



LXA Spiral Separator



让分离更高效
Better Separation



Weihai Haiwang Hydrocyclone Co., Ltd.
Weihai Haiwang Technology Co., Ltd.

Add.: No. 95, Huihe Road, Weihai, Shandong, China
Tel.: 400-606-3160 0631-5781196

Fax: 0631-5621557

E-mail: info@wh-hw.com weihaihw@163.com

Zip code: 264204

Website: www.wh-hw.com



Website



Account

Haiwang, specializing in the
R & D, manufacture and technical service of separation equipment for 30 years.

150000 m²
Production base area

30000 sets
Annual capacity of cyclones

3000 sets
Annual capacity of vibrating screen

3000 m²
Experimental base area

20000 m²
Spare parts warehouse area

Research ability



1

1 Second prize of national technological invention



3

3 Industrial standards drafted by the company



8

8 Innovation platforms above provincial level



100

100 Proprietary intellectual property rights



80

80 Senior engineers



150

150 Professional technicians

About us

Weihai Haiwang Hydrocyclone Co., Ltd. is the worldwide leading separation technology R & D and equipment manufacturing base. By adhering to the concept of "Better Separation", Haiwang is committed to providing advanced technology, high efficient equipment and superior service for users in mining, coal, electric power environmental protection, petroleum, chemical, sand aggregate and the other industries to assist users for the sustainable development. The products are far ahead in the domestic marketing share, and have been exported to mote than 60 countries, including Australia, Russia, Peru and India, etc. Haiwang has established the international branch companies including Neptune Mineral Co., Ltd in Russia and Helicon Mining Services Pty Ltd in Australia, and also the agencies in America, Peru, Chile, South Africa, India and Mongolia, etc. over 10 countries, thus to provide local service for clients all over the world conveniently.

Certifications

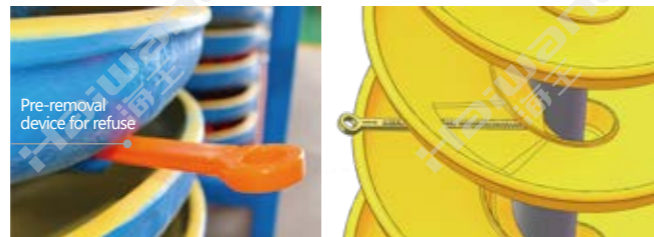
- EU CE certification
- ISO9001 Quality management system certification
- ISO14001 Environment management system certification
- OHSAS18001 Occupational health and safety management system certification

Innovation Platforms

- Shandong academician workstation
- Shandong province postdoctoral innovation experimental base
- Shandong cyclone separation engineering technology research center
- Shandong province recognized enterprise technology center
- Shandong one enterprise one technology R & D center
- Shandong industrial design center
- Shandong engineering research center
- National torch plan key high-tech enterprise



LXA Spiral Separator



Coal-use spiral separator is the coal preparation equipment, which separates the clean coal and refuse by the difference of material density. After the coarse coal slime flows into the spiral separator, the motion trail of material with various particle sizes and densities turn to be different due to the force of gravity, centrifugal force and friction on the light and heavy particles inside of the spiral chute. Finally the refuse gets discharged from the internal edge of spiral chute and clean coal gets discharged from the external edge of the spiral chute.

The coal-use spiral separator is the common equipment for the coarse coal slime separation of steam coal preparation plant, which is applied for the separation of coarse slime between 2-0.15mm.

Technical Feature

- Being equipped with patented structure of pre-removal device for refuse, which can greatly improve the separation accuracy of spiral separator;
- The design of parallel throat breathing tube is adopted in the pulp distributor of LXA spiral separator, which ensures the stability of pulp flow rate and flow rate;
- The cross section is made in special complex curve shape of advanced design, which can improve the recovery rate of clean coal at utmost;
- The whole machine is designed by modularity for convenient assembly and disassembly so it can supplement or remove certain parts as the customers' requirements;
- The flow passing components are poured and painted with hard wearing polyurethane and polyuria with high strength and wearing resistance and the service life of whole machine is over ten years;
- Improve the design of spiral separator structure in accordance with the coal property, including adjustment of spiral turns number as well as the pre-removal device for refuse quantity and so on.

Applications

- 2~0.15mm coarse coal slime separation and recovery for thermal coal preparation plant or anthracite preparation plant.
- Refuse removal on coarse coal slime for coking coal preparation plant.
- Applied in ash removing and desulfurization process for sulphur coal.
- Applied in coarse coal slime separation and recovery process from jig screen undersize.
- Can provide package service on coarse coal slime separation and recovery process for clients, including coal slime separation cyclone + spiral separator + multi-layer high frequency vibrating screen.



Technical Specifications

Item	Parameters			
	4 spirals / bank	6 spirals / bank	8 spirals / bank	10 spirals / bank
Feeding parameter range	2~0.15mm			
Feeding mass concentration	30~40%			
Dry ore capacity t/h	30~40	40~60	60~80	80~100
Slurry flow rate m ³ /h	80~100	120~150	160~200	200~250

Note: data shown in above table are based on the structure of 3 starts & 4 turns/ spiral. The production capacity will also be influenced by the feeding material properties, so please confirm with Haiwang for enquiry.

01



02



03



Application Site

Russia UK Kuzbassrazrezugol OAO
Kazakhstan Iron Ore Preparation Plant
Huineng Group Buerdong Coal Co., Ltd.
China Coal Group Muduchaideng Coal Preparation Plant
Shanxi Lu'an Group Yuwukuang Coal Preparation Plant
Inner Mongolia Manshi Group Guanzigou Coal Preparation Plant
Datong Coal Mine Group Co., Ltd. Majialiang Coal Preparation Plant
Datong Coal Mine Group Co., Ltd. Tashan Coal Preparation Plant
Datong Coal Mine Group Co., Ltd. Yongdingzhuang Coal Preparation Plant
Baode Xuyang Coal Washing Co., Ltd.
Hequ Xuyang Coal Preparation Plant

Inner Mongolia Yingyuan Coal Shipping & Marketing Co., Ltd.
Inner Mongolia Jintaichengta Coal Co., Ltd.
Jungar Qi Gonggou Coal Co., Ltd.
Kailuan (Group) Co., Ltd.
Dadi Engineering Development (Group) Co., Ltd.
Fuxin Wulong Coal Slime Plant
Lingshixisheng Coal Preparation Plant
Gaopingniushan Coal Preparation Plant
Dingji Coal Preparation Plant
Huanrenxinxing Coal Washing Plant



04