

ROLLER SCREEN

Product Brochure





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ROLLER SCREEN PROFILE

The roller screen is a screen surface composed of many rollers arranged in parallel and staggered with screen sheet on it. The rollers are driven by sprockets or toothed rollers to rotate, and the direction of rotation is the same as the direction of material flow.

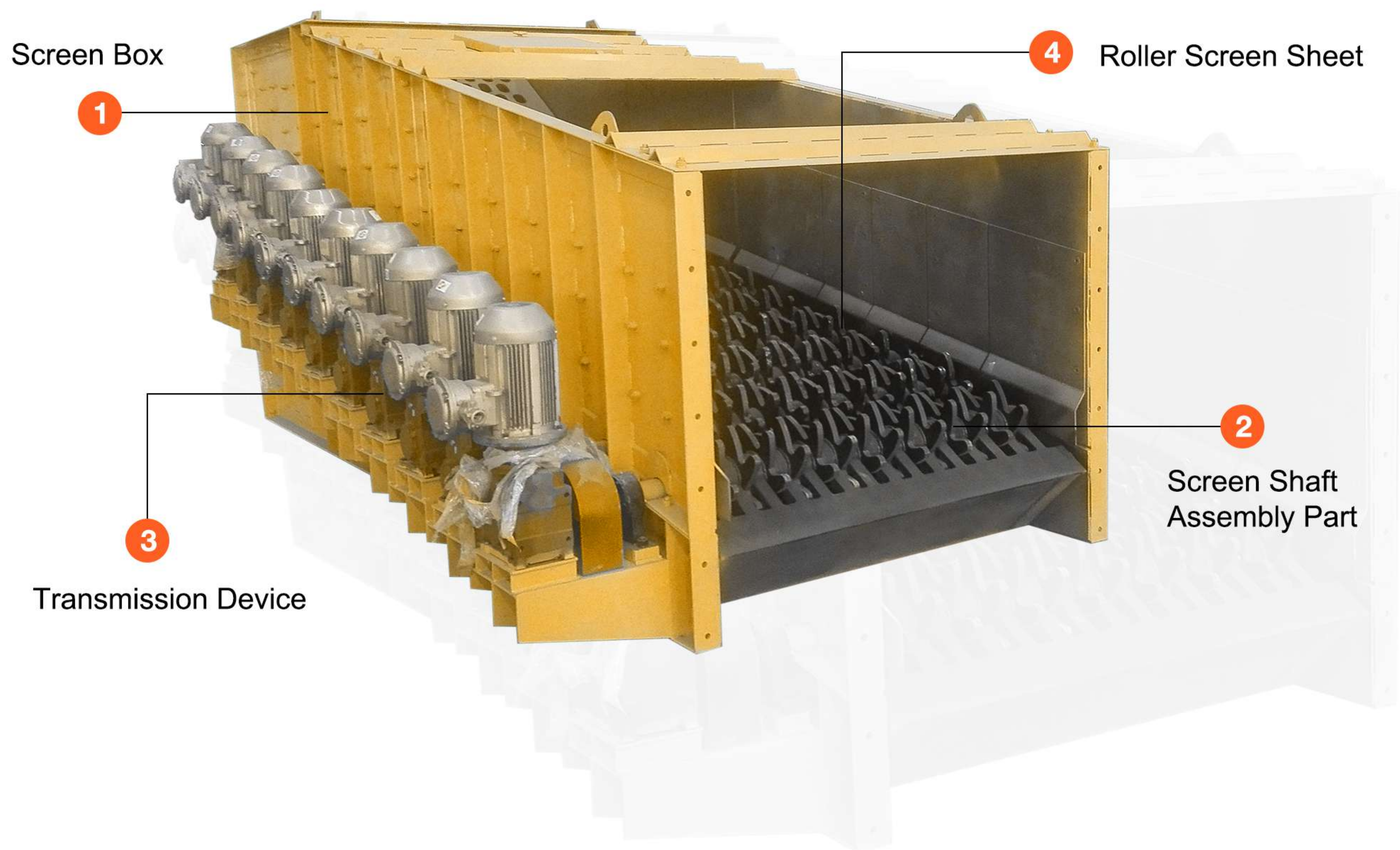
Since the screen shafts are arranged according to different working angles, the speed of the material is faster when the working angle is higher; the speed is gentler when the material is running at a lower working angle. The materials running at two different speeds start to move axially when they meet at a certain position on the screen surface, so that the materials are evenly distributed on the screen surface, and the purpose of improving the screening efficiency is achieved. Roller screens are widely used in coal, mining, metallurgy, building materials, sand aggregate and other industries.

PRODUCT FEATURE

- The machine can run continuously, and can perform functions such as conveying, separation, and screening under different industrial and mining conditions, and can realize multiple functions in one machine.
- Under the premise of satisfying the self-distribution of the power of a single roller, the power concentration can be realized, and the shutdown failure caused by the excessive load of a single roller can be overcome.
- The whole machine adopts electric and mechanical double protection, with interlock protection function, which can realize manual control and automatic control.
- The screen sheet is specially designed and cast with wear-resistant alloy steel to meet various harsh working conditions and has a long life cycle.
- Modular design, the number of rollers can be increased arbitrarily on the basis of modularization to meet different capacity requirements.
- The whole machine adopts a fully enclosed design to meet the growing environmental protection requirements.



PRODUCT DETAILS



Screen Box

The main body is welded with Q355D low-alloy high-strength structural steel, and all screen shaft assemblies are fixed to the body by connecting bolts. The body side is equipped with wear-resistant lining plate, the thickness of which is not less than 25mm, and the material above ZGMn18Cr2 standard is selected. Avoid direct contact between the material and the box, greatly improving the service life of the equipment; And the wear-resistant liner and the box are connected by bolts, easy to replace.



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Screen Shaft Assembly Part



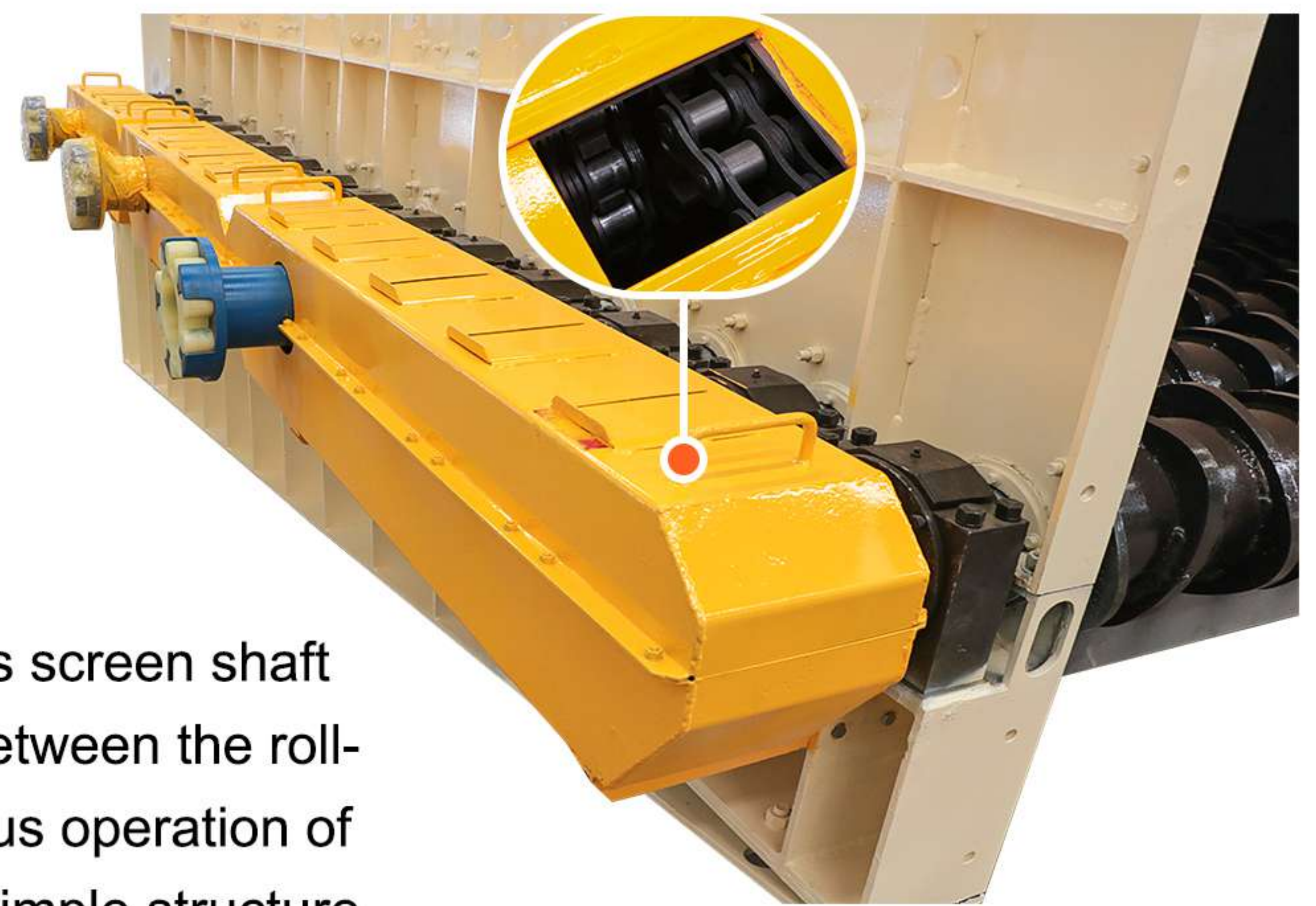
The screen shaft assembly is composed of a drive unit motor + reducer, screen shaft, screen sheet, flat key, locking nut, coupling, bearing seat and bearing seat accessories, and the drive motor is connected with the reducer and the screen shaft through the coupling. Screen shaft selected forgings 42CrMo, using CAE force analysis, reasonable design, safety, effectively avoid tooth roll bending, fracture and other phenomena. The screen shaft seal is sealed with a special rubber bowl to ensure that dust does not spill. When

any group of screen shafts fails, the stone can be pushed by the previous screen shaft over the fault screen shaft to continue to move forward, and the screening can run as usual. The screen shaft bearing seat is installed on the outside of the screen side plate for easy disassembly.

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Transmission Device

The roller screen is mainly divided into two forms of single-shaft single-motor independent transmission and multi-shaft chain transmission. The advantage of single shaft single motor drive is that when a single screen shaft fails, the material can use the inertia of the inclined plane to move forward over the fault screen shaft under the push of the previous screen shaft and the roller screen can still run. The multi-axis chain drive between the rollers adopts the metric chain to achieve the effect of synchronous operation of the same group of rollers. The design has the advantages of simple structure, convenient assembly and disassembly, and low maintenance cost.



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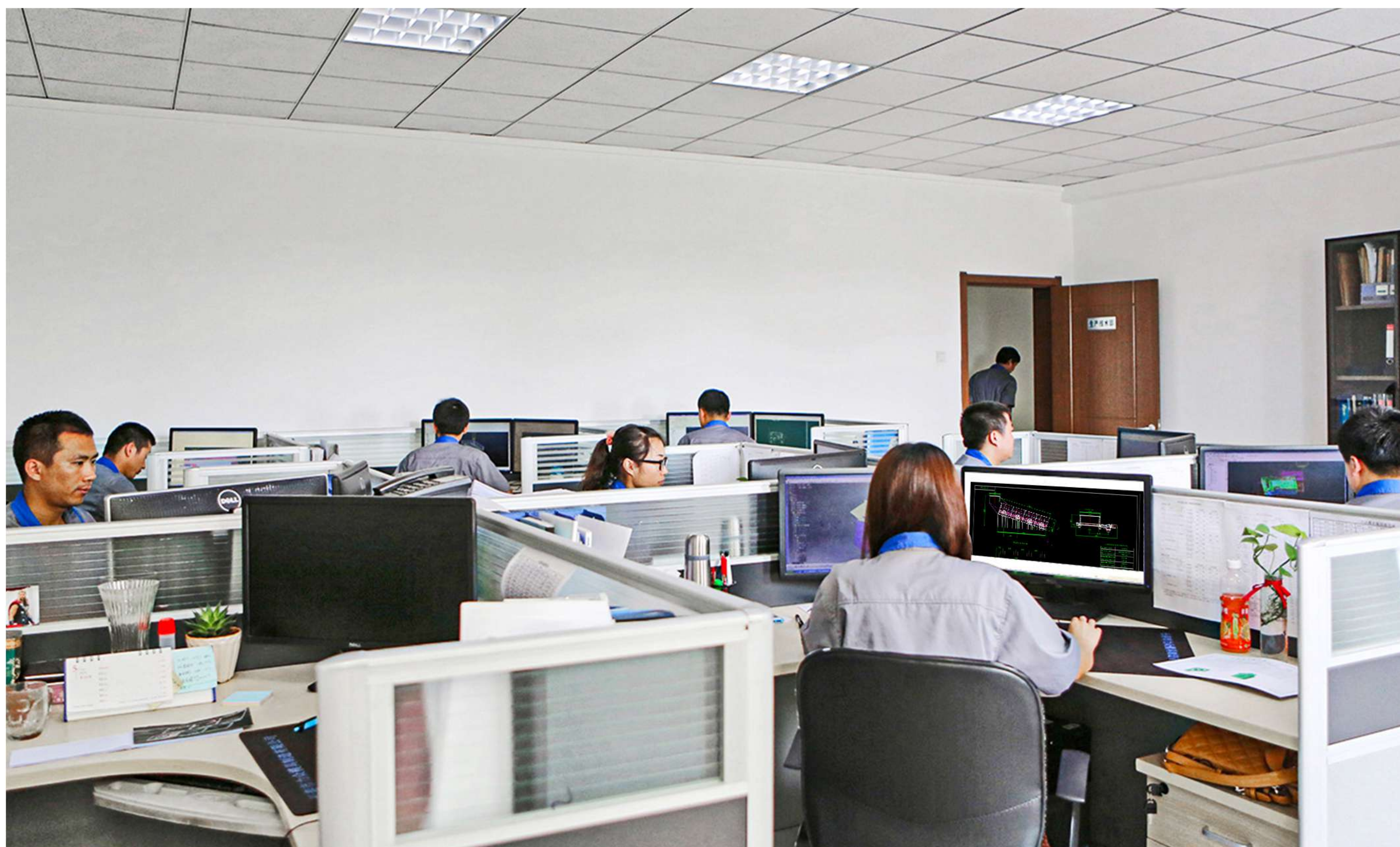
Roller Screen Sheet

The roller screen sheet is cast with wear-resistant manganese chromium alloy steel, which can cope with the impact and wear of < 800mm materials, without any deformation and fracture phenomenon. Screen surface hardness HRC55, with good wear resistance, screen shaft service life is not less than 30,000 hours, screen life is not less than 12,000 hours. According to different users' material characteristics, stone flow rate and other parameters, the parabolic roller screen sheet type is designed and rounded to eliminate sharp corners, so that the rotation resistance of the roller blade disc is minimized.



WHAT CAN YOU GET AS A CUSTOMER OF OUR EXCT?

We are committed to providing screening solutions integrating design, selection, production, sales, installation, training, and after-sales service.



01

We have a professional engineer team to provide you with a full range of solutions, so far, there have been 2000+ engineering cases at home and abroad.

02

We have a sales team with professional technical knowledge and high business literacy, which can efficiently guarantee our sales process and save your precious time and cost.



03

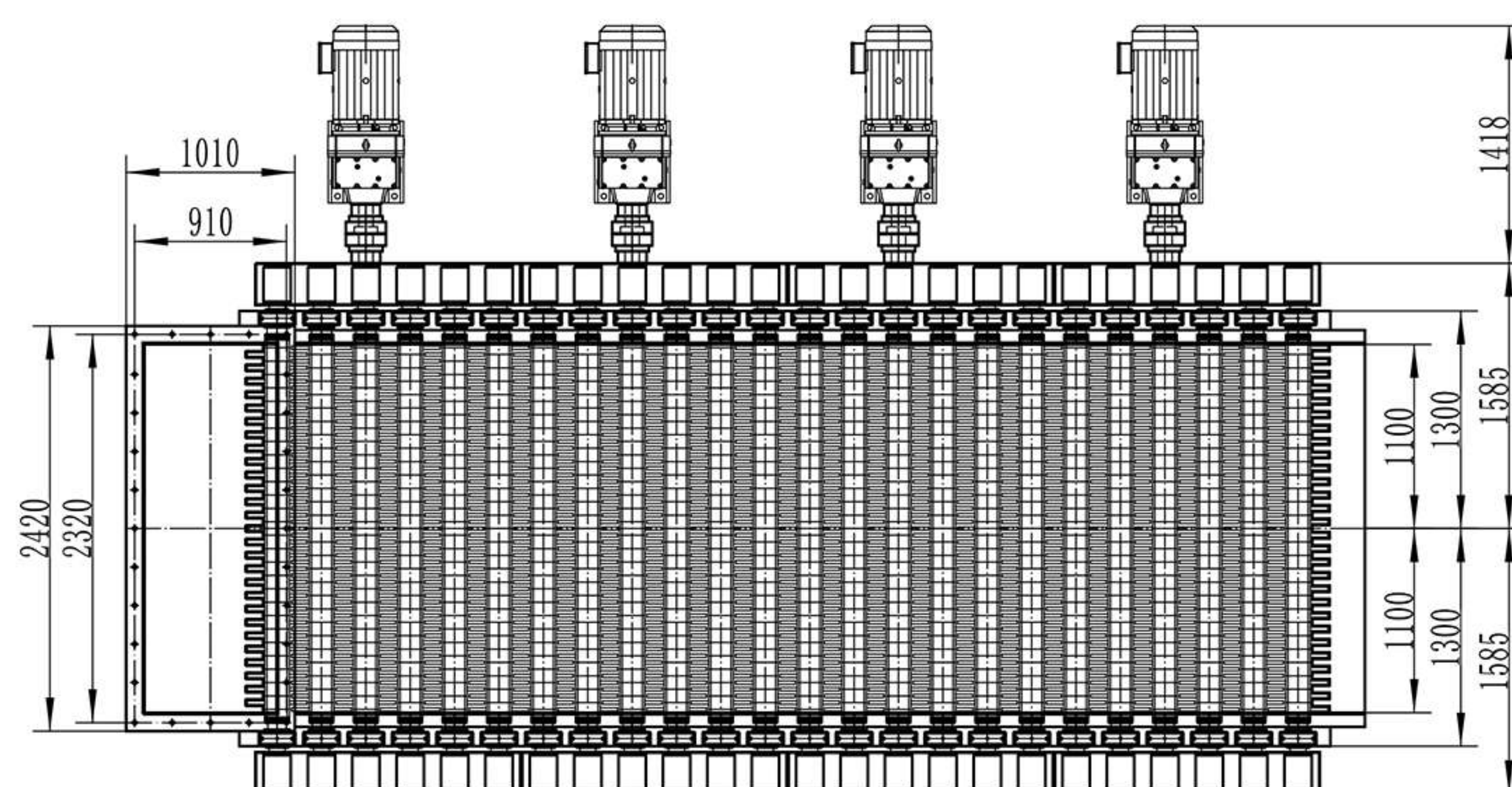
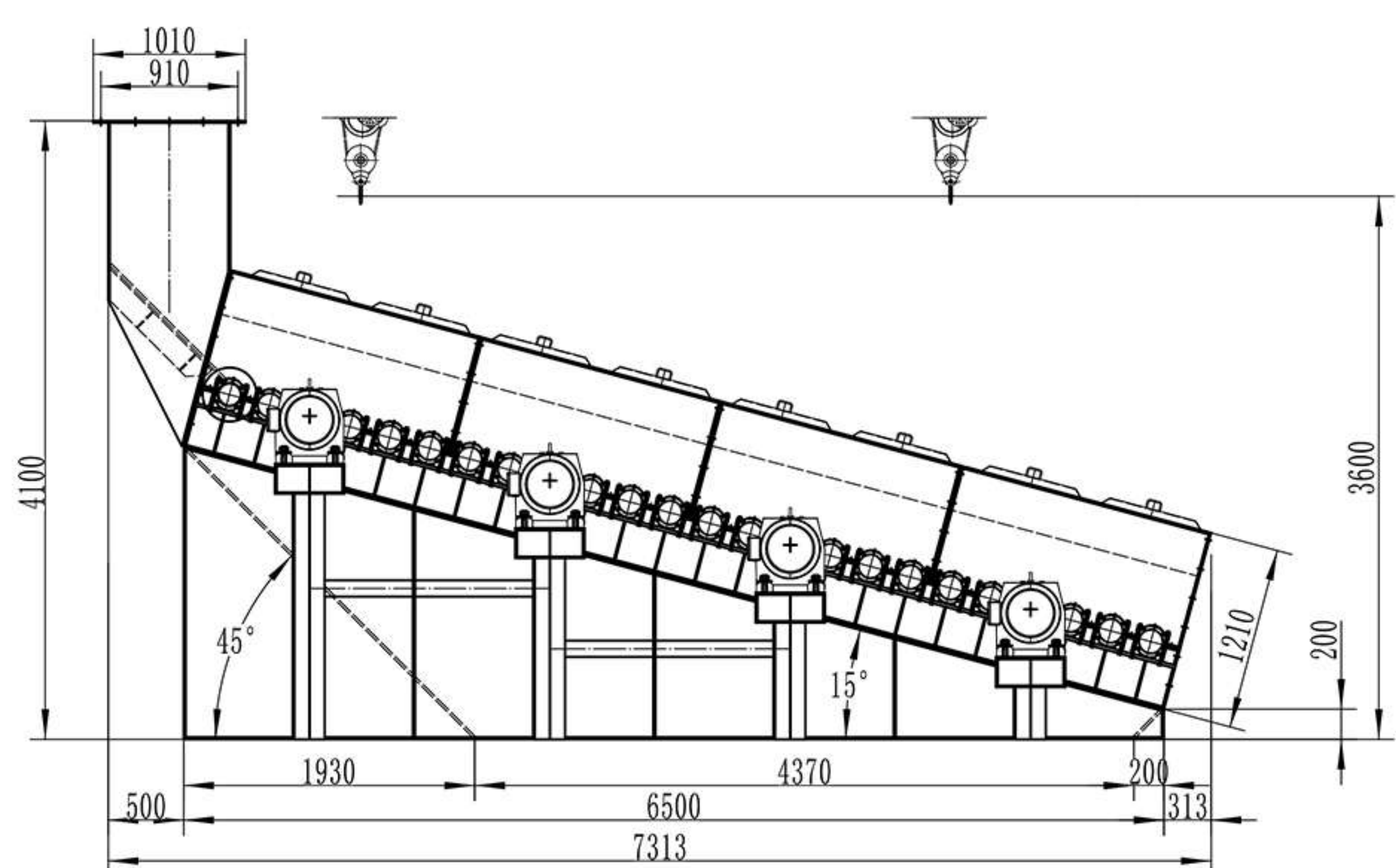
We have a professional technical engineering team to escort your equipment, providing 7*24 hours of all-round after-sales service, professional guidance for installation and commissioning, pre-job training, troubleshooting, repair, and maintenance services. Using remote monitoring program, 24-hour uninterrupted monitoring, remote diagnosis and guidance can be done.

04

In order to serve each customer well, our company has a spare parts warehouse with millions of dollars in spare parts inventory, and can deliver the urgently needed spare parts to customers within 2 hours.



TECHNICAL SPECIFICATION



Model	Screen Width (mm)	Controlled Axis/Base	Graded Particle Size (mm)	Drive Power (km)	Handling Capacity (t/h)
GZS1208	1200	8	10-100	15	150-300
GZS1412	1 400	12	10-100	2x15	200-500
GZS1618	1600	18	10-100	3x18.5	400-800
GZS1824	1 800	24	10-100	4x22	600- 1000
GZ S2024	2000	24	10-100	4x30	800-1200
GZ S2430	2400	30	10-100	5x37	1000-1800

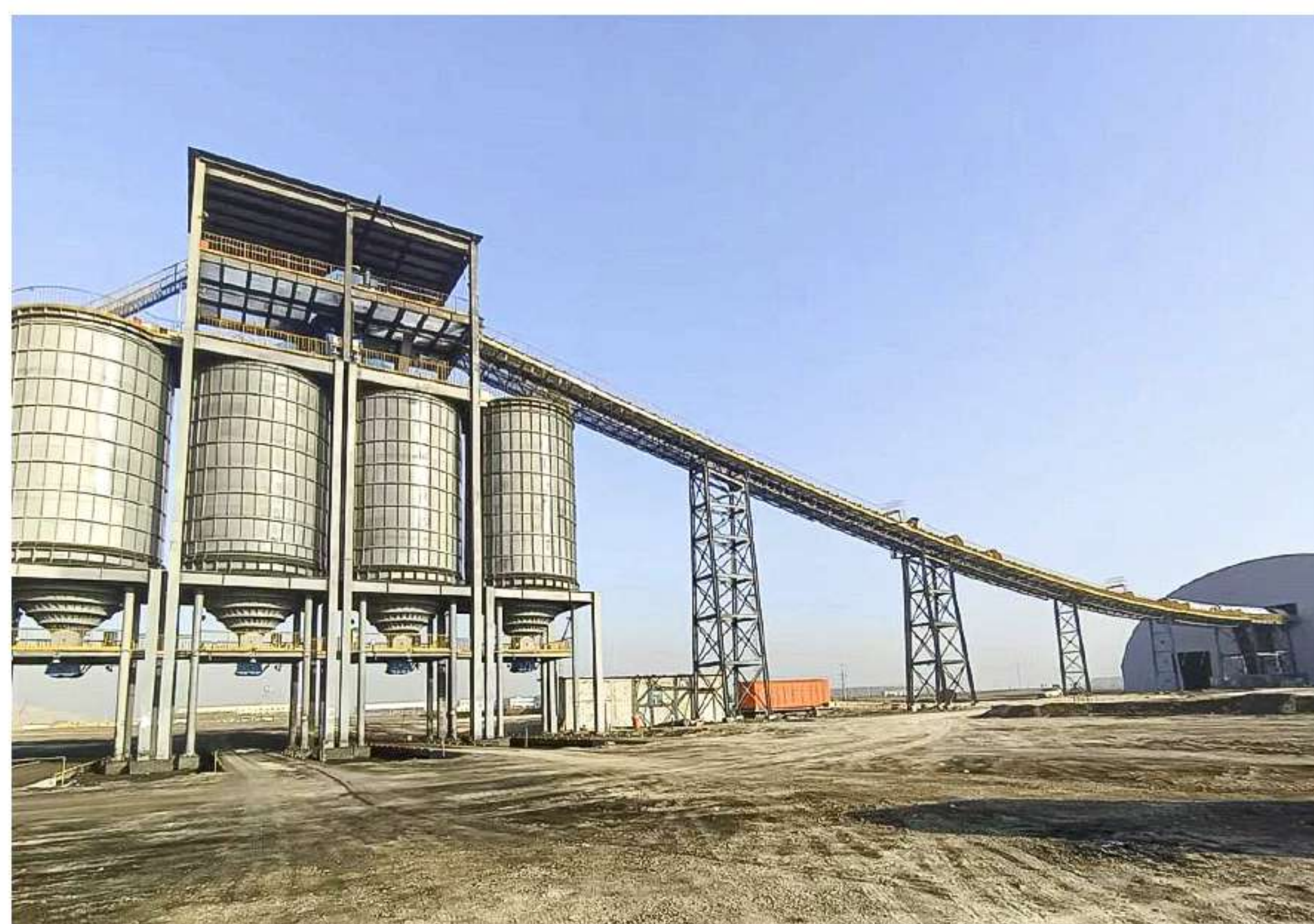
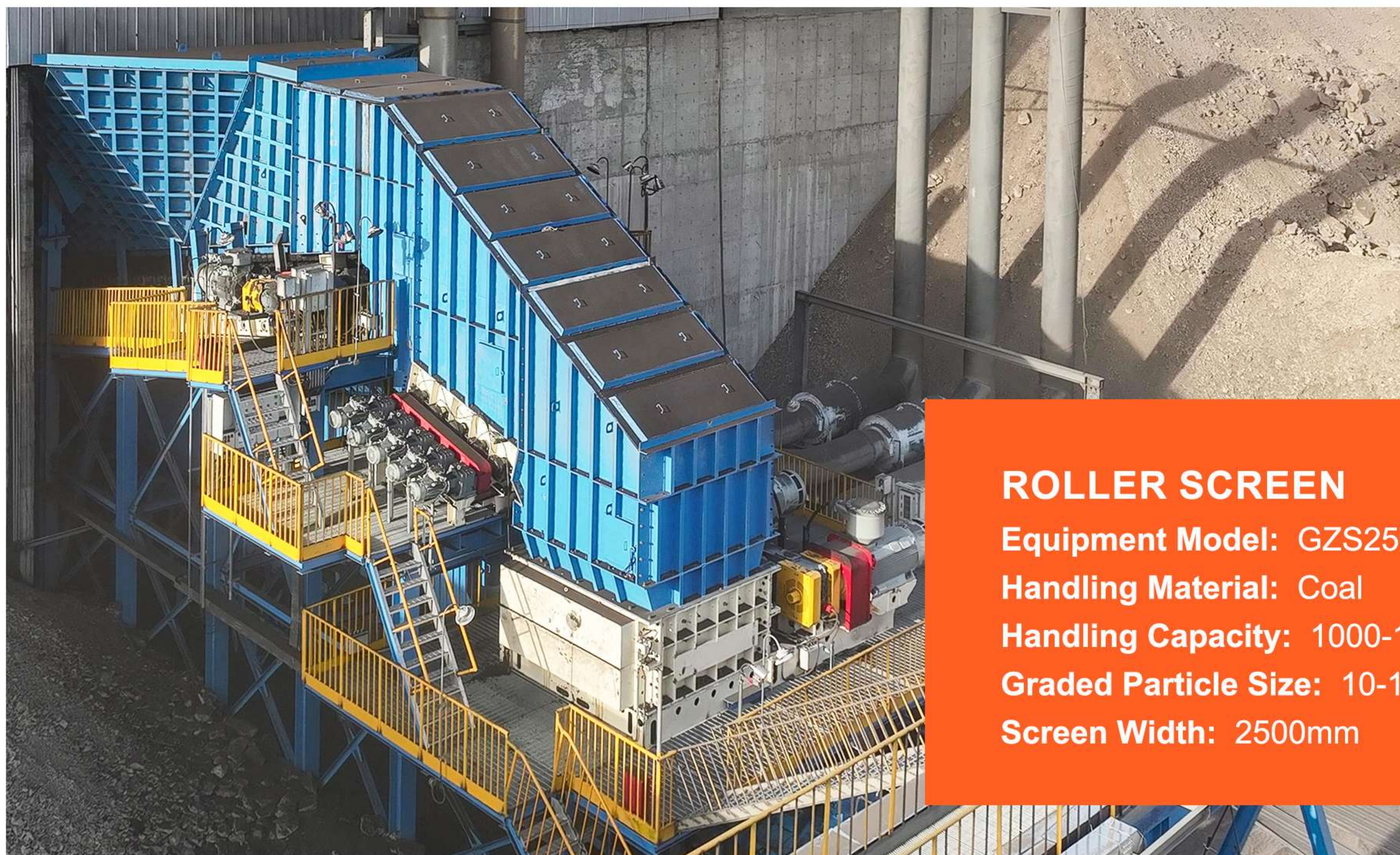
* The number of rolls can be customized according to customer requirements.



SUCCESS PROJECT

With its outstanding advantages, roller screen is widely used in the screening of solid materials in coal, electric power, metallurgy, cement, sand aggregate, solid waste and other industries.

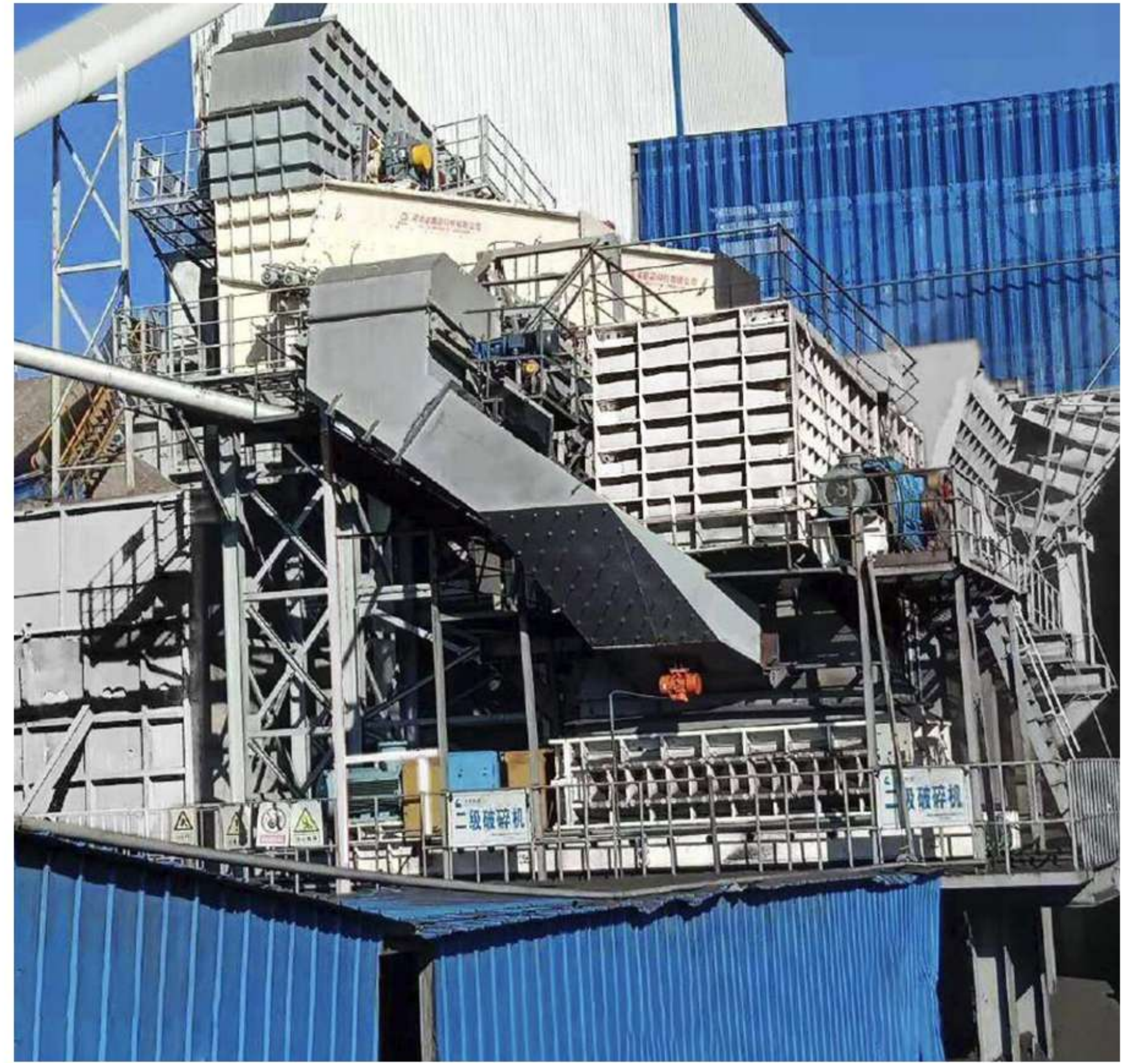
- Xinjiang Mingyang Mining Construction Group Co., LTD.



ROLLER SCREEN

Equipment Model: GZS-2610 Handling Material: Coal

Handling Capacity: 1000-1800t/h Graded Particle Size: 10-100mm Screen Width: 2610mm

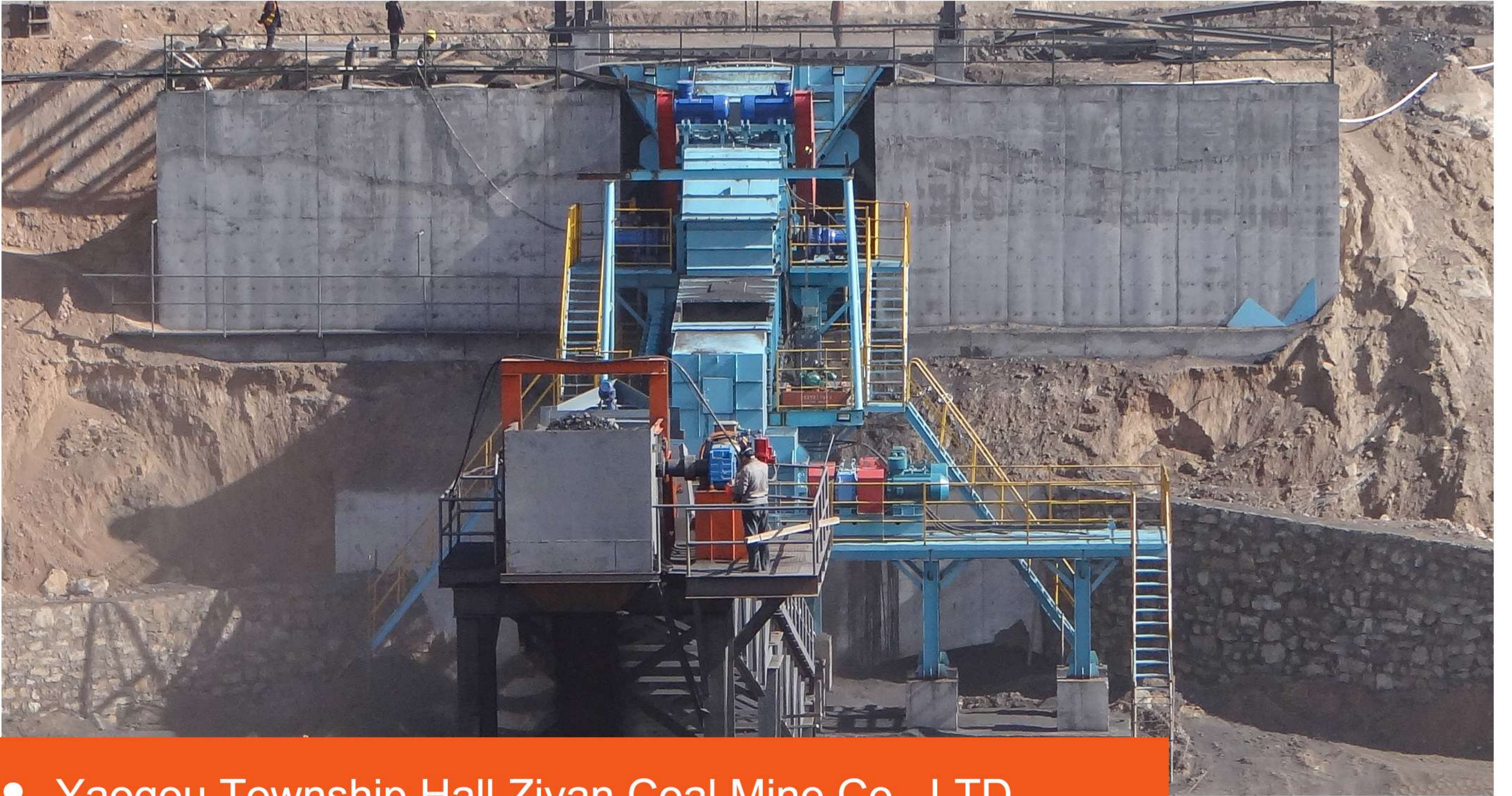


• Xinjiang Mahatma Energy Co., LTD.





ROLLER SCREEN
Equipment Model: GZS-1412
Handling Material: Coal
Handling Capacity: 200-500t/h
Graded Particle Size: 10-100mm
Screen Width: 1400mm



- Yaogou Township Hall Ziyang Coal Mine Co., LTD.



ROLLER SCREEN

Equipment Model: GZS-1610

Handling Material: Coal

Handling Capacity: 400-800t/h

Graded Particle Size: 10-100mm

Screen Width: 1600mm



Committed To Be Leader In Bulk Material Handling

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