

工欲善其事
必先利其器

 福建新源重工有限公司
FUJIAN XINYUAN HEAVY INDUSTRIES CO.,LTD.

Tel/服务热线: +86-400-992-0077

Website/网址: www.fjxyzg.com

Email/邮箱: info@xinyuanexcavator.com

中国福建省泉州市洛江区五金机电产业园滨水路

Address: Binshui Road, Hardware and Electrical Industry Park,
Luojiang District, Quanzhou City, Fujian Province, China.



新源智联APP



抖音官方号



微信公众号



Committed to better user experience, we continuously optimize our products. If there is any discrepancy between the appearance, parameters or configuration in this brochure and the actual product, the physical product or contract shall prevail. Specifications are subject to change without notice. Thank you for your understanding!

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新源挖掘机
XINYUAN EXCAVATOR

C120S

轮胎式挖掘机

NEW | WHEELED
EXCAVATOR

FULLY HYDRAULIC

CHINA III Emission Standard

86kw/2200rpm

4m+2.24m



2026

INNOVATION CREATES THE FUTURE



SINCE 1990 专业轮挖制造商

Fujian Xinyuan Heavy Industry Co., Ltd., founded in 1990, developed and manufactured China's first 5-ton 360-degree full-slewing wheeled hydraulic excavator. It has now grown into a modern enterprise focusing on the R&D and manufacturing of small and medium-sized excavators. Over the past three decades, Xinyuan Heavy Industry has been focusing on the development and innovation of engineering machinery, and has obtained a number of technical patents and corporate honors.

Besides, Xinyuan has built an advanced digital plant, equipped with world-advanced laser cutting equipment, automatic robot welding system, CNC gantry machining center, orbital shot blasting processing line, automatic robot coating system and other advanced production equipments, and has realized highly automated production process for cutting, assembly welding, numerical control processing, surface treatment and coating, etc.



1990
Established in 1990



300+
Over 300 employees



200+
Possessing over 200 patents



300+
Possessing over 300 service outlets



1500+
having 1,500 service engineers



100,000+
Having 100,000 users worldwide

XINYUAN's products have won international acclaim for their unique design, exceptional performance, and reliable quality, with a presence now spanning dozens of countries and regions worldwide, including Russia, Southeast Asia, Europe, South America, Central Asia, and the Middle East.



New generation flagship full-hydraulic wheeled excavator

**Efficient**

Better fuel economy

**Comfortable**

More comfort features

**Reliable**

Heavy-duty reinforced design



The C120S series is a new-generation 10-ton full-hydraulic wheeled excavator independently developed by XINYUAN with a brand-new design concept and integrated advantages. It features a highly matched power and hydraulic system, distinctive family-style appearance, luxurious and comfortable operating space, comprehensive safety design, and excellent usability, with leading overall comprehensive performance.

Adhering to green, environmental protection and sustainable development, XINYUAN applies innovative technologies to its new product line, integrating green concepts to cut energy consumption and environmental impact.

From R&D, manufacturing to after-sales, XINYUAN stays with customers, guided by market demand. We deliver high-performance, efficient and reliable products, refine every detail to help customers gain more profits.

Strong power, fuel-efficient

Efficient, energy-saving and environmentally friendly

CHINA III Emission Standard

The engine delivers a maximum power of 86kW and a maximum torque of 470N-m, with stronger low-speed torque, faster response, reduced operating speed and improved fuel economy. It adopts a reinforced body structure featuring high strength, low vibration and lower noise, reducing driver fatigue during long working hours. Equipped with high-quality filter elements, it has better oil adaptability and can withstand heavy-load working conditions and harsh environments.

The engine boasts mature and reliable technology with stable performance. It has been calibrated specifically for wheel excavator working conditions across different speed ranges, delivering better adaptability and economy, longer oil change intervals, lower maintenance frequency and reduced overall operating costs, bringing tangible benefits to users.



Stable performance

Bosch electronically controlled common-rail fuel system for non-road applications features precise and stable fuel delivery, delivering high performance, low fuel consumption and low noise. Rigorously tested through multiple strict performance verifications, it boasts enhanced sturdiness and durability.

Higher operating efficiency

Equipped with a load sensing hydraulic system and electronically controlled main pump technology, it accurately distributes hydraulic power based on engine power and load changes, combines the high-efficiency ranges of the engine and hydraulic system to maximize power loss reduction, delivering faster, smoother composite actions, better controllability and higher working efficiency for the complete machine.

Good environmental adaptability

Passed rigorous full-machine durability testing at 4,700m altitude; adapts better to extreme conditions like high cold, plateau, tunnels and dust, with less power loss at high altitudes and better cold-start performance in extreme cold.

Optimized upper body design



For heavy-load working environments, the upper platform of the C120 series excavator adopts a brand-new architectural design with a more rational layout of working components. While meeting strength requirements, it delivers excellent convenience for maintenance and overhaul. The stable and reliable structure and optimized center of gravity distribution ensure long-term efficient operation of the equipment; even under high-intensity and high-load working conditions, it can maintain the structural rigidity of the upper platform, achieve smoother operation, reduce equipment wear and extend service life.



Upper body optimization

The body adopts a more scientific mechanical design with a load-bearing main girder structure and large-section D-shaped side beams, and is made of high-strength steel. It can withstand impacts on the body during operation, ensuring the frame structure meets the service requirements of the full life cycle.



Working mechanism

Equipped with a 4m boom + 2.24m stick, the bucket width is increased to 800mm. With a dual boom cylinder configuration, it delivers a larger digging range and higher working efficiency. The whole adopts a reinforced structural design for better reliability and durability.



Large-capacity fuel tank

With a 200L fuel tank, it delivers longer continuous operation endurance. Made of polyethylene via rotomolding process, it features better impact, puncture and corrosion resistance with high cleanliness, eliminating the rust problem that plagues metal fuel tanks.



Great ease of maintenance

Openable body panels enable easy access, and maintenance layouts adopt a windowed design. Large-capacity tool boxes and grease bucket racks are configured on the upper and lower body, providing ample storage space, making operation easier and greatly improving maintenance efficiency.



Comfortable driving

Ergonomically designed

More spacious Better riding experience



The cab features large side windows for a broad view, fitted with an adjustable suspended seat with ventilation for a relaxed, comfortable ride. Multi-point 3D air outlets enable quick adjustment of the cabin temperature. The cab is equipped with a lever-style gear shifter and a hand throttle control knob for easy operation. The top features a transparent skylight with a protective mesh, providing a wider view and making it more suitable for forestry conditions. It also comes with practical features such as a reversible control handle, quick-access brake control buttons, a cup holder, storage compartments, and a Bluetooth audio system.

Equipped with a multi-function full-color display, it delivers clearer and finer imaging, showing real-time vehicle information including virtual gauges, indicator icons and machine status. The on-board computer monitors equipment status in real time, diagnoses and alarms faults, making overhaul and maintenance simpler and easier. A separate monitoring image display is configured without affecting gauge display, allowing you to access more information.

Brand-new chassis system

The chassis of Xinyuan C120 series excavator adopts an all-new modular design. It fully accounts for the reliability of core chassis components in harsh working conditions, and integrates multiple convenience-focused designs to greatly facilitate the overhaul and maintenance of chassis parts.

The chassis is equipped with a full hydraulic drive system and a reliable, safe dual-circuit hydraulic disc brake system, delivering superior traction and maneuverability. It also offers more outstanding braking performance, reducing driver fatigue and making operation simpler.



Hydraulic drive system

Designed for harsh working conditions, it is equipped with a heavy-duty drive axle and uses a hydraulic pump to drive the hydraulic motor. Power is transmitted to four wheels through the gearbox and differential, realizing hydraulic drive travel and outputting large torque at low speed.



Hydraulic disc brake

Equipped with a hydraulic disc brake system, it delivers greater braking force, a more linear pedal feel, quicker response, and shorter braking distance. It also offers better heat dissipation with minimal thermal fade, along with a simple, reliable construction and easy maintenance.



Dedicated engineering tire

The tire developed for harsh working conditions adopts a tread pattern with larger ground contact area, delivering stronger grip. The entire tire features better support, and the high-performance rubber compound provides superior wear resistance and puncture resistance, resulting in a longer service life.



New chassis design

The newly designed boarding step is more consistent with the overall appearance of the whole machine, and embeds a larger-capacity tool box. With a larger step area and more reasonable height spacing, it allows drivers to enter the cab more easily from the ground.

Extensible for more functions



Wood grapple

Suitable for wood handling in forestry, replaces manual operation, allows free control of gripping and placement at any angle, features flexible movement and multiple claw options.



Hydraulic rotator

It is equipped with the function of quick replacement for various attachments, supports 360° rotation and left-right tilting, delivering greater operational flexibility and a wider working range.



Electromagnetic chuck

Suitable for magnetic lifting and handling of steel materials such as steel plates and scrap iron, it offers simple, convenient operation with higher work efficiency.



Multiple optional attachments

The quick-change system and various professional attachments developed by Xinyuan Company can expand the application scope of your excavator and help improve production efficiency. You can choose a series of multi-functional attachments including breakers, full-swing clamps, winches, electromagnetic chucks, trimmers, grapple saws, hydraulic wrists, augers, narrow buckets, leveling buckets, forklifts, etc., which are suitable for various working conditions. All attachments are designed to maximize production efficiency and achieve superior durability as much as possible.

Body expansion

The Xinyuan-branded excavator can be optionally equipped with a leg-type chassis assembly for professional working conditions. This assembly includes a front multi-link parallel dozer blade and rear folding outriggers. When performing heavy-load operations such as lifting, extending the outriggers and dozer blade to the ground can increase the span moment of the support surface, effectively improve the balance and stability of the body, enhance terrain adaptability, and ensure safety during operation.

Safety

Regarding the operating environment of excavators, we have made more comprehensive considerations and adopted unique design concepts for safety, which have been integrated into our products to minimize accidents. This includes safety protection for operators on the job: the body image monitoring system, observation mirror and other configurations assist drivers in observing the surroundings, while lights and sounds provide warnings and signals to other external equipment and pedestrians, better safeguarding the safety of our users.

Built on consistent reliability, worthy of your trust.

Xinyuan boasts a senior R&D team and an experienced management & manufacturing team. Our continuous technological innovation, relentless pursuit of production excellence and strict quality control ensure the high quality, high reliability and consistency of our products.

Dedicated to developing industry-leading technologies, we leverage decades of accumulated in-house full-chain R&D and manufacturing capabilities to deliver a variety of outstanding equipment and customized solutions for diverse application scenarios, helping users maximize their value.



Technical R&D capability

Xinyuan boasts an experienced professional technical team. Guided by the vision of "technology reshapes the future", we have focused on independent R&D of engineering machinery for decades, dedicated to delivering diverse innovative intelligent equipment to users.



Manufacturing capability

Xinyuan Company has established an industry-leading digital factory equipped with highly automated production facilities. Through precise control and execution of production processes integrated with information technology, the company guarantees consistent and stable product quality.



Product Line and Standardization

Xinyuan Company's core products are 5-ton to 15-ton excavators, which have been standardized and serialized with strong comprehensive competitive advantages. Relying on superior quality, performance and service, the company has earned excellent reputation and broad market recognition.



Scale and Service Support

Xinyuan Heavy Industry has more than 1,500 service professionals and a large user base, with a presence in dozens of countries and regions worldwide including Russia, Southeast Asia, Europe and the Middle East, and has established a complete global marketing and service network.

Focus on every detail

Quality-oriented

Stay true to the original aspiration

Our corporate culture is always embedded in every attitude and action we take. It drives every ambitious member of our team to pursue infinite creation and challenges, and live up to every trust and expectation placed in us.

From R&D and manufacturing to the terminal service team, we always focus on users' needs and expectations. With rapid response capability, sincere service awareness, rich practical experience and a sound management system, we can provide users with more suitable products and more thoughtful full-process solutions.

From zero to epoch-making products, everything originates from Xinyuan's brand philosophy of passion for creation. In the future, we will continue to explore and expand in cutting-edge technological fields, bringing users products and services with advanced experience.



Standard configuration

Due to continuous product upgrades, specs may differ from brochure.

Contact your dealer for full details!

Engine

- Meets China NRMM Stage III Emission Standard
- Inline four-cylinder, water-cooled, four-stroke
- BOSCH High-pressure Common Rail EFI
- Operating Altitude: 3500m

Hydraulic system

- Load-sensing hydraulic system
- Breaker hydraulic circuit

Upper body section

- Main load-bearing frame
- Side-mounted working device
- Tail counterweight
- Tool box
- Handrail guardrail

Chassis system

- Hydraulic motor drive
- High-low speed adjustable gearbox
- Heavy-duty drive axle
- Oscillating front drive axle
- Hydraulic disc brake
- Rear dozer blade
- Hydraulic steering system
- Boarding step ladder
- Tool box & lithium grease rack
- Special-purpose engineering tire
- Stone-resistant tire liner

Cab

- Multi-function instrument full-color display
- Full-color display for driving recording
- Gear shift lever
- Angle-adjustable steering column
- Ventilated rail-type adjustable suspension seat
- Reversible hydraulic control joystick
- Parking control shortcut button
- Manual throttle knob
- Openable upper windshield
- Transparent sunroof with guard mesh
- Lower windshield protective mesh
- Washable integrated floor mat
- Dome light
- Storage compartment & cup holder

Electrical and lighting system

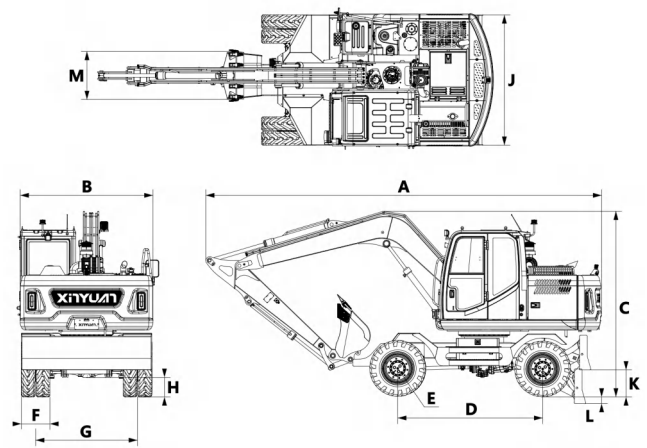
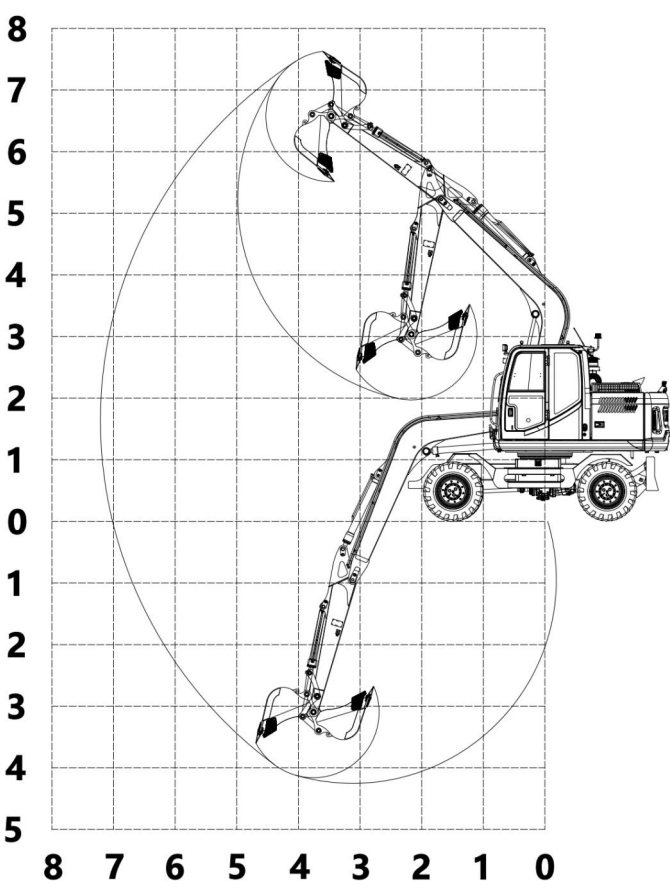
- Maintenance-free battery
- Power cut-off switch for shutdown
- Side and rear cameras
- Boom work lights
- Rear work light
- Headlight
- Tail light
- Side orange warning light
- Top-of-cab orange warning light
- Automobile horn

Other accessories

Tool kit

Performance

产品型号 Model	C120S
发动机型号 Engine Model	玉柴4DK
发动机排量 Engine Displacement	3621mL
总功率/转速 Power/speed	86kw/2200rpm
整备重量 Curb Weight	9050kg
斗容 Volume of Bucket	0.3m³
主溢流阀整定压力 Set Pressure of Main Overflow Valve	28MPa
回转设定压力 Swing set pressure	25MPa
流量 Hydraulic Flow Rate	230L/min
最大挖掘力 Maximum Digging Force	55kN
爬坡度 Gradeability	35°
最大牵引力 Maximum Traction Force	50kN
最高行走速度 Max Travel Speed	30km/h
平台回转速度 Swing Speed of Platform	8.5rpm
燃油箱容量 Fuel Tank Capacity	200L
液压油箱容量 Hydraulic Tank Capacity	165L



External dimensions

A 全长 Overall Length	6830mm
B 全宽 Overall Width	2290mm
C 全高 Overall Height	3210mm
D 轴距 Wheel Base	2500mm
E 轮胎型号 Tyre	7.50-20
F 轮胎接地宽度 Width of Grounding	490mm
G 轮距 Wheel Track	1755mm
H 最小离地高度 Min Height Above Ground	328mm
J 推土板宽度 Width of Bulldozing	2250mm
K 推土板最大上升量 Rising distance of Bulldozing	455mm
L 推土板最大下降量 Height of Bulldozing	130mm
M 标配铲斗宽 Width of bucket	800mm
动臂长度 Boom length	4000mm
斗杆长度 Arm length	2240mm

Scope of work

最大挖掘距离 Max Digging Reach	7375mm
最大挖掘深度 Max Digging Depth	4390mm
最大挖掘高度 Max Digging Height	7765mm
最大卸载高度 Max Dumping Height	5650mm
前部最小回转半径 Min Front Radius	2530mm
尾部最小回转半径 Min Tail Radius	2030mm

The product appearance and specifications in this brochure are for reference only and may differ from the actual product. Please refer to the physical product or contract for the final details.