

Apron Feeder

HENAN EXCELLENT MACHINERY CO.,LTD

Bulk Material Handling





APRON FEEDER PROFILE

Apron feeder is a reliable feeding method for when the material to be conveyed is lumpy,abrasive, heavy, high temperature. The apron feeder consists of a series of overlapping pans or plates which form a continuous chain like a conveyor belt.

Apron feeders are running at very low speeds and the feeding rate can be controlled, and they can absorb the impact loads of the material falling from a dump truck or a front-end loader and is ideal for withdrawing material from under a stockpile or from under a primary crusher.

WHY CHOOSE EXCT APRON FEEDERS

01 Experienced engineer team provides scientific and reasonable technical solutions for each end user.



02 Excellent tooling, skilled technical workers, 30+ years of production experience ensure the quality & reliability of the apron feeder.





03

200+ successful cases of apron feeder in more than 40 countries and regions around the world. Such as USA, Pakistan, Australia, Indonesia, South Africa, Brazil, Spain, Guinea, Thailand, Russia, etc.

Complete set of professional nanny service process provided, including Professional answer, Solution customization, Installation & Debugging, Product training.



04



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Sufficient spare parts inventory ensures rapid availability of end-user spare parts, reducing equipment maintenance and downtime.



MAIN APPLICATIONS FOR APRON FEEDERS



Crusher Feeding

One machine covers full range of materials (cement, ironore, sand, coal, limestone, fertilizers and so on.), Unloading of material of any size range, size up to 1,500 mm, suitable for a wide variety of abrasive materials, each unit is tailor-made to suit crusher.

Wagon Unloading

Receive mine material directly from dump trucks, unloading of multiple trucks at once, suitable for unloading in combination with other transportation equipment, high impact load resistance.



Hopper Discharge

Pan of width up to 3,000 mm suitable for large block materials, vertical or even negative angle walls for extremely sticky materials, reasonable pan shape design for better cleaning.

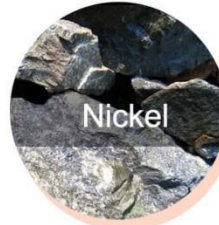
Stockpile Discharge

Several short apron feeders in series, unlimited on the height of material stockpile, heavy duty design ensures reliable material extraction.

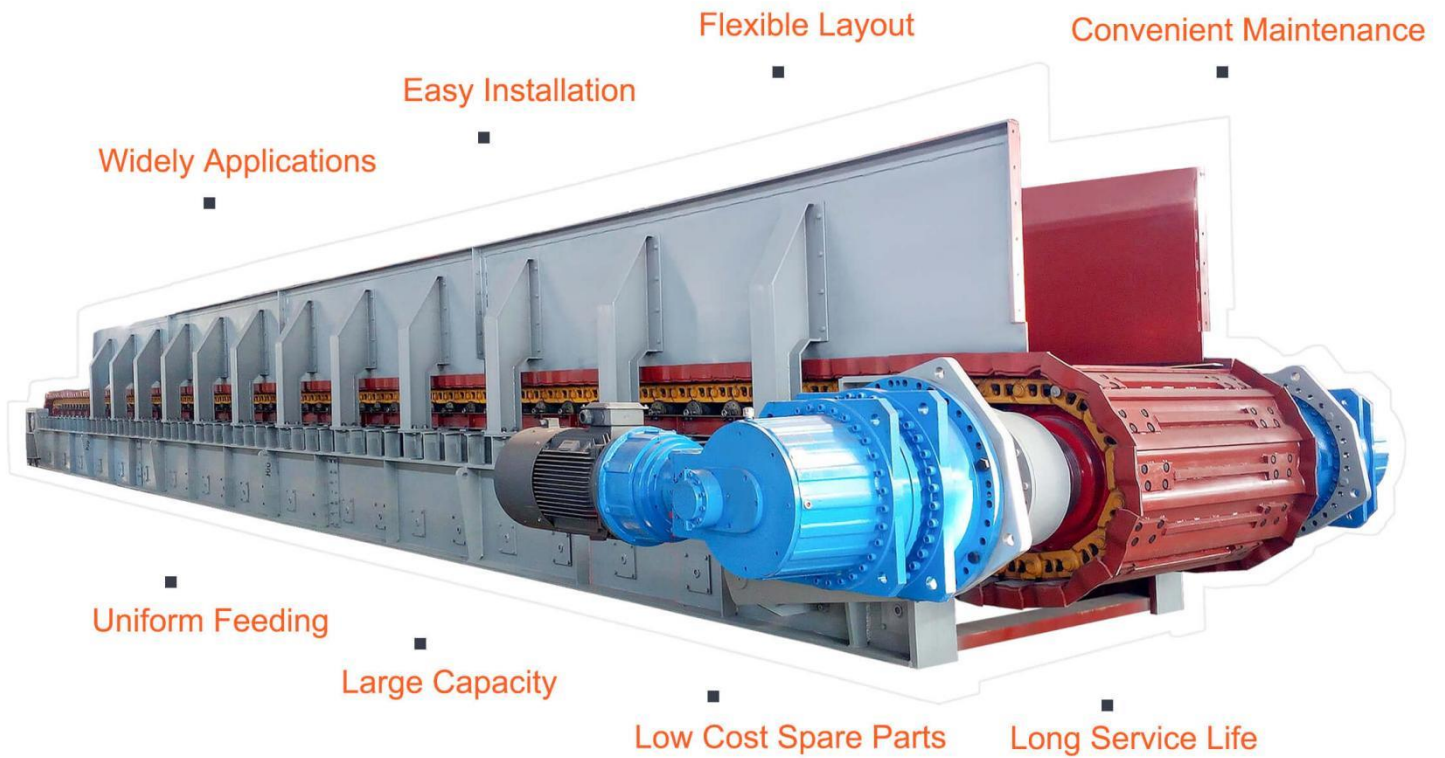


MATL

HANDLING MATERIALS



APRON FEEDER FEATURES



Heavy-duty ribbed pans are standard, avoiding excessive deflections under high-impact loading & severely abrasive working conditons.



Cast segmental track chain bolted to heavy steel hubs keyed to oversized front drive shaft.



Standard crawler-type under carriage parts have a long service life.



Rugged steel support frame with impact rails to limit pans deflection, thus eliminating permanent bending of the pans.

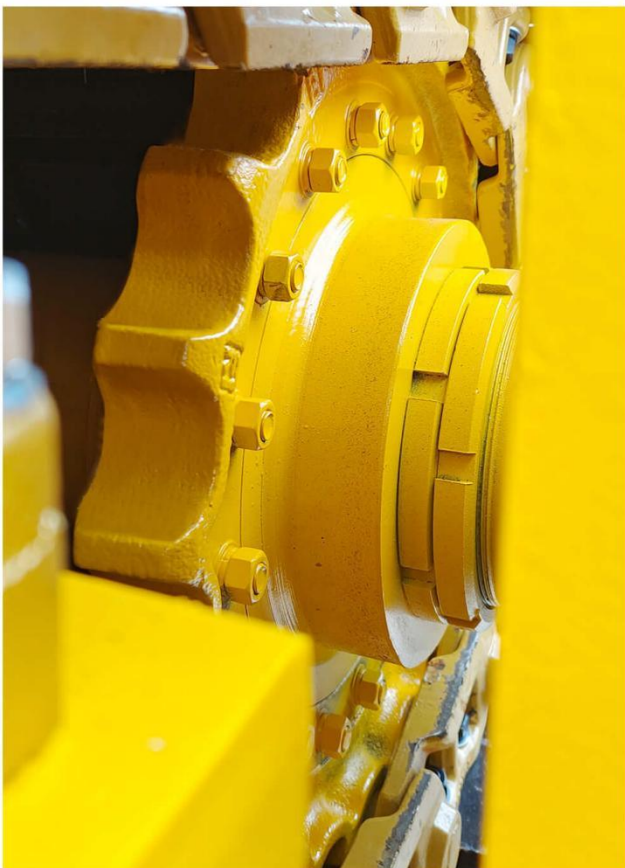


The heavy-duty design delivers high availability, ease of operation, low maintenance and operational costs and greater profits.

APRON FEEDER SPARE PARTS DETAILS & FEATURES

Pans

According to different working conditions, we will choose the most suitable design to meet your requirements. For example, we use manganese pans to replace cast steel pans, with a longitudinal center rib, avoiding excessive deflections under high-impact loading and severely abrasive working conditions.



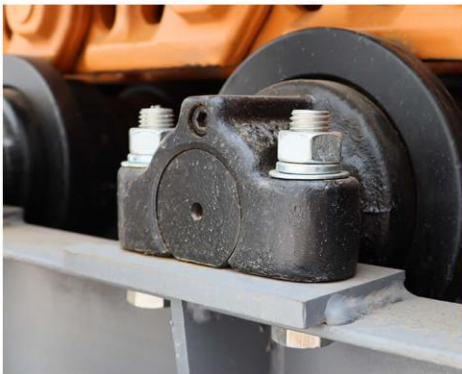
Sprocket

Sprocket design features three cast manganese alloy steel segments that allow replacement of one segment at a time, without needing to dismantle the feeder or remove the chain, pans, skirts and material on the feeder.

Rather than taking multiple shifts to change out the drive sprockets, the upgraded design allows a changeout in just hours. In addition, a half-tooth design with an odd number of teeth is used to allow contact with the chain during every second revolution, which doubles the life of the sprockets.

Chains

The track chain is used in our apron feeder, because the pin and bush are made of heat-treated alloy steel. To withstand greater weight, the chain link is made by drop forging, which can effectively prevent the external sands entering, thus, prolong the chain life.



Support Roller

Single flange tractor type rollers are mounted on support members in groups of 2 to 4 units to make disassembly and replacement easier.

PRODUCT
QUALITY INSPECTION

Rotate Speed Test





Coat Thickness Testing



Flaw Detection

Temperature Rise Testing



Noise testing

SPECIFICATIONS

Apron Feeder Technical Specifications

Model	Pan width (mm)	Speed (m/s)	Max feeding size (mm)	Rail (pcs)	Capacity (m ³ /h)	Length (m)
BL800	800	0.01~0.25	350	/	50~350	2~15
BL1000	1000	0.01~0.25	470	1	100~510	3~20
BL1200	1200	0.01~0.2	650	1	120~595	3~20
BL1400	1400	0.01~0.2	680	2	140~850	6~20
BL1600	1600	0.01~0.2	700	2	320~1300	6~20
BL1800	1800	0.01~0.15	800	2	500~1560	8~20
BL2000	2000	0.01~0.15	1000	3	500~1850	8~20
BL2400	2400	0.01~0.15	1500	3	500~2700	8~20
BL2800	2800	0.01~0.15	1800	4	1000~4000	10~20



Committed To Be Leader
In Bulk Material Handling

CONTACT US

 +86 373 5828866

 +86 18153098776

 info@exctmach.com

 <https://www.exctmach.com>

Henan Excellent Machinery Co.,Ltd