



山东金钟电子集团

SHANDONG JINZHONG ELECTRONIC GROUP



Hydraulic Dumper

(Bulk Trucker Dumper)

JINAN JINZHONG ELECTRONIC SCALE CO., LTD.

SHANDONG JINZHONG COAL MACHINE HYDRAULIC EQUIPMENT CO., LTD



Shandong Jinzhong Electronic Group (referring to as “Jinzhong Group” hereinafter) is enterprise group, which uses Jinan Jinzhong Electronic Scale Co., Ltd as core, and consists of Beijing Jinzhong Information Technology Co., Ltd, Shandong Jinzhong Electronic Coal Machinery & Hydraulic Equipment Co., Ltd, Jinan Gudun Information Technology Co., Ltd, Jinan Zhongyuan Hengxin Electronic Scale Co., Ltd and Jinan Jinzhong Logistics Co., Ltd. Jinan Jinzhong Electronic Scale Co., Ltd, founded in 1918, is the scale group with the largest scale and most product types in China at present. Jinzhong Group concentrates on development, spread and application of Chinese weighing and measuring technologies all the time, regards developing national scale industry as own task, and makes great efforts in forming long-history enterprise in China.

Jinzhong Group actively introduces management ideas and means of modern enterprise, and passes authentication of ISO9001 quality management system, ISO14001 environmental management system and OHSAS18001 occupational health and safety management system. On the base of realizing computer aided design (CAD), computer aided engineering (CAE) and computer aided manufacturing (CAM), the company has carried out enterprise resource planning (ERP) and customer relationship management (CRM) so as to make quick response to the users’ requirements.

After experience accumulation for over ninety years, Jinzhong Group becomes drafting and revising unit of several scale products in scale industry, and is bearing unit of China Weighing Instrument Standardization Technical Committee Secretariat. Jinzhong Group is high-tech enterprise of Shandong Province, has technical center with province level and “Engineering Research Center of Industrial Intellectual Scale of Shandong Province”, has 56 own patents and 5 software product copyrights. Jinzhong Group establishes long and stable relationship with several national scientific research, universities and colleges, researches and develops the products that are urgently needed by customers.

Jinzhong Group has established scores of domestic sale offices and over 100 sales service points. Its products have sold all over China and exported to scores of countries and areas such as America and Japan. Jinzhong Group make its customers reassure and satisfy by advanced service concepts and perfect service management mechanisms.



ISO9001 quality management system



ISO14001 environmental management system



OHSAS18001 occupational health and safety management system

样本分类

Sample Catalogue

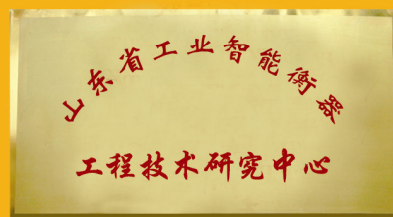
- ◎ 企业概述篇
- ◎ 智能电子汽车衡篇
- ◎ 电子轨道衡篇
- ◎ GAM无人值守自动计量管理系统篇
- ◎ 称重显示控制器篇
- ◎ 称重传感器篇
- ◎ 电子皮带秤、实物校验装置篇
- ◎ 定量秤篇
- ◎ 非连续累计自动衡器篇
- ◎ 液压翻板篇

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- ◎ 称重模块篇
- ◎ 高速公路整车式计重收费系统篇
- ◎ 冶金行业专用衡器篇
- ◎ 粮油行业篇
- ◎ 快速装车站篇
- ◎ 液压动筛跳汰机篇



全国衡器标准化技术委员会秘书处

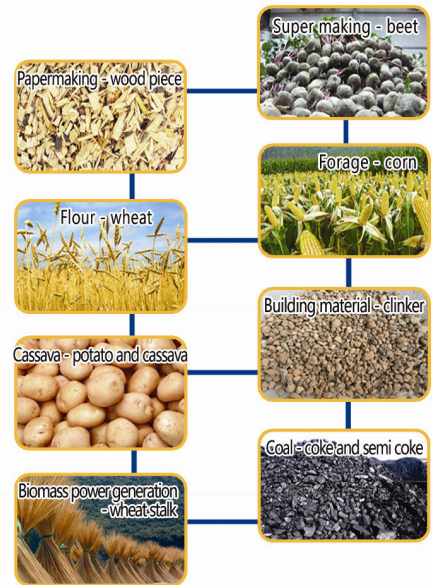


山东省工业智能衡器工程技术研究中心

Survey of hydraulic dumper

Hydraulic dumper is a device that makes automatic unloading of truck with bulk material and no-automatic unloading capacity, and is also called as “bulk truck unloading device”. It is suitable for automatic unloading of truck with bulk materials such as grain, forage, potato, wood piece, coal, ore and cement chamotte, and is widely used in unit and departments that have bulk material receiving operation such as grain and oil, food, sugar, coal, building material, chemical industry, metallurgy, mine and port. The equipment improves production efficiency of use unit, saves manual unloading cost, creates good economic benefit to use unit, and can add weighing system to form “hydraulic dumper truck scale” according to user’s requirements.

Jinzhong Group is the only integral machine manufacturer in drafting units of national standard GB/T21489-2008 “Bulk Grain Truck Unloading Device”.



Able to bring economic benefit to enterprise

- ◆ After using hydraulic dumper, one person can operate, working efficiency improves greatly, and production (unloading) cost is saved;
- ◆ High quality hydraulic dumper equipment has large unloading capacity (30-150 tons), small input power (power saving), reliable operation and less equipment investment, and unloading efficiency of bulk truck can be improved greatly by using hydraulic dumper (bulk truck unloading device). Comparing with manual unloading, its efficiency can improve greatly, labor strength of unloading workers are reduced, labor quantity is decreased, and economic benefit to enterprise is increased.
- ◆ Workers’ labor strength is reduced, working environment is improved, personnel management is more convenient, and enterprise management level and image are increased.



Before use



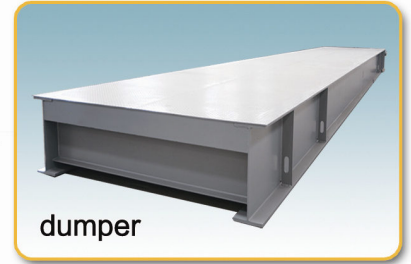
After use



Composition of hydraulic dumper

Hydraulic dumper mechanic system, hydraulic system, control system, etc.

- ◆ Integral dumper has very high rigidity and strength. H-shape steel main beam is on two sides, and upper and lower crossing steel beam structure is in the middle. dumper welding uses carbon dioxide gas protection welding, has high welding corner height, hasn't defects such as overlap, undercut, air hole, crack and deformation, ensures welding quality and improves structural strength of dumper; dumper surface uses integral shot blasting and sand blasting treatment, which increases hardness of steel surface and improves physical performance of steel surface and painting adhesion, and coating production line makes integral coating; dumper surface is lain with corrugated wearing steel plate, which prevents truck skidding effectively.

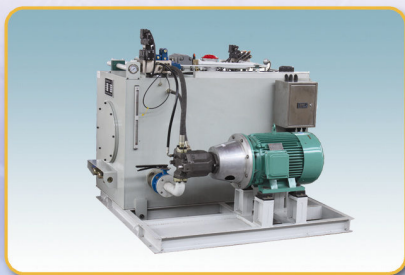


- ◆ Hydraulic system includes hydraulic cylinder and hydraulic control system. Hydraulic cylinder uses multi-stage extension structure and importing sealing ring, ensures stability of platform elevation and safe reliability of equipment operation, has high safety factor, reduces depth of foundation pit, and saves civil construction expense; hydraulic control system consists of hydraulic pump station, oil tank, oil thermometer, pressure gauge, filter, hydraulic circuit and control component. Main hydraulic component uses importing product. Hydraulic control system can ensure no oil leakage during long-term operation, and the system has action interlocking function.

- ◆ Hydraulic control system is designed by specialized technician. The whole system has rational layout and reliable performance, uses foreign and advanced hydraulic control technology, and is suitable for adverse environment with high and low temperature and large dust; control system uses importing PLC control, has safe interlocking function, and will not cause wrong action under power failure or wrong operation, and ensure safety of personnel, equipment and truck.



- ◆ Our company can make weighing system become "hydraulic dumper scale" according to user's need, and its accuracy class can reach class III



Hydraulic station
(supporting on two sides)



Hydraulic station
(supporting on bottom)



Electric control cabinet



Hydraulic elevation type
wheel blocking mechanism



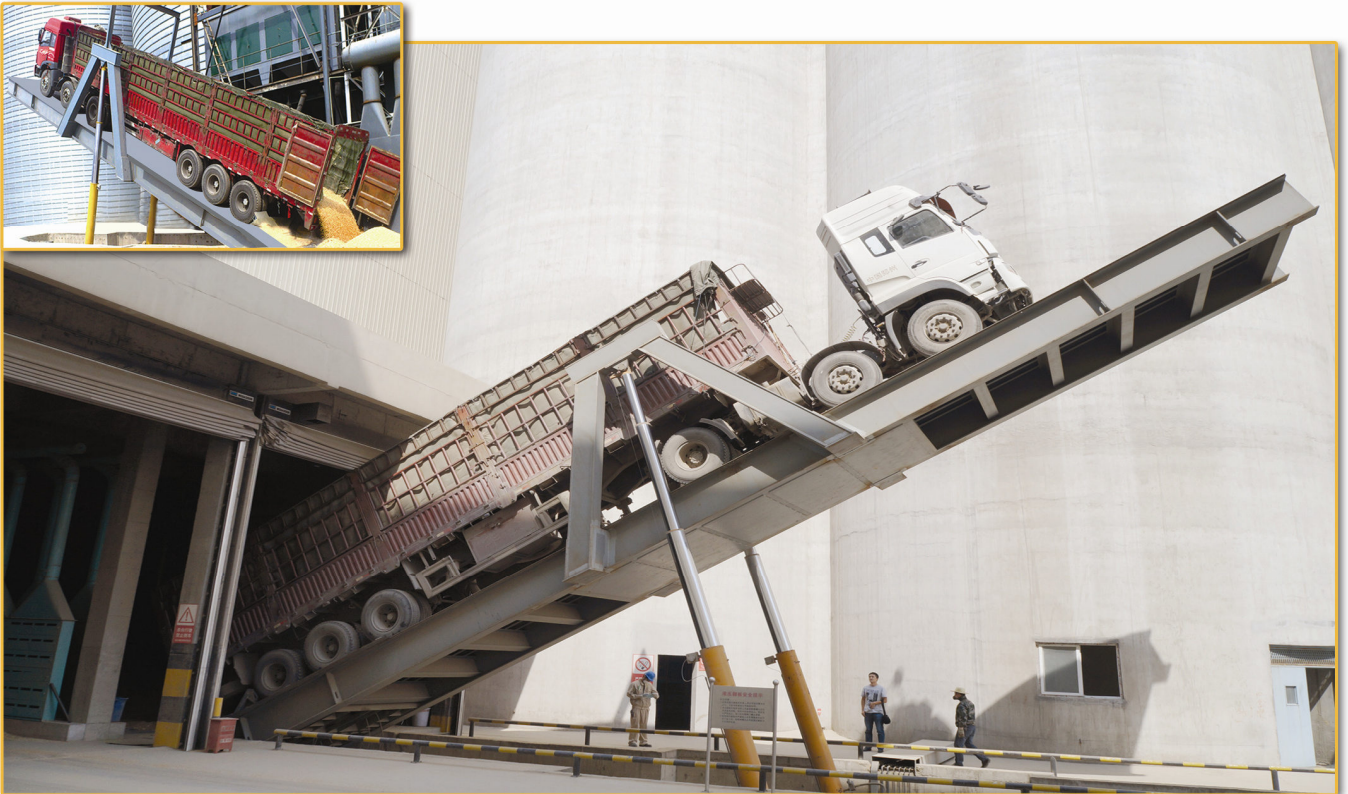
Main hydraulic cylinder



Fixing wheel blocking mechanism

Two-side support type dumper (back dumping type)

Hydraulic cylinder is laid on two sides of dumper, and is mainly suitable for unloading of platform with large tonnage (lifting weight 80t–150t) and long platform (14m ≤ Platform length ≤ 20m). Two hydraulic cylinders are laid on two sides of platform, and make synchronous operation, and platform elevation is safe, stable and reliable.



Main technical parameter of two-side support type dumper

Product type	Platform size (length × width) (m)	Maximum capacity (t)	Maximum lifting degree (°)	Structure type
XTQ80	14 × 3	80	45°/55°	Back dumping type and two-side support
XTQ80	16 × 3 / 18 × 3	80	45°/55°	
XTQ100	18 × 3 / 20 × 3	100	45°/55°	
XTQ120	18 × 3 / 20 × 3	120	45°/55°	
XTQ150	18 × 3 / 20 × 3	150	45°/55°	

Bottom support type dumper (back dumping type)

Hydraulic cylinder is laid on the bottom of dumper, and is mainly suitable for unloading of platform with middle and small tonnage (lifting weight 30t–80t) and middle platform ($12\text{m} \leq \text{Platform length} \leq 18\text{m}$). Two hydraulic cylinders are laid on one line in the middle of platform, and equipment operation is safe and reliable.



Main technical parameter of middle support type dumper

Product type	Platform size (length × width) (m)	Maximum capacity (t)	Maximum lifting degree (°)	Structure type
XTQ30	12 × 3	30	45°	Back dumping type and bottom support
XTQ50	12 × 3	50	45°	
XTQ50	14 × 3	50	45°	
XTQ60	16 × 3	60	45°	
XTQ60	18 × 3	60	45°	
XTQ80	16 × 3	80	45°	
XTQ80	18 × 3	80	45°	

Side dumping type hydraulic dumper



Side dumping type dumper is truck bulk unloading device that integrates electric control and hydraulic control, and can made side dumping automatic unloading for bulk truck. The system mainly consists of various parts such as dumper platform, wheel blocking mechanism, ejecting hydraulic cylinder, safe chain locking device, hydraulic control system and electric control system, and uses CAD design and FEA. The whole system has rational layout and reliable performance, uses foreign and domestic famous components and advanced hydraulic control technology, and it is especially suitable for adverse environment with high and low temperature and large dust; it has less equipment investment and high efficiency, is widely used in various industries such as grain, oil, forage and coal, saves manual unloading cost, and brings good economic benefit to users.

Container loading (unloading) equipment



Container loading (unloading) equipment is one device for loading and unloading bulk container. The equipment uses hydraulic system control completely, has the advantages of stable operation, safe working, high efficiency and low consumption, realizes various functions such as container unloading, material dumping and loading (0-900) and rotation and movement in any angle, makes the container reach maximum loading capacity, and is ideal tools for fields that need container bulk loading (unloading) in grain, port and goods yard.

Single side hydraulic dumper (side dumping type)



Single side hydraulic dumper (side dumping type) is special unloading equipment. The equipment has high mobility, can move within unloading area by traction device, makes unloading operation at different positions, and improves unloading efficiency of bulk receiving units such as grain deposit. It solves key problems such as slow unloading speed, adverse working environment, high unloading cost and low safety factor completely, and reduces unloading and production cost of enterprise.

Hydraulic dumper team

Jinzhong Group owns a batch of outstanding engineers in hydraulic, mechanic and electric and other majors, and widely uses advanced hydraulic control technology and key components of foreign and domestic famous brands by concept of “designing and manufacturing the best hydraulic dumper product in China” ; the company has hydraulic machine workshop, hydraulic dumper product after-sale service center and specialized production, manufacture, installation and maintenance team, and ensures to provide quick and efficient after-sale service to the customers.

Hydraulic dumper workshop

Jinzhong Group establishes specialized hydraulic coal machine workshop, and equips advanced processing, manufacture and inspection equipments and specialized technical worker team.



Hydraulic dumper test base

Jinzhong Group establishes hydraulic dumper test base in Jinzhong Industrial Park, and formation can be made only after design, modification, use of new material and component of hydraulic dumper are verified and qualified on the test base.



Typical application case



Typical application case



Application site in seed industry



Application site in forage industry



Application site in papermaking industry



Application site in coal industry



Application site in building material industry

Key project sales - Total hydraulic dumper project cases exceed 220 sets, and production and sales volume takes the first position in Chinese markets.



正大集团
CHIA TAI GROUP



中国种子集团



太美薯业
Tai Mei Potato Industry Limited



西王集团



古船米业
GUCHUAN RICE



金沙河面业
JINSHASHE FLOUR MANUFACTURING



一加一面业
ONE PLUS ONE FLOUR



陕富

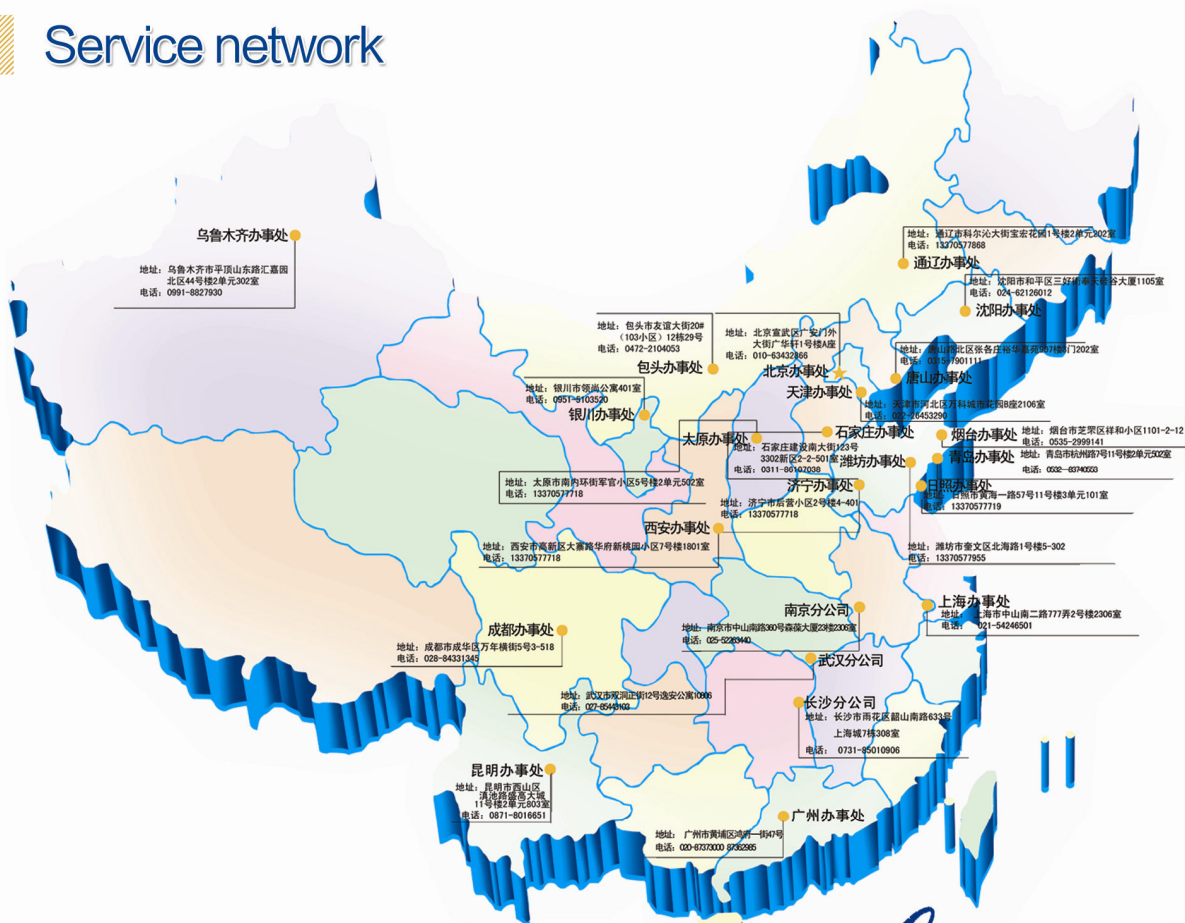


Service advantage

Jinzhong Group implements ISO9001, ISO14001 and ISO18001 international authentication standards from product manufacture and quality control to after-sale service strictly, and sets up perfect CRM customer relation management system, technical service procedure and customer contact and service center. Jinzhong Group establishes 19 offices, 3 subsidiary companies and over 60 after-sale service points all over the world. One technical research, development and service team with quick response capacity are fostered and formed by service practice for many years, a complete set of perfect service system is established at present, and involves whole process of product manufacture, installation, adjustment and repair. Overall service of before-sale, under-sale and after-sale in “365 days × 24 hours” is made, and various measures for solving problems are provided to the customers!



Service network



Branches of Jinzhong Group

Communicate
客户联络服务中心
400-658-6071

Enterprise strength

Jinzhong Group has long history of near one hundred years, “Jinzhong” becomes famous brand in China, and “Shandong Industrial Scale Engineering & Technical Research Center” is established after approval by Shandong Provincial Science and Technology Department. As domestic leading scale, coal machine and large loading and unloading equipment manufacturer, Jinzhong Group establishes modern large combined production base with over 50,000 square meters in Jinan Mingshui High-tech Development Area. Technical equipment of the base realizes streamlined production of product material preparation, welding, processing, surface treatment, coating, drying, assembly check and inspection, improves product manufacture level, and ensures product processing quality.



Laser cutter



Digital control bender



Automatic welding product line



Shot blasting product line



Coating product line



Workshop



Loading and unloading means
Creating by Jinzhong

装卸之道 金钟创造

济南金钟电子衡器股份有限公司

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