



**BEIBEN TRUCKS GROUP CO.,LTD**

Address:No.9 Binggong Road, Industrial Zone Of Baotou Equipment Manufacturing, Baotou City

**BEIBEN  
PRODUCT MANUAL**



# COMPANY PROFILE

BEIBEN TRUCKS GROUP CO.,LTD



BEIBEN TRUCKS GROUP CO.,LTD with the general assets of 13.6 billion yuan, the general area of 2.32 million square meter, is a large scale high-end supportive manufacturing enterprise of commercial vehicles directly subordinated to China North Industries Group Corporation, and the head office is set up in Baotou City, which is reputed as "Deer City". Since the whole set of manufacturing technology and technique equipment of heavy truck is introduced from Mercedes-Benz AG in 1988 and the corporation was founded and passed the acceptance inspection by the state in 1995, Beiben Trucks Group Co., Ltd quickly became a leading

enterprise in modernized commercial vehicles integrated with research development, production, sale and service of vehicle and parts of heavy truck, passenger vehicle, refitted vehicle, natural gas vehicle, the vehicle body, axle, transmission, chassis of passenger vehicle, etc., crossing 3 cities of Baotou, Chongqing and Beijing, the annual vehicle production capacity is around 100,000.





In recent years, according to the changing of the market requirement, Beiben Group has been increasing the technology contribution and continually producing new technology and products. In 2010, with individual intellectual property and representing the upgrading and updating of the products, "V3" series vehicles were released in Beijing; in 2013, taking the 15th Shanghai Vehicle Industry exhibition as opportunity, "V3HT", "V3M" series vehicles were release series vehicles were released in Shanghai, in which "V3HT" light vehicles win the award of annual domestic tractor in the releasing year. At present, Beiben brand covers the series of "NG80", "V3", "V3HT", "V3M" "Beichi" and extensively applies in several arm of service, such as ground force, air force, second artillery corps, naval air force, engineer corps, China PKF, etc. and civil areas of postal service, petroleum, chemical industry, etc. at the same time, covering above 80% of domestic heavy truck market of medium and small enterprises and private transportation. In addition, Beiben trucks are sold to more than a hundred countries and areas in Asia, Middle East, Africa, and South America.

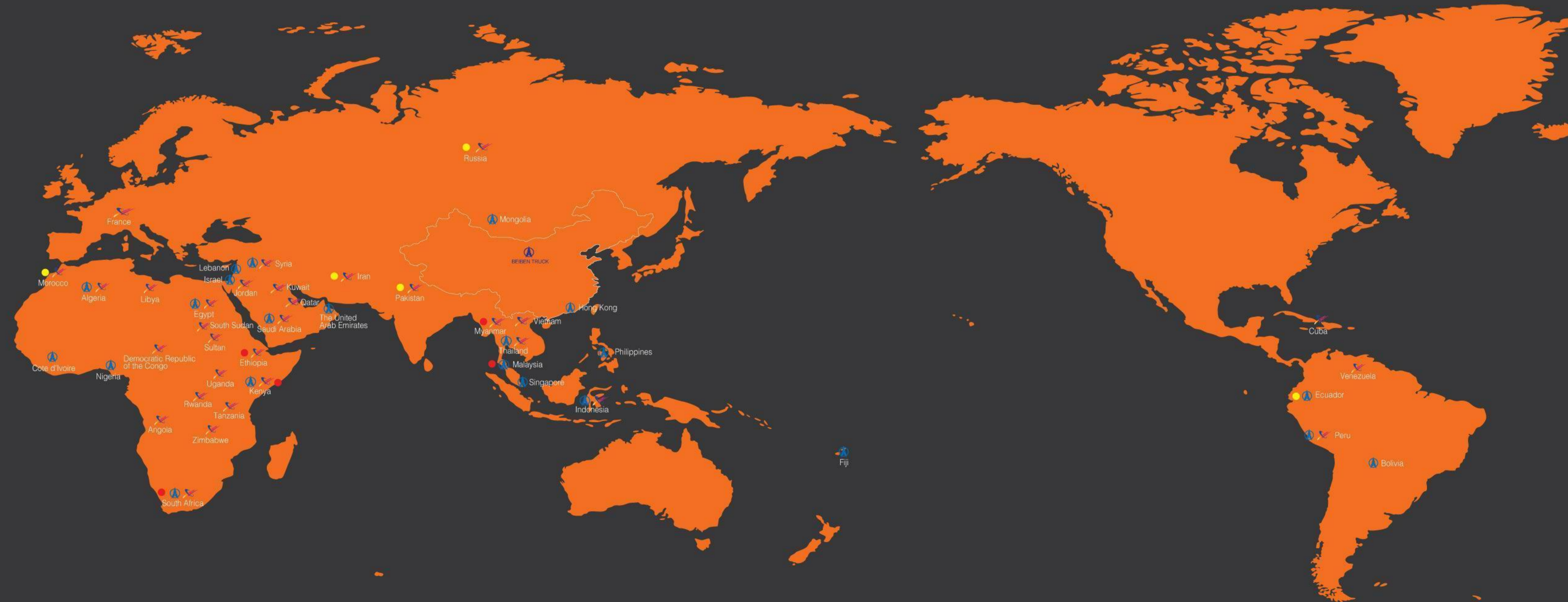




# OVERSEAS MARKETING NETWORK

□ BEIBEN TRUCKS GROUP CO.,LTD

-  International Office of China North Industries Corporation
-  Beiben Trucks International Agent
-  The Built Or Under Construction KD Project
-  Planned Construction KD Project







# BEIBEN TRUCK PRODUCTION LINE

## AXLE PRODUCTION LINE OF BEIBEN TRUCK

Brought in full set of world-class technology of German's Daimler – Beichi axle, professionally produce heavy truck axle, equalizing suspension system and assembly components of chassis.

The axle production lines possesses the advanced machining equipments, assembly equipments, detection and dressing equipments, more than 70% of machine are imported equipments, which mainly are: axle and parts assembly line and painting line and core parts production line of axle housing, housing of final drive, differential housing and etc.

There are 6 platforms and more than 120 kinds of products. Truck axle series of products are: 6.5t steering front axle, 7.5t steering front axle, 7t driving steering front axle, 16t double reduction rear axle, 16t assembly suspension, VG-1400 transfer case and etc.; axle products of special vehicle are: 13t front axle, 25t double reduction driving rear axle, 35t double reduction driving rear axle. Axle products of bus are: 4.5t front axle, 6.5t front axle, 10t rear axle, 13t rear axle and etc.

For several years, the production process of Beiben truck axle has strictly implemented the high starting point and high standard technical standard and manufacturing of Germany BEICHI, and the industry personalized advantages possessed by Beiben axle have been extensively acknowledged by the whole industry, the axle quality and manufacturing technologies maintain the leading position in line.



## CAB PRODUCTION LINE OF BEIBEN TRUCK

Beiben Truck Cab Company with annual capacity of 60000 units is specialized in production of NG80 and V3 series of Beiben truck, including four process production workshops , which are stamping, welding, coating and assembling. It is a U-shaped layout, and each production workshop connected by vestibule, realizing enclosed production from stamping parts to assembly.

Stamping workshop is specialized in production of large and medium-sized stamping parts of cab. Stamping tools are designed and produced by German and domestic well-known enterprises, which adopts domestic advanced multi-connecting rods press machines, and has large-scale stamping equipments of 630t, 800t, 1200t and 2000t.

Welding workshop is specialized in production of NG80 and V3 series. The automation degree is on the advanced level of domestic truck industry.

Coating workshop is specialized in coating of cabs. It adopts the spray system of heavy truck cab, which mainly with three-coating and three-drying system.

Inner decoration workshop is specialized in assembling and production for inside and outside decoration of driving cabs. The production line adopts U-shaped design and the overall workshop production has realized mechanization and automation, forming an integrated and advanced assembling workshop of inside and outside decoration.



## ASSEMBLY PRODUCTION LINE OF BEIBEN TRUCK

Assembly Production Line of Beiben Truck adopts abundant advanced technology equipments, which improve manufacturing level effectively, guarantee the quality of products and realize long-term development target of the company. The production TAKT is 4.1 minutes, and it has capacity of 50000 units for each year. The production line is a U-shaped general assembly line with the length of 760m, which is the longest single assembly line with capacity of 50000 sets in China. As the first production line which adopting unit assembly turnover mechanism in China, its advantage is that the frame can be directly overturned during the operation, which saves the production time and promotes assembling efficiency.

According to its composition, the factory is divided into four functional areas: production area—composed of assembly chassis workshop, line warehouse area and centralized oil supply station. The main line sets 49 assembly work sits, the parts preassembling sets 6 sub-assembly lines. Detection area—it's composed of technology parking lots. Detection and debugging workshop include two lines of 3C detection and 1 comprehensive detection line. Trial run area—arrange special road surface like acceleration, braking section and washboard, potholes road, twisted, stone and cobbled road. Finished product area—which composed of parking area of finished product and truck delivery center. The parking area is 13000 m<sup>2</sup>.



# BIG EVENTS

BEIBEN TRUCKS GROUP CO.,LTD



Parade for commemorating the victory of the war of resistance against Japan and the world anti fascist war victory 70 anniversary ---Beiben truck square team is passing Tiananmen Square and accepts the review



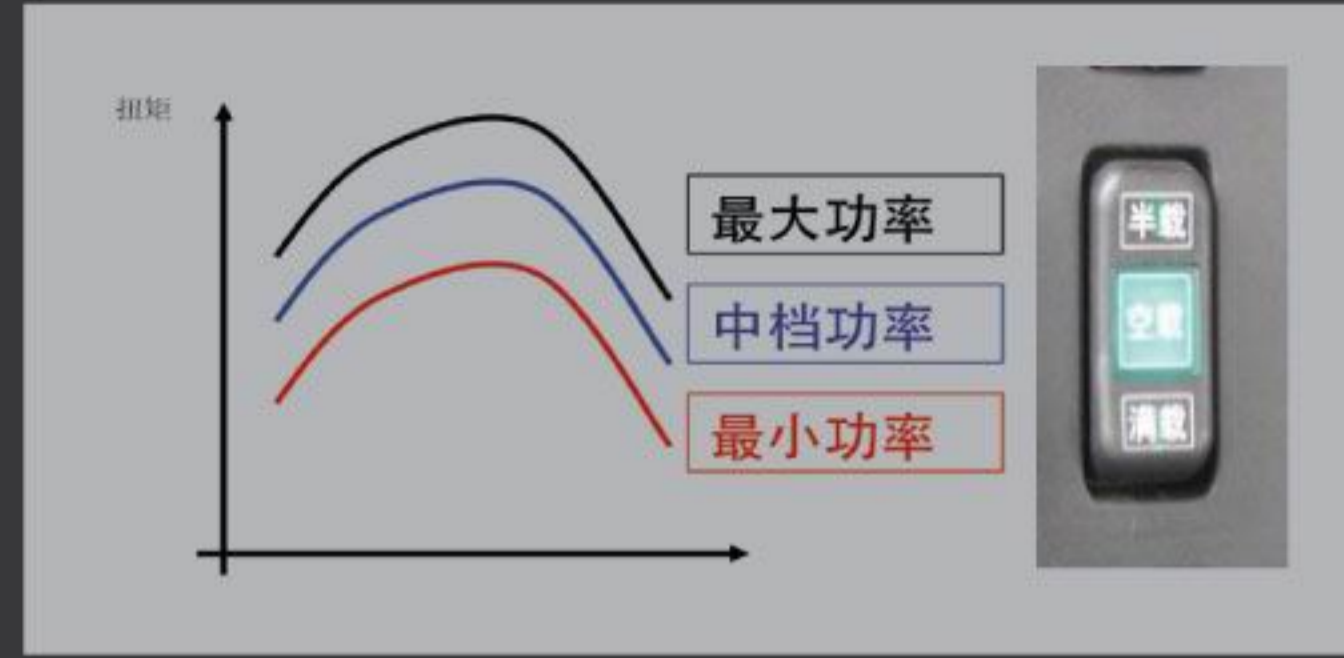
The 60th anniversary of the founding of P.R.C.---Beiben Truck Square Team for review



### FUEL EFFICIENCY

※ The vehicle is streamline design, and the vehicle body is passed through the tests of CFD flow field analysis and optimize and wind tunnel test. Optimization design to the driver's cab and the adjustable air deflector substantially decreases the wind resistance, and the wind resistance coefficient is 0.569 (commonly around 0.8 in domestic).

※ Weichai's multifunctional fuel saving switch is equipped, the optimization design is carried out through AVL cruise which can meet the power requirement of non-loading, medium loading, heavy loading or different road conditions. Whenever turn on the switch, the generator power can be selected to decrease additional power consumption. The fuel consumption of vehicle can be averagely saved 2.6L per hundred kilometers.



### COMFORTABILITY

※ With attractive appearance, four-points air suspension, aero seat, hydraulic power steering, which improve driving comfort; the sealing of driver's cab is great with low noise of 68dB (commonly above 75dB in domestic trucks) and good dustproof effect; air conditioner is available with excellent warming and cooling speed and ergonomic configurations equipped.

※ Multifunctional steering wheel: electronic control adjustment, Bluetooth communication, address book inquiry, 220V power supply; convenient and fast battery charging function.

※ Extra-wide sleeper, sufficient storage space.

※ Electronic control doors and windows: sedan's design.

※ Equipped with fuel heater: stop cold and enjoy comfortable of safty and warmth.



### INTELLIGENT













※ Intelligent electric configuration: electronic control doors and windows, center control door lock, electronic control sunroof, adjustable height of headlight, multifunctional steering wheel, Bluetooth system, LCD, automatic cruise, DVD intelligent navigation, spotlight inside storage tank, vehicle power supply, automatic lock while driving, more electronic intelligent control, and more humanization selection.

※ Intelligent electronic control: integrated recreation equipment, theft-proof, positioning system, etc. improve the convenience of the system; managing main dynamic and power system and guarantee the performance of the whole vehicle; taking advantage of CAN cable system to realize dynamic system intelligent control, optimize dynamic performance, and effectively decrease fuel consumption and discharging.

※ Intelligent fault diagnosis: carrying out full time and comprehensive supervision and diagnosis on engine, light system, ABS, door control system and send alarm to user .



## BEIBEN PRODUCTS -CAB SERIES RANGE

		width	short	Medium	long	Long and High roof	engine
HEAVY-DUTY TRUCK	Wide body	 2480					WP10(270~375) WP12(375~480) WP10NG(240~340) WP12NG(340~380) WP13(480~550)
	Narrow body	 2260					WP10(270~375) WP12(375~480) WP10NG(240~340) WP12NG(340~380)
MEDIUM-HEAVY TRUCK	Narrow body	 2260					WP7(240~300) WP10(240~380) WP12(340~380)





**ROAD  
TRANSPORT  
VEHICLE**





## WATER TANK

### Ⓐ SPECIFICATIONS OF WATER TANK Ⓐ

CHASSIS	Chassis Model	2638P
	Driving Type	6 × 4
	Cab	NG80B short cabin
	Wheel Base(mm)	5050+1450
	Engine Model	WP10.375
	Gearbox Type	9T1680
	Steering System	ZF8098, recirculating ball steering gear, hydraulic booster
	Clutch	φ 430, Single dry frictional disc, hydraulic booster
	Front Axle	Double-shoe pneumatic brake, non-driving steering axle ,7.5T
	Rear Axle	Double-shoe pneumatic brake, ductile casting casing, Double reduction driving axle, speed ratio is 5.263, 13T
	Sections Of Frame(mm)	317 × 70 × 8.5+7
	Tyre	12.00R20
	Fuel Tank Capacity ( L )	400L iron tank
SPECIFICATIONS OF WATER TANK	Material	Steel Q235B
	Capacity	20000L
	Shape	Oval
	End cap material thickness	5mm
	Number of baffles	3
	Baffle material thickness	3.75mm
	Manhole qty. &size	1&500mm
	Discharge	Gravity & Pump
	Hose	2x6m plastic with quick release mechanism
	Volume of pump	80M <sup>3</sup> /h
Ladder & Tank breather	Yes	





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