

SAGMOTO

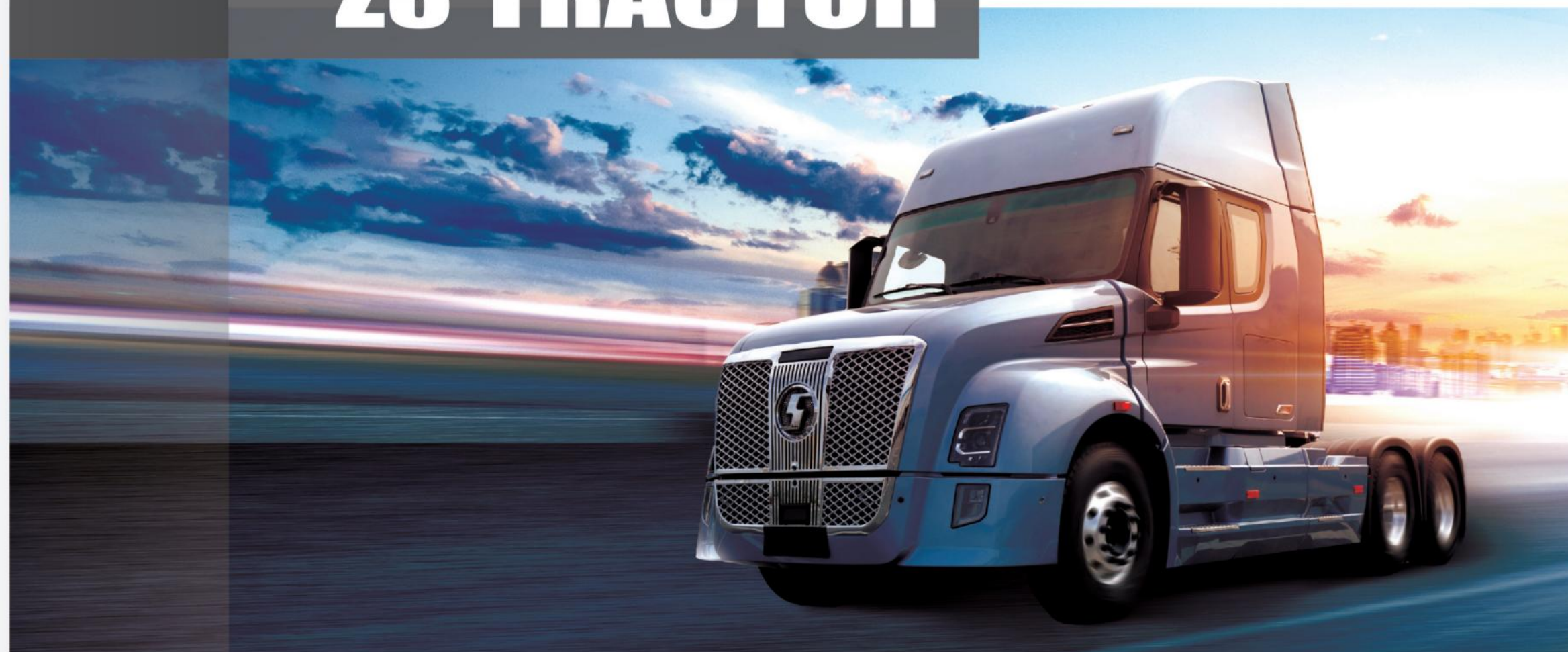
SHAANXI AUTOMOBILE GROUP COMMERCIAL VEHICLE CO., LTD.

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SAGMOTO COMMERCIAL VEHICLE

Z3 TRACTOR



WHO WE ARE ...

- Shaanxi Automobile Holding Group Co., Ltd. is a large-scale automotive enterprise, with 32,000 employees and total assets of 5 billion USD, founded in 1968. The business covers R&D, production, sales and aftermarket of complete vehicle and auto parts. In 2022, it ranks the 281th among the top 500 Chinese Enterprises and the 129th among the top 500 Chinese manufacturing enterprises. It is one of the important Chinese military truck manufacturers.
- SAG Commercial Vehicle Co., Ltd. is the core subsidiary corporation of Shaanxi Automobile Holding Group, located in the famous historic and cultural city Baoji of Shaanxi Province. The factory is built in accordance with the standard of industry 3.0, with total investment of 6.56 billion USD, covering an area of 329.47 acres. After fully built, it will have the capacity of producing 200,000 commercial vehicles per year. The products cover more than 200 varieties such as light trucks, medium trucks, heavy trucks, new energy vehicles and special vehicles.
- Over the past more than a decade, the Group has been devoting itself to expanding the international market. We have exported a total of 220,000 complete vehicles to more than 140 countries and regions around the world, and have got certification like EAC, ECE and GCC. we have achieved the bulk assembly and sales in more than 20 countries, including Algeria, Kazakhstan and so on.
- SAGMOTO is a new brand registered by Shaanxi Automobile Holding Group for overseas markets. With the idea of "making trucks that users like and trust", we provide overseas users with customized solutions to products and accessories produced by SAG Commercial Vehicle Co., Ltd. to meet the diversified needs of the local market. In future, we will further promote the localized assembly and sales. While continuously improving after-sales service, we will also cooperate with local partners to carry out innovative financial support, forming a new pattern of business development that the products will integrate with services deeply.

SAGMOTO, hand in hand with you!



03/04 SUCCESS
WITH
QUALITY



SAFETY...07/08
ECONOMY...09/10
COMFORT...11/14

SAGMOTO Z3 is ...

Z3 nose tractor is a new product developed for clients' high-end transportation requirements.

By adopting the forward R&D process, the vehicle configuration and performance are superior to existing products, and have prominent advantages in safety, economy and comfort.



APPEARANCE FEATURES

- Z3 has a tall and mighty appearance, distinctive in recognition. Its streamlined shape shows a gentleman's elegance.
- Our designers have accurately captured the future trend of industrial design closely, and have integrated advanced design concepts into this
- The color of Z3 usually includes slate gray, moon shadow gray, spar blue, sky blue, lime green etc., which will present you a sense full of security, intelligence and technology.



SAGMOTO PRODUCES TRUCKS YOU LIKE AND TRUST



07/08
SUCCESS
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SAFETY

The concept of safety has been overall integrated into the process of Z3's design, test and production.

- Thanks to the design that engine is positioned in front of the cab, the vehicle body is closer to the ground and has a lower center of gravity, making the tractor better resist cartwheel. When a forward collision occurs, the front cover of the engine can cushion most of the impact force and ensure the safety of drivers and passengers.
- The "closed-ring cab frame" is made of ultra-high strength steel, which can maximize the safety of drivers and passengers.
- Cooperated with KNORR and WABOC, Z3 is integrated with industry leading breaking technology like ABS, ASR and EBD. and EBS, ESC, AEBS, etc. are optional.
- Z3 nose tractor can be equipped with Voith hydraulic retarder. The retarder is able to undertake more than 80-90% of the vehicle braking tasks, so that the service brake is always in a cold state and can respond to emergencies at any time, avoiding the risk of brake hub cracking, or tire explosion caused by high temperature, or even brake failure, and it can also reduce the tire wear. Therefore, the service life of friction pads can be extended by 4-6 times and the service life of tires can be extended by 1.6 times.
- The safety has been greatly improved when suffering from dangerous long downhill road. In addition, this hydraulic retarder adopts a unique rotor separation technology, which can further reduce idle power loss and fuel consumption. It can save fuel up to 0.1-0.3L per hundred kilometers. Moreover, because the deadweight of the retarder is only 52 kg, it can completely replace the water spraying device which weighs up to 1 ton or more, and effectively reduce the weight of vehicle and improve the economy.
- Electric adjustable electric heated rearview mirrors are standard configuration. They can realize quick defrosting and defogging in cold weather to ensure safe driving.

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09/10

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FUEL ECONOMY

The air resistance of the nose tractor is naturally lower than that of the flat-head tractors. Z3's streamlined design is optimized by aerodynamics, so the coefficient of wind drag is effectively reduced and the fuel economy is optimized as a result.

With the help of AVL Cruise, we simulate and calculate the powertrain matching to make it reach Optimal state and achieve best fuel economy while ensuring the power required by vehicle operation conditional states.

With the concept of lightening design, Aluminum alloy, glass fiber and composite materials are used in many places of Z3. It can effectively reduce the curb weight while ensuring the bearing capacity.



13/14 SUCCESS WITH QUALITY

COMFORT

- The glass of the windshield and the side windows has low light transmittance, that provides high privacy.
- Inside the cab, there is a super large storage space. We fill the idle space at the top and front with several storage hoppers. The total capacity of these hoppers reaches 1100L, which can carry luggage of different specifications.
- The inner side of the cup holder is equipped with a limiting device to prevent the cup from vibrating.
- The rest area behind the cab is designed with upper and lower berths of 92cm width. The left side of the lower berth can tilt upward with a certain angle, which is convenient for drivers or passengers to lean on half lying for leisure reading or playing mobile phone. Under the lower berth, there is a car-mounted drawer-type refrigerator, a water dispenser, and four 220V, 50HZ charging sockets which support two-phase and three-phase sockets.
- A retractable small table board, designed between the mattress of lower berth and refrigerator, can be used for dinner. There are control buttons for lights, audio and Bluetooth on the left of the rear window. You can control multimedia in the rest area conveniently. Encircling curtain can achieve full coverage of the front windshield, the side windows and the rear window, giving people a safe and private rest space. The upper berth, equipped with anti-falling net and a foldable ladder, can be folded to save space when it is in idle.



STRONG HEART American Cummins

Cummins engine is specially designed for efficient logistics, more powerful, more economical, and more reliable. Complete service network, regional support system and digital cutting-edge means provide customers with more convenient service solutions.



Eaton Gearbox

Century-old Brand, Mature and Reliable. Continuous Innovation and Self-Transcendence. Intelligent, Light and Economical.



Fast Transmission

World Renowned Brand. Stable and Reliable Performance. Accessories Obtained Easily.



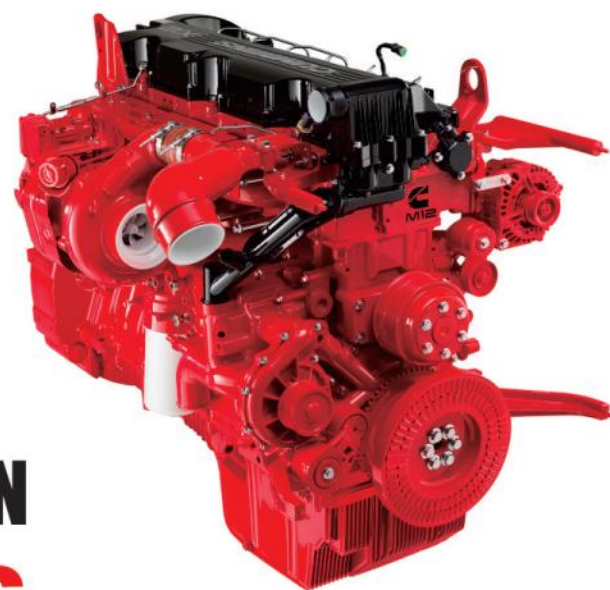
HANDE AXLES

Globalized Parts Supply & Aftersales Services. Longer Life Span Provide Higher Economy. High Transmission Efficiency & Low Energy Consumption. Disc Brake Is Safer.

W W . S a g m o t o . c o m

17/18

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AMERICAN Cummins

- Cummins is the world biggest independent engine manufacturer, owning over one-hundred-year history. The annual sales volume remains above 1.3 million units.
- Cummins engine adopts lightening and modularized design. The weight is 300 kg lighter than other Cummins products. The use of high-pressure common rail fuel injection system and intelligent speed control makes fuel combustion more efficient. high torque at low speed makes climbing more easier, and the acceleration ability of standing start and overtaking is improved by 13%. Because of the maintenance period long to 100000 km and lower fuel consumption, it has substantial improvement in economy. Variable valve exhaust brake brings more efficient braking, and your driving will be safer.
- Cummins has regional headquarters in Australia, South Africa, Russia, the United Kingdom, the United Arab Emirates and Mexico, and sales service outlets in Malaysia, Vietnam, Singapore, Thailand, the Philippines and other countries in Asia.





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- Fast is the world biggest commercial transmission brand, with an annual production and sales of 1.2 million transmissions and 50 million gears. It has more than 1700 core technology patents and more than 11 million market holdings.
- Fast transmission adopts double-intermediate-shaft structure, having the advantages of strong bearing capacity, wide range of speed ratio, strong climbing ability, efficient fuel saving and easy operation.
- Fastest transmissions have been selected as a fixed supplier to support thousands of vehicle models by more than 150 domestic and overseas automotive OEMs. Its products have widely exported to North America, Northeast Asia, Southeast Asia, Eastern Europe, South America, the Middle East and other countries and regions.



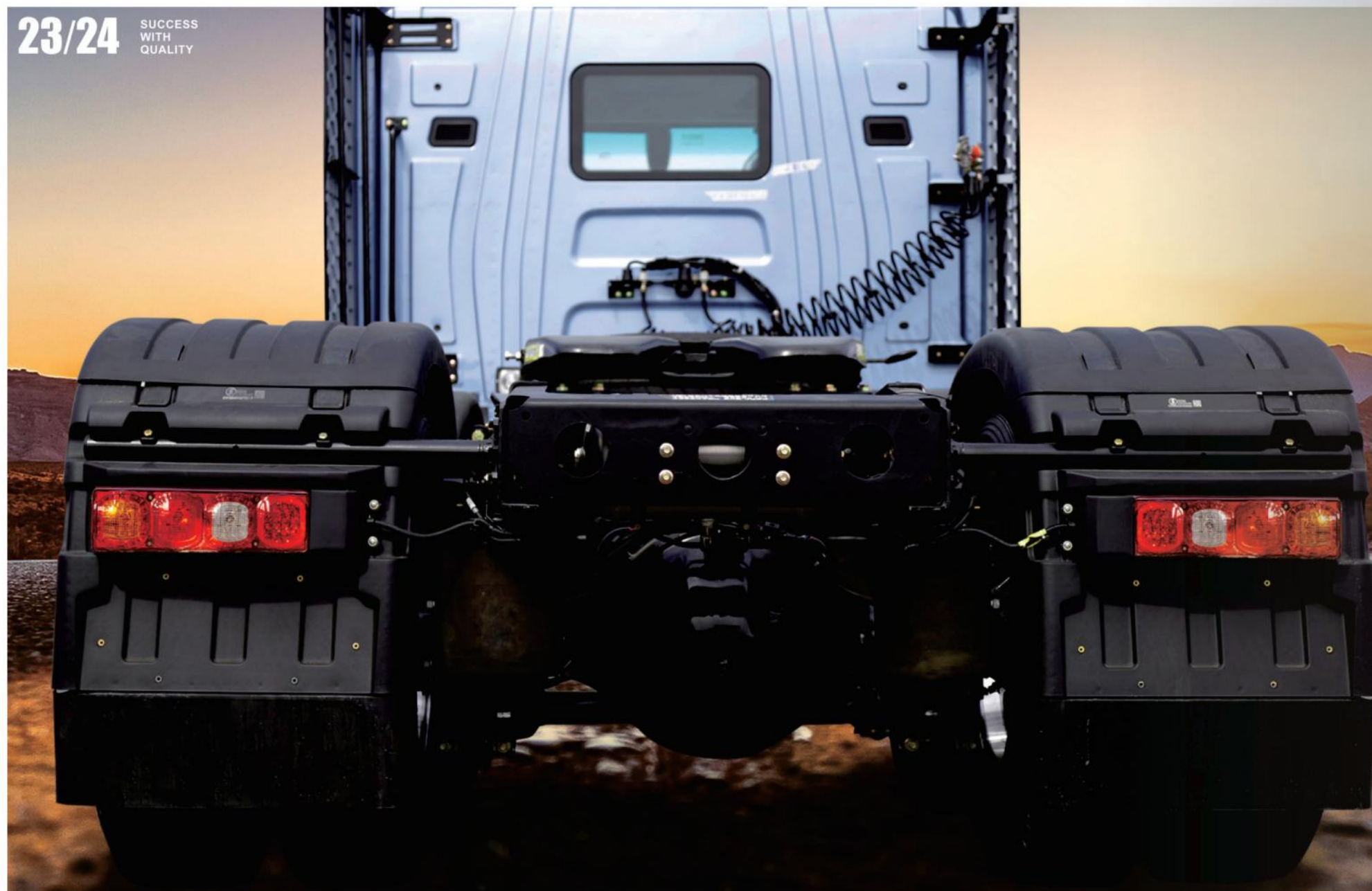
HANDE AXLES

- Hande has global market holdings of 5.4 million axles. With 36 central warehouses and 1150 truck service outlets all over the world, Hande can provide users with all-round services.
- With a super long oil change cycle of 100000km and a maintenance-free period of the wheel hub reduction gear up to per 500000km, the service life of the axle is up to 1.8 million kilometers, which guarantees a high attendance.
- Excellent gear tooth surface reverse drag technology can make the energy get maximum recovery. With the highly integrated electric drive axle technology, the deadweight is lighter and the system efficiency is higher. As a result, under the same load condition, the rear axle transmission efficiency is up to 94.5% and the noise under the common working condition is as low as 70dB, and the chassis space get released, too.
- Both of the front axle and the rear axle of Z3 are equipped with disc brakes, to effectively help heat dissipation and improve driving safety.



23/24

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ASSISTANT DRIVING

By applying advanced technology, Z3 tractor can interact and communicate with you.

In terms of intelligent monitoring and warning, Z3 is equipped with right-turn warning, reversing buzzer, brake pad wear warning, door ajar warning, forward collision warning, lane departure warning. And tire pressure monitoring, tire burst emergency safety device, pedestrian collision warning and driver status monitoring system are optional.

It is equipped with a 10-inch intelligent central control screen, and supports multiple control means, such as touch screen operation, voice control and steering wheel button control, making the operation more convenient. The central control screen has integrated many functions, such as air conditioning control, vehicle control, navigation, CarLife and others, and it can display the fault diagnosis and maintenance services intuitively and plainly, and it can also display high-definition all-round view images around the tractor to eliminate blind areas of vision.

A series of auxiliary functions help Z3 stand out among high-end heavy trucks, such as one-button start, remote control central lock, automatic headlight activation, LED daytime running lights and cornering auxiliary lighting.



25/26 SUCCESS
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Zenith



MULTIPLE ROAD/LOAD CONDITION TESTS & VERIFICATION

Based on multiple trial production of prototype vehicle, Z3 has been tested and verified in various extreme environments, such as the extreme cold area, the humid and hot area, the plateau area, the mountain area, and the intensified road.

Vehicle performance such as power, economy, durability has been tested by many times.

To ensure the reliability of spare parts, we have conducted series of performance tests on core components.

To meet the demand on long-distance transport in the plateau region, Z3 technical team has carried out a number of important improvements for adaptability and differentiation on the basis of local road condition analysis and driving habits research.



SAGMOTO Z3

MODEL	SX4189C51
Model Driving	4×2
Engine	Cummins ISGe5-490
Transmission Box	Eaton Cummins EHDN-26N112C-R
Retarder	Voith
Steering Axle	HDZ
Driving Axle	HDZ469
Saddle	JOST 50# / 90#

29/30
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