



Better Separation



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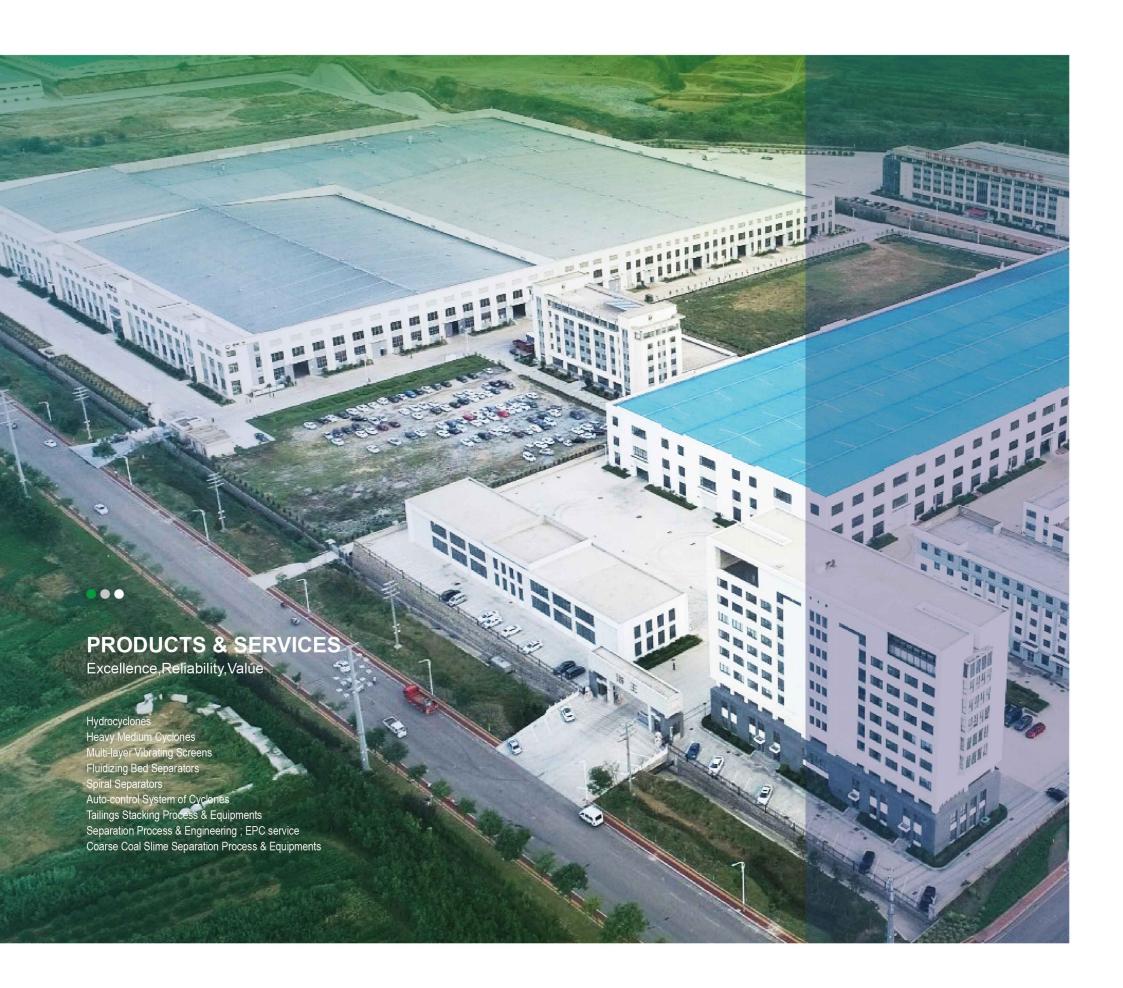
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THE COMPANY INTRODUCTION

Established in 1989, Weihai Haiwang Hydrocyclone Co., Ltd. is the largest and leading supplier of cyclone separation equipment and technical service in the Asia-Pacific region, and also one of the world-renowned cyclone manufacturers. Haiwang's leading products such as cyclone, classifying screen and separator etc. are widely used in mining, coal mining, electric power and environmental protection industry etc. Haiwang products take the leading market share in the field of separation industry and have been exported to more than 50 countries & regions including Australia and Russia etc. We have 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 and India etc., thus to provide local service for clients all over the world conveniently.

Haiwang is the "National Torch Plan Key High-Tech Enterprise", "New High-tech Enterprise of Shandong Province", "Single-Item Champion Enterprise in the Manufacturing Field of Shandong Province", "International Self-Owned Brand Enterprise of Shandong Province" and has established "Shandong Engineering Technology Research Center" and "Shandong Academician Workstation" etc. seven innovation platforms. We have the professional R&D team of more than 100 persons, to provide the professional services in design, consultation and technical support for clients. Besides, Haiwang also has more than 60 patents of independent intellectual property rights, including 8 patents for invention, 1 patent of "National Technology Invention Award", 5 patents of "National Key New Products", with the honor of drawing up 3 industrial standards as the technical forerunner and leader in the industry.

Haiwang has its own manufacturing bases, which cover an area of more than 150,000 square meters, the industry-leading manufacturing capacity and the standard production line equipped with the robot, laser cutting machine, automatic painting line etc. advanced machining equipment, competent of meeting the European, the American and the other international fabrication standards. The annual capacity is over 20,000 sets of different sizes of cyclones, more than 5,000 sets of vibrating screens and separators etc. In addition, Haiwang has the spare part warehouse with an area of more than 20,000 square meters, which can guarantee the timely and fast supply of various spare parts to clients. Haiwang has passed the EU CE certification, Quality Management System ISO9001, Environmental Management Systems ISO14001, Occupational Health & Safety Management System OHSAS18001 and GOST Russian authentication, which is a national safety production standardized enterprise.

HYDROCYCLONE SPECIFICATION

SPECIFICATIONS AND PARAMETERS

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Specification	Diameter (mm)	Inlet pressure (MPa)	Capacity (M³/h)	Cut size (μm)		
FX840	840	0.04-0.15	500-900	74-350		
FX710	710	0.04-0.15	400-550	74-250		
FX660	660	0.04-0.15	260-500	74-220		
FX610	610	0.04-0.15	200-300	74-200		
FX500	500	0.04-0.2	140-300	74-200		
FX400	400	0.06-0.2	100-220	74-150		
FX350	350	0.06-0.2	70-160	50-150		
FX300	300	0.06-0.2	45-100	50-150		
FX250	250	0.06-0.3	40-100	40-100		
FX200	200	0.06-0.3	25-60	40-100		
FX150	150	0.08-0.3	14-40	20-74		
FX125	125	0.1-0.3	8-25	25-50		
FX100	100	0.1-0.3	6-25	20-50		
FX75	75	0.1-0.4	5-10	10-40		
FX50	50	0.1-0.4	2-5	5-40		
FX25	25	0.1-0.6	0.3-1	5-20		
FX10	10	0.1-0.6	0.05-0.1	1-5		

PATENTED PRODUCTS



Volute Feeding Pre-classifying Hydrocyclone

Volute feeding chamber design
Overflow fineness increased over 5%
Fine particles in underflow decreased by 3-5%
Recovery increased by 1-3%
Classification efficiency increased over 10%
Lower feeding resistance and power consumption



Multi-cone Hydrocyclone

Multi-cone design
Capacity increased by 20-30%
Power consumption decreased over 15%
Realize finer classification with bigger diameter Cyclone



Spiral Feeding Hydrocyclone

Spiral feeding chamber design
Decrease inlet turbulence & resistance
Decrease abrasion and power consumption
Decrease coarse particles in overflow
Classification efficiency increased over 10%
Capacity increased over 10%



Flat Bottom Hydrocyclone

For ferrous ore grinding system with classification fineness of -200 mesh≤65%

Less fine particle in underflow and increase efficiency over 10% Lower mill circulation load and capacity increased over 15% Power consumption saved over 12%



Adjustable Apex

The adjustable apex can be applied to the grinding classification, tailing stacking and tailing dam processes, etc. It is convenient to control the performance of cyclone by online adjusting the dimension of apex electrically or manually and inspect the dimension of apex through the visual window. The adjustable apex is suitable for processing ore with unstable quality, thus can reduce the labor needed for changing apex frequently and improve the working efficiency.



TAILINGS STACKING PROCESS

AND EQUIPMENTS

Hydrocyclone & dewatering screen used for coarse particle tailings stacking.

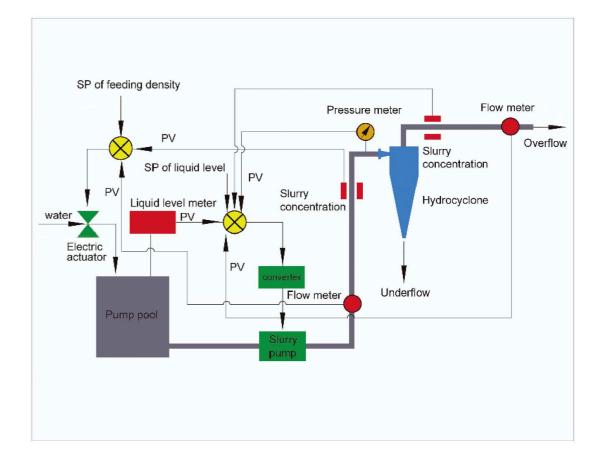
Thickener & filter press used for fine particle tailings stacking. Most of tailings stacked by hydrocyclone & dewatering screen to decrease the load of filter press, save equipment investment and operation cost.

Circulating water reused.



AUTO-CONTROL SYSTEM OF CYCLONES

Auto-control system for pump sump level, feeding density and pressure of cyclones, etc.











COMPLETE CLASSIFYING EQUIPMENTS

SOLUTIONS

Multi-layer vibrating screen combined with cyclones used for iron,lead zinc,tin,tungsten etc.ferrous and non-ferrous ores classifications,will dramatically avoid over-grinding,increase recovery and mill capacity by 10%.

Haiwang provides minerals classification EPC and cyclone-pump-screen complete equipments and service.



Spec.	3DZS-1007	5DZS-1007
Layer	3	5
Frequency (rpm)	1500	1500
Cut Size (mm)	0.074-1.0	0.074-1.0
Capacity (t/h)	30-90	50-150
Motor Power (kW)	2×1.8	2×1.8
Screen Area (m²)	4.2	7.4

MULTI-LAYER VIBRATING SCREEN

Feed density: 25-50% Feed paths: 3 or 5

Screen Material: Flexible polyurethane Mesh Size (mm): 0.10-1.00

Large unit capacity of 8-9 $t/m^2 \cdot h$ with 0.10mm mesh size Low power consumption of 0.075kWh/t with 0.10mm mesh size Screening efficiency above 80% Screen mesh life above 6 months



HEAVY MEDIUM CYCLONES

Two products HM cyclone with pressured feeding

Maximum size of 1600mm with capacity over 1000t/h
Maximum feeding size of 120mm
Ep≤0.05
Separation efficiency≥95%
High-alumina ceramic lining





Spec.	Diameter (mm)	Feeding Size (mm)	Pressure (MPa)	Capacity (t/h)	Volume Capacity (m³/h)
FZJ 600	600	≤30	0.06-0.12	40-80	250-350
FZJ 660	660	≤30	0.06-0.14	60-100	300-400
FZJ 710	710	≤40	0.08-0.14	80-140	400-600
FZJ 800	800	≤40	0.08-0.14	120-180	600-800
FZJ 850	850	≤50	0.08-0.14	160-240	700-900
FZJ 900	900	≤50	0.10-0.16	220-320	800-1100
FZJ 1000	1000	≤60	0.10-0.16	260-360	1000-1200
FZJ 1100	1100	≤60	0.10-0.16	320-420	1100-1300
FZJ 1150	1150	≤60	0.10-0.16	360-460	1200-1400
FZJ 1200	1200	≤80	0.12-0.18	400-500	1300-1600
FZJ 1300	1300	≤80	0.12-0.18	450-550	1500-1800
FZJ 1400	1400	≤90	0.12-0.18	500-600	1600-2000
FZJ 1450	1450	≤90	0.12-0.18	550-650	1900-2200
FZJ 1500	1500	≤100	0.12-0.18	650-750	2000-2400
FZJ 1600	1600	≤120	0.14-0.20	800-1000	2200-2600

Three products HM cyclone with non-pressured feeding

Maximum size of 1500/1100 with capacity of 500-600t/h Second stage with adjustable vortex finder Maximum feeding size 100mm Ep1≤0.03 , Ep2≤0.05 Separation efficiency 93-98% High-alumina ceramic lining







Spec.	Diameter (mm) 1 st stage	Diameter (mm) 2 [™] stage	Feeding Size (mm)	Pressure (MPa)	Capacity (t/h)	Medium Circulation (m³/h)
WTMC600/400	600	400	≤30	0.06-0.10	40-60	250-350
WTMC710/500	710	500	≤35	0.08-0.12	60-100	350-450
WTMC850/600	850	600	≤45	0.10-0.14	100-160	500-650
WTMC900/650	900	650	≤50	0.12-0.16	120-180	600-800
WTMC1000/710	1000	710	≤55	0.15-0.18	160-220	800-1000
WTMC1100/780	1100	780	≤60	0.18-0.22	200-280	900-1200
WTMC1200/850	1200	850	≤70	0.20-0.28	260-350	1200-1400
WTMC1300/920	1300	920	≤80	0.24-0.30	320-400	1400-1800
WTMC1400/1000	1400	1000	≤90	0.28-0.36	400-500	1800-2200
WTMC1500/1100	1500	1100	≤100	0.32-0.40	500-600	2200-2600

Coal slime HM separator/Coal slime HM cyclone

Ep≤0.08 Separation efficiency>90% Adjustable vortex finder High-alumina ceramic lining





Key parameters of coal slime HM separator

Spec.	Diameter (mm)	Feeding Size (mm)	Pressure (MPa)	Capacity (t/h)	Volume Capacity (m³/h)
TSMC350	350	0-1.2	0.06-0.15	10-30	100-200
TSMC500	500	0-1.5	0.08-0.15	30-50	200-300
TSMC600	600	0-2.0	0.08-0.15	40-80	300-400
TSMC710	710	0-2.0	0.10-0.15	60-100	400-600

Key parameters of coal slime HM cyclone

Spec.	Diameter (mm)	Feeding Size (mm)	Pressure (MPa)	Capacity (t/h)	Volume Capacity (m³/h)
SMC150	150	0-0.5	0.12-0.18	4-10	20-35
SMC200	200	0-0.5	0.18-0.22	10-15	35-55
SMC250	250	0-1.0	0.22-0.24	15-20	55-80
SMC300	300	0-1.0	0.24-0.28	20-30	80-120
SMC350	350	0-1.0	0.26-0.30	30-40	120-160
SMC400	400	0-1.5	0.28-0.32	40-55	160-220

Three products HM cyclone with pressured feeding

Maximum size of 1400/1000 with capacity 450-550t/h
Patented double cone design
Maximum feeding size 100mm
Ep 1≤0.03, Ep2≤0.05
Separation efficiency 93-98%
High-alumina ceramic lining



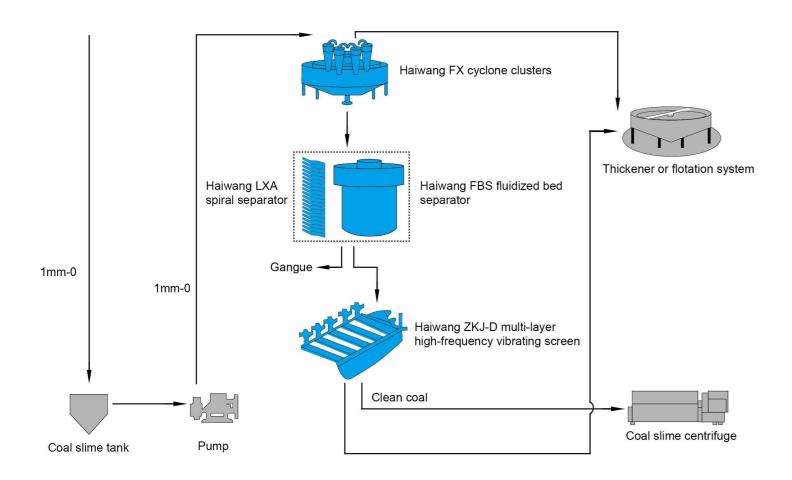






Spec.	Diameter (mm) 1 st stage	Diameter (mm) 2 [™] stage	Feeding Size (mm)	Pressure (MPa)	Capacity (t/h)	Volume Capacity (m³/h)
YTMC710/500	710	500	≤35	0.09-0.14	70-120	400-550
YTMC850/600	850	600	≤45	0.13-0.16	120-180	650-750
YTMC900/650	900	650	≤50	0.15-0.18	140-200	750-950
YTMC1000/710	1000	710	≤55	0.18-0.22	180-240	900-1100
YTMC1100/780	1100	780	≤60	0.20-0.24	220-300	1100-1400
YTMC1200/850	1200	850	≤70	0.22-0.28	300-400	1400-1700
YTMC1300/920	1300	920	≤80	0.26-0.32	350-450	1600-1900
YTMC1400/1000	1400	1000	≤90	0.30-0.40	450-550	1900-2300

COARSE COAL SLIME SEPARATIONPROCESS & EQUIPMENTS



Coal slime classifying cyclone

Maximum size of 1250mm with capacity 1300m³/h Cut size 0.20-0.40mm High-alumina ceramic lining





Spec.	Diameter (mm)	Pressure (MPa)	Capacity (m³/h)	Cut Size (mm)
FX150	150	0.10-0.15	20-35	0.04-0.10
FX250	250	0.10-0.15	60-85	0.04-0.12
FX350	350	0.10-0.15	70-120	0.06-0.16
FX380	380	0.10-0.15	130-180	0.06-0.16
FX450	450	0.10-0.15	150-220	0.10-0.20
FX500	500	0.10-0.15	180-270	0.10-0.20
FX610	610	0.10-0.15	280-380	0.10-0.20
FX660	660	0.10-0.15	340-460	0.15-0.25
FX710	710	0.10-0.15	40-560	0.15-0.25
FX850	850	0.10-0.15	560-850	0.20-0.30
FX1000	1000	0.10-0.15	800-1050	0.20-0.40
FX1250	1250	0.10-0.15	1000-1300	0.20-0.40

Spiral separator

Spirals are often used to separate coal, iron ore, chromite, pyrites,tungsten ore, tin ore, niobium ore as well as other non-ferrous metals, rare metals, and nonmetallic ore with gravity difference, especially suitable for sand ore separation.

Note: LL 1000 is applied in coal separation while the rest are applied in metal ore separation.



Spec.	LXA1000	LXA1200	LXA1500	LXA2000
OD (mm)	1000	1200	1500	200
Pitch diameter ratio	0.45	0.6 / 0.45	0.6 / 0.45	0.6
Starts no.	3	2/3/4	2/3/4	2/3/4
Turn units	4	4 / 5	4	4
Capacity (t/h)	2-3	4-6	8-16	15-40

Fluidizing bed separator

For 1mm-0.25mm coarse coal slime separation Feed particle size dmax/dmin≤4 Separation density 1.1-1.8g/cm³ Ep≤0.12

NO need of heavy medium or chemical,water consumption only 10-20m³/m²·h PLC auto controlled





Spec.	FBS1800	FBS2100	FBS2400	FBS3000	FBS3600	FBS3900
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Dia.(mm)	1800	2100	2400	3000	3600	3900
Capacity(t/h)	20-40	30-50	40-60	60-100	100-140	140-180
Bed density(g/cm³)	1.1-1.8	1.1-1.8	1.1-1.8	1.1-1.8	1.1-1.8	1.1-1.8
Upstream water volume(m³/h)	20-30	30-50	45-70	70-100	120-150	140-180
Upstream water pressure(KPa)	70-100	70-100	70-100	70-100	70-100	70-100

ABRASION - RESISTANT MATERIALS

HW-AC Hard Wearing Alumina Ceramic

Content of Alumina ≤ 95%;

High hardness, high temperature, corrosion, abrasion resistance







Moh's Hardness	Apparent Porosity (%)	Bending Strength (MPa)	Density(g.cm³)	Abration(%)	Al ₂ O ₃ (%)
9	≤ 0.1	≥ 290	≥ 3.65	≤ 0.04	≥ 95

Low Temperature Pre-polymerization and High Temperature Extraction Stepwise Synthesized Hard Wearing Polyurethane

With nearly 30 years' researching experience and combining the features of mining, chemical engineering and other industries, Haiwang researches and develops the worldwide advanced process on stepwise synthesized polyurethane by cooperating with domestic and oversea researching institutes. The process is of low temperature pre-polymerization and high temperature extraction, which can realize the individualized design on product formula. The linear arrangement and reasonable hybrid crosslinking of the main chain in the polyurethane elastomer are adjustable and controllable; and the performance including strength, elongation, elasticity and abrasive resistance and other performance indexes can all meet the international advanced level. This type of polyurethane can be used to manufacture cyclone, screen panel, screen mesh, rubber covered roller, flexible couplings and buffer spring, etc., which are widely applied in mining, chemical engineering and environmental protection industries in domestic and overseas.



Acid And Alkali Resistance	High Temperature Resistance(˚ℂ)	Permanent Deformation (%)	Elongation (%)	Elasticity (%)	Shore Hardness	Tensile Strength (MPa)	Tear Strength (KN/m)
pH1-7 pH7-13	≤ 100	≤ 10	400-1500	25-65	10-98	20-50	30-130





Nano-modified Material

With the international advanced IPN technology, the interpenetrating structure between polyurethane rigid group and rubber flexible macromolecular chain can break the limitation that no coexist between the traditional polyurethane and rubber material, thus to achieve a new type of elastomer with high strength, high elasticity and high flexibility. Active nano protective film can be formed after adding the modified nano functional packing to improve the scrub resistance of material surface and increase the lifespan. The strict forming technology and smooth liner with standard dimensions can reduce the friction energy consumption inside cyclone and improve the classifying efficiency.

Acid And Alkali Resistance	Shore Hardness	Tensile Strength (MPa)	Elongation (%)	Tear Strength (N/mm)	Elasticity (%)	S.G.	DIN Abrasion (Wet Type) (cm³)
Nano Modified Hard Wearing Rubber	65	30	720	55	78	1.2	0.014
Traditional Rubber	60	23	570	90	65	1.15	0.072
Traditional Polyurethane	85	40	470	110	55	1.17	0.075

ABRASION - RESISTANT MATERIALS

Helicon Wet Mixed Hard Wearing Rubber

With nearly 30 years' researching experience and combining the features of mining industry, Haiwang researches and develops the worldwide advanced wet mixed hard wearing rubber by cooperating with domestic and oversea researching institutes. The process mixes the nano additives and rubber micelle rapidly and uniformly, which can improve the dispersibility of additives maximally and guarantee the performance of rubber to meet international advanced level, including the integrality, uniformity of long rubber molecular chain, abrasion, elongation at break and elasticity, etc. The rubber has been widely used in large and extreme-large concentration plants in domestic and overseas.





	Shore Hardness	Tensile Strength (MPa)	Elongation (%)	Tear Strength (N/mm)	Elasticity (%)	S.G.	DIN Abrasion (Wet Type) (cm³)
Wet mixed hard wearing rubber	36	27.5	810	43	82	0.97	0.016
Traditional processed rubber	60	23	570	90	65	1.15	0.072





According to the working condition at sites, different hard wearing material or combination of different hard wearing material can be adopted to improve the using lifespan of equipment.

KM Composite



Applicable temperature: -25~150°C. Alkali, salt and oil resistant. Can be used under conditions of any concentration of hydrochloric acid, concentration of sulfuric acid less than 20% and nitric acid less than 5%.

HW-NM Hard Wearing NM Composite

High temperature vacuum self propagating crystallization; High intensity & hardness, high temperature, abrasion and corrosion resistance.









Temperature	Porosity (%)	Bending Strength (MPa)	Modulus of elasticity (GPa)	Moh's Hardness	Acid and alkali resistance
≤1380	<0.1	250	330	9	Excellent

Australia Roy Hill Iron Ore Pty Ltd. Australia Citic Pacific Mining SINO Iron Project Australia Karara Mining Ltd Australia Rocklands Copper Mine Australia Jiujiang Mining(Australia) Ltd. Australia Precision Screen Pty Ltd. Australia Rizal Resources Corporation

Mexico laboratory project Honduras Iron Mine

Ecuador Mirador Copper Mine (ECUACORRIENTE S.A.) SHOUGANG HIERRO PERÚ S.A.A.(10,000,000t/year) MINERA SHOUXIN PERÚ S.A. Minera Chinalco Perú - Proyecto Toromocho Bolivia Uyuni 350KTPA Potash Plant Bolivia Huanuni Tin Mine Brazil GERDAU ACOMINAS Iron Mine Bolivia Huanuni Tin Mine ANDIMETAL S.A.C. Colombian Coke Company

Saudi Ma'aden Jalamid Phosphate Plant Iran Sangan Iron Mines Iran Golfa Iron Mine Iran Sanabad an Iron ore Co. Iran Jalal Abad Iron Mine Iran Kaolin Mining Project Iran Chimia Phosphate Mine Iran Paya Foolad Iron Mine Iran Gohar Zamin Iron Mine Iran Gohar Ravesh Sirjan Co. Iran Choghart Concentrate Plant Iran TangZagh Iron ore Concentrate Plant Iran Bandar Abbas 2.5MT Pelletizing Plant Iran Ismaloon Iron Ore Concentrate Plant Iran Kaveh Shargh 2.5MTPA Iron Concentrate Plant Iran Mobarakeh Sangan 5MTPA Concentrate Plant Iran Gole Gohar Iron Mine Line 5, 6, 7 Iran Iron Ore Concentrate Plant in REZVAN Mine Zarand Iranian Steel Company (ZISCO Phase II) Project Sirjan Iranian Steel Company (SISCO Phase II) Project

Russia Metalloinvest Lebedinsky GOK Russia UGC Russia Mangazeya Group Russia Petropavlovsk – Iron Ore LLC Russia SUEK JSC Russia UK Kuzbassrazrezugol OAO Russia PJSC KTK Russia JSC HC SDS Russia Mechel PAO Russia CC Kolmar LLC Russia PJSC MMC Norilsk Nickel Mongolia Erdenet Mining Corporation (EMC) Mongolia Oyu Tolgoi Ilc Mongolia Dragon Mining chajul changte Aobao iron ore Mongolia HSMG CO, LTM

Mongolia China Railway Resources Group Xinxin Co., Ltd

Kyrgyzstan Kaz Minerals PLC (Bozymchak Gold Mine)

Uzbekistan Dekhkanabad Potash Fertilizer Plant

Mongolia Darkhan Metallurgical Plant (DMP) Mongolian Mining Corporation (MMC)

Kyrgyzstan Dzhamgyr Gold Mine

Tajikistan Dushanbe Power Plant Tajikistan Pakrut Gold Mine

Russia NLMK Group JSC Stoilensky GOK

Sudan Iron Project Algeria ore beneficiation project Sierra Leone Marampa Iron Mine Mali Sand Gold Project Albania Chrome Ore Project Eritrea Zara gold mine

Zambia Copper Project Zambia Ferrous manganese ore Project Zambia Chambishi Copper Mine Southeast Orebody Project Zambia Chambishi Copper Mine Zambia Luanshya Muliyashi Copper Mine

Congo Shituru Copper Mine Cobalt hydroxide Production Line Thailand CHINCHANA INDUSTRIES (THAILAND) CO., LTD.

Congo LA COMPAGNIE MINIERE DE KAMBOVE SAS Congo SICOMINES Copper Mining phase 2 Congo SICOMINES Copper Mining phase 1 Congo Copper Cobalt Wet Type Metallurgy project Congo Copper Cobalt Mining Project

Congo LA COMPAGNIE MINIERE DE KAMBOVE SAS Phase II

Congo MK Iron Project Congo Dizwa copper-cobalt project Congo Panda Tailings Recycle Project Congo Lualaba Copper Mine Congo DR Mabende Copper Mine

Congo DR Copper Mine - Huachin Metal Leach S.P.R.L Congo DR MYUNGA—KALUMBWE Copper Mine

Congo MIKAS company Kambove Tailing Recovery Plant

Congo CDM Copper Mining Project Republic of Congo SOREMI SA Co.,Ltd Tunisia CPG Phosphate Concentration Plant South Africa Wurumi Iron Mine South Africa Greenside Colliery of Anglo Thermal Coal

Burma wa Gold ore dressing plant project Philippines Pasar copper mine

India Usha Martin Ltd India 70 Micron Pvt.Ltd India RASHMI Group India M/s Eurobond Industries Pvt Ltd India Euro Pratik Ispat Pvt.Ltd India MSP Group

Thailand Fluorite Project

Malaysia PSSB Iron Mine 1 Malaysia KAOLIN (MALAYSIA) Project Malaysia AK Hematite Project Malaysia Xinher Hematite Project

Indonesia China-Indonesia wet process project Indonesia Dairi Prima Mineral Indonesia OBI Nickel & Cobalt Project Indonesia VARA Sand Washing Plant Indonesia PT.ANUGERAH Indonesia Dongtai Potash Project 1

Laos Kaolin Clay Project Vietnam Sin Quyen Copper Mine Pakistan Duddar Zinc-lead Mine North Korea Iron Project

REFERENCE PROJECTS-OVERSEAS



















PEFERENCE PROJECTS-DOMESTIC FERROUS &

NON-FERROUS METALS MINE

Anshan Iron and Steel Group Corporation
Baotou Iron & Steel (Group) Co., Ltd.
Shougang Mining Coporation
Jiangxi Copper Corporation
Aluminum Corporation of China
China National Gold Group Corporation
Zijin Mining Group Co., Ltd.
China Nonferrous Metal Mining (Group) Co., Ltd.
Shenhua Group Corporation Limited
Qinghai Salt Lake Industry Co., Ltd.





CUSTOMER SERVICES

Localized Service

Worldwide offices and agents provide localized sales and technical service.

Professional Technical Service

Professional technical team provide optimum solutions and early stage laboratory tests.

Perfect After Sales Service

Assembly,commissioning,training services by professional engineer.

Prompt Delivery

Good production capacity and spare parts stock realize fast delivery.







