 kW start motor
	12V power interface

Electrical system	Engine cooling water temperature display
	Fuel level display
	Engine speed display
	Working hour meter
	Engine oil pressure, engine overheat alarm
	Charging indication
	Air filter clogging alarm
	Engine warm-up indication
	Hydraulic oil temperature alarm
	Lighting lamp
Right working light	
Working light mounted in the cab	
Counterweight	Counterweight
Others	Grease gun stand
	Toolbox

Optional Equipment

	Name of equipment	XE80D
Hydraulic system	Hydraulic pipeline: breaking hammer	
	Hydraulic oil ISO VG 32, 68	
Cab and interior trim	Fire extinguisher	
Safety and security configuration	Boom and arm pipe explosion-proof valve	
	Rotating warning light	
Chassis system and shield	Falling object protection structure (FOPS)	
	Track rubber block	
Working device	Bucket 0.18m ³ (Deep groove bucket)	
	Quick connector	

Working device	Breaking hammer
	Hydraulic thumb pliers
	Vibrating tamper
	Hydraulic shear
	High efficiency breaker
	Clam shell bucket
Electrical system	Pipe grabber
	12V cigarette lighter

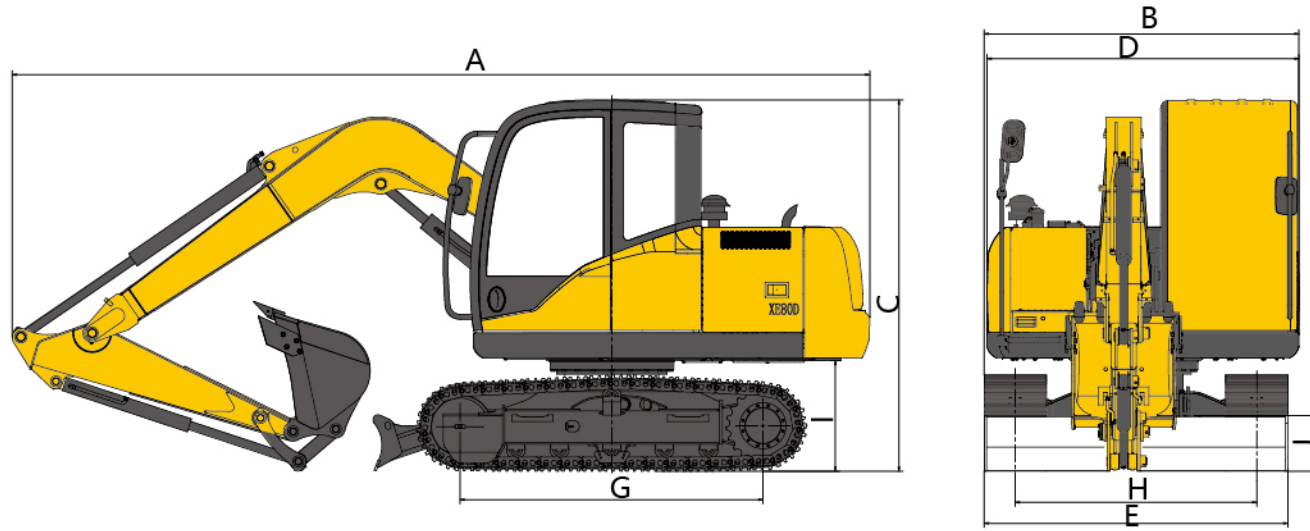
Main Specifications

Item	unit	Main specifications	
Model	/	XE80D	
Operating weight	Kg	7730	
Bucket capacity	m ³	0.33	
Engine	Model	4TNV98-ZCSXG	
	Direct injection	√	
	Four strokes	√	
	Water cooling	√	
	Turbo-charging	×	
	Air-to-air intercooler	√	
	No.of cylinders	4	
	Rated power	kw/rpm	44.8/2200
	Maximum torque/speed	N.m/rpm	225.7-245.8/1650
	Displacement	L	3.319
Main Performance	Travel speed(H/L)	km/h	5.0/2.7
	Swing speed	r/min	11
	Gradeability	°	35
	Ground pressure	kPa	34.85

	Item	Unit	Parameters
Main Performance	Bucket digging force	kN	57
	Arm digging force	kN	38
	Maximum tractive force	kN	68.3
Hydraulic System	Main pump	/	/
	Rated flow of main pump	L/min	176
	Main safety valve pressure	MPa	28
	Travel system pressure	MPa	27.4
	Swing system pressure	MPa	20.6
Oil Capacity	Pilot system pressure	MPa	3.5
	Fuel tank capacity	L	137
	Hydraulic tank capacity	L	82
	Engine oil capacity	L	10
Standard	Length of boom	mm	3720
	Length of arm	mm	1622
	Bucket capacity	m ³	0.33

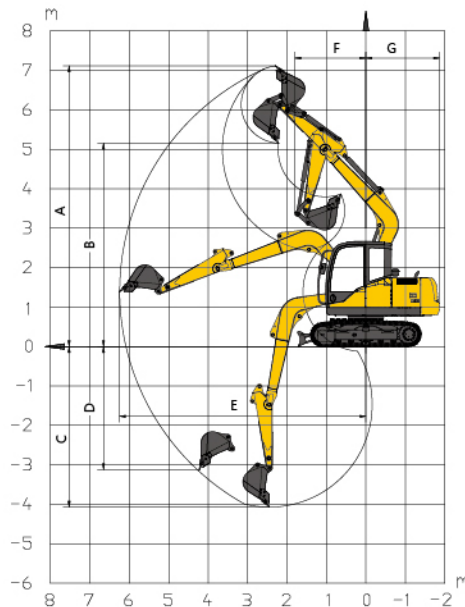
Dimensions

	Item	Unit	Parameters
Apperance size	A Overall length	mm	6215
	B Overall width	mm	2280
	C Overall height	mm	2690
	D Width of platform	mm	2260
	E Overall width of chassis	mm	2200
	F Track shoe width	mm	450
	G Wheel gauge	mm	2195
	H Track gauge	mm	1750
	I Counterweight clearance	mm	800
	J Minimum ground clearance	mm	373
	Dozer blade (width / height)	mm	2200/396



Working Range

Item	Unit	Parameters
A Max. digging height	mm	7120
B Max. dumping height	mm	5160
C Max. digging depth	mm	4070
D Maximum depth cut for 2240mm(8 ft) level bottom	mm	3120
E Maximum vertical wall digging depth	mm	6245
F Max. digging radius	mm	1800
G Min. swing radius	mm	1865
Dozer blade maximum lifting height	mm	363
Dozer blade maximum digging depth	mm	346



Lifting Capacity

Lifting point height (m)	Rated lift capacity – Straight ahead (back) (kg)					Lifting capacity at maximum radius	Rated lift capacity – over-side (kg)					Lifting capacity at maximum radius
	Lifting point radius (m)						Lifting point radius (m)					
	1	2	3	4	5		1	2	3	4	5	
5			*1613			*1615			*1613			*1615
4			*1795	*1732		*1504			*1795	*1732		*1504
3			*2214	*1911		*1490			*2214	*1911		*1490
2			*2864	*2280	*1923	*1547			*2864	2096	1514	*1547
1			*3312	*2442	*2020	*1653			3129	2040	1489	*1653
Ground			*3513	*2586	*2076	*1874			3071	2001	1471	*1874
-1		*4283	*3460	*2580		*2158		*4283	3056	1987		*2158
-2		*4335	*3110			*2266		*4335	3076			*2266
-3		*15878				*2322		6722				*2322

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



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