



Knowledge Creates Wealth
Technology Leads Future



Coal Drum Drying System



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About Us

China Coal Research Institute, Coal Preparation Branch, the only large science and technology institute in China engaged in professional research in coal separation, mine measurement, hydraulic mining and pipe transportation, was established in 1956. In July 1999, the institute was transformed into a scientific and technical enterprise resorting directly under the central government. Currently, the institute has 816 staff members which include 430 professional engineers and technicians. Among the professional engineers and technicians, 158 are professional researchers and senior engineers including 53 experts who enjoy a special subsidy of the state council.

Now about 80% of the technology used in Chinese coal preparation plants are originally from us.

China Coal Research Institute, Coal Preparation Branch, has been given the right to award a master's degree in engineering in mineral processing, a class A qualification certificate to provide engineering consultancy, general contracting of mine engineering construction, engineering design, danger assessment of geological disasters, land layout, engineering design for the treatment of the geological disasters, surveying, measuring and safety assessment of the treatment engineering of geological disasters and productive ability checking for the coal mines and also the operational rights of the coal mining and importing and exporting business. In the past 50 years, China Coal Research Institute, Coal Preparation Branch, completed some 700 scientific and

technical research studies of which 190 were awarded prizes for scientific and technical progress at the state, provincial or ministry level. Furthermore, 94 patents were filed by the state and some 80 state business standards established from this work.

A number of state and provincial standardizing, scientific, technical and academic organizations are affiliated to the China Coal Research Institute, Coal Preparation Branch. Among these are the Quality Supervision and Inspection Centre of Coal Separation Machines in the People's Republic of China, the Technical Commission of Coal Standardization in the People's Republic of China, Coal Separation Branch, Information Centre of Coal Separation in Coal Industry and Mine Measurement, the Professional Commission of Coal Separation, Hydraulic Mining and Mine Measurement in China Coal Society and the Editorial Offices of Coal Preparation Technology and Mine Measurement in Coal Industry.

In March 2003, China Coal Research Institute also established associations with several well-noted domestic enterprises to establish the Tiandi Science & Technology Co., Ltd. In May 2002, Tiandi Science & Technology was listed on the Shanghai Stock Exchange (stock code: 600582) and became the first high-tech listed coal industry company in China.

China Coal Research Institute, Coal Preparation Branch, offers a complete range of services in scientific research, technical services, engineering design and contracting, product manufacturing as well as pro-

duction and management of coal preparation plants. China Coal Research Institute, Coal Preparation Branch, also owns the largest international advanced level pipeline transportation testing center in Asia.

Specialized technical areas such as clean coal production, mine survey, coal mining under buildings, railways and waterbodies, hydraulic mining and industrial pumping are also within the capabilities of China Coal Research Institute, Coal Preparation Branch.

China Coal Research Institute, Coal Preparation Branch is one of the most influential enterprises in the Chinese coal industry and also a major force in scientific research.

China Coal Research Institute, Coal Preparation Branch, passed the ISO9001 quality system certification in 2003 and was awarded one of the First Session National Best Ten Manufacturers of Coal preparation Equipment by the National Association of Coal Industry. It was furthermore awarded the National Outstanding Enterprise of Coal Mechanical Industry by the National Association of Coal Mechanical Industry and was considered the Advanced Collective Group which received the Prize of Gold Bridge in the Third Session of the Chinese Technical Market, the Provincial Level Enterprise that Keeps Contracts and Good and Beijing Municipal Science Committee and Grade 1 (3A) Credit Enterprise by Tangshan City.

Reputation of Credit by Hebei Provincial Administrative Bureau for Industry and Commerce. It is also the Enterprise to Re-

ceive the Prize of Service Quality in Scientific Exchanging and Promotion Service Trade by Hebei Provincial Technical Supervision Bureau and the Provincial Level High-tech Enterprise by Hebei Provincial Department of Science and Technology and Beijing Municipal Science Committee and Grade 1 (3A) Credit Enterprise by Tangshan City.

With the enterprise concept, "Knowledge creates wealth and science heralds the future.", China Coal Research Institute, Coal Preparation Branch, extensively cooperates and exchanges knowledge of science and technology with domestic and international customers on the basis of independent scientific creations. It has established good cooperative relationships with thousands of factories, mines, enterprises, institutes, universities, organizations of science and technology and design facilities in China. At the same time, China Coal Research Institute, Coal Preparation Branch, also positively cooperates in projects and technical exchange of knowledge of science and technology with more than 30 countries and regions including USA, England, Germany and Australia.

China Coal Research Institute, Coal Preparation Branch, promotes transformation of scientific and technical products in order to create economic and social benefits for customers.

China Coal Research Institute, Coal Preparation Branch, is now devoting itself to becoming a scientific and technical enterprise group which is advanced scientifically and technically and very influential in the international cleaned coal area.

Coal Drum Drying System

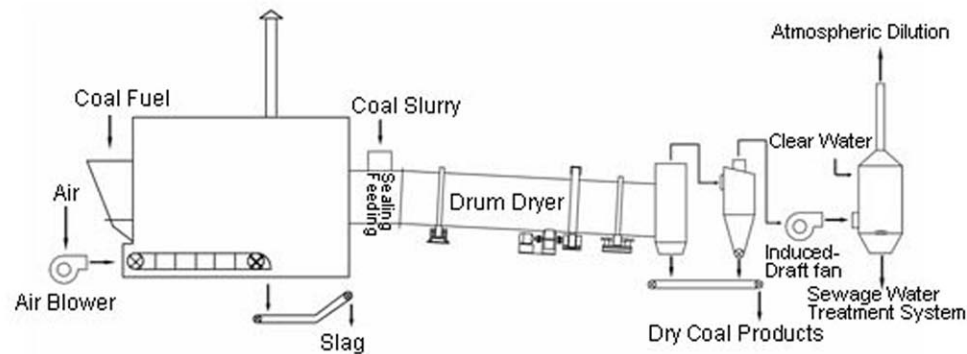
Background

Coal Drum Dryer is the coal specialized equipment that is suitable for treatment of the materials (the coal slurry or the flotation clean coal) with high moisture content, fine size and high viscosity. The evaporating strength of it is 95-105kg/m³·h and the thermal efficiency is over 70%. Moreover, it can be used for drying and dewatering ores, sands, limestone, quartzite and all the materials which do not react chemically, produce toxic and hazardous gases, break in high temperature or cause smoke pollution in the drying process in chemical industry.



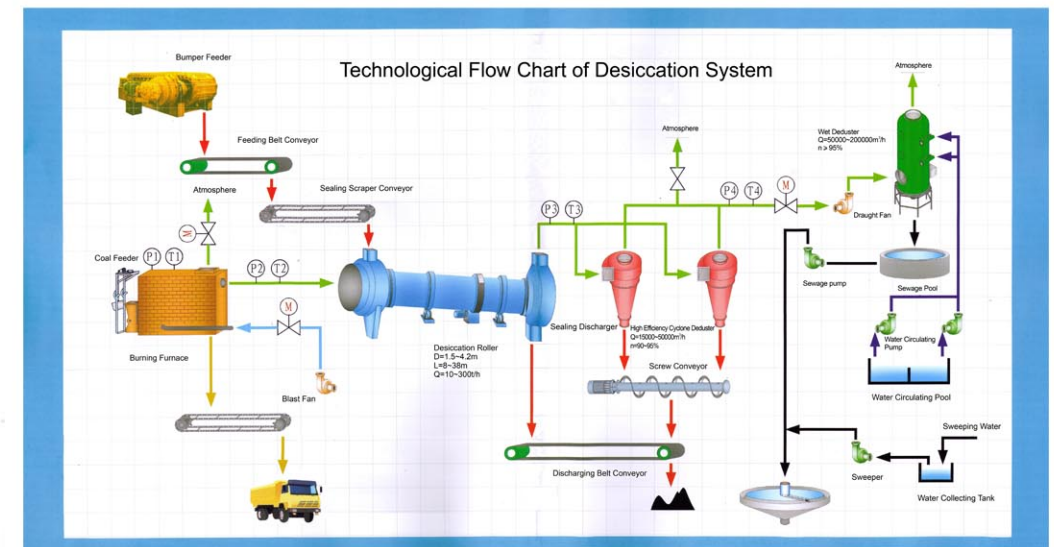
It composes of machine body, supporting-wheel device, transmission device and sealing device. The corollary technique system is simple and the investment is inexpensive. And the return of the investment is quick. The unique chained lifting flight structure and cleaning device solves the problem of internal adhesion. The thermal efficiency is high and the operation is safe and reliable.

Schematic Diagram



Technical Parameters:

Specification	JNG2214	JNG2414	JNG2818	JNG3020	There are many types of the series of the dryer. The length-diameter ratio can be selected according to the properties of the materials to be dried and the conditions on the site.
Parameter					
The Diameter of the Barrel (mm)	2.2	2.4	2.8	3.0	
The Length of the Barrel (mm)	14	14	18	20	
Power (kW)	37	45	75	110	
Weight (t)	40.1	44	80	90	
Capacity (t/h)	20-25	25-30	48-55	65-70	
The Moisture of the Feeding Material (%)	27-30	27-30	27-30	27-30	
The Moisture of the Discharging Material (%)	8-12	8-12	8-12	8-12	



Note: This Company has been engaged in the research and development of the separation techniques of the fine size material solid liquid. It owns lots of the famous technical experts in drying and dewatering and mature techniques of mechanical dewatering and drying dewatering. We are looking forward to providing the set equipments as well as the technical service for the coal slurry technical transformation and recovery of the coal slime for the coal preparation plants.

Manufacture Capability

TSTC has made an investment of 80-more million yuan on the remodeling and expansion of its original production system since it became a listed company. Currently it is operating with 30,000 m² plant area, 2500 m² workshops and annual output value up to several hundreds of million yuan. Meanwhile, it is provided with a wide variety of manufacturing facilities, including 5-m double-column vertical lathe, 2.5-m numerical control vertical lathe, numerical control flame cutter, 6-m double opposite borer, Toshiba 130 borer made in Japan, DL-32 versatile numerical control processing equipment, CK6163/6150 numerical control lathe, 6-m open-side planer, precision hobbing machine, 1~3-m gantry type milling machine, B5063 large-sized slotting machine, 600-t press fit machine and plate flattening machine, as well as a series of conventional equipment like 500-mm and 300-mm lathes, planer, shot and sand blasting machine etc. Tangshan Branch, TSTC has presently become the largest domestic and even worldwide specialized coal preparation equipment manufacturing and processing base. The new tooth form sizing crusher is one of dominant products.



Dynamic balance equipment



N/C lathe



Plasm incision lathe



A corner of the manufacture workshop



The No.1 manufacture workshop



Assembly workshop



Double-face boring lathe



N/C bender



600 ton compaction machine



5-m vertical lathe