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All-in-one service

R&D/Manufacturing/ Installation /After-sales service



Logistics Handling and Transport
Logistics Handling and Transport

KUNMING CIBA DIGGINGS MACHINERY CO., LTD

Convenient/Fast/Time-saving/Labor-saving

► Company Profile



Established in 1977, Kunming Ciba Diggings Machinery Co., Ltd. is a subsidiary of Yunnan Noah's Ark Group. We are a high-tech enterprise providing system design, product R&D, manufacturing, and service.

We have three sub-brands, namely "Caibao" (采宝), "CIBA" and "Caibao" (探宝). Over the past 40 years, we have focused on the R&D and manufacturing of machinery for mineral processing, aggregates, material screening, conveying and logistics handling, loading, and unloading, and provided our clients with a package of solutions such as system design, complete set of products, installation and commissioning, maintenance, training, service and consulting.

We have a modern office building and a manufacturing base, covering an area of 33,300m², with 140 employees, including more than 20 scientific research personnel and 2 leading talents of district-level high-tech enterprises. In recent years, we introduced advanced information management systems such as PLM, ERP, and CRM successively. Through three-dimensional computer-aided design (3D CAD) and finite element analysis (FEA) and optimization design, we shortened the product development cycle, and improved the reliability of product design, to meet the increasingly complex personalized needs of clients.

In 2003, we became the first Chinese digging machine manufacturer certified under the ISO 9001 quality management system. We also obtained the certification of high-tech enterprise and Yunnan Certified Enterprise Technology Center.

We have more than 40 independent R&D patents. The products we have developed in recent years include automatic palletizers, automatic depalletizers, flat-top chain conveyors, chain conveyors, powered roller conveyors, belt conveyors, vehicle lifting tailboards, and other automatic conveying, handling, loading, and unloading equipment for barreled water production lines. These products are successfully applied in large barreled water producers and are well received by users.

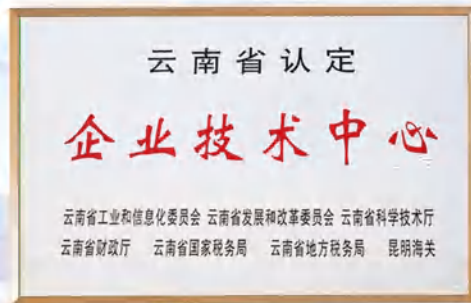
Meanwhile, we have established cooperation with world-famous companies from the US, Italy, etc. to introduce and absorb internationally advanced products and technologies, so as to continuously consolidate technical strength and improve our core competitiveness in technology.

Over the past 40 years, we have been adhering to the company spirit of "love and gratitude", driven by technological innovation, and continuously developing the market with high-quality products and services. Our products are exported to more than 20 countries and regions such as South America, North America, Australia, Indonesia, Malaysia, Thailand, Myanmar, Vietnam, Laos, India, and Africa, where the products have been widely recognized and praised.

We will keep the momentum and take information technology as an endogenous growth factor. In the context of continuous evolution, change, and interdisciplinary cooperation of information technology and industrial technology, we will continue to optimize and enhance product development and design, manufacturing, operation and management, and marketing services to achieve innovative, intelligent, and green development and form a sustainable competitive ability. We will work hand in hand with global users to develop together and get greater achievements.

Qualification

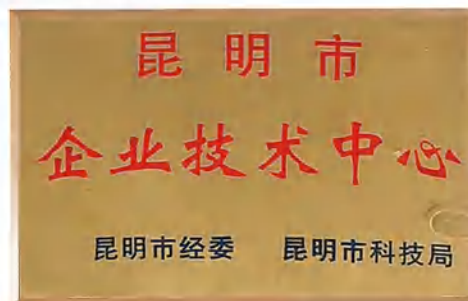
Work environment



Yunnan Provincial Enterprise Technology Center



High-Tech Enterprise



Kunming Enterprise Technology Center



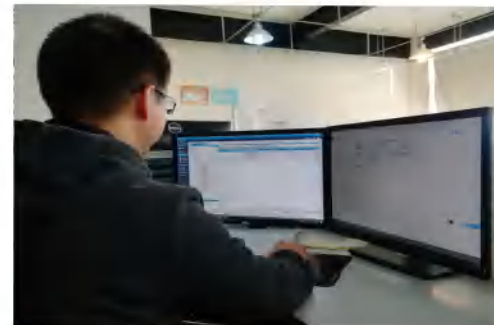
Business License



Test Report of China National New Energy Vehicle Quality Supervision and Test Center



Quality System Certificate



Production workshop



- > Structural Components Branch
- > Machining and Assembly Plant



CNC flame cutting machine



CNC plasma cutting machine



CNC machine tool



Workshop Corner

Large-format Fiber Laser Cutting Machine

> Tail Lift for Vehicles

The tail lift is a kind of hydraulic equipment for hoisting, loading/unloading. It is powered by the onboard battery and installed at the rear of a truck or various vehicles. With a tail lift, the loading/unloading of the truck will not be restricted by the site, equipment and manpower. Even one driver can finish the work. The work efficiency can improve greatly while the labor intensity is small, and the economic efficiency of the vehicle can be enhanced

Advantages



- | | | | | |
|---------------------------------|---|---------------------------------|-----------------|------------------------------|
| Improved | Lowered | Improved | Lowered | Improved |
| Efficiency in loading/unloading | Loading/unloading costs and labor costs | Transport vehicle turnover rate | Goods depletion | Brand image and market share |



It is suitable for industries such as military, fire-fighting, postal service, finance, petrochemical, commercial, food, logistics, manufacturing, etc., and is well received by the majority of users.

Product Specification and Model



The whole machine has undergone the strict durability test and passed the inspection of the National Quality Supervision Center for New Energy Vehicles.

Caibao is a professional manufacturer of tail lifts for vehicles, which integrates R&D, manufacturing, installation and after-sales service.

We have taken out product liability insurance in Ping An Insurance (Group) Company of China, Ltd.

Four decades of experience in the machinery industry, strong technical R&D capability, attentive after-sales service, and a long warranty on the whole machine.

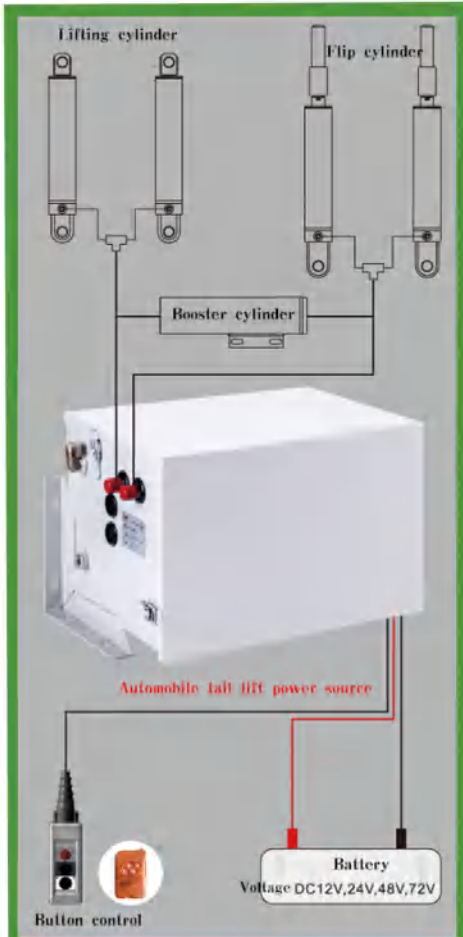


S/N	Model	Load capacity (kg)	Maximum lifting height (mm)	Voltage DC (V)
1	CB-PP05/GA	500	950	12/24
2	CB-PP08/GA	750	950	12/24
3	CB-PP10S/GA	1000	950	12/24
4	CB-PP10L/GA	1000	1250	12/24
5	CB-PP15S/GA	1500	1250	12/24
6	CB-PP15L/GA	1500	1450	12/24
7	CB-PP20S/GA	2000	1350	24
8	CB-PP20L/GA	2000	1500	24
9	CB-PP30S/GA	3000	1350	24
10	CB-PP30L/GA	3000	1600	24
11	CB-PP05/LA	500	950	12/24
12	CB-PP08/LA	750	950	12/24
13	CB-PP10S/LA	1000	950	12/24
14	CB-PP10L/LA	1000	1250	12/24
15	CB-PP15S/LA	1500	1250	12/24
16	CB-PP15L/LA	1500	1450	12/24
17	CB-PP20S/LA	2000	1350	24
18	CB-PP20L/LA	2000	1500	24

Note: Our company not only produces aluminum and steel tail lifts of the above specifications, but also provides customized tail lifts to suit business needs according to user application scenarios.

► Hydraulic system

The tail lift is equipped with five-cylinder automatic balancing hydraulic system. The hydraulic system features intelligent balancing for relative position and good operating stability.



The working panel will be lifted or lowered automatically by pressing the "up" or "down" button. The hydraulic pipeline adopts the combination arrangement of oil and gas pipe, with a reasonable and compact structure without oil leakage.



The cylinder tube is equipped with an enclosed dust cover, which effectively prevents the erosion of the cylinder by dust, soil and rain and prolongs the service life.



The cylinder adopts the imported quality seal ring. Each seal ring is free of oil immersion, oil leakage through strict leakage tests and has a long service life.

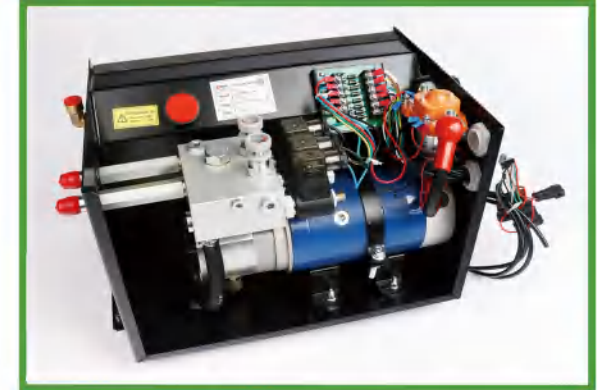


Each rotating joint is equipped with self-lubricating copper-based bushings for more flexible rotation; and the rotating shafts are all equipped with filling cups for lubricants.

► Power unit

The relays, gear pumps, solenoid valves and other high-quality parts of the power unit are introduced from the United States, Germany, Italy, etc., all of which are safe and stable with low failure rate after strict testing.

Motor with overheat protection is equipped, which is safe and stable, with accurate control and sensitive action.



The box is made of high quality galvanized steel plate. The surface is treated by spraying plastic, with super weather resistance and anti-corrosion, anti-rust, waterproof, anti-vibration and other characteristics.

► Electrical control components

Electrical control design and manufacturing comply with national safety standards to ensure the safe use of the tail lift.



Industrial-grade wireless remote controls can work without interfering with each other when thousands of devices are operating at the same time. The USB charging interface is more convenient and environmentally friendly to use; the waterproof and dustproof rating is IP67.



The fixed electric control box adopts high-quality components and switches which are durable, and is equipped with overload protection devices for safety and stability.

► Work panel

The professional hydraulic system is designed based on the concept of advanced vehicle hoisting, transporting and loading equipment at home and abroad. The optimization design scheme is employed for the system to innovate in integration by combining with actual scenarios, creating a new generation of vehicle lifting and transporting equipment with leading technology in China.



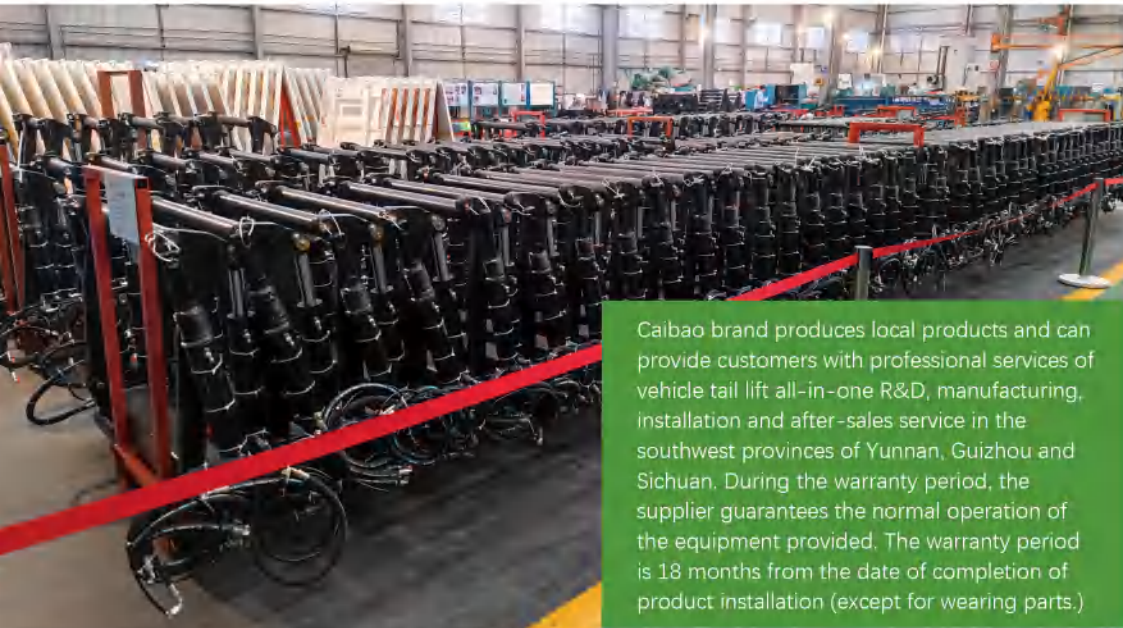
1 Steel work panel

- It is made of high quality and high-strength steel plate.
- The whole machine is treated by surface shot blasting, with strong adhesion of paint. The paint is treated with baking to achieve a good surface finish.
- The safety flags and various stickers on the panel surface are made of special reflective materials, which greatly improves the warning effect in the safety zone.



2 Aluminum work panel

- High-quality aluminum alloy heat treatment profile is used.
- Automatic welding equipment is adopted to ensure the reliable welding quality of the aluminum plate.
- The safety flags and various stickers on the panel surface are made of special reflective materials, which greatly improves the warning effect of the safety zone.



Caibao brand produces local products and can provide customers with professional services of vehicle tail lift all-in-one R&D, manufacturing, installation and after-sales service in the southwest provinces of Yunnan, Guizhou and Sichuan. During the warranty period, the supplier guarantees the normal operation of the equipment provided. The warranty period is 18 months from the date of completion of product installation (except for wearing parts.)

> Auto-unstacker

Features and parameters of auto-unstacker

Range of application	5-gallon water barrel
Capacity	2400barrels/hour 150pallets/hour
Barrels per grabbing	16barrels
Pallets per grabbing	1pallet
Max layers of stacked pallets	12layers
Max height of unstacking	2110mm

The auto-unstacker has three degrees of freedom, including vertical movement, horizontal movement and vertical rotation. It performs unstacking in different arrangements and layers as required. A pallet truck arriving at the factory only needs to transfer the empty bucket stack to the unstacking station, where an unstacker automatically grab and place empty buckets onto the belt conveyor toward production line of cleaning without manual unstacking and placement of transportation pallets. The automatic unstacking is not only efficient but also low cost in labour.



▶ Auto-stacker

Features and parameters of auto-stacker

Range of application	5-gallon water barrel
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Barrels per grabbing	16barrels
Pallets per grabbing	1pallet
Maximum stacking height	2110mm

- Touch screen, advanced configuration, safe and reliable
- Reasonable structure, easy to operate and maintain
- Full servo drive, more accurate and faster movement

The auto-stackers and auto-unstackers are developed independently by our company with mostly the same working principle. The auto-stackers make fast, compact and tidy stacking. The prices of the stackers and unstackers are far lower than industrial robots. They are free from operation and supervision of a professional technician after it is properly arranged, and only simple regular oil lubricating is required for maintenance. In addition, the machines are of low costs of purchase and usage, and the one-off investment benefits for a lifetime. Therefore, auto-stackers are unparalleled economical in the production line of barrelled water.



▶ Spiral Lifting Conveyor

The spiral lifter conveyor is suitable for lifting or lowering in limited space. It features space saving, easy maintenance, and long service life. It is used for temporary storage, cooling, continuous upward and downward transportation, and warehouse out-put and in-put during production.

- Width of conveying belt : 200mm、 300mm、 400mm
- Lifting height: effective conveying height at single power is 5m
- Load bearing each machine at single power: <500kg



► Flat Top Chain Conveyor

Product advantages and parameters



- * Flat conveying surface ensures less falling down of bottles
- * The rack can be made of stainless steel, carbon steel or aluminum alloy.
- * The chain plate can be made of POM (plastic steel), PP (polypropylene) or stainless steel.
- * Single drive is generally not more than 10 meters.
- * The maximum linear speed is usually no more than 40 meters

Flat top chain conveyors are widely used for automatic transport, distribution and packaging of food, cans, beverage, cosmetics and detergents, etc. They are wear-resistant, corrosion-resistant, structure-precise and operation-stable. The machine is indispensable for direction-shift conveying in a flat plane.



14

► Chain Conveyor

The chain conveyor adopts a chain for transmission and conveying. The chain mounted on a track bears and conveys goods. Its advantages in conveying packed products. Chain conveyors produced by our company is widely applied in production lines of packaging and storage.



► Belt Conveyor

The belt conveyor adopts a specialized food-grade belt to meet the requirements of food, pharmaceutical, daily chemical and other industries. Stable conveying without relative movement between materials and the conveyor belt keeps materials conveyed from damage. Compared with other conveyors, our conveyors are less noisy to work in quiet working environment.



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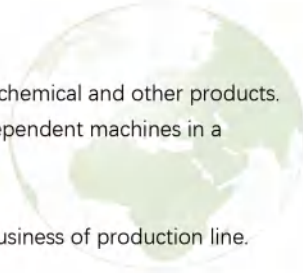
▶ Powered Roller Conveyor

The powered roller conveyor is simple in structure, highly reliable, easy to use and maintain, and applicable to convey boxes, bags, pallets, etc. Bulk materials, small and irregular objects shall be conveyed on pallets or in containers. The roller conveyor is able to convey materials with great unit weight, and durable to large impact load.



Conveyors play a vital role in production lines of water, beverage, daily chemical and other products. Proper configuration of the conveyor means effective connection of independent machines in a production line to ensure the highest productivity.

Note: our company offers solutions targeting requirements of various business of production line.



Quality Policy

Develop fine mining machines as the focus

Build qualified products based on quality

Provide considerate service with customers first

Create standard management by continuous improvement

Foster caring culture with people-oriented