

# FEEDER BREAKER

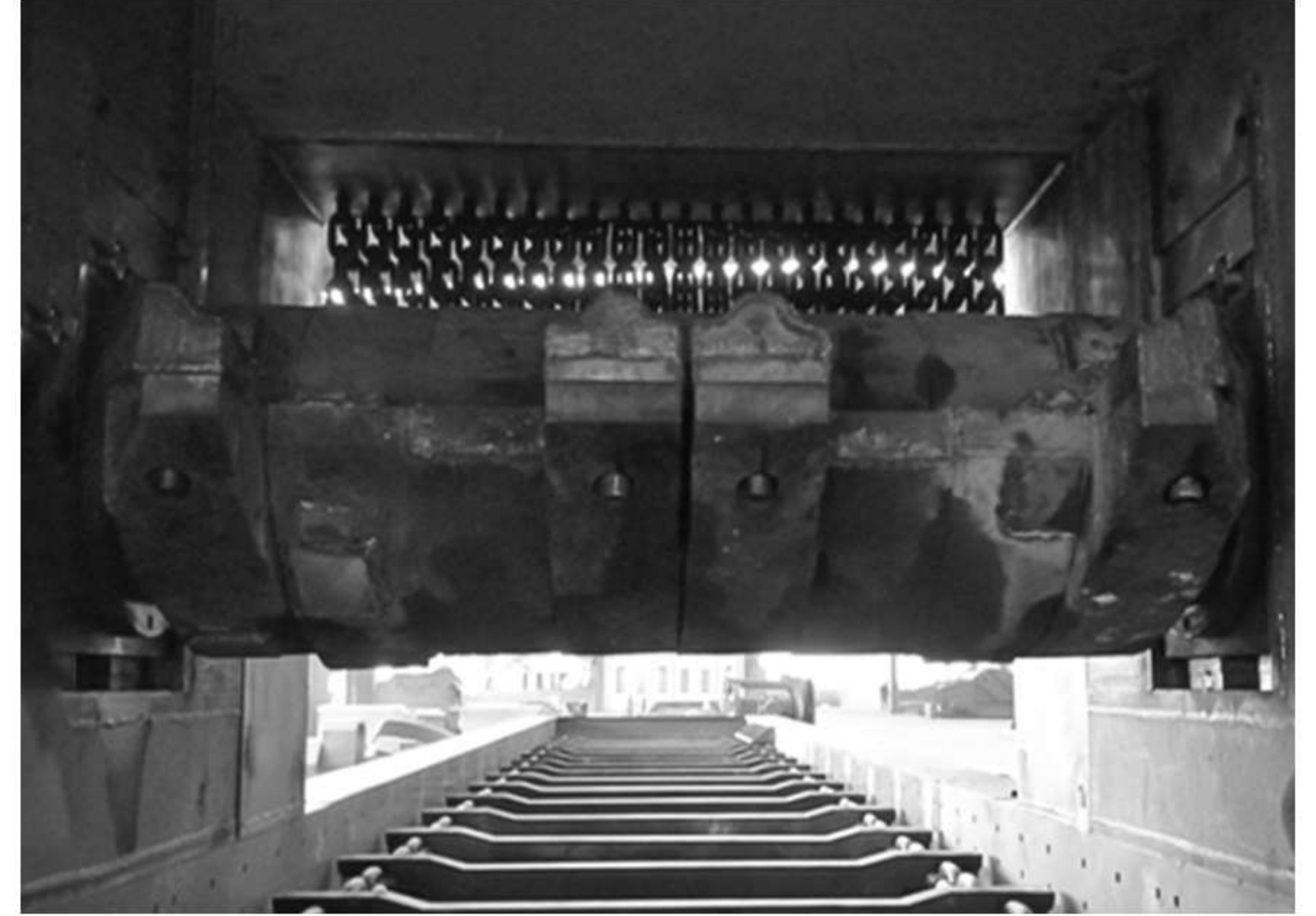
Product Brochure





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# PRODUCT PROFILE



Feeder breaker is a collection of receiving, sieving, crushing, conveying and other work can be one of the equipment, the optimization of the technical process makes it very suitable for open pit mining, and it can be combined into a powerful crushing operation line through the combination of different models to complete multi-demand processing operations. feeder breaker has advanced design, excellent performance, high production efficiency, easy to use and maintenance, economical operating costs, stable and reliable work and other advantages. It can be widely used in coal, crush, mining and other industries.

Feeder breaker is mainly composed of two parts of the machine: the roll crusher and chain scraper conveyor, the roll crusher is installed above the chain conveyor, allowing the chain scraper conveyor to be used as both the feeder conveyor and the discharge conveyor. The design and arrangement of the teeth roll on the roll crusher and the scraper in the conveyor are the main factors that determine the size of the product, but through the adjustment of the conveying speed of the roll crusher and the chain scraper conveyor with adjustable height, through the frequency conversion, the size of the produced particle can be adjusted according to customer requirements.





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# PRODUCT FEATURES



It uses horizontal material flow tech, a strong ability to break bulk material, can be broken up to 2 m material.



It can directly feed by the truck or loader, doesn't need other specific expensive equipment, greatly reducing equipment cost.



When hammer crushing, the hammer head position can be modulated through the hydraulic lifting device to control the discharge size of the material and ensure the precision of the finished material size.



Chain conveyors can use frequency converters to change the chain's speed to control the chain conveyor's conveying capacity and then to control the handling capacity of the chain conveyor.



It is equipped with an automatic centralized lubrication system to ensure normal operation without trouble.



It has the advantages of adjustable particle size and crushing ratio, compact structure, stable operation, low cost, low noise, easy installation and debugging.



It is flexible, crusher teeth can be replaced easily, reduced maintenance costs, suitable for material handling and crushing in open air environments with low capital investment.



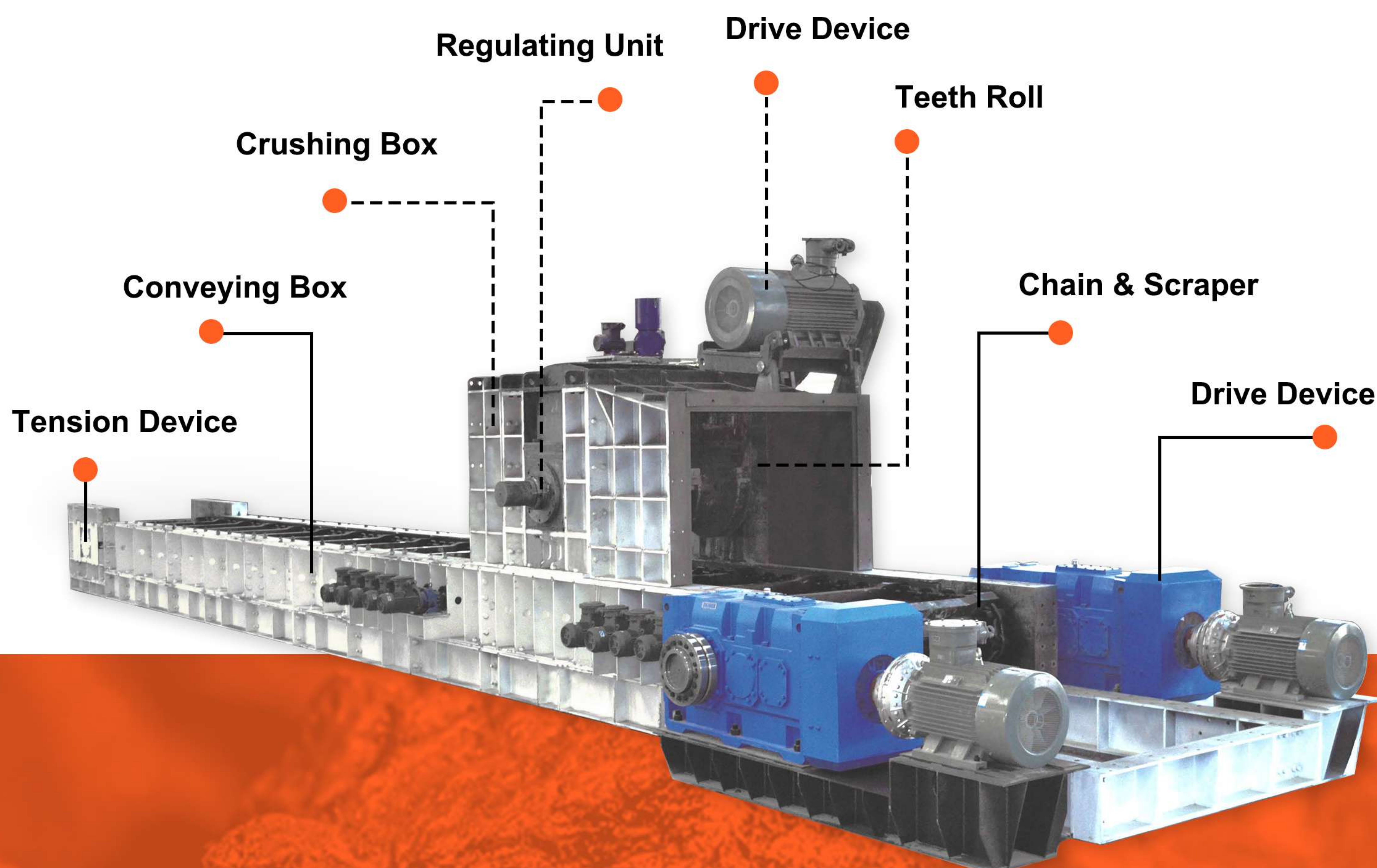
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# PRODUCT STRUCTURE

Our feeder breaker can be divided into Chain scraper conveyor and roll crusher two part:

Chain scraper conveyor: mainly composed of drive device, chain & scraper, conveying box and tension device;

Roll crusher: mainly composed of teeth roll, drive device, regulating unit and crushing box.



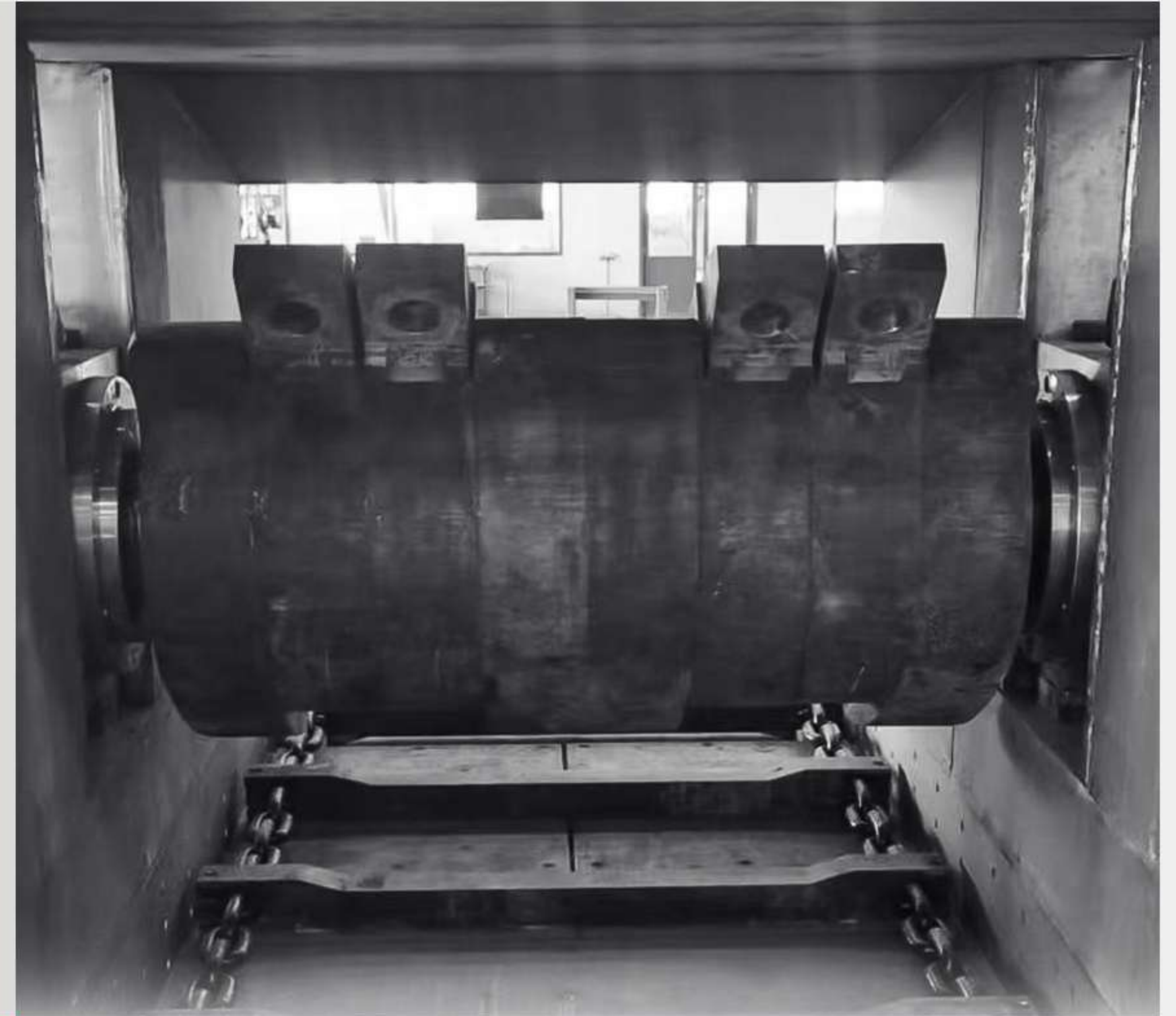


## ■ **ROLL CRUSHER**

Our feeder breaker can be equipped with two forms of crusher according to the different needs of our customers.

### **Hammer Crusher**

The Hammer crusher is connected to the motor by the triangular belt. The height of the Hammer crusher can be quickly adjusted by means of a hydraulic device to adjust the discharge size of the crushed material in order to meet the needs of different customers.



### **Teeth Roll Crusher**

Powerful function teeth roll with picks and a pick pattern designed for chain scraper conveyor to crush material to the desired output size. Since the material is broken, not squashed, the lumps are consistent, producing less waste material and maximizing product value.

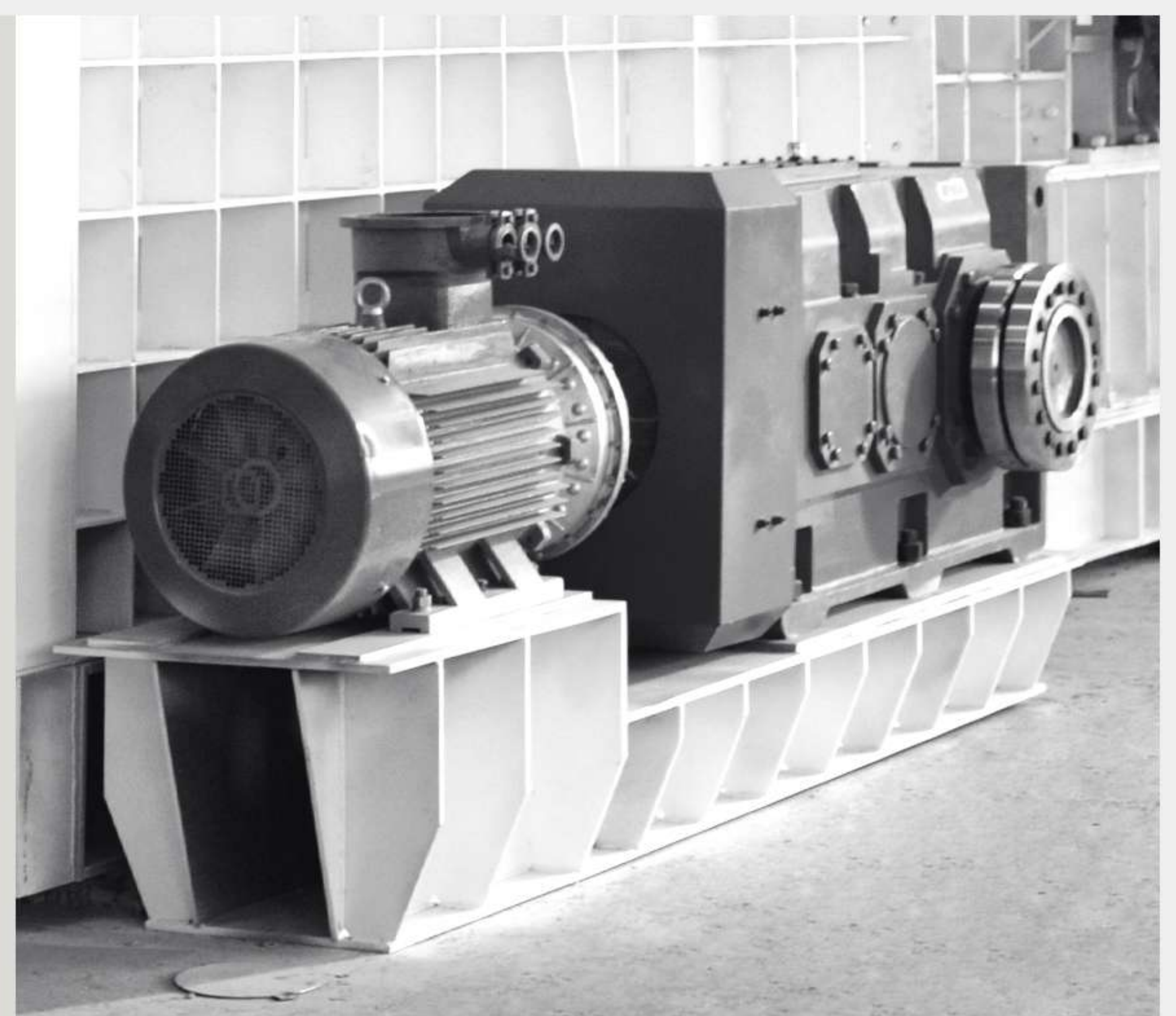


## ■ **CHAIN SCRAPER CONVEYOR**

Our feeder breaker are also equipped with the following parts to ensure smooth operation of transport functions:

### **Drive Device**

Our drive system utilizes an AC variable frequency drive system that integrates software with electronic and mechanical systems to provide precise conveyor speed control and overload protection.





## Chain & Scraper

The hauling chain adopts a high strength mining circular chain connected by connecting rings, with a long service life and easy change. The conveyor scraper is made of alloy steel, which has the advantages of high strength, high tensile strength, compact structure, withstands strong impact, installs easily and others.

## Sprocket & Shafts Assembly

The Head/Tail Shafts are designed for disassembling maintenance as a whole unit. Shafts designed with alloy hardened, tempered and stress relieved steel. Sprockets are designed with either sheet flame hardened steel or split steel to provide additional maintenance options.

## Tension Device

There is a hydraulic adjustment device at the tail of conveyor body, and the manual hydraulic pump adjustment device can realize that even if the feeding end of the machine is buried in the "material", it can also quickly adjust the chain tightness to ensure the equipment stable operation.

## Frame

Our feeder breaker's feed section is reinforced steel plates, fastened with bolts according to the frequency of replacement required. The conveyor's main frame is made of low-temp proof alloy steel to meet the extreme low-temp environment on site. The internal liner is made of wear-proof plate and is bolted for easy and quick change.





# TECHNICAL SPECIFICATIONS

• Equipment Model	FBC-14	FBC-16	FBC-18	FBC-22
• Conveyor Width(mm)	1,350	1,550	1,750	2,150
• Conveyor Length(mm)	6,000-10,000	8,000-12,000	8,000-15,000	8,000-15,000
• Max.Material Input Size(mm)	800×800	1,000×1,000	1,200×1,200	1,500×1,500
• Nominal Material Output Size(mm)	≤200	≤300	≤300	≤400
• Handling Capacity(t/h)	500-1,000	800-1,400	1,200-2,000	1,500-3,000





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# PRODUCT APPLICATION



**Coal**



**Gypsum**



**Shale**



**Limestone**



**Clay**



**Potash**



**Chalk**



**Rock Salt**



**Slag**







**| CASE**








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