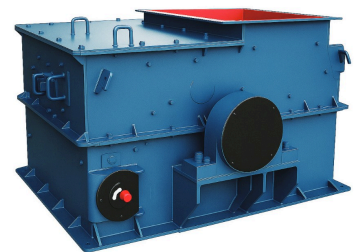
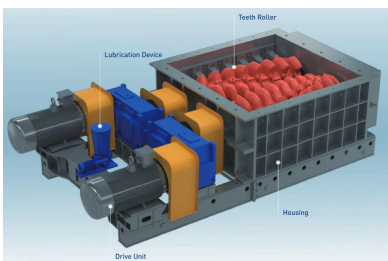




MINING EQUIPMENT CATALOGUE

CRUSHING · SCREENING · FEEDING · MATERIAL HANDLING

Your trusted hydraulic and industrial supply partner



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COMPANY PROFILE

HYDRAULIC SQUAD (PTY) LTD



Hydraulic Squad (Pty) Ltd supplies hydraulic and industrial solutions to customers in mining, construction, agriculture, earthmoving and general industrial applications. Our focus is practical support, reliable sourcing and responsive service to reduce downtime for our customers.

WHAT WE SUPPLY

We source and supply hydraulic pumps, motors, valves, cylinders, hoses, fittings, power units, spare parts and selected industrial equipment. We also assist with hard-to-find components, aftermarket alternatives and technical product support.

OUR PURPOSE

To be a trusted partner that helps customers keep equipment moving through dependable service, honest communication and fit-for-purpose industrial solutions.

CUSTOMER FOCUS

We support customers with quick response, product identification, quotation support, component sourcing and coordination with trusted suppliers.

INDUSTRIAL MARKETS

This catalogue supports operations in mining, material handling, screening, crushing, feeding, construction, manufacturing and heavy-duty industrial environments.

TECHNICAL APPROACH

We combine hydraulic experience with product sourcing and supplier coordination to help customers find suitable solutions for their applications.

RELIABLE SOURCING

We source products through trusted supply channels and give clear communication on availability, lead times and technical suitability.

APPLICATION SUPPORT

Our team assists with product selection, replacement options and practical support for hydraulic and industrial requirements.

CUSTOMER PARTNERSHIP

We build long-term relationships through service, accountability and consistent follow-up from enquiry to delivery.

FEEDER BREAKER

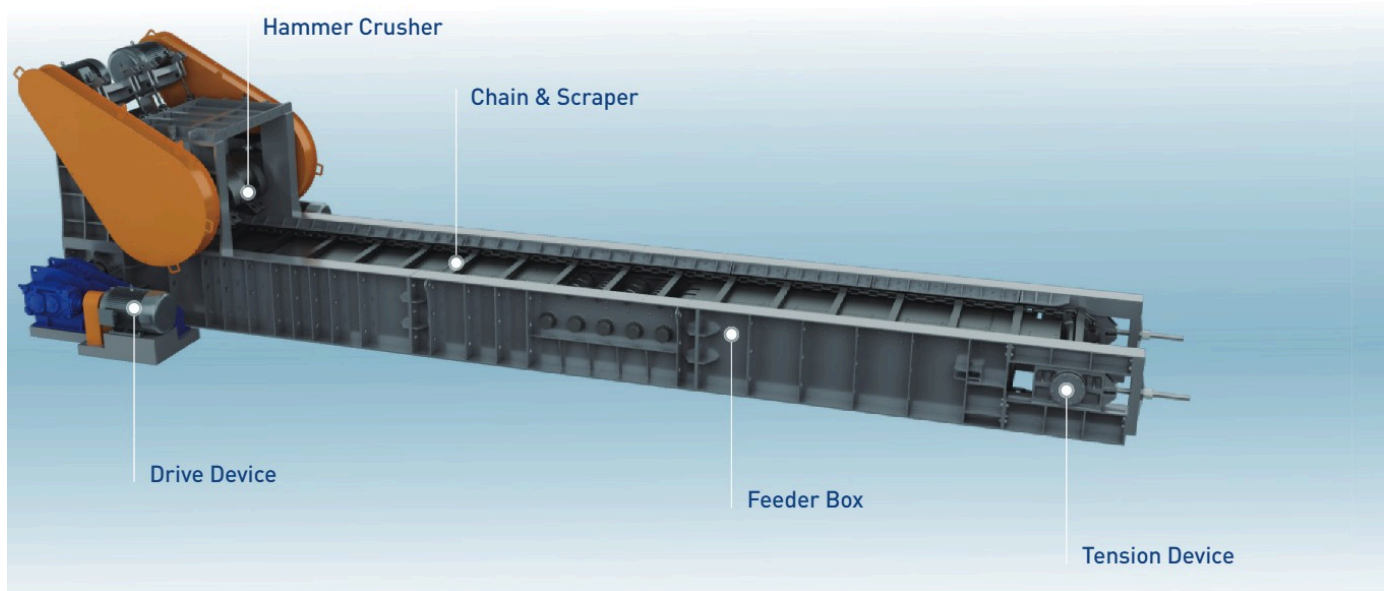
STRUCTURE & APPLICATIONS

The Feeder Breaker is continuous roller crushing equipment that combines feeding, crushing and screening. It links the mining system to the material handling system, using a chain feeder and horizontal crushing rollers to continuously feed and crush mined material.

It consists of a chain/apron feeder and a crushing unit. Material is unloaded straight into the hopper by dump trucks, or pushed in by bulldozers or loaders. When the feeder drive starts, the drive sprocket moves the chain horizontally through the conveying box, dragging the material forward with it.

As the chain carries the material under the rotating toothed roller in the crushing box, large lumps cannot pass through the gap between the roller and the base plate. They are knocked, squeezed and stretched by the rotating toothed roller until they break into pieces small enough to pass through.

In general, the feeder breaker crushes large material (800–2000 mm) down to medium sizes (200–400 mm).



TECHNICAL SPECIFICATIONS

FEEDER BREAKER



Model	Capacity (t/h)	Average Input Size H×W×L (mm)	Inlet Port Size H×W (mm)	Output Size (mm)
TP1200	500–1000	800×950×∞	1790×1350	0–200
TP1400	1000–1500	1000×1400×∞	1790×1550	0–300
TP1600	1500–2500	1200×1600×∞	1790×1750	0–300
TP1800	2500–3500	1200×1800×∞	1790×1950	0–300
TP2000	3500–4500	1400×2000×∞	1790×2150	0–350
TP2400	4500–6000	1600×2400×∞	1790×2600	0–400

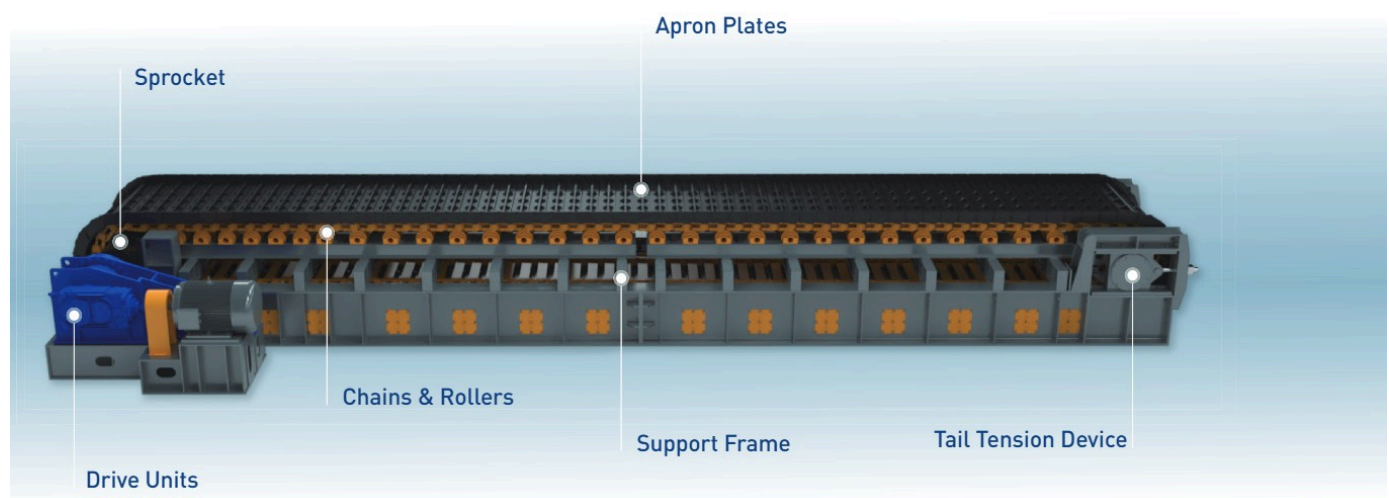
APRON FEEDER

STRUCTURE & APPLICATIONS

Apron Feeders are a reliable way to feed a wide variety of applications. They suit heavy loads and high-impact loads from large, coarse material dumped directly onto them. Apron feeders use variable-frequency speed adjustment and can be interlocked with downstream equipment, significantly improving production efficiency and reducing operating costs.

An Apron Feeder mainly consists of the drive unit, sprockets, chains & rollers, apron plates, support frame and tail tension device.

When the head sprocket is driven, the traction chain meshes with the sprocket and moves the whole line of apron plates along the longitudinal centre-line, while the rollers travel along the track fixed to the frame.



TECHNICAL SPECIFICATIONS

APRON FEEDER



Model	Plate Width (mm)	Plate Length (m)	Feeding Speed (m/s)	Feeding Size (mm)	Feeding Capacity (m ³ /h)
ZBWJ1200	1200	3-50	0.02-0.19	≤600	100-600
ZBWJ1400	1400	3-50	0.02-0.19	≤800	100-800
ZBWJ1600	1600	3-50	0.02-0.19	≤1000	200-1000
ZBWJ1800	1800	3-50	0.02-0.25	≤1000	400-1500
ZBWJ2000	2000	3-50	0.02-0.25	≤1200	600-2000
ZBWJ2400	2400	3-50	0.02-0.25	≤1400	800-3000
ZBWJ2800	2800	3-50	0.03-0.36	≤1800	1300-4000

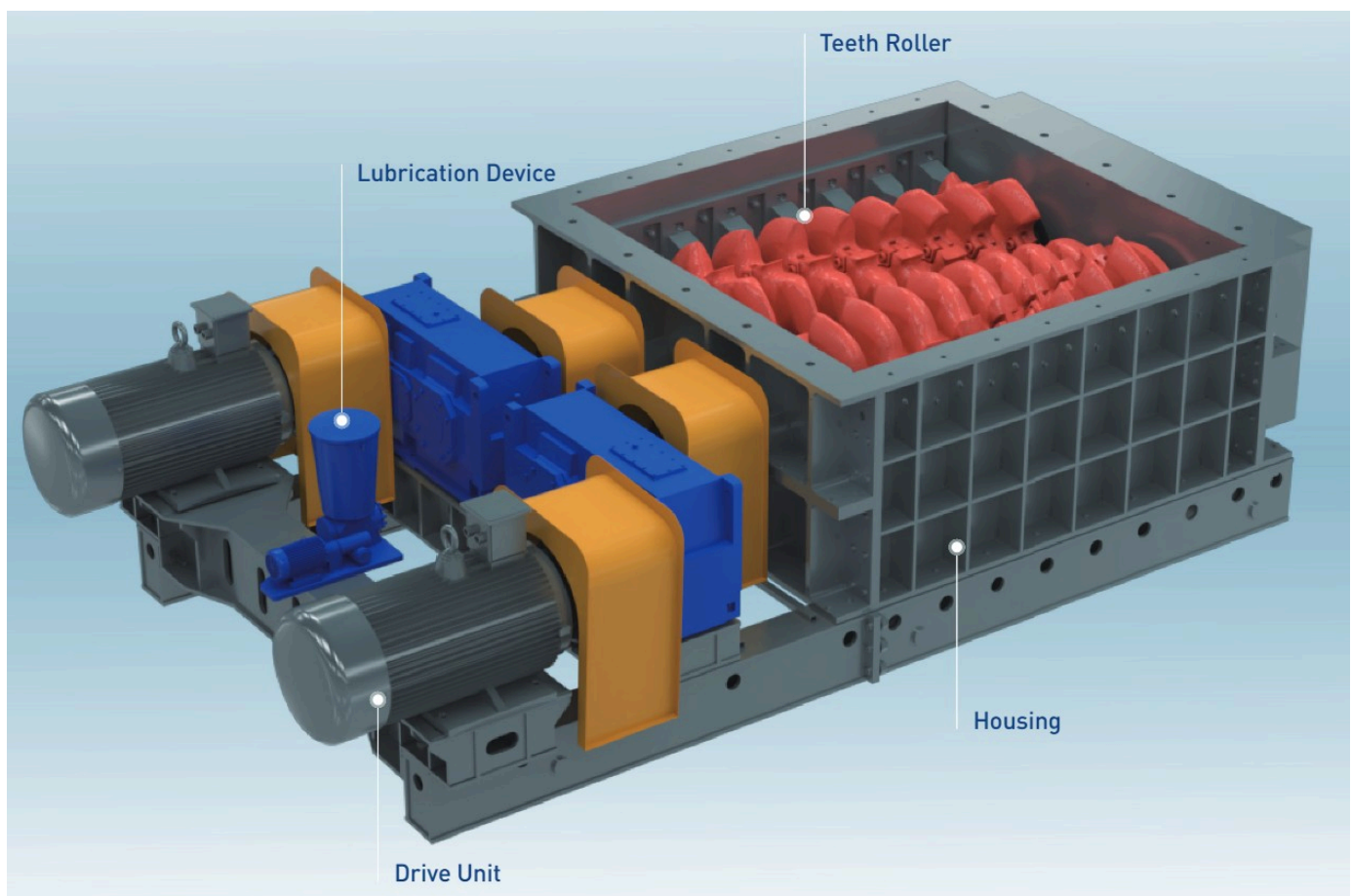
MINERAL SIZER

STRUCTURE & APPLICATIONS

The mineral sizer is a modern approach to crushing that uses the shear and tensile forces between toothed rollers to break material. It is the best choice for handling hard, wet and sticky materials.

It is a graded crushing machine that can carry out primary, secondary and tertiary crushing of many kinds of mineral.

A mineral sizer mainly consists of the drive unit, toothed rollers, synchromesh gear, housing, base frame, lubrication device and running gear.



150 SERIES PRIMARY MINERAL SIZER

Model / Specification	2PLF-150/250	2PLF-150/300	2PLF-150/350	2PLF-150/400
Roller Diameter (mm)	1500	1500	1500	1500
Roller Length (mm)	2500	3000	3500	4000
Input Size (mm)	≤1500	≤1500	≤1500	≤1500
Output Size (mm)	≤300	≤300	≤300	≤300
Capacity (t/h)	≤4500	≤5500	≤6500	≤7500

140 SERIES PRIMARY MINERAL SIZER

Model / Specification	2PLF-140/200	2PLF-140/250	2PLF-140/300	2PLF-140/350
Roller Diameter (mm)	1400	1400	1400	1400
Roller Length (mm)	2000	2500	3000	3500
Input Size (mm)	≤1400	≤1400	≤1400	≤1400
Output Size (mm)	≤300	≤300	≤300	≤300
Capacity (t/h)	≤3000	≤4000	≤5000	≤6000

120 SERIES PRIMARY MINERAL SIZER

Model / Specification	2PLF-120/150	2PLF-120/200	2PLF-120/250	2PLF-120/300
Roller Diameter (mm)	1200	1200	1200	1200
Roller Length (mm)	1500	2000	2500	3000
Input Size (mm)	≤1200	≤1200	≤1200	≤1200
Output Size (mm)	≤300	≤300	≤300	≤300
Capacity (t/h)	≤1500	≤2000	≤2500	≤3000

100 SERIES PRIMARY MINERAL SIZER

Model / Specification	2PLF-100/120	2PLF-100/150	2PLF-100/200	2PLF-100/250
Roller Diameter (mm)	1000	1000	1000	1000
Roller Length (mm)	1200	1500	2000	2500
Input Size (mm)	≤1000	≤1000	≤1000	≤1000
Output Size (mm)	≤300	≤300	≤300	≤300
Capacity (t/h)	≤800	≤1200	≤1500	≤2000

100 SERIES SECONDARY MINERAL SIZER

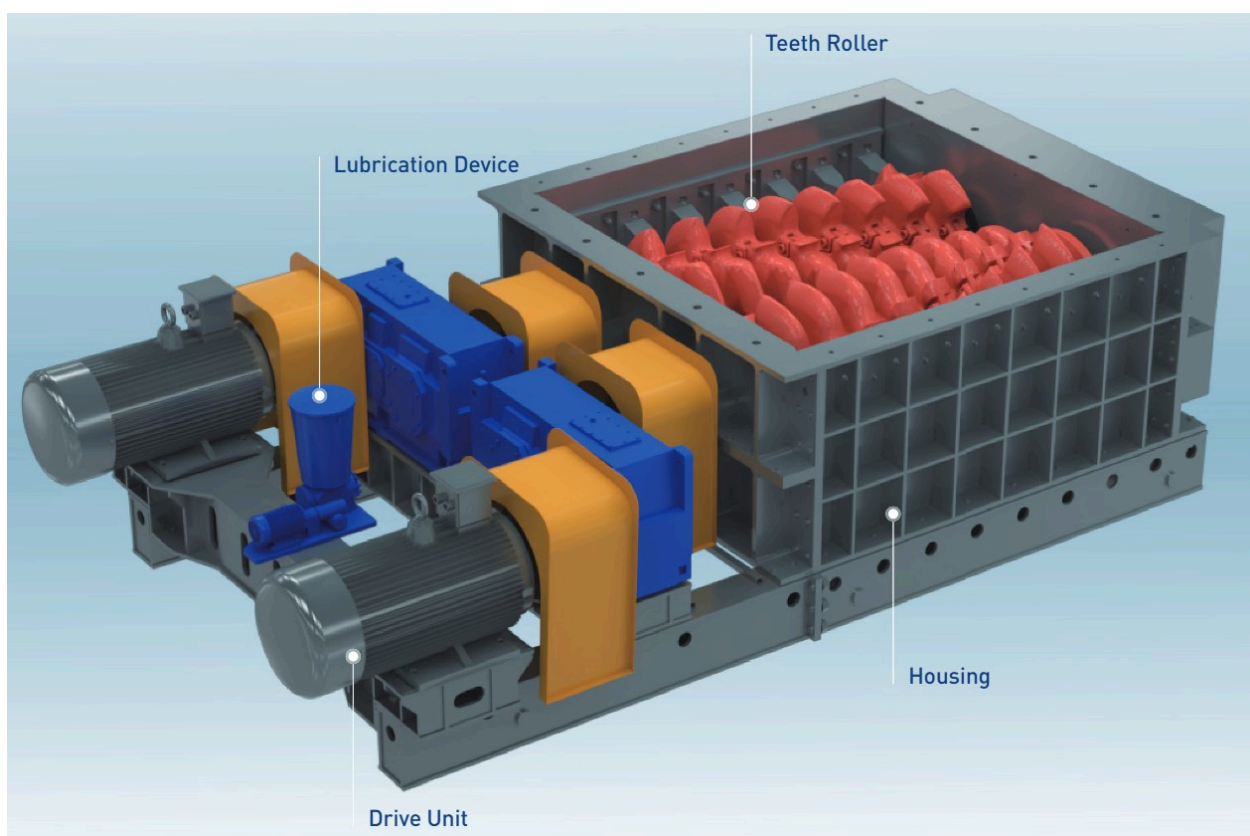
Model / Specification	2PLF-100/150	2PLF-100/200	2PLF-100/250	2PLF-100/300	2PLF-100/350
Roller Diameter (mm)	1000	1000	1000	1000	1000
Roller Length (mm)	1500	2000	2500	3000	3500
Input Size (mm)	≤400	≤400	≤400	≤400	≤400
Output Size (mm)	50–150	50–150	50–150	50–150	50–150
Capacity (t/h)	400–800	500–1000	650–1200	800–1500	1000–1800

80 SERIES SECONDARY MINERAL SIZER

Model / Specification	2PLF-80/150	2PLF-80/200	2PLF-80/250	2PLF-80/300
Roller Diameter (mm)	800	800	800	800
Roller Length (mm)	1500	2000	2500	3000
Input Size (mm)	≤300	≤300	≤300	≤300
Output Size (mm)	50–150	50–150	50–150	50–150
Capacity (t/h)	300–500	400–800	500–1200	600–1500

60 SERIES SECONDARY MINERAL SIZER

Model / Specification	2PLF-60/120	2PLF-60/160	2PLF-60/200
Roller Diameter (mm)	600	600	600
Roller Length (mm)	1200	1600	2000
Input Size (mm)	≤300	≤300	≤300
Output Size (mm)	50–150	50–150	50–150
Capacity (t/h)	200–400	250–600	300–800



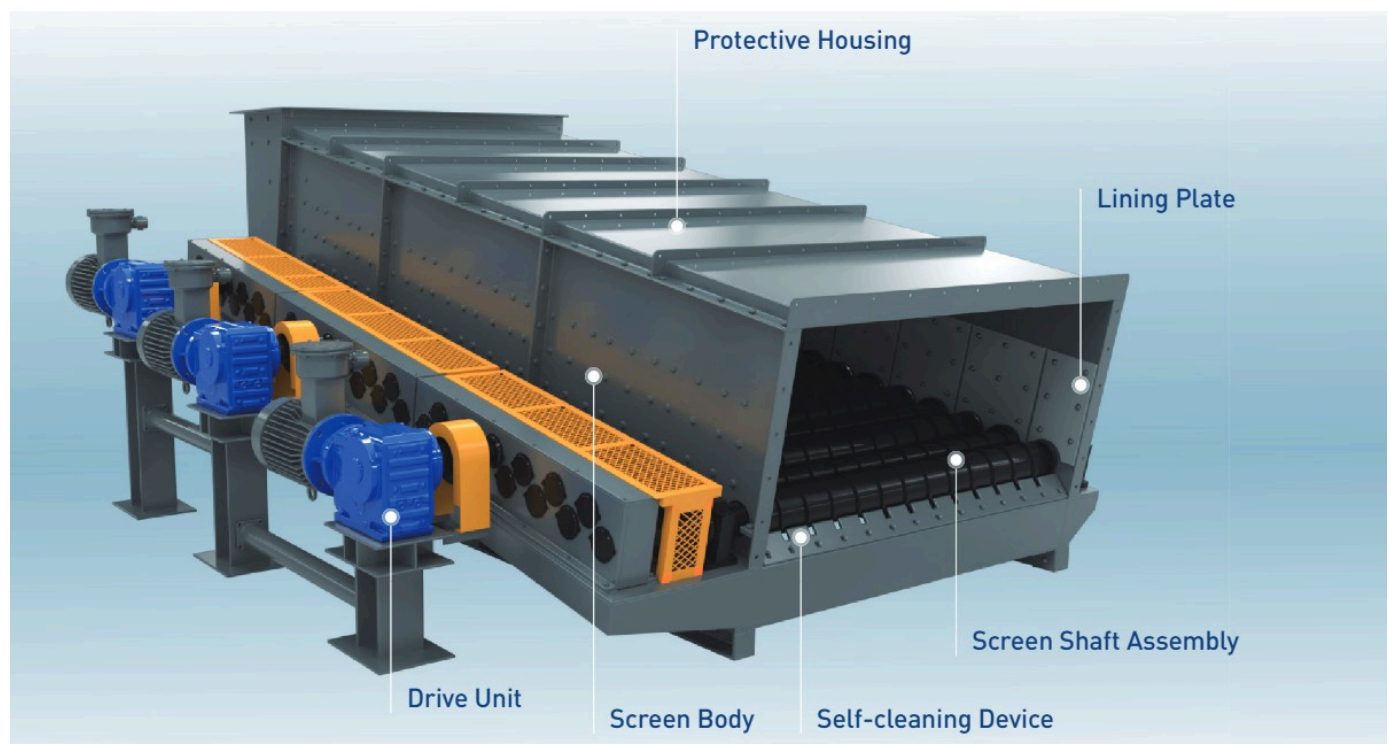
ROLLER SCREEN

STRUCTURE & APPLICATIONS

Roller screens, also known as wobble feeders or disc screens, are efficient screening equipment. The screening area is made up of rolls all rotating in the same direction, so feeding and screening happen in one operation. Roller screens are very well suited to bulk materials that are hard to screen, including wet and sticky material.

The screen surface is made of several parallel screen shafts fitted with shaped screen discs. The drive turns all the shafts in the same direction at the same speed, forming a rolling screen surface. Material flowing over it forms an even-thickness stream with a steady acceleration.

The gaps between the shafts and discs form the screen openings. Material smaller than the openings falls through under its own weight and the rotation of the shafts and becomes the undersize. Larger material is carried along the surface by the rotating discs and leaves as oversize — completing the classification.



TECHNICAL SPECIFICATIONS

ROLLER SCREEN

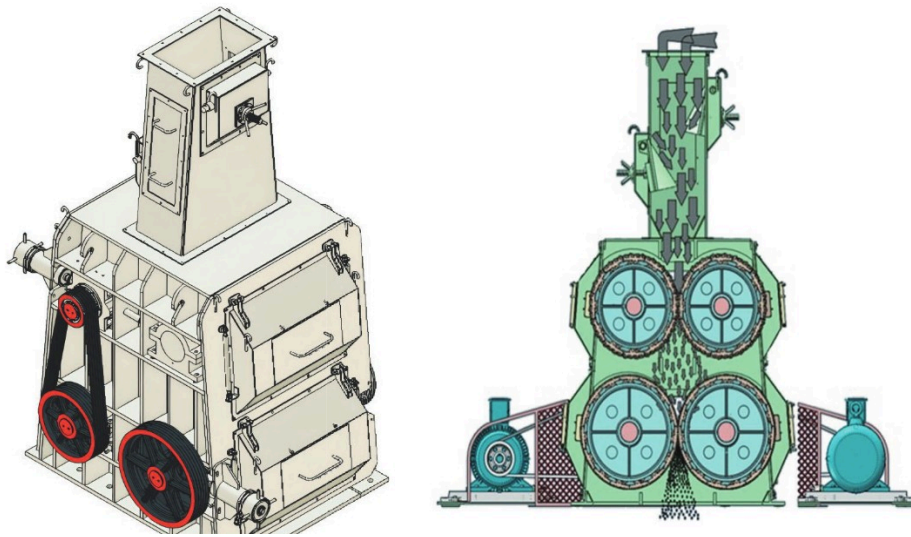


Model	Screen Width (mm)	Qty of Roller Shafts	Grading Size (mm)	Capacity (t/h)
GZS1410	1400	10	10–80	400–900
GZS1612	1600	12	10–80	500–1200
GZS1816	1800	16	10–80	800–1600
GZS2016	2000	16	10–80	1100–2000
GZS2424	2400	24	10–80	1500–3000

The number of rolls can be customised to customer requirements.

FOUR-TEETHED ROLLER CRUSHER

STRUCTURE & APPLICATIONS



The ZY4G10 Series Four-Teethed Roller Crusher is a fine crusher with key advantages: high efficiency, energy saving, environmental friendliness, intelligent operation, anti-clogging and adjustable particle size.

It is mainly suited to materials with compressive strength <120 MPa and feed size <300 mm, such as coal, coal gangue, filter cake and similar materials, and can crush them to below 10 mm in a single pass. It is widely used in CFB boiler coal-fired power generation and the coal chemical industry, and has also been applied successfully to coke, petroleum coke, asphalt/asphaltene, bauxite and oil shale.

FEATURES & ADVANTAGES

1. High efficiency, energy saving, environmentally friendly, intelligent, non-stick and clog-free.
2. Automatic retraction and adjustable granularity, with a patented bearing-seat retraction device.
3. Standardised tooth plates for easy installation and removal.
4. A purpose-designed door mechanism makes maintenance and repair convenient. The maintenance door has pneumatic struts, so only a slight force opens the access panel quickly for inspection and maintenance.

TECHNICAL SPECIFICATIONS

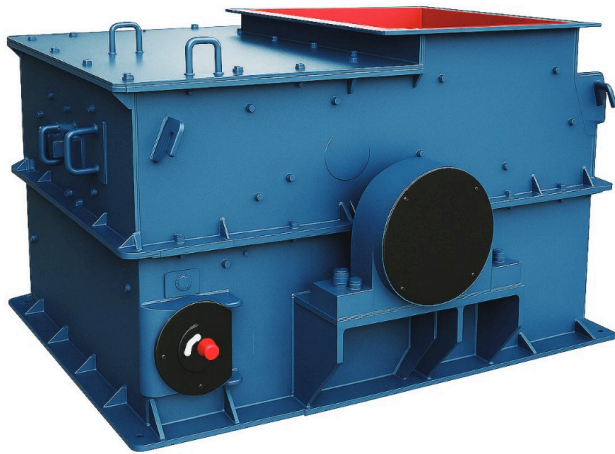
FOUR-TEETHED ROLLER CRUSHER



Model	Max. Input Size (mm)	Output Size (mm)	Capacity (t/h)	Power (kW)
ZY4G10-50	300	0-10	50	18.5+22
ZY4G10-70	300	0-10	70	2×30
ZY4G10-90	300	0-10	90	37+45
ZY4G10-100	300	0-10	100	2×45
ZY4G10-140	300	0-10	140	45+55
ZY4G10-150	300	0-10	150	2×55
ZY4G10-170	300	0-10	170	55+75
ZY4G10-200	300	0-10	200	75+90
ZY4G10-250	300	0-10	250	90+110
ZY4G10-300	300	0-10	300	2×110
ZY4G10-350	300	0-10	350	110+132
ZY4G10-400	300	0-10	400	2×160
ZY4G10-450	300	0-10	450	160+185
ZY4G10-500	300	0-10	500	185+200
ZY4G10-550	300	0-10	550	2×200
ZY4G10-600	300	0-10	600	2×250
ZY4G10-650	300	0-10	650	250+280
ZY4G10-700	300	0-10	700	2×280
ZY4G10-800	300	0-10	800	280+315

RING HAMMER CRUSHER

STRUCTURE & APPLICATIONS



The ZYPCH Ring Hammer Crusher crushes brittle materials such as coal, coal gangue, red sandstone, shale and loose limestone. Compressive strength should not exceed 40 MPa and surface moisture should not exceed 8–11%; for non-cohesive materials surface moisture can be up to 15%.

It is an impact rotor-type crusher fitted with ring hammers. The ring hammers turn with the rotor and also spin on their hammer pins. Material entering the crusher is broken by the impact of the high-speed ring hammers in the crushing chamber, and at the same time thrown at high speed against the crushing plate for secondary crushing.

It then falls onto the screen plate, where shearing, squeezing and grinding by the ring hammers, and collisions between particles, crush it further. Finally the crushed material is discharged through the screen openings.

FEATURES & ADVANTAGES

1. Large feed inlet and high crushing chamber, suitable for large material, with less stone powder in the product and low crushing power consumption.
2. Wear parts such as the hammers are made of high-quality materials, significantly extending service life.
3. Controllable product particle size and excellent particle shape.
4. Simple structure, easy maintenance and operation.

TECHNICAL SPECIFICATIONS

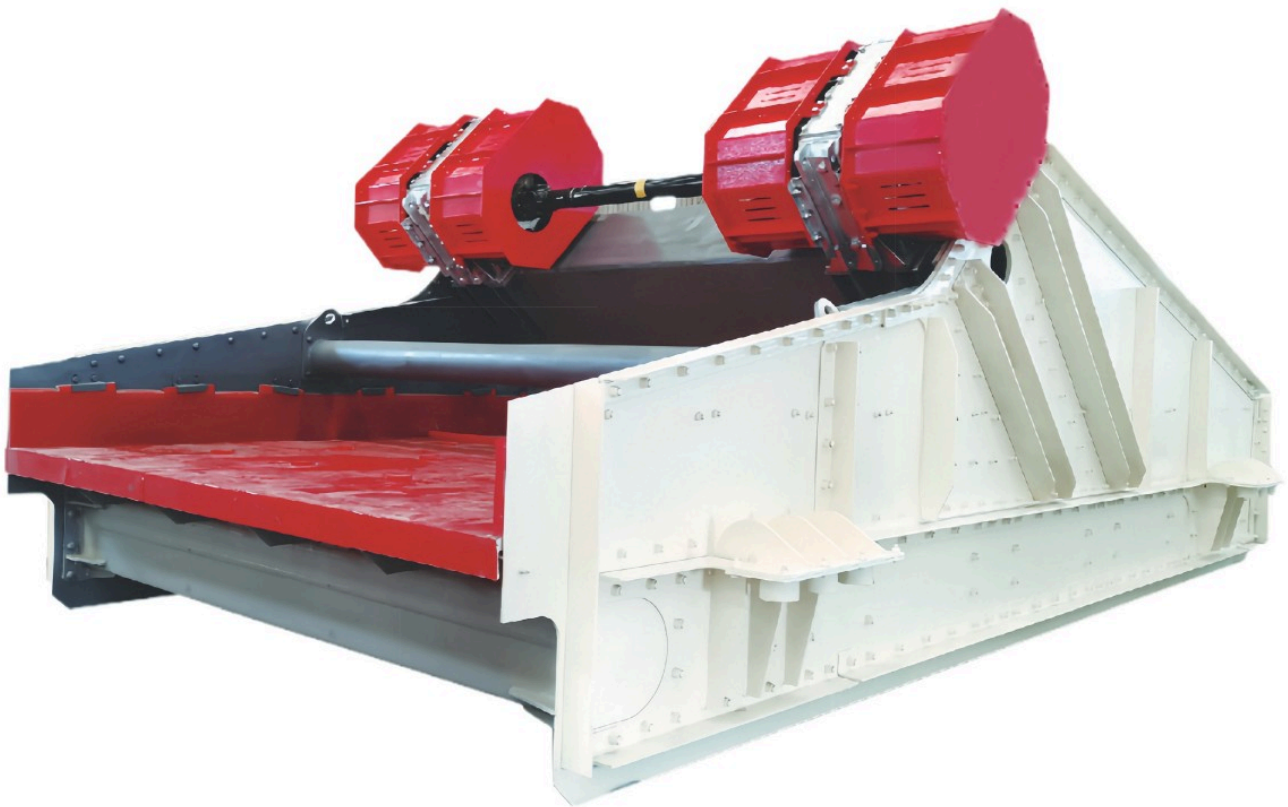
RING HAMMER CRUSHER



Model	Rotor Spec (mm)	Max. Input Size (mm)	Output Size (mm)	Capacity (t/h)	Power (kW)
ZYPCH0402	Ø400×200	200	0–30	9–15	5.5
ZYPCH0404	Ø400×400	200	0–30	15–26	11
ZYPCH0604	Ø600×400	200	0–30	20–35	15
ZYPCH0606	Ø600×600	200	0–30	28–60	30
ZYPCH0808	Ø800×800	200	0–30	70–108	45
ZYPCH1010	Ø1000×1000	300	0–30	150–250	90–110
ZYPCH1016	Ø1000×1600	300	0–30	280–500	155–220
ZYPCH1216	Ø1200×1600	400	0–30	480–800	280–355
ZYPCH1221	Ø1200×2100	400	0–30	750–1000	450

LINEAR VIBRATING SCREEN

STRUCTURE & APPLICATIONS



The DZX Series large linear vibrating screen is mainly used in coal preparation plants for dewatering and desliming, coal slurry recovery, tailings dewatering in mineral processing plants, and dewatering of washed sand in manufactured-sand plants.

It can also classify a wide range of medium and fine-grained materials. The design draws on proven international technology and is adapted to local operating conditions, making it well suited to on-site requirements.

LINEAR VIBRATING SCREEN

FEATURES & ADVANTAGES



1. Side plates and rivet holes are cut in one pass on a high-precision laser cutting machine, for high manufacturing accuracy.
2. Riveted connections instead of welding eliminate welding stress, giving a machine with high overall strength and a long service life.
3. The crossbeams are rectangular hollow sections. After welding, the whole structure is stress-relieved, for a high safety factor and superior strength.
4. The lower crossbeam surfaces in contact with material are coated with polyurea or lined with TIPTOP high-wear-resistant rubber, for excellent impact, corrosion and wear resistance.
5. The exciter beam is a flexible box design that withstands the high excitation force of the vibration exciter; on large exciters the reinforced flange is specially designed to increase vibration intensity.
6. The vibration exciter is an oil-lubricated box design with high-performance SKF and FAG self-aligning roller bearings made for vibration duty. Multiple seals keep foreign matter out, and heavy-duty precision helical gears with splash lubrication give long, trouble-free operation with minimal maintenance.
7. The screen plates are modular, giving strong versatility and short delivery times.
8. Vibration-damping springs are seat-mounted steel coil compression springs, with high load capacity, excellent damping and a long service life.



TECHNICAL SPECIFICATIONS

LINEAR VIBRATING SCREEN



Model	Layers	Area (m²)	Mesh Size (mm)	Max. Input (mm)	Capacity (t/h)	Motor (kW)	Motor Qty
DZX1848	1	8.64	0.5–15	100	40–100	22	1
2DZX1848	2	8.64×2	Upper: 3–50 Lower: 0.5–15	100	70–300	30	1
DZX2448	1	11.52	0.5–15	100	40–120	30	1
2DZX2448	2	11.52×2	Upper: 3–50 Lower: 0.5–15	100	100–450	45	1
DZX2461	1	14.64	0.5–15	100	40–130	37	1
2DZX2461	2	14.64×2	Upper: 3–50 Lower: 0.5–15	100	100–550	45	1
DZX3061	1	18.3	0.5–15	100	40–300	45	1
2DZX3061	2	18.3×2	Upper: 3–50 Lower: 0.5–15	100	100–700	55	1
DZX3661	1	21.96	0.5–15	100	40–370	55	1
2DZX3661	2	21.96×2	Upper: 3–50 Lower: 0.5–15	100	100–830	75	1
DZX4361	1	26.23	0.5–15	100	40–450	55	1
2DZX4361	2	26.23×2	Upper: 3–50 Lower: 0.5–15	100	100–950	75	1

BANANA SCREEN

STRUCTURE & APPLICATIONS



The ZXF Series banana screen is a heavy-duty screening machine designed for equal-thickness screening. It is mainly used in coal and mining for dry screening of medium and fine-grained materials, and is also widely used in coal preparation plants for dewatering and medium recovery.

Using the equal-thickness screening principle, it offers high capacity, efficient screening and reliable operation compared with conventional screens.

1. Side plates and rivet holes are cut in one pass on a high-precision laser cutting machine, for high manufacturing accuracy.
2. Riveted connections instead of welding eliminate welding stress, giving a machine with high overall strength and a long service life.
3. The crossbeams are rectangular hollow sections. After welding, the whole structure is stress-relieved, for a high safety factor and superior strength.
4. The lower crossbeam surfaces in contact with material are coated with polyurea or lined with TIPTOP high-wear-resistant rubber, for excellent impact, corrosion and wear resistance.
5. The exciter beam is a flexible box design that withstands the high excitation force of the vibration exciter; on large exciters the reinforced flange is specially designed to increase vibration intensity.
6. The vibration exciter is an oil-lubricated box design with high-performance SKF and FAG self-aligning roller bearings made for vibration duty. Multiple seals keep foreign matter out, and heavy-duty precision helical gears with splash lubrication give long, trouble-free operation with minimal maintenance.
7. The screen is made of several sections whose angle reduces from the feed end to the discharge end. The steep feed end makes material accelerate and stratify quickly, so most of the undersize contacts the screen and passes through early; the gentler discharge end slows the material, so the remainder is screened thoroughly — greatly improving screening efficiency.
8. The screen plates are modular, giving strong versatility and short delivery times.
9. Vibration-damping springs are seat-mounted steel coil compression springs, with high load capacity, excellent damping and a long service life.



TECHNICAL SPECIFICATIONS

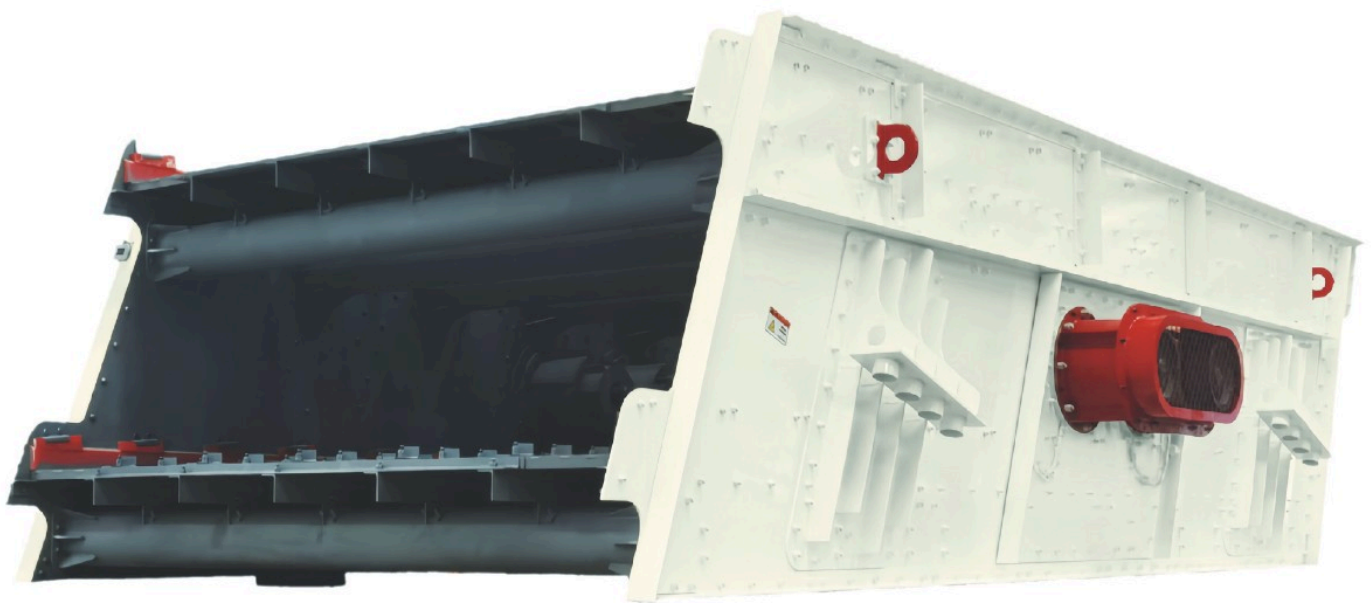
BANANA SCREEN



Model	Layers	Area (m²)	Mesh Size (mm)	Max. Input (mm)	Capacity (t/h)	Motor (kW)	Motor Qty
ZXF2461	1	14.64	0.5–80	300	40–550	37	1
2ZXF2461	2	14.64×2	0.5–80	300	40–650	45	1
ZXF3061	1	18.3	0.5–80	300	60–650	45	1
2ZXF3061	2	18.3×2	0.5–80	300	60–750	55	1
ZXF3661	1	21.96	0.5–80	300	80–850	55	1
2ZXF3661	2	21.96×2	0.5–80	300	80–950	75	1
ZXF4361	1	26.23	0.5–80	300	100–1200	55	1
2ZXF4361	2	26.23×2	0.5–80	300	100–1300	75	1

CIRCULAR VIBRATING SCREEN

STRUCTURE & APPLICATIONS



The YKH Series circular vibrating screen is designed for classifying material in coal, metallurgy and mining. Vibration frequency, amplitude and inclination are optimised from years of practical experience and screening theory for superior screening performance, with significant advantages in capacity and efficiency over similar products.

The design is developed with CREO 3D modelling, Ansys finite element analysis and Adams mechanical system dynamics analysis.

The screen uses a patented thin-oil-lubricated block eccentric vibrator, with excellent bearing lubrication and low operating temperature rise. This reduces the daily work of topping up lubricant and extends bearing life.

CIRCULAR VIBRATING SCREEN

FEATURES & ADVANTAGES



1. The side plates are high-quality DH36 alloy steel plate.
2. Oil-lubricated vibrator (patented): oil top-up only once a month, for near maintenance-free operation and less labour.
3. The beams are designed for infinite fatigue life, with post-weld heat treatment and precision machining at both ends.
4. Huck ring-groove rivets are used, so screen component joints never loosen under vibration.
5. The twin-shaft drive is synchronised with highly reliable imported timing belts, giving long life and easy spare part replacement.
6. Vibration-damping springs are seat-mounted steel coil compression springs, with high load capacity, excellent damping and a long service life.



TECHNICAL SPECIFICATIONS

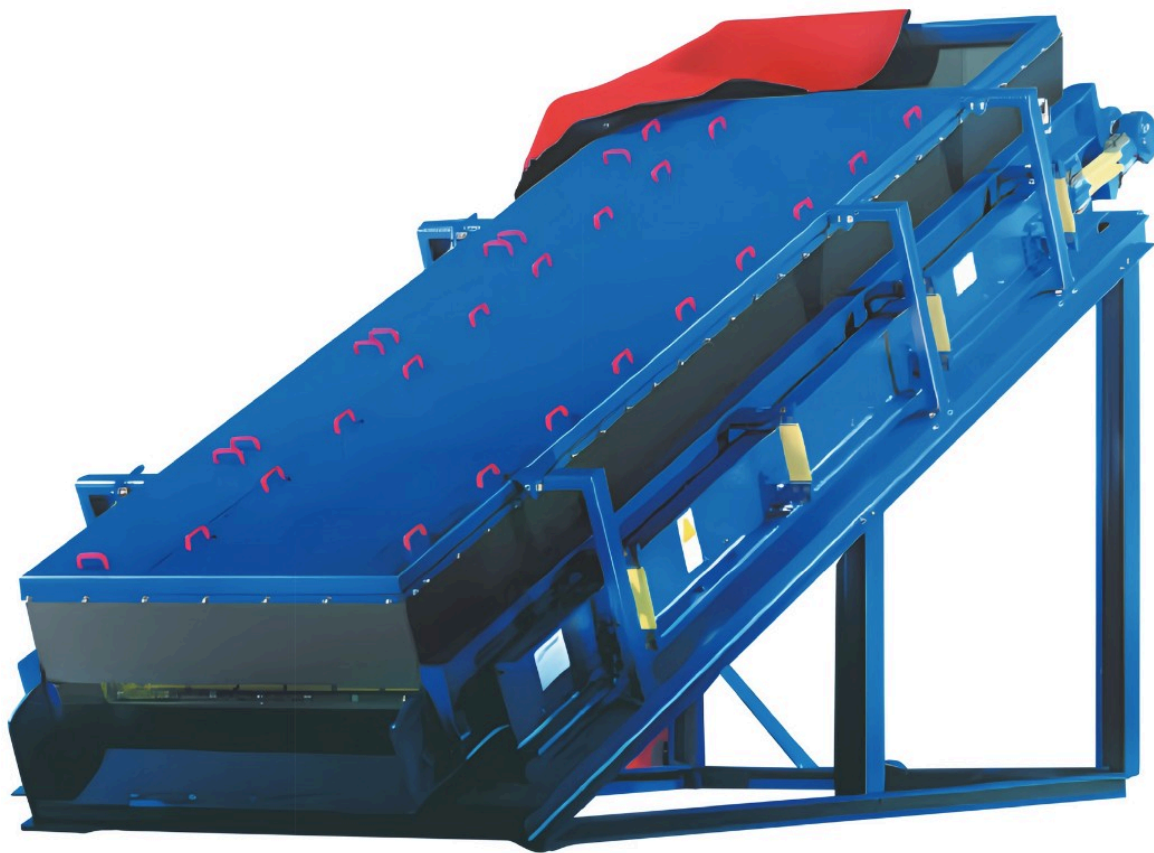
CIRCULAR VIBRATING SCREEN



Model	Layers	Area (m²)	Mesh Size (mm)	Max. Input (mm)	Capacity (t/h)	Motor (kW)	Motor Qty
YKH1848	1	8.64	5-150	150	100-600	15	1
2YKH1848	2	8.64×2	5-150	150	130-700	22	1
YKH2448	1	11.52	5-150	300	130-900	22	1
2YKH2448	2	11.52×2	5-150	300	150-1000	30	1
YKH2461	1	14.64	5-150	300	150-1000	30	1
2YKH2461	2	14.64×2	5-150	300	200-1200	37	1
YKH3061	1	18.3	5-150	300	300-1500	30	1
2YKH3061	2	18.3×2	5-150	300	300-1800	45	1
2YKH3073	2	21.9×2	5-150	300	350-2000	30	2
2YKH3675	2	27×2	5-150	300	500-2500	37	2
2YKH4285	2	35.7×2	5-150	300	600-2800	55	2

MECHANICAL FLIP-FLOW SCREEN

STRUCTURE & APPLICATIONS



The Mechanical Flip-Flow Screen is a high-performance screen for fine, wet and sticky materials that are difficult to separate, and is widely used in coal, metal and non-metal mines.

It is especially effective in the coal chemical industry, where 3–8 mm material tends to blind conventional screen mesh: the flip-flow screen achieves very high screening efficiency on a relatively small screen area without the mesh blocking.

MECHANICAL FLIP-FLOW SCREEN

FEATURES & ADVANTAGES



Advanced screening technology. As material is thrown up from the flexing screen surface it is subjected to forces from several directions, which separates coarse from fine particles and improves screening efficiency.

High screening efficiency. High acceleration fully loosens the material so it separates quickly, giving a higher undersize pass rate and stopping near-size particles from blocking the openings.

Non-blocking screen openings. The flexing screen mats are high-grade polyurethane with excellent corrosion and bending-fatigue resistance. The mats are 100% integrally moulded, with no joints or bonded points, and the holes are punched with special tooling. Constant flexing of the elastic mat stops fines sticking, and together with the high acceleration prevents near-size particles from blocking the holes.

Reliability. The screen runs at a low speed of under 600 rpm, generating only 2–3 g acceleration stress. The floating beams are square tube for a more robust, stable structure.

Low foundation load. The rubber support springs only carry the screen weight vertically, while the inclined mounting takes the inertial force. Because the screen runs at low speed there is no vertical impact on the foundation, reducing foundation requirements and cost.

Sealed sides. A large-radius horn design at the sides stops oversize leaking to the undersize side, and reduces bending stress on the mats, extending their life.

Quick mat changes. The mats are fixed by a press-in, pry-out method with no bolts, so they are simple and quick to replace, and there are no bolts to wear or work loose.



TECHNICAL SPECIFICATIONS

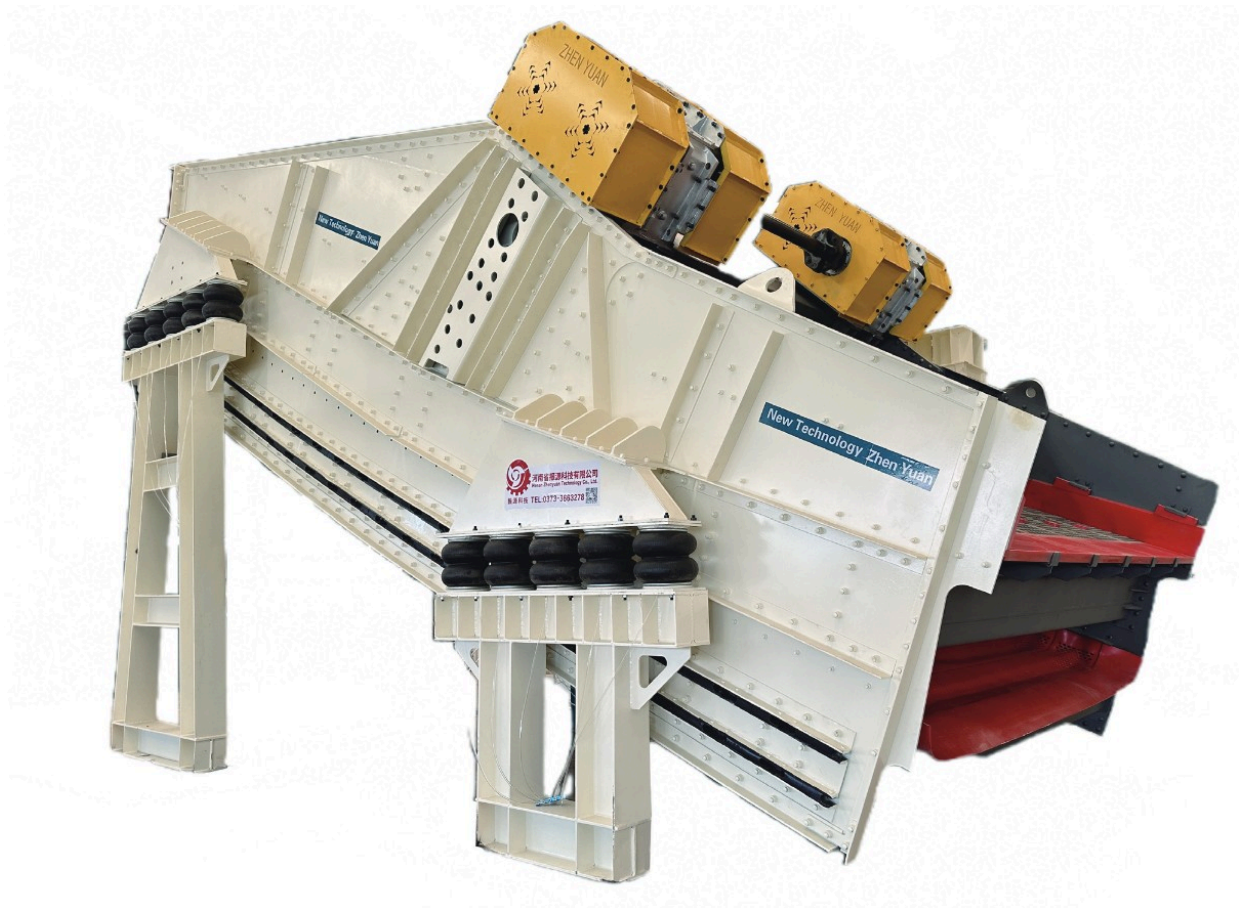
MECHANICAL FLIP-FLOW SCREEN



Model	Layers	Area (m ²)	Mesh Size (mm)	Max. Input (mm)	Capacity (t/h)	Motor (kW)	Motor Qty
MFF2.0-6.30	1	12.6	3-13	80	150-400	22	1
2MFF2.0-6.30	2	12.6×2	Upper: 14-30 Lower: 3-13	80	350-650	37	1
MFF2.2-7.56	1	16.6	3-13	80	250-500	37	1
2MFF2.2-7.56	2	16.6×2	Upper: 14-30 Lower: 3-13	80	450-750	45	1
MFF2.2-8.82	1	19.4	3-13	80	250-600	37	1
2MFF2.2-8.82	2	19.4×2	Upper: 14-30 Lower: 3-13	80	500-900	45	1
MFF2.6-8.82	1	22.9	3-13	100	350-750	37	1
2MFF2.6-8.82	2	22.9×2	Upper: 14-30 Lower: 3-13	100	650-1100	45	1
MFF3.0-8.82	1	26.5	3-13	100	400-950	45	1
2MFF3.0-8.82	2	26.5×2	Upper: 14-30 Lower: 3-13	100	800-1400	75	1

VIBRATING FLIP-FLOW SCREEN

STRUCTURE & APPLICATIONS



The Vibrating Flip-Flow Screen produces two vibrations from a single drive: a basic vibration from the rotating eccentric block and an additional vibration from the floating screen frame. The floating frame makes the elastic polyurethane mats stretch and relax about 800 times a minute, giving the material a vibration intensity of up to 50 g and effectively preventing blinding.

It is widely used for efficient screening and classification in metal and non-metal mining, with cut sizes as fine as 3 mm down to 0.2 mm.

VIBRATING FLIP-FLOW SCREEN

FEATURES & ADVANTAGES



1. The screen mats are designed to withstand a vibration intensity of 50 g and 800 flexes per minute, for a long service life.
2. The flip-flow motion of the mats prevents aperture blinding, so difficult materials are screened with high separation efficiency.
3. The mats need no bolts, making them easy to install, remove and replace quickly.
4. The main frame and floating beams use rubber shear springs and guide leaf springs. The shear springs transmit horizontal vibration to the floating frame and allow amplitude adjustment; the leaf springs keep the floating frame vibrating in the right direction and extend shear-spring life.
5. Horn-shaped side seals prevent side-plate wear and stop material leaking from the top deck to the bottom.
6. The screen sits on hollow rubber springs for excellent vibration damping and low noise.
7. The floating frame amplitude is adjustable, with a vibration intensity range of 10–50 g.
8. Cut size as fine as 3 mm (non-metallic mines) or 0.2 mm (metallic mines).
9. Lowest motor power of any screen with the same screening area.
10. Elastic deformation of the polyurethane mesh self-cleans the apertures, solving fine-particle blinding.
11. Screening efficiency can exceed 95%.



TECHNICAL SPECIFICATIONS

VIBRATING FLIP-FLOW SCREEN



Model	Layers	Area (m²)	Mesh Size (mm)	Max. Input (mm)	Capacity (t/h)	Motor (kW)	Motor Qty
VFDB(SF)1861	1	10.98	0.5–8	80	100–300	22	1
2VFDB(SF)1861	2	10.98×2	Upper: 8–30 Lower: 0.5–8	80	200–400	30	1
VFDB(SF)2461	1	14.64	0.5–8	80	150–400	37	1
2VFDB(SF)2461	2	14.64×2	Upper: 8–30 Lower: 0.5–8	80	300–500	45	1
VFDB(SF)3061	1	18.3	0.5–8	100	200–600	45	1
2VFDB(SF)3061	2	18.3×2	Upper: 8–30 Lower: 0.5–8	100	300–650	55	1
VFDB(SF)3685	1	30.6	0.5–8	100	300–800	55	1
2VFDB(SF)3685	2	30.6×2	Upper: 8–30 Lower: 0.5–8	100	500–1050	75	1
VFDB(SF)43100	1	43	0.5–8	100	400–1000	75	1
2VFDB(SF)43100	2	43×2	Upper: 8–30 Lower: 0.5–8	100	660–1300	90	1

DYNAMIC WEIGHING BELT FEEDER

QUANTITATIVE BELT FEEDER — STRUCTURE & APPLICATIONS



The GLD Series Dynamic Weighing Quantitative Belt Feeder is mainly used in coal blending systems and quantitative rapid loading systems. It weighs and measures material on the move, and is widely used.

FEATURES & ADVANTAGES

1. Combines an armour belt with a rubber belt: large feeding capacity, low power consumption, easy maintenance, low failure rate and energy efficiency.
2. The semi-suspended weighing device gives fast dynamic response, high capacity, stable operation and high measuring accuracy, and works in harsh environments with large temperature swings and heavy impact loads.
3. The armour belt is reinforced nylon 1010 joined with armour plates. This prevents slip, keeps the armour belt and rubber belt running in step, and stops belt wander.
4. A hydraulic flat gate valve gives high thrust, quick opening and closing, and remote control.
5. The rubber belt is a jointless endless wear-resistant belt, for a longer service life.
6. Complete auxiliary equipment, with comprehensive functions and wide adaptability.

TECHNICAL SPECIFICATIONS

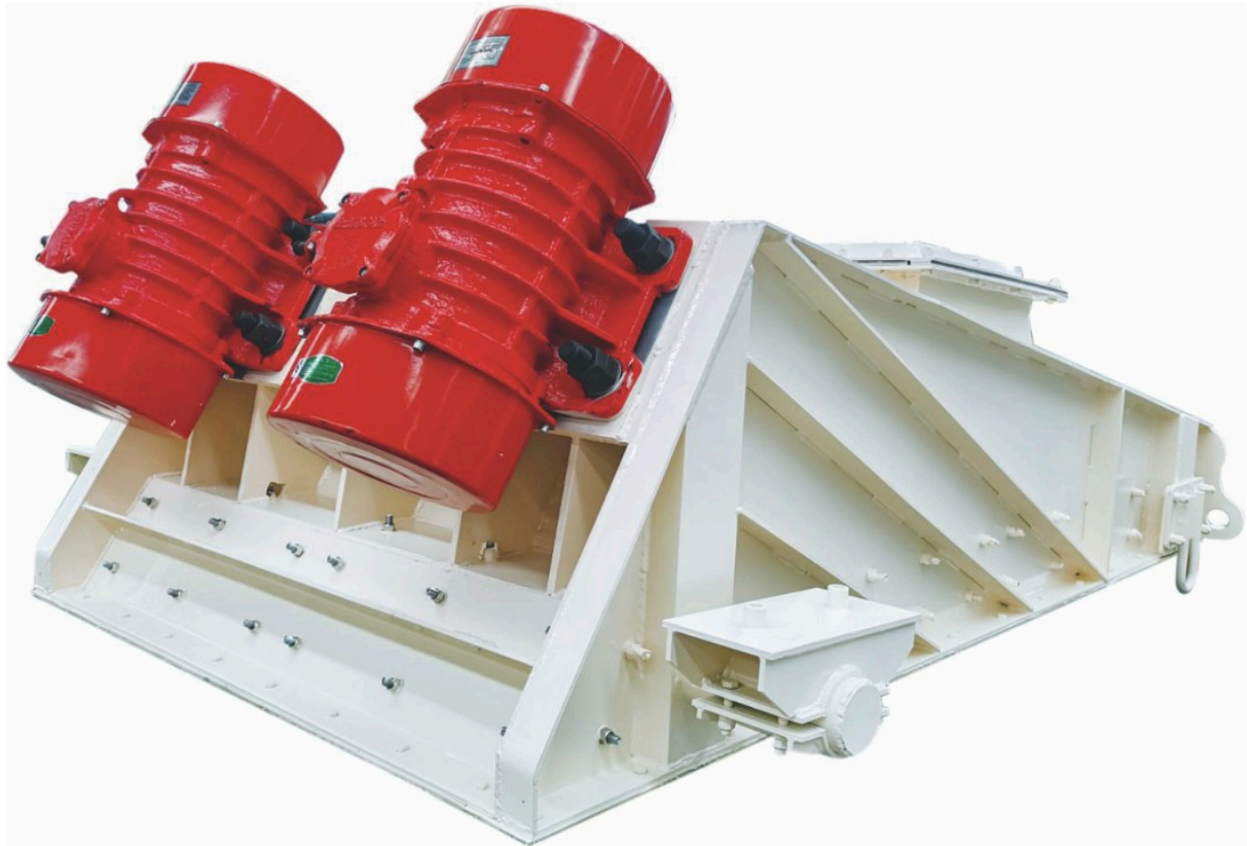
DYNAMIC WEIGHING BELT FEEDER

Model	Power (kW)	Speed Adjustment	Capacity (t/h)	Measuring Precision
GLD800/5.5/B	5.5	Automatic variable-frequency speed regulation	100–800	≤ ±0.5%
GLD2000/7.5/B	7.5		240–2000	
GLD3300/7.5/B	7.5		390–3300	
GLD4400/11/B	11		830–4400	



VIBRATORY FEEDER

STRUCTURE & APPLICATIONS



The Vibratory Feeder uses eccentric blocks as its vibration source, driven through gears, for low noise, smooth operation and a long service life.

It is used in crushing and screening lines in coal, ore dressing, building materials, chemical, power and abrasives industries.

FEATURES & ADVANTAGES

1. Rugged design for operation in adverse conditions.
2. Force-vector drive for reliability and flexibility.
3. Steel coil or rubber isolation reduces transmitted forces and simplifies installation.
4. Variable capacity control for easy adjustment of feed rate.
5. Custom designed to suit your application.

VIBRATION MOTOR TYPE

Model / Specification	MZG50	MZG70	MZG90	MZG110	MZG130	MZG150	MZG180
Installation Angle (°)	5–15	5–15	5–15	5–15	5–15	5–15	5–15
Amplitude (mm)	4–6	4–6	5–7	5–7	5–7	5–7	5–7
Capacity, coal (t/h)	0–50	50–80	100–200	220–450	300–600	450–900	750–1500
Motor Power (kW)	2×0.75	2×1.1	2×1.5	2×2.2	2×2.2	2×3.0	2×5.5

VIBRATION EXCITER TYPE

Model / Specification	MZG150	MZG180	MZG200	MZG220	MZG250	MZG280
Installation Angle (°)	5–15	5–15	5–15	5–15	5–15	5–15
Amplitude (mm)	5–7	5–7	5–7	5–7	5–7	5–7
Capacity, coal (t/h)	600–1000	820–1400	1100–1800	1300–2000	1600–2300	2100–3000
Motor Power (kW)	4	5.5	7.5	7.5	11	15



CONTACT US

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