



**SHACMAN**  
Trucking Made Better

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SHACMAN Value

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SHACMAN Global





SHACMAN

# Value

Customization | Reliability | Optimized TCO  
| Assured Support | Clean Energy

# Challenges & Opportunities



Poor heat and humidity tolerance  
Frequent mining chassis failures  
Configurations mismatched with operating conditions

## Poor vehicle adaptability

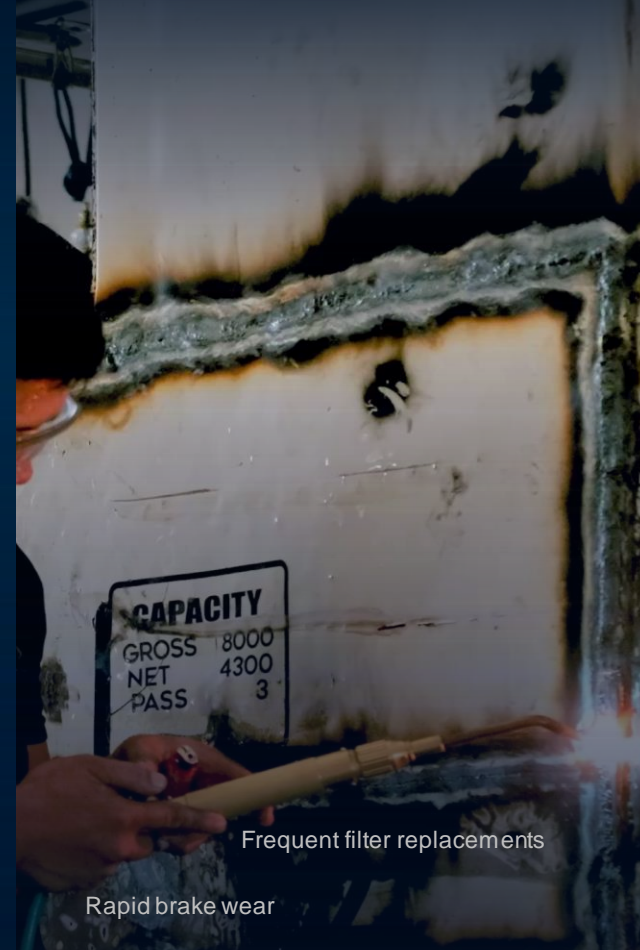
Frequent changes in regulations  
Differences in standards between countries



High fuel consumption when climbing under heavy loads  
Varying qualities of fuel

## High fuel costs

Fluctuating fuel prices  
Poor road conditions lead to high fuel consumption  
Distrust of electric vehicles



Frequent filter replacements  
Rapid brake wear

## Expensive maintenance

Rapid tire wear  
Frequent electrical faults  
No transparency in fee structure



Haphazard fleet management  
Insufficient after-sales support

## Poor access to service

Downtime due to shortages of parts  
Inadequate driver training  
Poor quality of aftermarket parts

# Challenges & Opportunities

## Customization · Reliability · Optimized TCO · Assured Support

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# Customization – Specific Scenarios

# 31

We have identified 31 distinct transport scenarios for our heavy-duty trucks

# Customization - Tailored Vehicle for Each Market



# 800+

## Product Solutions

SHACMAN's extensive range of 3000, 5000, and 6000 series offerings and special vehicles for the international market include tractors, dump trucks, cargo trucks, and specialized vehicles, ranging from 180 to 840 hp.



# Customization - X6000 Tractor in South Africa



• **Overview:** Driven by a strong demand for long-haul freight and high European requirements for intelligence and comfort.

• **Product solution:**

X6000 6×4 tractor (right-hand)	
Powertrain	Cummins M13 + Fast AMT transmission (hydraulic retarder) + Hande axle
Intelligent configuration	Standard features include EBS, ESC, and AEBS, with ACC, LDWS, and more available as options
Customized configuration	Rear air spring suspension, 730L+300L fuel tank, overhead A/C, on-board refrigerator, and SHACMAN Telematics system

• **Trial results:**

Fuel consumption	Type of goods	Daily industrial products
	For use on:	Highway (roads traversing a combination of flat and mountainous terrain)
	GCW	56t (75% full load, 25% no-load)
	Average fuel consumption	2.5km/L (to competitors' 2.4km/L)

The hundred customers taking part in the trial praised the exceptional intelligence and comfort of the vehicle and noted its ability to manage driver behavior. In 2025, SHACMAN put upwards of 150 X6000 tractors to work for local customers



# Reliability - Test Verification

SHACMAN's comprehensive vehicle testing system spans multiple integrated test bases to ensure users receive only the best quality products.



Electromagnetic compatibility test



Reliability test



Rain test



Road load spectrum simulation test



6DoF (six degrees of freedom) test



Coordinate measuring room



Vibration test



Tire inspection and test



Light detection and test

**Vehicle test**

**Assembly test**

**Parts test**

# Reliability - Extreme Environment Test

 SHACMAN



**< -40°C**

Extreme cold test



**> 50°C**

Extreme heat test



**> 5000m**

High-altitude test

# Reliability - Simandou Railway Project in Guinea



- Overview: In 2021, the local government launched the construction of the Simandou Railway for the world's largest iron ore project. Extreme working conditions have posed a severe test to vehicle reliability.

Corrosive working conditions	High salinity: maximum atmospheric salt spray deposition rate exceeding 300 mg/m <sup>2</sup> -day, classified as corrosion class C5
	High humidity: relative humidity > 90% in rainy season, > 70% in dry season, classified as Level 5 for persistent dampness
	High temperature: 30°C-34°C average high temperature in the dry season, and temperature difference between day and night >10°C
Complex road conditions	Mud, potholes, steep slopes, gravel, and dust
Continuous use	Heavy loads at low speeds, idling while loading and unloading, and short hauls continuing for more than 10 hours a day



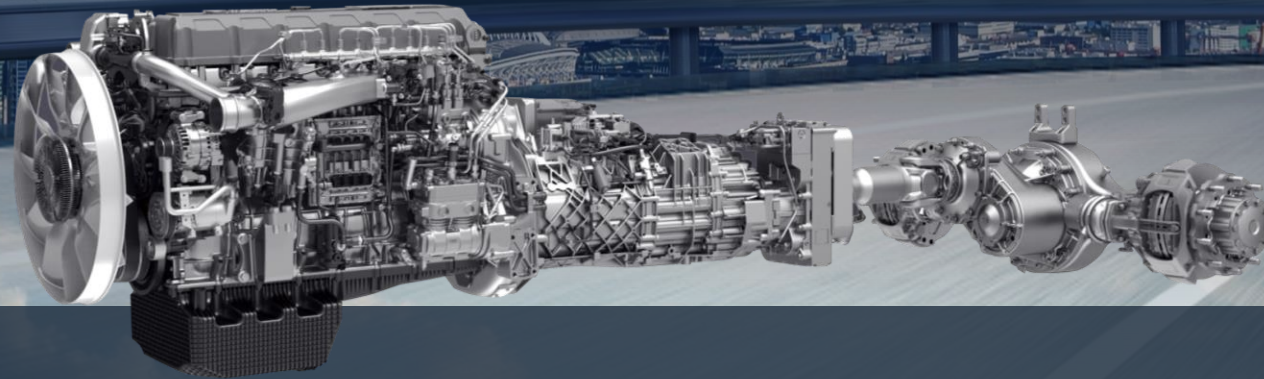
- Product solution:

F3000 Dump Truck (Super Edition)	
High corrosion resistance	Enclosed generator, dustproof nut, Acid/Salt/Alkali-Resistant Anti-Corrosion Package under Full-Chassis Integrated Spraying Technology, and Front Panel Fasteners Anti-Corrosion Package
Good trafficability, high protection	High ground clearance (38° approach angle and 28° departure angle)
	Steel bumper, headlight protective grille, engine and fuel tank protection, casting bracket
High durability	Thickened rear suspension leaf springs, thickened rims, reinforced brake drums, long-lasting coarse filters

- The project overcame multiple challenges that included a pandemic and political upheaval to wrap up in 2025. A total of more than 1,300 SHACMAN heavy-duty trucks were used, with an average uptime of more than 95%. The establishment of the railway has significantly benefited the development of the global iron ore trade.



# Optimized TCO - Powertrain Coordination



## Energy and drive unit

**WEICHAI**



**CATL**



## Transmission and control unit



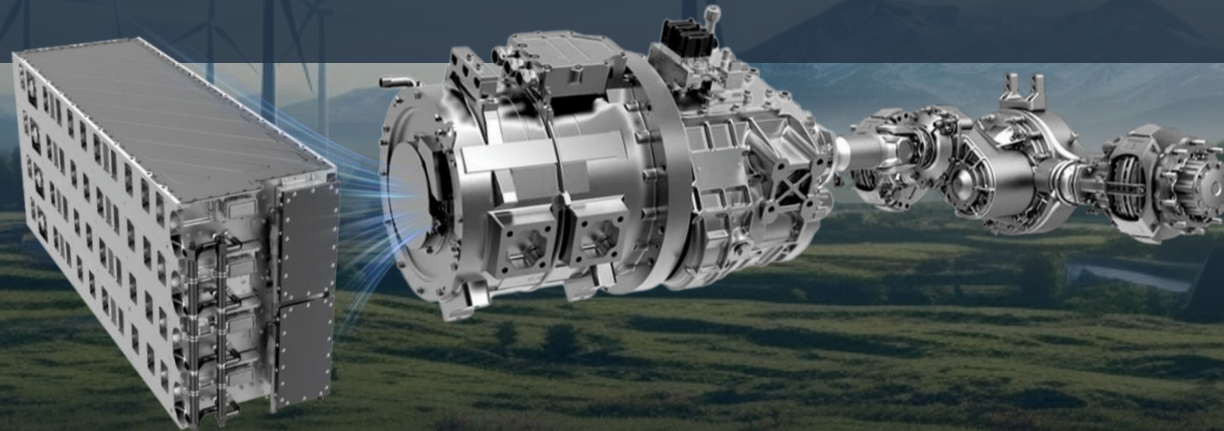
**EAT•N**



## Bearing and output unit



**HANDE AXLE**



# Optimized TCO - H3000S Tractor Saudi Arabia

First overseas test of Chinese trucks · All-scenario · Real simulation

14 days · 8 cities · 4653.6km

Multi-vehicle, multi-performance synchronized test evaluated fuel efficiency under high temperatures and over long distances, testing performance in the desert, on steep slopes, and verifying reliability in dust and extreme variations in temperature.

### Test results:

Test results	Type of goods	Agricultural products
	Working Condition	Highway (roads traversing a combination of flat and mountainous terrain)
	GCW	33t (50% full load, 50% no-load)
	Average fuel consumption	28.37L/100km (to competitors' 30.99L/100km)

It can save \$289,900 per year for the customer's fleet (100 vehicles, 250,000 kilometers per year) After more than 200,000 kilometers, fuel consumption for the vehicle has been stable at 25-28L, showing better fuel efficiency



# Assured Support - CARE Service



## Customized

- **Local support**

More than 150 outstanding service engineers permanently stationed overseas.

- **1<sup>st</sup> Care**

Round-the-clock on-site service when needed

- **Pre-deployment & full reserves of spare parts**

Ensuring there's never a lack of spare parts on the market

- **Self-service spare parts**

A self-service spare part system and original high-quality spare parts.

## All-round

- **Before delivery**

Research into working conditions, product customization solutions, financial services, and solutions for spare parts

- **In delivery**

Delivery services include inspections at point of departure and port, PDI, and pre-sales training.

- **After delivery**

Global service network, regular maintenance and TCO value-added services.

## Remote

- **Online experts**

A remote expert service team providing 24-hour online consultation/emergency travel overseas

- **Intelligent spare part system**

One-click searches, intelligent analysis, automatic recommendations and image recognition

- **SHACMAN Telematics system**

Vehicle positioning, fuel consumption statistics, remote locking, anomaly detection alerts, and more

- **Quality big data**

Harnessing the power of big data to respond to vehicle needs immediately

## Empowering

- **Training centers**

Building training centers and providing professional facilities with the necessary expertise around the world

- **Service training**

Improving the level of maintenance, repairs, and management of spare parts for optimal service

- **Fleet training**

Optimizing vehicle scheduling, driving behavior, and facilities for self-inspections

# Assured Support - Service Products



Our full suite of market-ready service solutions provides users around the world with reliable value-added services driven by our commitment to being your lifelong, cost-efficient operating partner.

## Extended global warranty

- Covers a full range of logistics tractors
- Dual extended warranty for the entire vehicle/powertrain
- 3 - 5 years warranty, providing long-term customer support

## Total Cost of Ownership

- Covers a full range of logistics tractors
- Regular inspections + customized maintenance + extended warranty for core components
- 1-5 year option, executed to OEM standards

# Assured Support - Service Network Southeast Africa



★ Locations of service stations

• **Overview:** Demand for cross-border transportation in Southeast Africa is extremely high, and heavy-duty trucks have to deal with slow maintenance, unreliable access to spare parts, and complex long-haul road conditions, resulting in serious vehicle downtime and increased operating costs.

• **Solution:**

Spare Parts Center	The first central manufacturer-operated spare parts warehouse in Zambia ensures genuine spare parts are available at the source
Network coverage	80 professional service stations and 20 spare parts access points established along major corridors
Cross-border warranty coverage	Warranty service available in 10 countries, including Zambia, the Democratic Republic of Congo, Zimbabwe, Mozambique, South Africa

• **Customer feedback:** "Our company is engaged in long-haul cross-border logistics, mineral extraction and affiliated services, bulk commodity trading, and agricultural production, and we have been working with SHACMAN since 2010. Our very first F2000 trucks are still in operation, thanks to SHACMAN's robust after-sales support network in Southern Africa, which has been instrumental in keeping our trucks on the road for longer. We have already bought more than 1,800 SHACMAN heavy-duty trucks to date."



# Clean Energy

**40,000+**

Electric heavy-duty trucks delivered

**19**

Countries operating electric heavy-duty trucks

## Full model coverage



Electric tractor  
Electric dump truck  
Electric mixer truck  
Electric terminal tractor  
...

## Comprehensive technology pathways



Pure electric trucks  
Hybrid electric trucks  
Fuel cell electric trucks

## Innovative energy replenishment solutions



All-in-one fast charging 400 kW  
Split fast charging liquid-cooled 720 kW  
5-minute rear/bottom battery swapping technology  
...

# Clean Energy - X6000<sup>e</sup> Electric Tractor in Morocco



- Overview: The X6000<sup>e</sup> electric tractor is a SHACMAN initiative to satisfy the need for long distance, low-energy cement transportation following Moroccan regulations bringing the new energy transition to heavy-duty trucks.
- Product solution:

X6000 <sup>e</sup> 4×2 Electric Tractor	
High-capacity battery	513 kWh battery, providing a 400-kilometer range at a gross vehicle weight of 44 tons, good for round trips
Integrated electric drive axle	Transmission approximately 5% more efficient, for superior range at the same battery capacity
	The shift and drive motors work together to coordinate shifting, significantly improving smoothness
	Vehicle curb weight reduced by 400 kg, for more compliant payload and increased revenue per trip
Bottom battery swapping	5-minute rapid battery swapping reduces energy replenishment time by up to 1.5 hours
	Significantly lower center of gravity enhances stability of heavy-load cornering and rollover resistance
	Standardized battery pack design, compatible with current and future battery swap stations, for greater long-term investment value



SHACMAN

# Strength

Development History | Enterprise Scale | Positive R&D | Intelligent Driving  
| Intelligent Manufacturing | International Certification | Delivery Guarantee

# Development History



**1968**

Shaanxi Automobile  
Manufacturing Plant founded



**1974**

SX250  
China's first heavy-duty off-road  
vehicle with completely  
independent property rights



**1989**

First batch of Steyr technology  
heavy-duty trucks rolled off the  
production line



**2007**

T3000



**2005**

SHACMAN commercial vehicle  
industrial park put into operation



**2003**

S2000, F2000

# Development History



**2009-2017**

First generation  
F3000, H3000  
X3000, L3000



**2020**

X6000



**2019**

X5000



**2022**

SHACMAN new energy  
intelligent factory put into  
operation



**2021**

T5000, L5000



**2024**

H6000, M6000,  
L6000



**2025**

S6000, G6000

# Enterprise Scale



**25,000**

Employees

**100+**

Holding subsidiaries

**2.6 Million+**

Global sales

**13.4 Billion**

USD Total assets

# Positive R&D

**4390**

patents

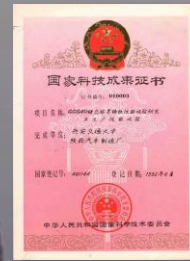
**3,600+**

R&D personnel

**1,170**

patents for new energy and intelligent and connected vehicle technologies

- 1978, China Science Conference Award
- 1992, China Science and Technology Achievement Award
- 2019, First Prize of China Science and Technology Progress Award

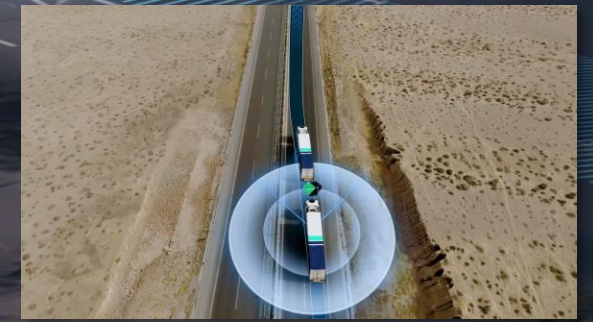
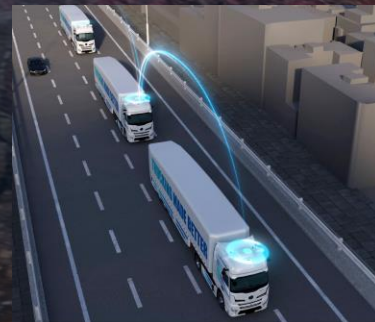


- CNAS Accredited Technology Center
- Key Laboratory for Energy-Saving and New Energy Heavy-Duty Commercial Vehicles
- Postdoctoral Research Workstation



# Intelligent Driving

- China's first intelligent driving heavy-duty truck test license
- Intelligent connected technology awarded second place at 2023 State Scientific and Technological Progress Award
- Mass production achieved for L2+ assisted driving heavy-duty trucks
- Demonstration of L4 intelligent driving heavy-duty trucks in steel mills and nuclear power plants among others



# Intelligent Manufacturing



7

Modern production bases in China

17

Overseas factories

< 20

Production period of standardized models (days)

215,000

Units designed annual capacity



Three-dimensional frame warehouse



Overhead logistics system



Flexible AGV transportation



Automatic windshield assembly station



Automatic tire assembly station



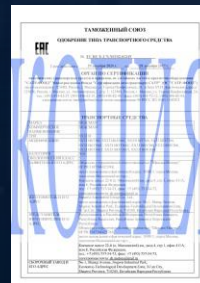
Digital detection line

# International Certification



## 287 Certified models

Europe	EU	ECE, EU
	Russia, Belarus, Kazakhstan, Kyrgyzstan, Armenia	ECE, local regulations
Africa	Algeria, Morocco, Tunisia, Egypt	ECE
	South Africa	SABS, Act , ECE
Asia	Singapore, Malaysia	ECE
	Indonesia	ECE, local regulations
	Vietnam	NC-CP, ND-CP, ECE
	Thailand	TIS
	Taiwan (China), Hong Kong (China)	Taiwan Vehicle Benchmark, ECE
	Macao (China)	ECE, local regulations
	Uzbek	ECE, local regulations
	Pakistan	ECE, GB
	Oman, United Arab Emirates, Saudi Arabia, Kuwait, Qatar, Bahrain, Yemen	GSO
	Oceania	Australia, New Zealand
The Americas	Mexico	NOM
	Chile	ECE, FMVSS
	Argentina	ECE, FMVSS
	Colombia, Ecuador	ECE
	Uruguay	ECE, EU



In compliance with international regulations, SHACMAN has obtained 287 certificates and near universal access to global markets.

# Delivery Guarantee



☆ Diagram of some transportation routes

**260+**

International routes

**160+**

Countries delivered to

**30+**

Mainstream international shipping partners

Joining forces with leading international transportation companies, we have built a professional team overseeing the process every step of the way to ensure the vehicles leaving the factory arrive in good condition and on time.



SHACMAN

# Global

Global Network | Partners | Social Responsibility | Brand Activities

# Global Network



**44**

Overseas  
marketing zones

**160+**

Countries/Regions

**200+**

Primary overseas dealers

**180+**

International channels  
for spare parts

**600+**

Overseas service stations

# Partners



# Social Responsibility

SHACMAN believes in the importance of being socially responsible and has been praised by governments and communities around the world.

## Environmental



Light Energy Green Factory



British T5000<sup>e</sup> electric terminal tractor



Thailand X5000<sup>e</sup> electric tractor



L5000<sup>e</sup> electric cargo truck in Saudi Arabia



X3000<sup>e</sup> electric dump truck in Indonesia



H3000<sup>e</sup> electric tractor in Ghana

## Social



Building social housing in Angola



Donating medical vehicles in Panama



United Nations World Food Programme Humanitarian Assistance



Collecting relief materials for earthquake resistance in Myanmar



Helping rebuild Syria



Training automotive talent overseas

## Governance



Setting up local call centers



Establishing the central overseas spare parts warehouse



Establishing more consistent oversight



Stable supply chain system



Practicing long-termism



Commissioning the intelligent three-dimensional warehouse system

# Together Forward



70,000  
Sales Target



# TRUCKING MADE BETTER



# Case Study - X3000 Desert All-Wheel Drive in the United Arab Emirates



## Born out of a demand

· The X3000 6×6 tractor and 6×6 multi-purpose chassis were launched in 2024, after in-depth research into desert transportation conditions and one year of R&D and refinement

## Advantages

- Powerful - A high-horsepower engine paired with an all-wheel-drive system effortlessly handles complex terrains like deserts and steep slopes.
- Cost-effective - The vehicle is more cost-effective compared to vehicles of European brands with the same configuration

## Continuous optimization

- Optimized Idle Cooling: Equipped with a condenser fan and adjusted engine parameters to enhance air conditioning efficiency.
- Dual-element air filter: Improves filtration efficiency and extends engine lifespan
- Four-step entry: Optimizes boarding convenience and enhances safety.
- Transfer case shift protection: Upgraded controller and instrument panel software to prevent misoperation and enhance safety.

## Product expansion

· We continue to expand our range of 4×4, 6×6, and 8×8 all-wheel drive models, adaptable to diverse operational scenarios, including specialized oilfield vehicles.

## Global service

· SHACMAN desert all-wheel drives have been sold in the Middle East, Africa, and beyond, with more than 1,000 of the vehicles delivered to customers across the globe in 2025



# Case Study - Nickel Mine H3000 Dump Truck in Southeast Asia



- Overview: Mining areas consist primarily of unpaved roads that are rugged, potholed, and extremely muddy.

- Product solution:

	H3000 6×4 dump truck (narrow cab)
Powertrain	Cummins 385 HP engine + Fast transmission + Hande axle
Other configuration	Hydraulic retarder, air-suspension seats

- Customer feedback:

Powerful performance	With good trafficability, and the vehicle has higher operation efficiency in the mining area
Enhanced economy	Fuel consumption is significantly reduced, while the hydraulic retarder effectively lowers the replacement frequency of brake components and tires
Improved comfort	The seat effectively absorbs bumps, significantly reducing driver fatigue
Enhanced downhill safety	The hydraulic retarder minimizes the risk of downhill accidents, ensuring safer vehicle operation
Brand trust	All vehicles have now been replaced with SHACMAN trucks, with the fleet size exceeding 200 units



# Case Study - Call Center in the Philippines

## Model innovation

- The manufacturer has established a local call center and an online platform to bridge communication with customers, providing efficient and professional after-sales support

## Customer value

- Quick response:

Distance from major cities $\leq$ 200KM	Service guaranteed within 24 hours
$200\text{KM} \leq$ distance from major cities $\leq$ 400KM	Service guaranteed within 48 hours
The 200km/24h service radius currently covers major cities and operating regions, and continues to expand	

- Comprehensive guarantee: A one-stop solution spanning fault diagnosis, maintenance, and spare parts
- A deeper connection: Records and active customer follow-up turn a one-time transaction into the full life cycle

## Outstanding results

- More than 700 orders were received over the hotline in one year, 400 for repairs directly arranged by the manufacturer
- The online platform has nearly 40,000 followers, making it an important local information hub and symbol of trust

