

YUTONG DIESEL OFF-HIGHWAY MINING TRUCK



MOMAC Yutong. Email: info@momacyutong.com

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MOMAC



MOMAC YUTONG

About Our Business

Welcome to MOMAC Yutong, your premier source for cutting-edge energy trucks.

At MOMAC Yutong, we are committed to driving the future of sustainable transport solutions. As a leading supplier of energy-efficient trucks, we deliver vehicles that combine innovation, power, and eco-friendly technology, enabling businesses to achieve both operational efficiency and environmental responsibility.

Our partnership with Yutong, a globally recognized leader in the truck industry, allows us to offer a diverse range of energy-efficient trucks designed to meet the needs of various sectors, including logistics, construction, and public services. From electric trucks to hybrid solutions, our fleet is engineered to reduce emissions and operating costs while enhancing performance.

Innovation in Mining and Heavy-Duty Vehicles

Leveraging Yutong's advanced technology in vehicle electrification and heavy-duty engineering, MOMAC Yutong specializes in providing robust, intelligent, and reliable mining trucks built to withstand the toughest working conditions. Our lineup includes high-capacity dump trucks and specialized mining vehicles designed for maximum durability, efficiency, and safety.

With a strong commitment to sustainability and operational excellence, MOMAC Yutong is at the forefront of delivering energy-efficient, intelligent, and high-performance trucks. By the end of 2023, Yutong's new energy trucks had surpassed 17,000 units in global sales, reinforcing its position as a leader in the transition to sustainable heavy transport solutions.



**ENTIRE RANGE OF PRODUCTS
CURRENTLY AVAILABLE**

YUTONG DIESEL OFF-HIGHWAY MINING TRUCKS



YTK90D

YTK90D

YTK105D

YTK105D

ADVANTAGES OF YUTONG DIESEL OFF-HIGHWAY MINING TRUCK

In 2024, Yutong is set to significantly expand its product lineup of diesel off-highway mining truck: it will broaden the range of tonnages offered with the introduction of 40-ton, 80-ton, and 90-ton trucks, and equip them with high-power engines, larger tires, and automatic transmissions to comprehensively meet customers' diverse demands.

At the same time, Yutong diesel off-highway mining trucks feature high-quality and proven technologies, enabling them to adapt to the toughest conditions to the greatest extent, thereby enhancing the productivity of high-quality mines.



1

@ Income Increase

More Capacity and Efficiency, Reliable Operation, and High Uptime

- The main frame of the vehicle has a service life of more than 10 years and a longer profit cycle;
- Selected parts and components from internationally renowned brands and strictly controlled processes for guaranteed safety.

2

@safety

Safe and Reliable, with Dual Protection of Active and Passive Safety for Added Peace of Mind

- Complete hydraulic steering and emergency steering, ensuring safe and reliable steering in case of emergencies;
- Independent dual-circuit brake system, make driving safer;
- Brand-new anti-rollover driver cabins, ensuring the passive safety of drivers.

3

© Fuel Saving

Advanced Technology, High Efficiency and Fuel Saving and Low Maintenance Cost

- BlueCore intelligent fuel-saving system, achieving fuel saving of 5% under comprehensive conditions;
- Full-automatic centralized lubrication systems (optional), increasing profits of about RMB 64,000 in 3 years.

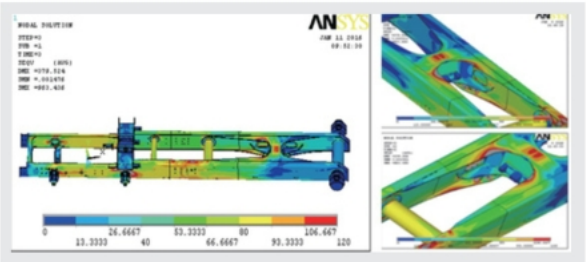
STABLE OPERATION AND HIGH UPTIME

① High-strength Steel, Elaborate Analysis and Design

Through "high-strength steel, elaborate analysis and design", the main frame of Yutong mining trucks can effectively prolong its service life to over 10 years and increase the full life cycle profit of a single vehicle by more than 70%.

◎ Rigid mining truck DNA

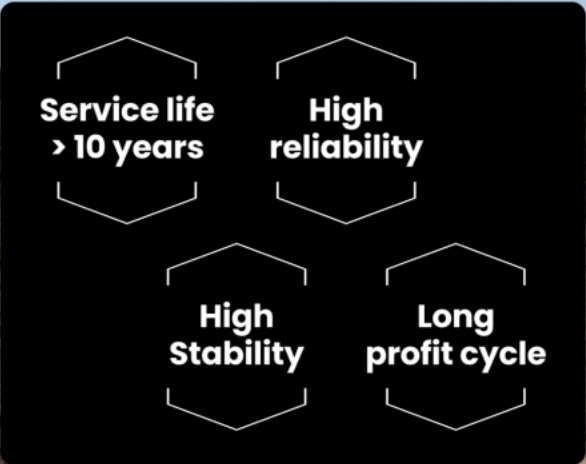
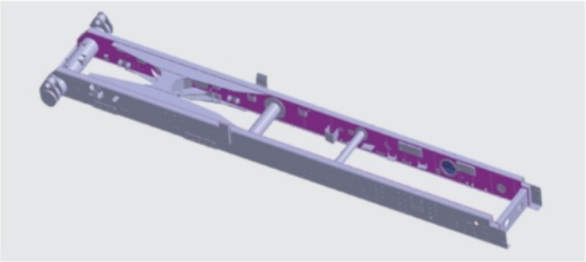
Originating from the robust rigid mining trucks, the structure of the rigid box-type frame has undergone CAE analysis and optimization at Yutong's doctoral workstation, ensuring that its design service life and reliability are on par with those of traditional rigid mining trucks.



CAE analysis and optimization at Yutong's doctoral workstation, verification of over 25 million kilometers

◎ Box-type fully welded frame

The box-type fully welded frame is made of 510L special steel, with large bearing capacity, strong impact resistance, high strength and rigidity, making it more suitable for tough conditions of mines.

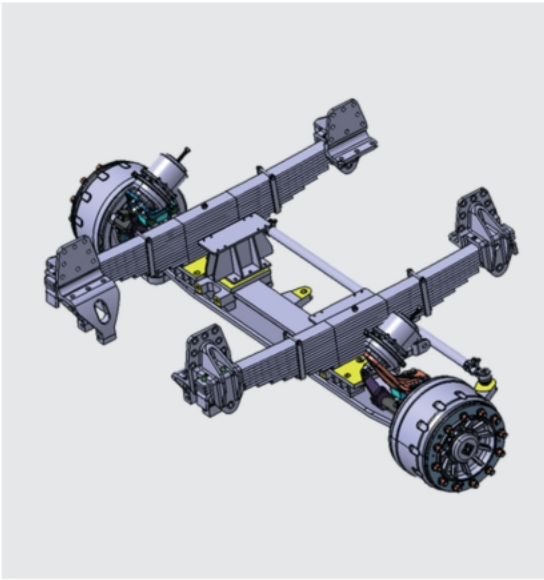


Strong bearing capacity	Simple structure	Reliable performance	Easy disassembly
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② Sliding Leaf Spring Structure

◎ Simple structure

Simple structure, bearing only vertical force and no longitudinal force to effectively reduce the fracture failure rate of leaf spring main pieces; convenient maintenance, effective response to sediment-laden working environment in mining area, ensuring product reliability and mining truck uptime.



◎ Reliable performance

Steel plate with gradual rigidity + two-way cartridge shock absorber + longitudinal thrust rod + M27/M24 bolt, with high strength and higher reliability.

® Rear Suspension System

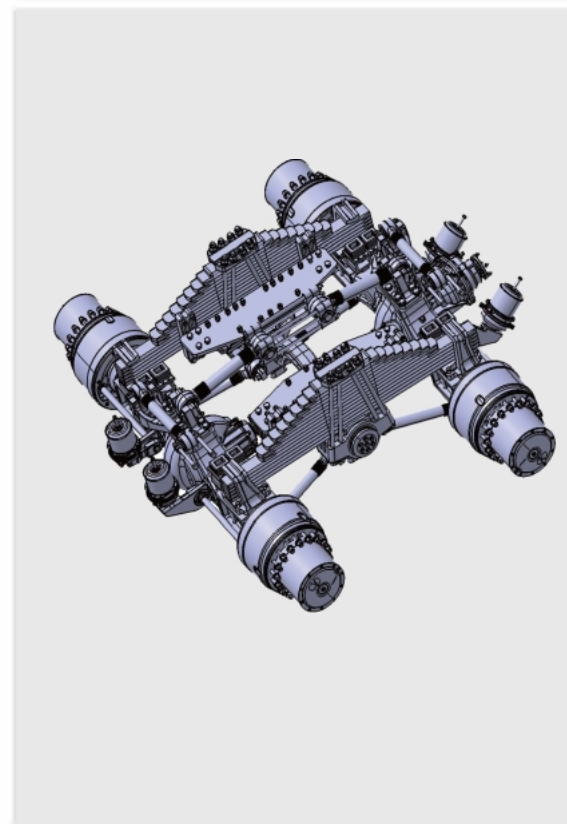
After 15 years of continuous R&D and improvement, as well as careful matching and analysis by Yutong's doctors, the latest generation of rear suspension systems has better reliability and durability; it is convenient to maintain, effectively reducing maintenance costs.

@ More stable and reliable

① The upper thrust rod is of a longitudinal tie rod + lateral tie rod structure, which optimizes the force on the leaf spring and guide plate and has strong overall matching bearing capacity; the single leaf spring is 2-5 mm thicker than the industry standard, and has high strength, greatly reducing the fault rate;

@ U-bolts and thrust rod fixing bolts are customized bolts (with impact energy 2.5 times that of the industry) + Spirallock locknut structure, which completely solves the problem of connecting bolt fracture between the thrust rod and bracket, and reduces fault rates by more than 50%;

® The maintenance of the leaf spring seat is convenient and cost-effective. The limit block is installed on the axle, with 4 groups per axle, which has high reliability and long service life.



@ Maintenance-free balance shaft

High overall matching strength, larger shaft diameter (customized development by Yutong), 18% higher strength among the counterpart, better reliability, greatly reducing fault rates and maintenance costs; for mining areas with large density, reinforced structure can be selected.



HIGH QUALITY AND DURABILITY

Core Parts and Components, from International Mainstream Suppliers

With the concept of "source control and process management", Yutong improves product stability, reliability and service life, with core parts and components from international mainstream suppliers, 30% of which come from world-renowned parts and components suppliers; each supplier has been strictly audited and verified by Yutong to ensure good product quality.

@ Flame-retardant Tinned Copper Wire

The wiring harness of the vehicle is made of flame-retardant tinned copper wires, and its oxidation resistance is 2~3 times that of bare copper wire. The wiring harness goes out after leaving the flame for 6 seconds (30 seconds as required by national standard), thereby demonstrating superior flame retardancy compared with bare copper wires.



@ Waterproof Connectors of International Famous Brands

Connectors from international mainstream suppliers such as BOSCH (Germany) and AMP (United States) are used, which have superior waterproof and dustproof performance compared with ordinary connectors, with a service life of 18 million kilometers or more than 10 years.



@ Sensors of International Famous Brands

VDO oil pressure, water temperature and air pressure sensors from Germany and Honeywell parking brake air pressure sensors from America.



@ Imported relays of International Famous Brands

Panasonic relays imported from Japan and Song Chuan relays from Taiwan, with the configuration consistent with that of commercial vehicles in Europe, America and Japan.



ACTIVE SAFETY ASSURANCE

G) Fully Hydraulic Steering + Emergency Steering Systems

These configurations help vehicles comprehensively cope with the complex and harsh operating environment of mines, ensuring driving safety, minimizing possible risks, improving the uptime of mining trucks and increasing ore transportation volume.

@ Dedicated pressure pump for mines

It boasts large power density, flexible steering, easy operation, sedan-like driving experience and other advantages, which can effectively reduce driver fatigue and enhance operation safety.

@ Light steering effort

High-quality steering gears and priority valves are used to optimize the steering effort, making the steering easy, labor-saving, accurate and reliable.

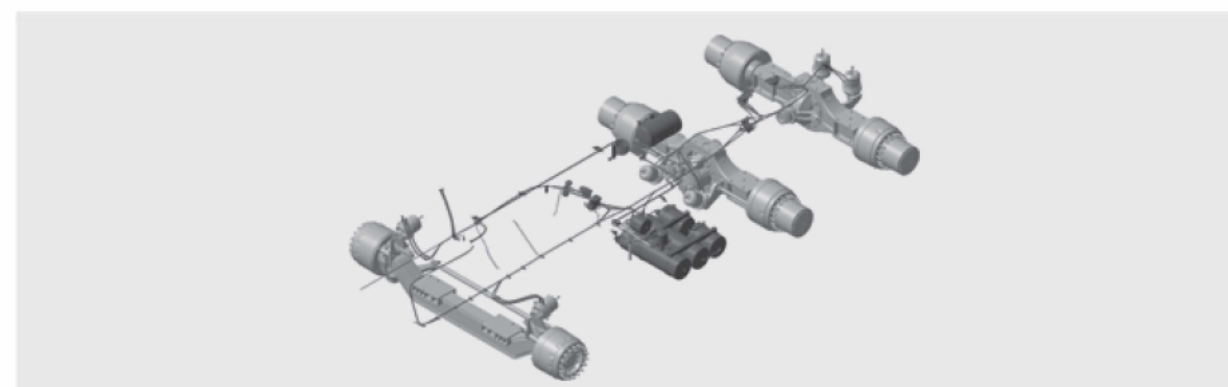
@ Emergency steering

When the main hydraulic supply control system fails, it can be switched to the emergency steering system, which can respond automatically with an effective duration of 1 minute to ensure safe and reliable steering in case of emergencies.



Tie rod ball joint: The steering longitudinal tie rod ball joint and the power steering cylinder ball joint are equipped with the largest 38mm taper pin/cotter pin in the industry, achieving high reliability and a service life twice that of similar products in the industry.

(I) Brake System



Brake air pressure: 1.0MPa. The independent dual circuits ensure fast braking response, shorter brake distance and safer driving;

220L large-capacity air reservoir: The braking force is more stable and the air storage capacity is more sufficient to meet the needs of multiple brakes with higher safety;

An imported dryer (WABCO) is used and an air circuit oil water separator is equipped as standard configuration, so that the brake air circuit is drier and cleaner and the service life of valves is longer;

Hydraulic retarder (optional): It meets the needs for 10% heavy-load downhill and driving at a constant speed of 20km/h, improving the braking performance by 30% and lowering the brake pad wear by 55%.

PASSIVE SAFETY ASSURANCE

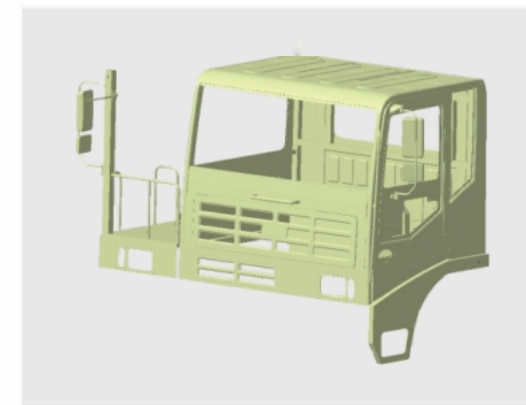
Safe and Comfortable Driving

The driver is the controller and creator of "large capacity and fast speed". Yutong has carried out a series of optimization and improvement around the "safety and comfort" of the driver, so that the driver can concentrate on driving the mining truck well.



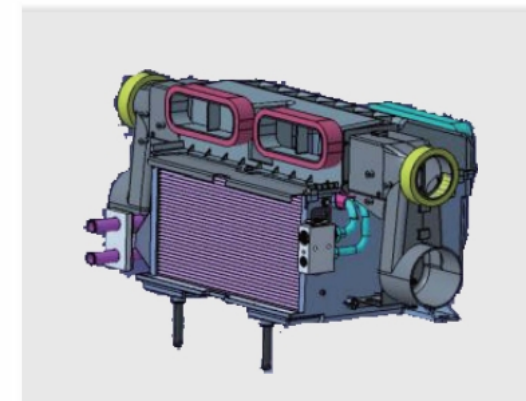
@ Robust Closed-ring, Meeting FOPS/ROPS Standards

The design incorporates a skin-type frame structure with an anti-rollover feature that provides excellent sealing performance. This ensures the passive safety of the driver to the greatest extent in extreme situations, such as rockfalls or falling down cliffs.



@ Efficient Thermal Insulation and Temperature Control to Ensure Driving Comfort

Modern technology is used to comprehensively optimize the cab thermal insulation and temperature control system, so as to ensure that the driver works in a comfortable environment, improve the driver's attention and ensure efficiency and safety.



@ Easy Control, Good Vision and Reduction of Driver Fatigue

"Sedan-like" instrument layout is convenient for man-machine operation, with a comprehensive upgrade of integration, intelligence and convenience.




@ Full-air Suspended Driver Seats: Reducing the Interference of Bad Road Conditions in Mining Areas

The self-developed full-air suspended driver seat can quickly absorb impact, and its damping effect and pneumatic adjustable lumbar support function have been highly recognized by customers.




BLUECORE INTELLIGENT FUEL-SAVING SYSTEM

Yutong has independently developed the Bluecore Intelligent Fuel-saving System, which intelligently controls the fuel injection volume and output torque of the engine by analyzing information such as vehicle load, road conditions and driver's driving intention, combined with the cross sectional characteristics information of the engine. This enables the engine to burn fuel more completely and operate in the optimal fuel-saving state, achieving a fuel-saving rate under comprehensive conditions of 5~8%.



Heavy-load Uphill Condition

Compared with competing products of the same specification, it achieves a fuel saving rate of 5%-8% and fuel cost saving of RMB 57,000-66,000/year.



Heavy-load Downhill Condition

The truck equipped with Bluecore intelligent fuel-saving system achieves a fuel saving rate of 54% and fuel cost saving of RMB 32,000/year.



Measured Fuel Consumption of Yutong VTK105D Operating in Heavy-load Uphill Mining Area								
Brand	Operation condition	Operation Trip	Total Fuel Consumption (L)	Operation Mileage (km)	Average Fuel Consumption (L/100km)	Fuel-saving Effect (compared with Yutong)	Annual fuel consumption	Comparison of Fuel Saving Cost (RMB/year)
Competitive product 1	Heavy-load uphill	666	11,849	3,996	297	5%	1,193,914	56,878
competitive product2		545	9,771	3,270	299	6%	1,203,118	66,082
Yutong VTK105D		533	9,031	3,198	282	//	1,137,036	//

Note: The unit price of oil products is RMB 7.19/L based on 200KM per day and 280 days of operation per year

CENTRALIZED LUBRICATION SYSTEM (Optional)

The full-automatic centralized lubrication system accurately controls the oil supply amount through microcomputer program according to the running time of the vehicle. A fully enclosed system composed of pipelines prevents dirt from entering the friction pair, so as to achieve good lubrication effect, reduce overhaul times, prolong the service life of the vehicle and improve the uptime of vehicles.



- Using Effect
- 10

Reduced excessive wear of core mechanical parts resulting from insufficient or omitted application of lubricating oil during manual operation, and less maintenance cost of key components;
- 40

It can improve the vehicle uptime, increase the effective working time of vehicles and transport more ores. According to the calculation of 3 additional maintenance times, 10 hours each time, the opportunity income is RMB 5,200;
- 3

Reduce the number of on-site maintenance personnel and costs;
- 4

Reduce management complexity.

PROFESSIONAL SERVICES

Focusing on the unique operational and service challenges faced by mining truck customers, MOMAC Yutong provides a first-class specialized maintenance system for new energy vehicles in the industry.

CUSTOMER CASES

Yutong diesel off-highway mining trucks have been successfully deployed in several international markets, including Chile, Indonesia, Thailand, Malaysia, Pakistan, and other countries, demonstrating their adaptability and performance under diverse operational conditions.



GLOBAL DISTRIBUTION CENTERS

Distribution Centers

Strategically located facilities to ensure fast and efficient parts supply.

Parts Distribution Centers

A network of centers to guarantee the constant availability of essential components.

Overseas Parts Dealers

An extensive network of partners to support customer needs worldwide.



Malaysia



Indonesia



Pakistan



Zambia



Indonesia



Vietnam

CUSTOMER SUPPORT SERVICES

Secondary Service Outlets

Wide coverage to provide close support to customers.

Rapid Response

Commitment to agile response times to meet customer demands.

24-Hour Emergency Service

Immediate assistance in critical situations to ensure continuous vehicle operation.



Thailand

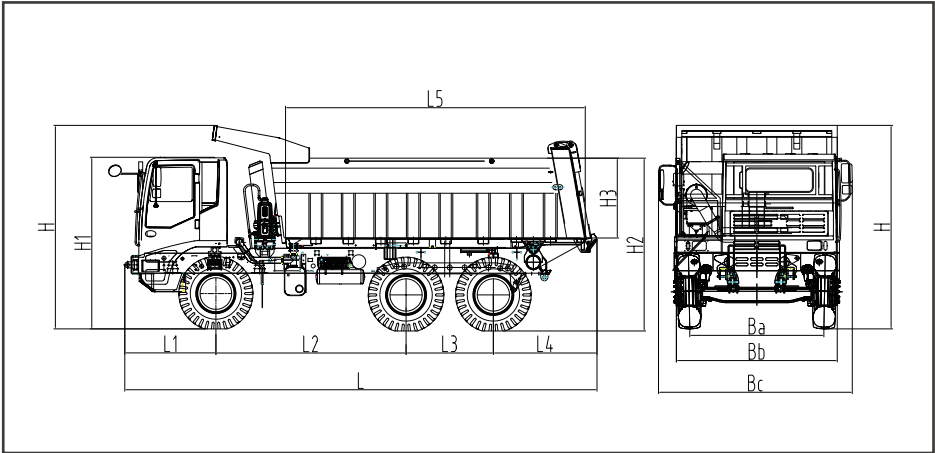


Mongolia



Thailand

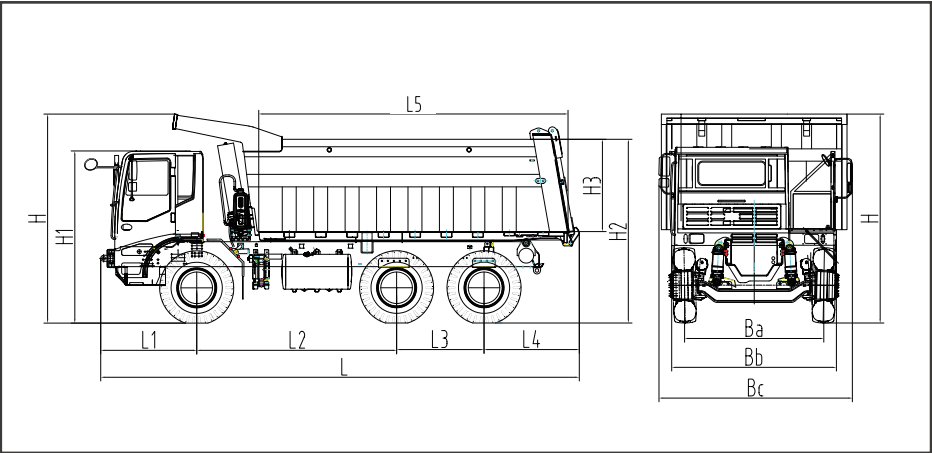
Main Specifications		YTK90D(LHD)
Item		Parameter
Basic parameters		
Length × Width × Height (mm)		9,195×3,450×4,150
Wheelbase (mm)		3,800+1,550
Maximum gradeability (%)		30
Minimum turning diameter (m)		≤21
Rated power (kW/r/min)		338/2,100
Maximum torque (N.m/r/min)		2,000/1,200-1,600
Maximum speed (km/h)		45
Body raise time/lower time (s)		18/23
Rated payload (kg)		60,000
Chassis		
Engine		Weichai WP12G460E310
Transmission		FAST7DS220
Front axle/middle axle/rear axle		Rated payload 20/35/35t, drum-type brake
Suspension system		Front leaf spring suspension + rear leaf spring balance suspension (maintenance-free balance shaft)
Fuel tank (L)		420
Tire		14.00R25 steel wire tire
Frame		High-strength steel
Upperstructure		
Body hoists		One-direction hydraulic lifting cylinder
Sprinkling device	Optional	320L/500L sprinkling device
Body capacity (m³)		34 (struck, earthwork container)



Overall dimensions	Parameter (mm)
L1 Front overhang	1,830
L2 Wheelbase L2	3,800
L3 Wheelbase L3	1,550
L4 Rear overhang	2,015
L5 Body length	5,900
L Overall length	9,195
H1 Cab height	3,435
H2 Height of container above ground	3,650
H3 Container height	1,800
H Overall height	4,150
Ba Wheel tread	2,710
Bb Overall width	3,450
Bc Max width	3,950

Disclaimer: this configuration table is for reference only and not used as the basis for contract negotiation. The actual vehicle shall prevail.

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L5 Body length	5,900
L Overall length	9,195
H1 Cab height	3,435
H2 Height of container above ground	3,650
H3 Container height	1,800
H Overall height	4,150
Ba Wheel tread	2,710
Bb Overall width	3,450
Bc Max width	3,950

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Main Specifications		YTK105D(LHD)
Item		Parameter
Basic parameters		
Length × Width × Height (mm)		9,645×3,750×4,200
Wheelbase (mm)		4,000+1,750
Maximum gradeability (%)		30
Minimum turning diameter (m)		≤22
Rated power (kW/r/min)		390/2,100
Maximum torque (N.m/r/min)		2,300/1,200-1,600
Maximum speed (km/h)		45
Body raise time/lower time (s)		15/22
Rated payload (kg)		70,000
Chassis		
Engine		Weichai WP13G530E310
Transmission		FAST 8DS260A
Front axle/middle axle/rear axle		Rated payload 25/40/40t, drum-type brake
Suspension system		Front leaf spring suspension + rear leaf spring balance suspension (maintenance-free balance shaft)
Fuel tank (L)		600
Tire		16.00R25 steel wire tire
Frame		High-strength steel
Upperstructure		
Body hoists		One-direction hydraulic lifting cylinder
Sprinkling device	Optional	320L/500L sprinkling device
Body capacity (m³)		40 (struck, earthwork container)

Overall dimensions		Parameter (mm)	
L1 Front overhang		1,880	
L2 Wheelbase L2		4,000	
L3 Wheelbase L3		1,750	
L4 Rear overhang		2,015	
L5 Body length		6,300	
L Overall length		9,645	
H1 Cab height		3,540	
H2 Height of container above ground		3,750	
H3 Container height		1,800	
H Overall height		4,280	
Ba Wheel tread		2,790	
Bb Overall width		3,750	
Bc Max width		3,950	

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Main Specifications			YTK105D(RHD)
Item		Parameter	
Basic parameters			
Length × Width × Height (mm)		9,645×3,750×4,200	
Wheelbase (mm)		4,000+1,750	
Maximum gradeability (%)		30	
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