



Knowledge Creates Wealth
Technology Leads Future



Series Products New Tooth Form
Sizing Crusher
COAL · POWER · METALLURGY · CHEMICAL · SOLID WASTE DISPOSAL



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超大处理能力分级破碎机 SUPER SIZING CRUSHER



ABB SKF FLENDER FAG LINCOLN VOITH TURBO

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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.

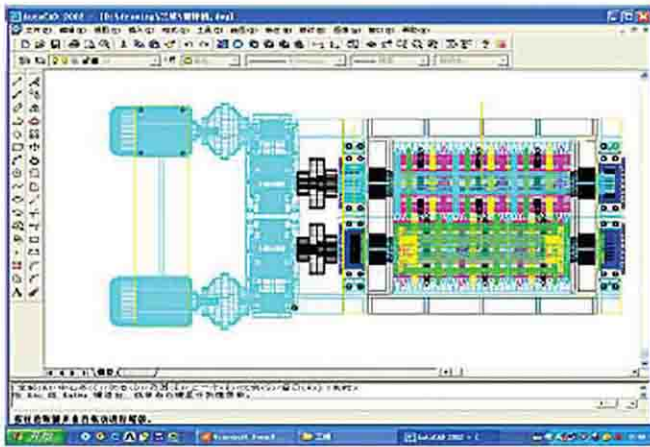
Reputation of Credit by Hebei Provincial Administrative Bureau for Industry and Commerce. It is also the Enterprise to Re-

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.



□ Technical Innovation & Service

As the National Scientific Research Institution, CCRI have the missions of developing independently, facing the global technology market and leading technical progress at home. The experts and engineering staff of SCRC keep aiming at the front edge of world technology and study with great concentration on related basic theory such as functional consume hypothesis of crushing ratio and Griffith Crack Developing etc, as well as paying attention to the original technical innovation. SCRC owns many advanced developing methods. e.g. special experimental system and real-time Dynamic Simulation analysis system etc.

Main Research Scope

- ▶ Coal sizing crushing, crushing of ultra large coal, Middling and waste, crushing and screening of sticky coal ;
- ▶ Crushing of Coke coal, oven coal, silicate, glass, clay and limestone ;
- ▶ Crushing of Steam coal and slag ;
- ▶ Crushing of non-metal ores such as bauxite, ceramics and plaster ;
- ▶ Crushing and sizing of Municipal garbage and industrial solid waste ;
- ▶ Crushing of sinter ore and ore in middling hardness or lower.

Recommendation

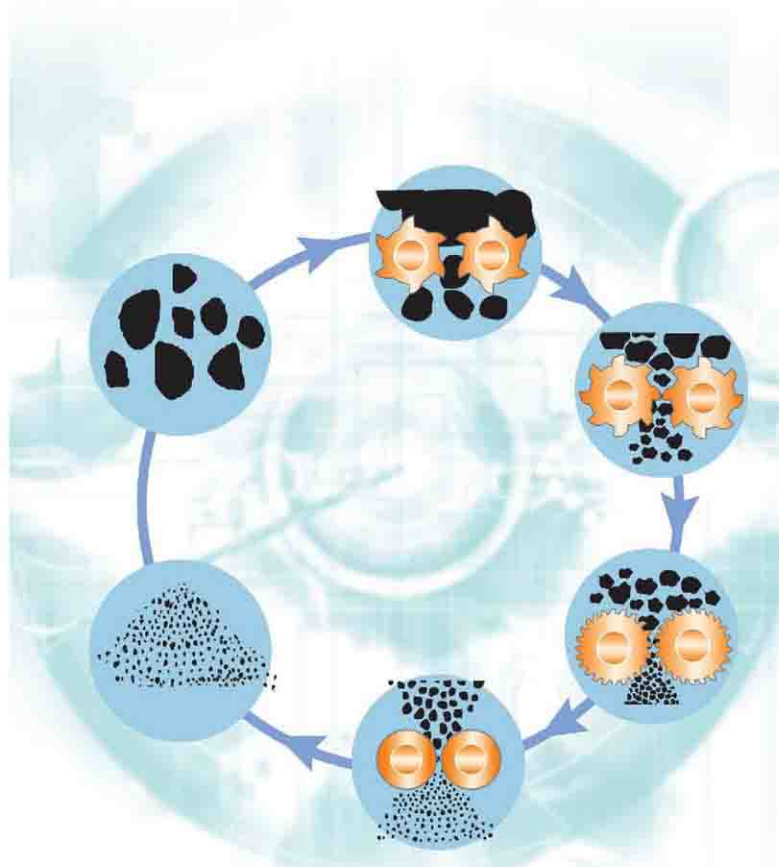
To achieve ideal function, the advanced technology and product must be chosen rationally in consideration of the field situation ,for there are many different processes such as jigging, compressive HM cyclone, Dense Medium cyclone and Dense Medium vessel and different characteristic of coal, for example ,coal hardness, percentage of waste, waste hardness and particle distribution etc. Moreover, our products include many different types and hundreds of specs, thus, there will not exist limitation when recommend to user, After comprehensively considering many facts such as size, over crushing and working life of crusher tooth , SCRC will recommend or design the suitable products from aspects of technology and price to users, and the recommendation is based on the practical applications experience of hundreds of equipments spreading all over the country, as well as comprehensive acquaint of global related crushing equipments.

Design for the user needs

- ▶ Designing & making for the user in accordance with actual circumstances such as special need on crushing or space environment at jobsite, and limitation on the structure of workshop;
- ▶ Designing Chute to benefit to reduce over crushing, improve availability factor of equipment and reduce abrasion;
- ▶ Including screening & crushing system design, overall contracting of project and so on.

Technical service & supply of imported spare parts

Capital repair of large volume at jobsite

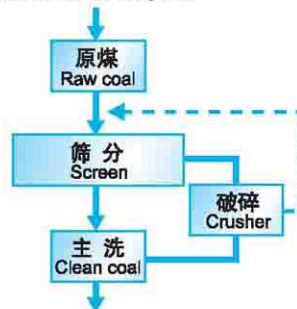


□ Sizing crusher

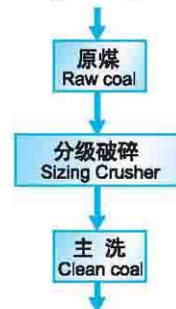
Overall characteristic

- 1 Correctly control product particle size**
Adopting the fix width between centers of tooth rollers to force material crushing, special designing for the crushing tooth shape and structure size of tooth roller in accordance with different dissociation characteristic of material, feed size and crusher product size, as well as optimizing the passing geometrical size of product.
- 2 Over crushing, wear of tooth roller and energy consuming is very low**
According to the optimum design of crushing tooth shape and tooth layout, so as to make the material which size is bigger than requirement will be crushed and material which meet the size need will directly pass through. The tooth roller is adopted low rotate speed and big torque moments to shear break the material. On the premise of meeting the break performance need to enlarge the through space of material, can make the contact probability between crusher tooth and material down to the lowest, all of above will greatly reduce the crushing energy consumption and wear of tooth, Meantime, making the over crushing of product reduce to the lowest, generally, the common tooth roller crusher will reduce 20~40%.
- 3 Screening & Crushing Double Efficacy**
For correctly controlling product size and with lower over crushing, so there are double efficacy of screening and crushing, Meantime, the crushing intensity of sizing crusher can reach to 200Mpa (generally the hardness of reject is range from 20 to 100 Mpa), In a certain condition, it can fulfill screening and crushing independently without match with screening and hand picking equipments, as well as simplify the system and save the equipments, civil investment and expenses of manual work and spares parts. To a certain degree, one set of our equipments can replace the whole raw coal prepare workshop of a traditional flow.
- 4 Simple structure, lower height of complete machine, small operation vibration.**
Double tooth rolls drive by two electro motors with good interchangeability. It reduces the height of workshop for lower height of complete machines, so that it will benefit for processing setup. The crushing tooth rolls is applied low rotate speed and without exciting source, in addition, adopted high strength integer bearing block ensure the small vibration when equipment running and without need other special civil base.
- 5 Adjustable width between centers**
Initially applying patent technology fulfills stiffness adjustable in the precondition of guaranteeing the product size.

Traditional crushing flow



Sizing crushing flow



6 Adopting the new material ensure the high intensity and high wearing feature of crushing tooth.

The crushing tooth is adopted many methods such as crushing tooth, crushing toothed set and crushing toothed plate. In addition, have the characteristic of high anti-abrasion, long lifespan, and easy access to repair after abrasion and low maintenance costs. For its high serviceability, avoiding the crushing toothed plate losing easily.

7 Large processing capacity, less noises level and small quantity of dust

Adopting the pass through method thesis, thus, the crusher has the characteristic of large processing capacity, low running noises, small quantity of dust; for the application of complete closed-circuit crushing make the working environment better.

8 Reliable and advanced intelligent measure & control system

2PLF/SSC(X) series intelligent measure & control system is a kind of high performance and microcomputer of intelligent measuring and controlling system, in accordance with the performance characteristic of sizer crusher, aiming to further improve the performance of this series crusher and on the safe side. According to the need at jobsite, it can select match with pressure relief system, Meantime, matching with PLC can fulfill the performance of auto back running after the crusher choked, the equipment will auto alarm, closing the feed system and protecting machine and whole system. In addition, according to the need of at site, it also can fulfill the performances of digitized control and display of the complete machine parameter of product.

9 Avoiding non-choking of sticky material

Adopting special self cleaning set-up, the sizer crusher has high adjustability to sticky material.

10 Intelligent lubrication system

Adopting intelligent lubrication system, multipoint lubricating in each set of shaft bear, and the quantity and time of oil feed can self-set to ensure the shaft bear safe and reliable, reduce maintenance and improve reliability of complete machines.

11 Standardized parts and components

The main standardized parts and components which are manufactured by international or domestic well-known suppliers ensure the satisfying performance and mechanical property.

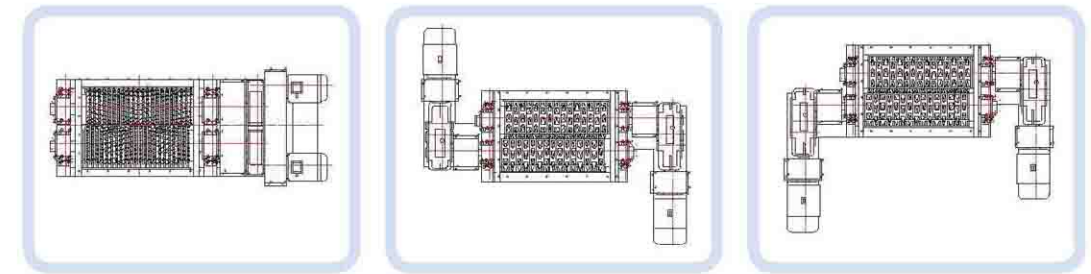
Application Scope

It is mainly used to crush the middling or lower hardness material, e.g. coal, coke, bauxite ore, plaster, sinter ore, and solid waste etc, find successful and widespread applications in coal, chemical engineering, power, metallurgy, non-metal ores and environmental protection industries etc.

SSC ...

SSC Series Super Sizing Crusher

Based on advanced experience of sizing & crushing equipment in the world, combining with the situation of our country, SCRC develop this new generation sizing crusher independently after the 2PLF series new tooth form sizing crusher is widespread applied. According to practice use, the complete performance of our equipment not only can reach international advanced level, but also has special technical in aspects of size control and adjust and structure of complete machine, thus, it can replace the imported equipment. Moreover, Compared with abroad equipment on the same performance, has the advantages of low complete machine price, low spare parts price, satisfy service and short supply periodic time.



Technology characteristic

- Many kinds of tooth form and tooth part include tooth set, tooth plate, tooth cover or hard-metal alloy tooth etc;
- Adopting high strength and high abrasive material on the crushing tooth part, for common coal it can be weld buildup or changed at jobsit and the working life at a time will not lower than 6000 hour;
- The main standardized parts and components such as electric machine, reducer, junction box and shaft bearing are manufactured by international well-known suppliers, further ensure the reliability of complete machine;
- Large processing capacity, small outside space and lower altitude of complete machines;
- Product size adjustable;
- Stable operation, small vibration and less noises level;
- Matching with mechanical safety device, PLC intelligent measure and control system and intelligent lubrication system ;
- Also can select matching auxiliary device such as self-travel mechanism and feed distributor etc.

SSC Series super sizing crusher

Long model

Technical parameter

- Processing capacity: 800~5000t/h
Totally satisfy designed capacity
300 to 3000 ten thou sand tons per year can be applied by large scale coal preparation plant
- Feed size: <300~1000mm
- Crusher product size : <50~300mm
- Crushing intensity: <200Mpa
- Crushing ratio: 2~6

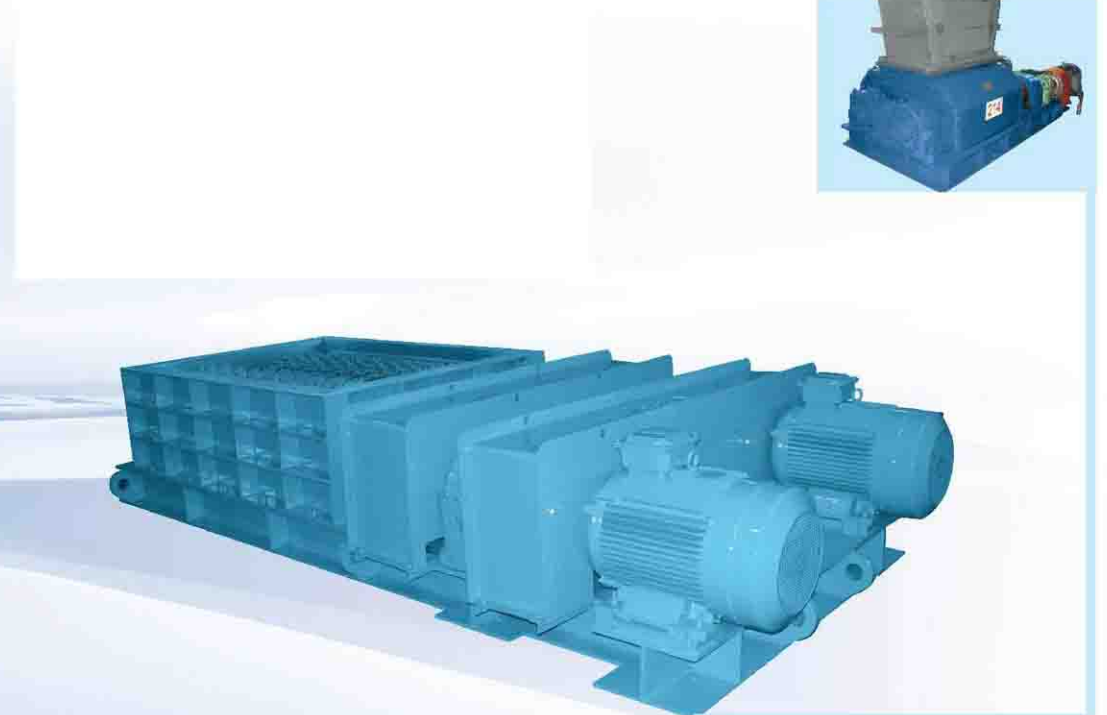


SSC Series super sizing crusher

standard model

Technical parameter

- Processing capacity: 500~800t/h
Totally satisfy designed capacity
200 to 300 ten thou sand tons per year can be applied by large scale coal preparation plant
- Feed size: <300~1000mm
- Crusher product size : <50~300mm
- Crushing intensity: <200Mpa
- Crushing ratio: 2~6

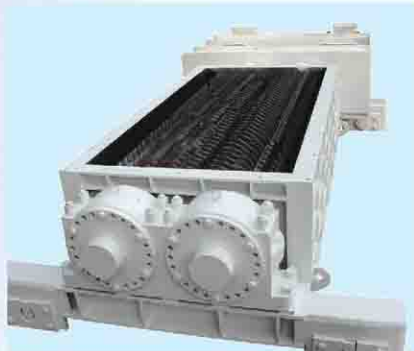
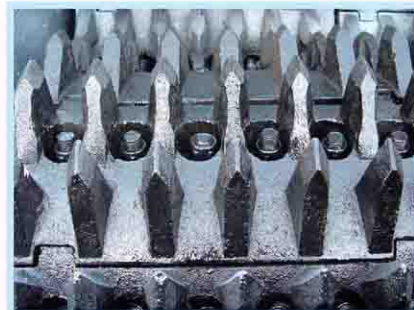


SSC Series super sizing crusher

Short model

Technical parameter

- Processing capacity: 150 ~ 500t/h
Totally satisfy designed capacity
90 to 300 ten thou sand tons per
year can be applied by large scale
coal preparation plant
- Feed size: <300 ~ 1000mm
- Crusher product size : <50 ~ 300mm
- Crushing intensity: <200Mpa
- Crushing ratio: 2 ~ 6



2PLF series new tooth form sizing crusher

2PLF series new tooth form sizing crusher is the earliest equipment of SCRC, now it has been widespread applied and often recommended to middle or small processing capacity sizing crushing. The crushing tooth roller is designed in accordance with sizing crushing principle, and the driving motion is adopted double electric motors to drive belt sheave, besides has the sizing and crushing process effect and other characteristic as follows:

Technical Characteristic

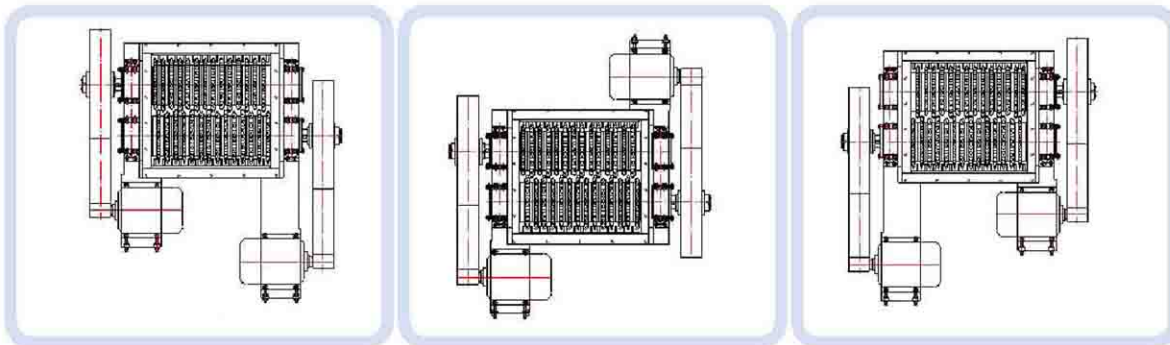
- Simple structure and utility, Stable operation and high adaptability;
- Two electric motors though belt to directly drive the tooth roller separately, few failure spot and less maintenance;
- Stable operation and noises is lower than 75db when no-load operation;
- Shear-pin and intelligent measure & control two stage overload protective device ;
- Easy access to adjust the product size;
- Design as module easy to exchange the components of two sets of crushing tooth roller totally;
- Belt pulley wheel can reserve energy ensure the low installed power and economic price of complete machine.



Technical parameter

- Crushing intensity: $\leq 120\text{Mpa}$
- Feed size: upper limit 1500mm
- Product size: lower limit >3mm
- Processing capacity: 10~500t/h
Totally satisfy designed capacity 30 to 200 ten thousand tons per year

Arrangement mode



2PLFX/SSCX series fine particle sizing crusher

2PLFX/SSCX series Fine Particle Sizing crusher is fit for many industries, and mainly be used in power industry and crushing industries, which material such as non metal ores of coal, slag and bauxite should be crushed to below 6 to 25 mm during secondary preparation. Equipment finds successful and widespread applications in coal, power, non metal ores etc.

As a new type and mature high effect clean combustion technology, circulating fluidized-bed combustion (CFBC) technology has special advantages compared with other combustion methods. However, the coal size should meet a certain size requirement, otherwise it will influence combustion adjust and coal combustion of circulating fluidized-bed boiler, as well as make the boiler operating unstable and reduce the coal combustion efficiency. The coal size generally is range from 0 to 13 mm, and an average size is range from 2 to 3 mm. At present, the common crushing equipments to be matched for CFBC boiler is hammer crusher, however, there are many obviously disadvantages, for example, mesh easy to be choked by sticky material, high cost of maintaining spare parts, large amount of dust and big noise level etc. From practice use has proved that 2PLFX/SSCX series Fine Particle Sizing Crusher is the ideal equipment for coal-fired crushing work of CFBC depending on its special technical characteristic.

Technical Characteristic

- Utilizing the Sizing crushing and simple process flow;
- Mesh will not be choked by sticky material and tooth roller has the performance of self- clean up;
- Large processing capacity, less outside occupation, lower height of complete machine, stable operation, Small vibration and less noises level;
- Utilizing strong intensity and high abrasive resistant material to integrated cast the crushing part ensure long lifespan and low spare parts cost;
- Easy access to adjust the product size and ensure the size uniform and conform;
- Equip with mechanical protective device, PLC intelligent measure & control system and intelligent lubrication system;
- Besides, can select matching with auxiliary devices such as self-travel mechanism and feed distributor;
- Utilizing integer tooth roller, tooth sets, tooth plate or welding buildup tooth etc.

Technical parameter

- Processing capacity: 10~400t/h
- Feed size: <50~100mm
- Crusher product size: <6~25mm
- Crushing intensity: <160Mpa



DSSC New Type of Four Toothed Roll Sizing Crusher

DSSC Series Tooth Roll Crusher is the latest equipment, which could fulfill two stages crushing and break the size range from 50 to 300 mm feed material to the range from 3 to 13mm at a time. In addition, it make full use of the characteristic of low height of complete machine, to combine two crushers together and achieve drive separately, as well as could use two motors to drive four rollers at the same time. The height of complete machine together with the repair space is less than 3 meter; moreover, there is a slide rail at the bottom of crusher, easy to be repaired.

Technical Characteristic

- Maximum crushing ratio: 1:24;
- Fulfill two stages crushing at a time, so saving the workshop strata and reducing the cost of equipment and capital;
- Sufficiently consider the practice use and easy to transmission, so there has repair space between two crushing chamber make repair easy and avoid the complex structure and difficult to be repaired of traditional four roller crusher.

Technical parameter

- Processing capacity: 10~400t/h
- Feed size: <50~300mm
- Crusher product size: <3~13mm
- Crushing intensity: <160Mpa



NPCL new vertical shaft hammer crusher

NPCL new vertical shaft hammer crusher is fit for raw coal and ores, which hardness is similar to raw coal, it utilize ring hammers around the high speed rotor to make hammer force on material until meeting the required size during suffer rolling, racking and shearing works among hammer and crushing plate, as well as sieve deck, in order to achieve high efficiency crushing.

Technical Characteristic

- Big crushing ratio, the maximum one is 1:15;
- Few of investment at initial stage;
- Mesh hard to be choked by sticky material;
- Good wear resistance, and for utilizing bainite abrasion resistant steel, making the working life be prolonged 2 to 3 times compared with common hammer crusher.

Model	Capacity (t/h)	Feed size (mm)	Product size (mm)	Power (kW)	Weight (Exclude electro motor)
NPCL750-3	12-15	≤50	≤3	30	2.34
NPCL750-4	15-30	≤50	≤3	45	4.5
NPCL1000-3	20-25	≤60	≤3	55	4.7
NPCL1250-3	35-40	≤70	≤3	75	6.63
NPCL1500-3	50-55	≤100	≤8	110	9.9
NPCL1500-4	60-75	≤80	≤7	132	11.1

SGC series Tooth Roll Sizing Screen

SGC series sizing screen is a new type of sizing equipment, mainly used to grade material and fit for different coal plant, power plant, metallurgy, mine as well as other industries, which need to screen and size the sticky material or oversize material. This type of equipment is applied combinational structure and has follow characteristic:

Technical Characteristic

- Utilizing spiral shaft as material directly pass through structure and has the advantages of firm structure, anti-abrasive, unblocked for sticky material and high screening efficiency etc;
- Utilizing tooth form for screening surface, so thoroughly solve the problems that the axis is wedged by triangle sieve tray, blockage and miss big size coal;
- Using two electric motors to drive in order to avoid too many drive links and too mush maintenance of traditional roller screen;
- Big feed size (≤300mm), strong impact resistance, big intensity of screen surface, long lifespan;
- High impel speed of material and large capacity of unit area;
- Stable operation, non live load, low noises level and fit for reforming of old workshop
- For the tangent speed formed by spiral shaft is on the contrary ensure the material will not be broken.

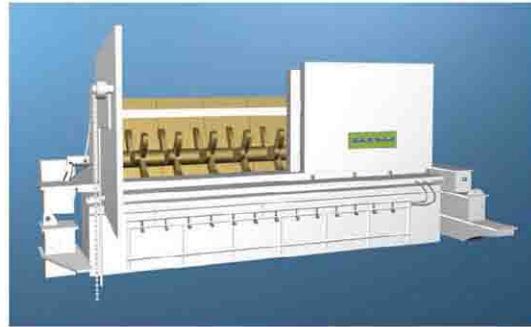
Technical Parameter

Parameter	Capacity	Sieve area	Sieve dimension	Width of sieve	Number of sieve axis (n)	Power	Weight	Overall dimension
Model	(t/h)	(m ²)	(mm)	(mm)		(kW)	(t)	(mm)
SGC12305	160-200	3.7	50	1200	12	2×7.5	18	5100×2400×1500
SGC12365	210-260	4.37	50	1200	14	2×11	19.5	5700×2400×1600
SGC15425	310-360	6.22	50	1480	16	2×11	21	6300×2700×1800
SGC15535	390-450	7.87	50	1480	20	2×15	22.5	6800×3000×1900
SGC15422	240-300	6.22	25	1480	16	2×11	21	6300×2700×1800
SGC15532	310-390	7.87	25	1480	20	2×15	23	6800×3000×1800
SGC15421	180-240	6.22	13	1480	16	2×11	21	6300×2700×1800
SGC15531	230-310	7.87	13	1480	20	2×15	23.5	6800×3000×1900



Slag crusher

This type of equipment is mainly used to pulverize the slag of boiler deslagging system in thermal power plant, which has the characteristic of reasonable design, compact structure, strong crushing, and good leaf proofness, as well as stable and reliable performance. Moreover, utilizing the new type abrasion resistant steel a tooth plate ensure good wear resistance and shock resistance.



Sinter Crusher

Technical Characteristic

- Crushing process stable and in succession, large capacity;
- Simple structure and utility, less trouble;
- The wear-resistant parts are applied new type of heat resisting and wear resisting wheel ensure long lifespan;
- Model design make easy to change;
- Less over-crushing and less content of fine material;
- Matching with mechanical and intelligent measure & control system ensure equipment secure.

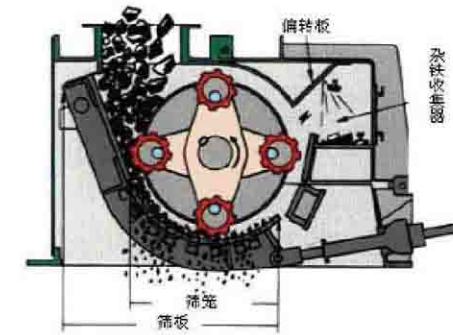
Application Scope

Thermal Sinter Crusher

- Capacity can reach to 1100t/h
- Feed size: in accordance with roasting machine of sintering strand
- Particle Size after processing: <200mm
- Driving power: can reach to 160Kw

cold sinter crusher

- Capacity can reach to 400t/h
- Feed size: <300mm
- Particle Size after processing: <50mm
- Driving power: can reach to 2×160kW



PCHA New Ring Hammer Crusher

Technical Characteristic

- Utilizing tooth hammer head for increasing the shear force and reducing crushing power consumption;
- Using the new type wear resistant steel as hammer head, make the working life be prolonged 2 to 3 times compared with traditional hammer crusher;
- The hammer head along the direction of axis spiral distribution, keeping even load and more stable operation, as well as prolong the working life.

PCHA Series New Type Ring Hammer Crusher is a kind of impact crusher carried with ring hammers, when material enter the crushing chamber, firstly ,it will suffer an impact effect from high speed ring hammer and break up, at the same time, the broken material acquire kinetic energy and rush at the crushing plate at a high speed, suffering the secondary crushing and falling on the sieve deck, then

subjected to shearing and pressing of ring hammer and mutual milling of materials again ,as a result further crushed and discharged from the aperture of sieve plate, but those sundries which can not be crushed will enter the collector and discharged at a regular intervals. This type of crusher is fit for the fragile material which crushing compression strength is lower than 150Mpa and the surface moisture is lower than 15 percent, often being widely used for middling crushing coal or fine crushing such as coal, refuse, coke coal, limestone, rock phosphate, pyrite ore and limonite ore in the industries of coal, electric power, manufacture of building material, metallurgy and chemical engineering etc.

Technical Parameter

Model (rotor diameter × length)	Feed size (mm)	Product size (mm)	Yield (t/h)	Speed of main shaft (r/min)	electromotor		Overall diameter (length×width×height) (mm)	Weight (t)
					Model	Power (kW)		
PCHA0402	≤200	≤30	8-12	960	Y132M2-6	5.5	810×890×560	0.8
PCHA0404	≤200	≤30	16-25	970	Y160L-6	11	980×890×570	1.05
PCHA0604	≤200	≤30	22-33	970	Y180L-6	15	1050×1270×800	1.43
PCHA0606	≤200	≤30	30-60	980	Y225M-6	30	1350×1270×1080	1.77
PCHA0808	≤200	≤30	70-105	740	Y280M-8	45	1750×1620×1080	3.6
PCHA1010	≤300	≤30	160-200	740	Y315M2-8	90	2100×2000×1340	6.1
PCHA1016	≤300	≤30	300-350	740	JS-128-8	155	2700×2000×1350	9.2
PCHA1216	≤350	≤30	620-800	740	Y450-8	355	4965×2500×1600	15.0

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



Double-face boring lathe



N/C bender



Assembly workshop



600 ton compaction machine



5-m vertical lathe



Intelligent Measuring & Controlling and Centralized Lubrication

Intelligent measure and control device (simple type)

2PLF(X)/SSC(X) series intelligent measure & control device, a kind of simple and high performance microcomputer intelligent test control equipment, which is developed in accordance with the performance characteristic of sizing crusher, aiming to further improve the performance and safe reliability. For its advanced technique, reliable performance, reasonable structure, as well as easy to install and operate, thus, it is fit for bad environment at jobsite. Main function is real time monitoring the rotate speed of tooth roller, and alarm when equipment overload then transmit the command signal to close crusher and feed system.

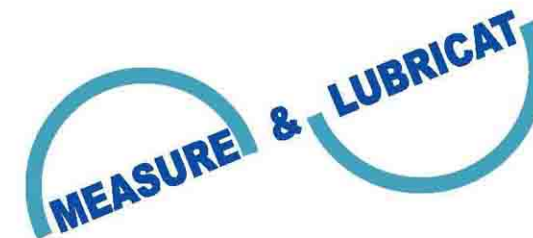
Intelligent Test System (Multifunctional)

Intelligent measure & control system of 2PLF(X)/SSC(X) series sizing crusher is a multifunctional intelligent control system and special designed for sizing crusher, this system combine the intelligent control of two sets of three-phase machine with guard circuit get together, many kinds of control and multi protection are as follows:

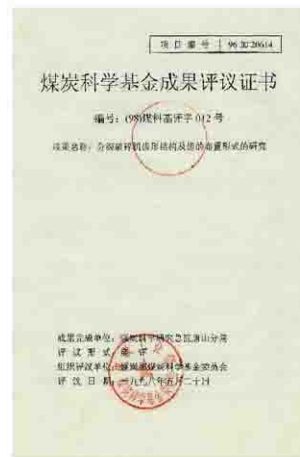
- Various methods of positive or negative rotation start-up include directly or star-triangle reduces voltage and auto-transformer reduces voltage;
- Auto positive and negative rotation under PLC auto-control;
- Data display of rotate speed, pre-warning when overload and alarming & choking of crusher;
- Electric motor open-phase, overload, alarming and blocking when short circuit;
- Several of control models include manual control, automatic control, local control and remote control etc, and preinstall centralized control interface;
- Failure indication and protection include pre alarming, alarming and locking etc;
- Real-time intelligent control of centralized lubrication system.

Centralized Lubrication System

Centralized Lubrication System is mainly fit for large capacity sizing crusher, in favor of prolong working life of shaft bearing and improve the reliability and automaticity, as well as reducing maintenance cost etc.



Quality Guarantee



Map of Sales Network



Hundreds of equipment made by the Tangshan Branch, CCRI have found successful and widespread applications in coal, power, non-metal ore and metallurgical industries, and the users can be found in many provinces, municipalities, autonomous regions and decades of mining administrations across China and in overseas countries, including Shenhua, Beijing, Kailuan, Jincheng, Lvliang, Jingle, Qingxu, Tiefa, Yangquan, Xinjiang, Zixing, Huainan, Huaibei, Guizhou, Jiangsu, Harbin, Hegang, Heibaoshan, Yunnan, Sichuan, Jiangxi, Shandong, Shanxi, Hebi, Taiyuan, Wuhai, Baogang, Handan, Zhangjiakou, Qinguangdao port, India and Indonesia etc.