

APRON FEEDER BROCHURE

Henan Excellent Machinery Co.,Ltd.

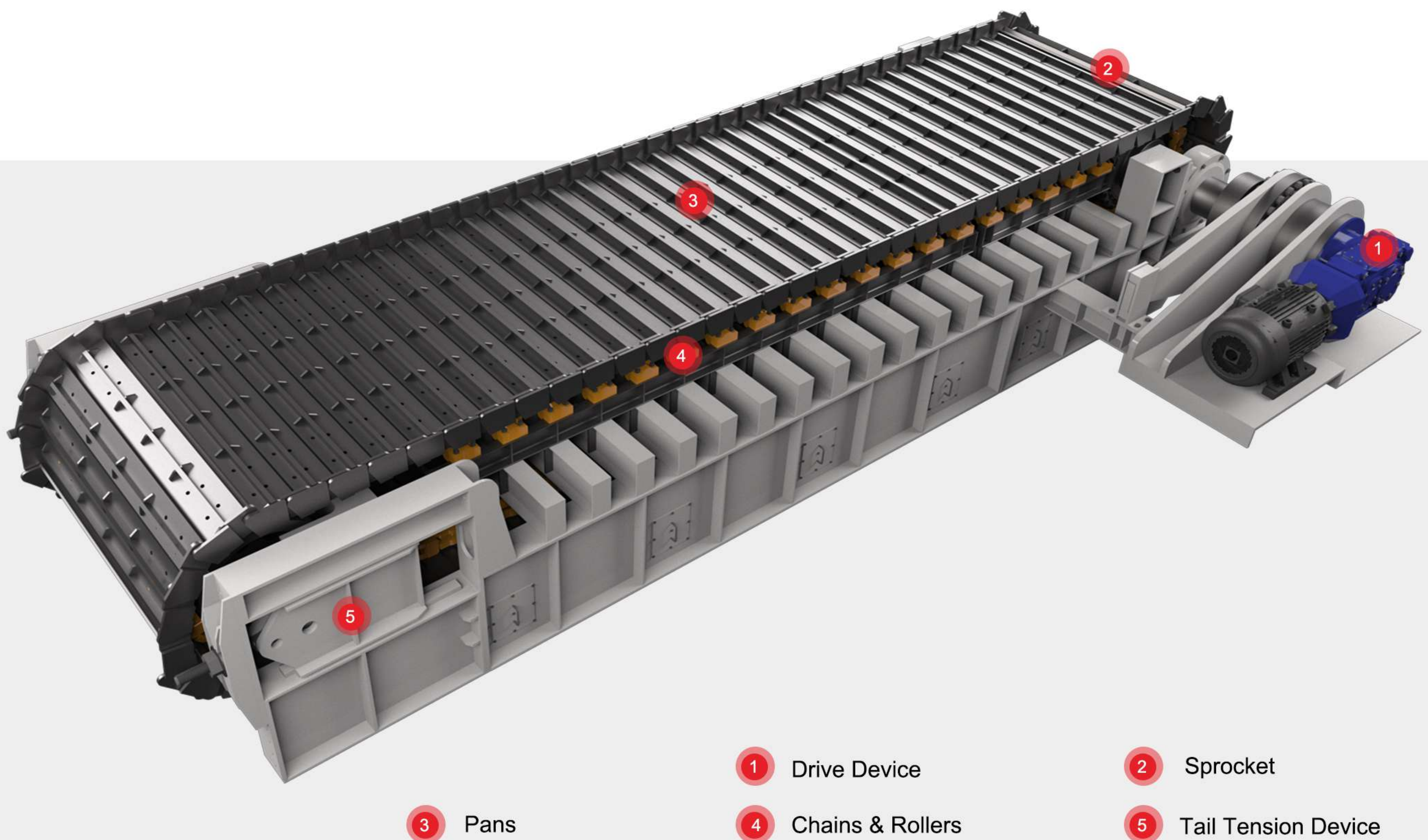
APRON FEEDER

STRUCTURAL

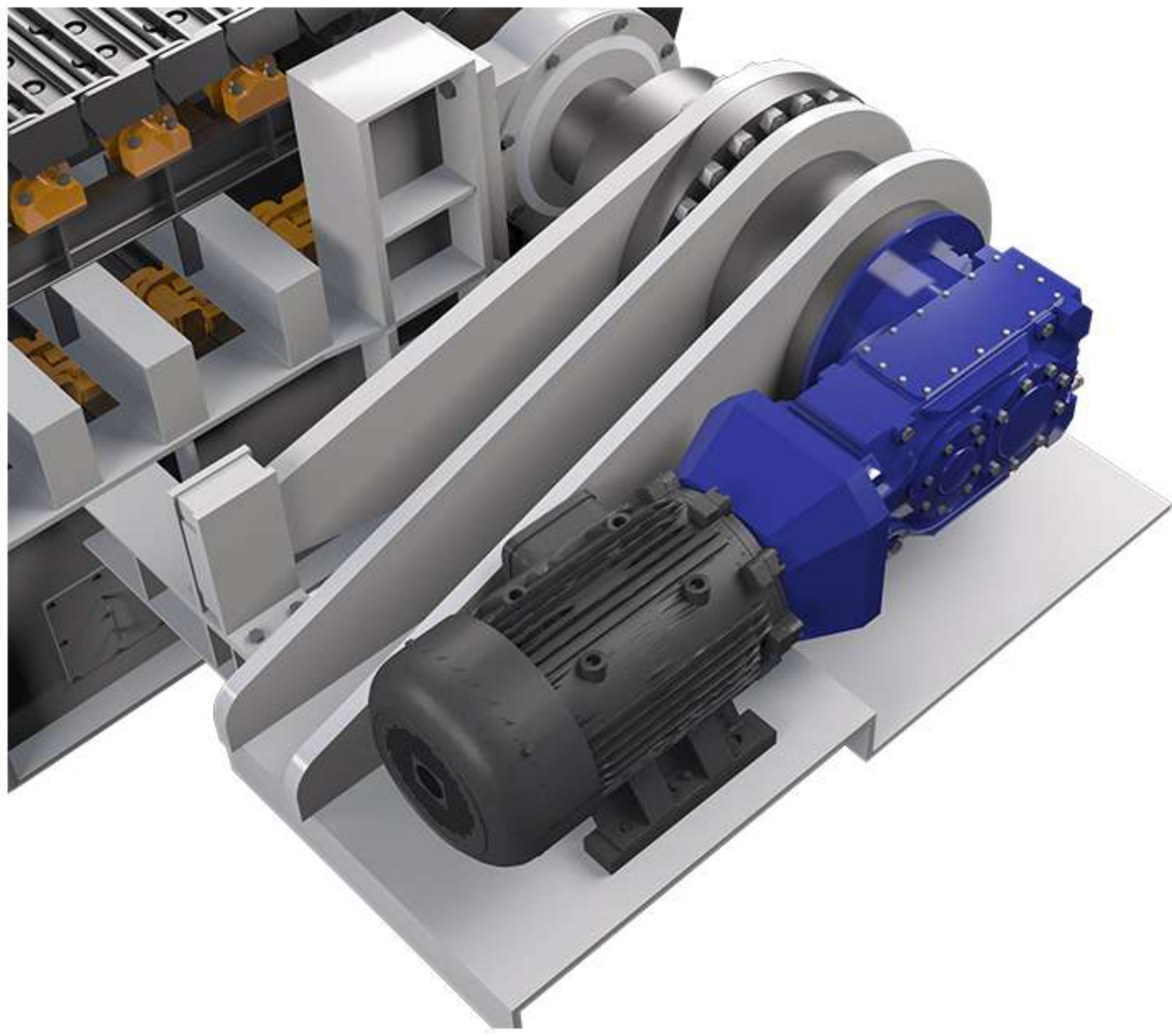
Apron Feeders are a reliable feeding method used to feed a wide variety of applications. It is suitable for heavy loads and high impact materials and delivers the material at a uniform rate to achieve optimal feeding of downstream equipment.

Apron feeders are suitable for conveying lumpy, abrasive, heavy, high temperature materials such as mining, quarrying, coal, cement and other mineral processing applications.

Apron Feeder consists of drive device, sprocket assemble, pans, chains&rollers, tail tension device, support frame, lubricating device,etc.



When the head sprocket is driven, the traction chain in the pan- chain device meshes with the sprocket to drive the entire pans to move along the longitudinal center-line and the roller travels along the track fixed on the frame, thereby completing work.



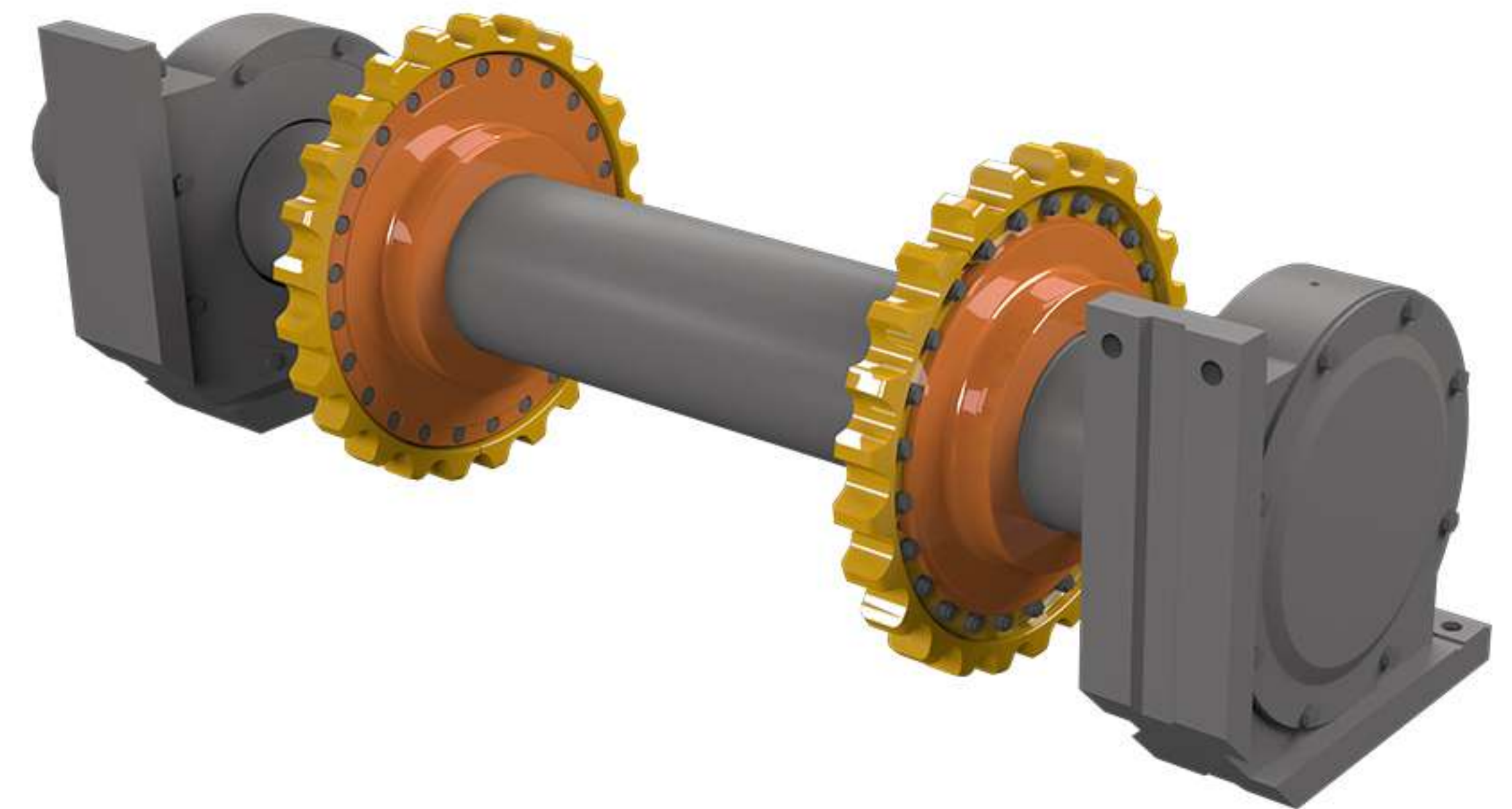
➤ Drive Device

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

The main components of the drive device can choose Siemens, ABB, Sew, Flender and other well-known domestic and foreign brands of motor and gearbox, to provide stable and continuous kinetic energy output, with high efficiency, low noise, low vibration and other characteristics.

➤ Sprocket

Cast manganese segmental sprockets bolted to heavy steel hubs keyed to oversized front drive shaft. The segmental sprockets can be replaced in a very short time without needing to dismantle or remove other parts of the feeder.



➤ Pans

The pans bolted to the chain with high strength bolts and nuts, which can be replaced individually in situ without disturbing the rest of the apron feeder.

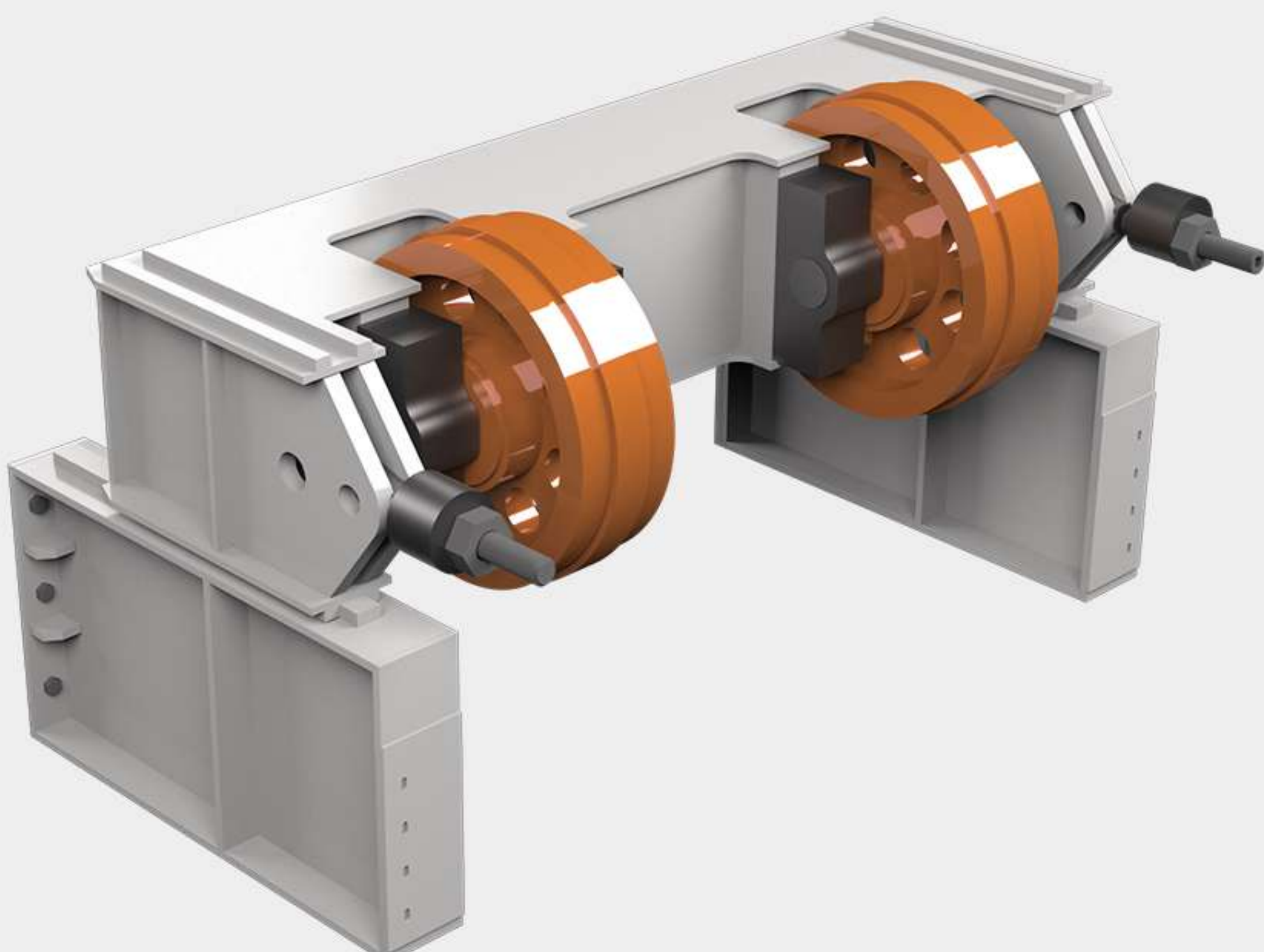
According to different working conditions, apron feeder can choose heavy duty cast manganese steel or welded construction with ribbed reinforcements, which is suited for materials with high load and high impact conditions.

➤ Chains & Rollers

The chain uses an off the shelf dozers chain (Track chain), which is characterized by small pitch error, smooth movement, high strength, large pulling force, and the chain has a self-lubricating device and a sealing device.

The rollers are designed as a standard tractor rollers with sealed and lifetime lubricated bearings, mounted on the main feeder frame. The rollers has suitably spaced to provide adequate support for the chain assembly.

The Chains & Rollers can use world famous brands according to customer needs, such as Caterpillar, Komatsu, and Shantui.



➤ Tail Tension Device

The tension device is used to tighten and adjust the horizontal position of the chain to ensure that the chain tightness is moderate and make it run smoothly.

When the pans are suddenly impacted by the material, the composite spring can play a buffer role to protect the pans and other components from damage.

APRON FEEDER FEATURES

- Flexible Layout
- Easy Installation
- Widely Applications
- Convenient Maintenance
- Uniform Feeding
- Large Capacity
- Low Cost Spare Parts
- Long Service Life

KEY BENEFITS



Rugged steel support frame with impact rails to limit pans deflection, thus eliminating permanent bending of the pans. And it can withstands all loading conditions during starting and operation.



Apron feeders can be installed in both horizontal and inclined applications. The high inclination also allows to build compact installations and reduce the length of the apron feeder, thus keeping the investment costs low.



Apron feeder with optional frequency converter, and it can change the speed of the main motor, thereby changing the chain speed, which can achieve the purpose of adjusting the handling capacity of the apron feeder.



The core components of the apron feeder have a long service life and minimal maintenance, which reduces downtime and increases productivity, thereby increasing profitability.



MAIN APPLICATIONS

FOR APRON FEEDER



— Crusher Feeding

One machine covers full range of materials, such as cement, iron ore, 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

HANDLING MATERIALS

- Cement
- Coal
- Limestone
- Copper
- Iron Ore
- Overburden

- Sand
- Aggregate
- Gravel
- Gold
- Nickel
- Silver

- Kimberlite
- Bauxite
- Potash
- Lignite
- Clay
- Clinker

- Gypsum
- Coke
- Gangue
- Uranium Ore
- Oil Shale
- Quartzite

SUCCESSFUL CASE



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APRON FEEDER

TECHNICAL SPECIFICATIONS

Model	Pan width (mm)	Speed (m/s)	Max feeding size (mm)	Rail (pcs)	Capacity (m³/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

APRON FEEDER

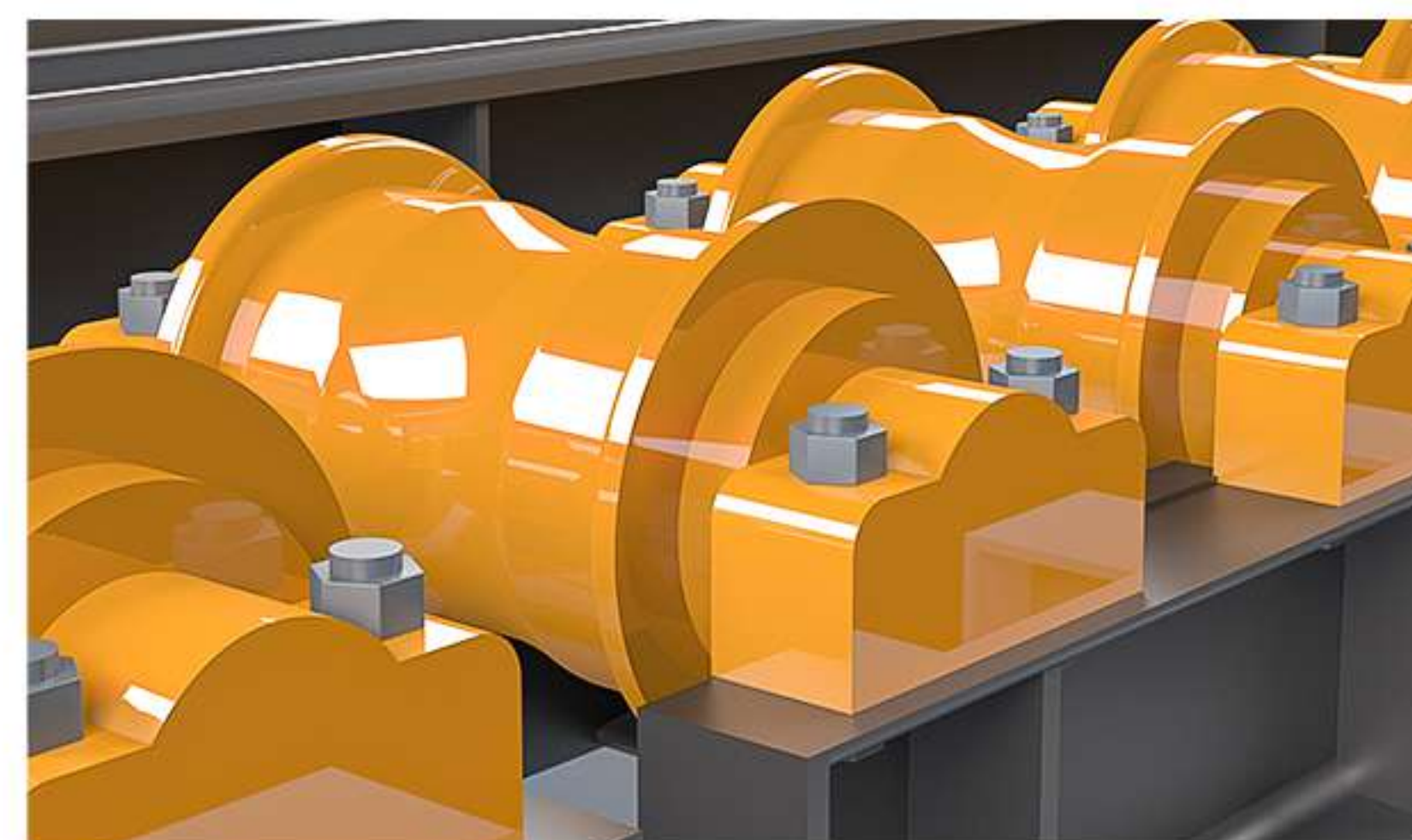
SPARE PART



➤ Pans



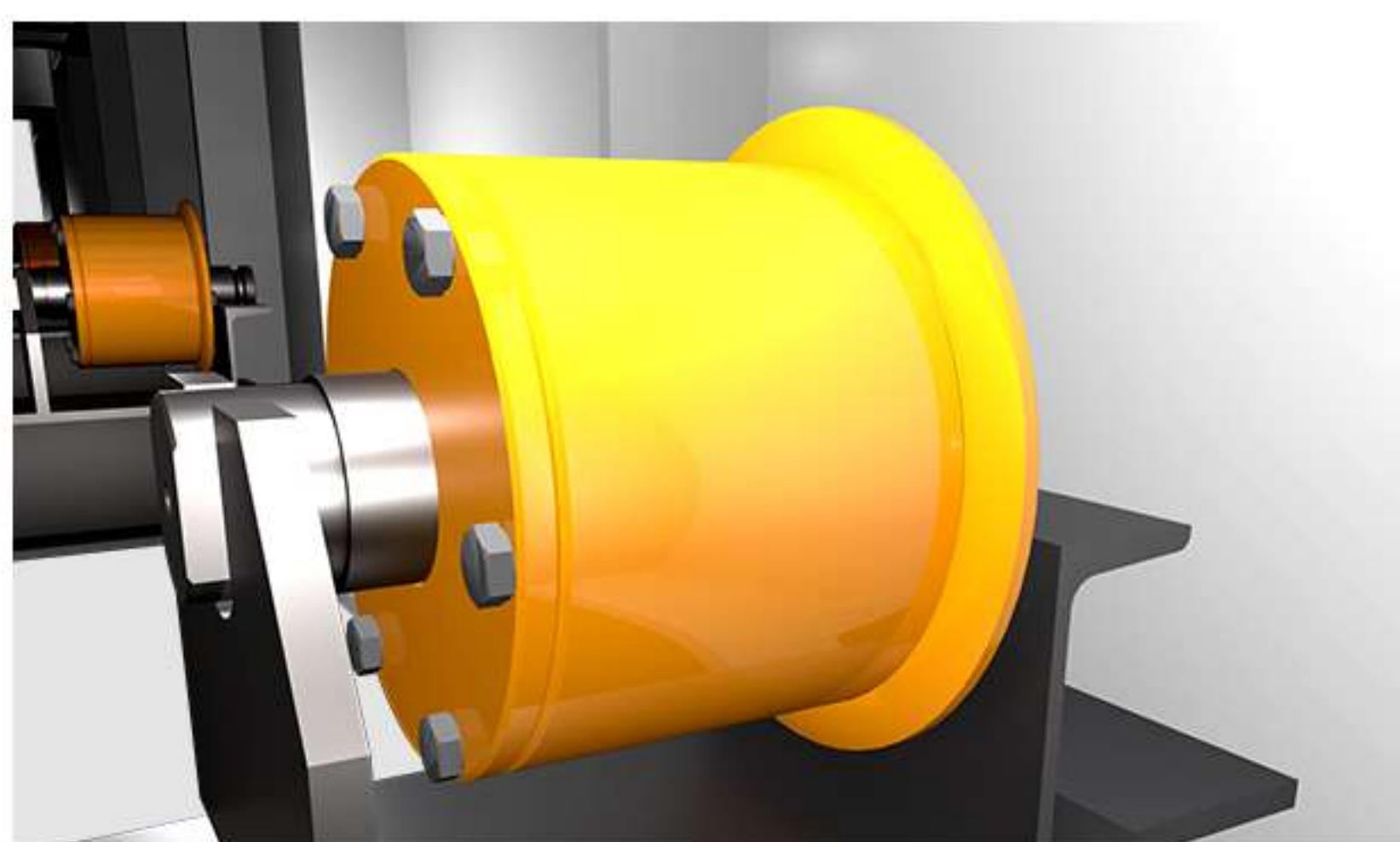
➤ Chains



➤ Rollers



➤ Bearings



➤ Return Roller



➤ Tooth Ring

ADEQUATE SPARE PARTS

We have a perfect warehouse management system and spare parts reserve, which can quickly provide spare parts when customers need them, reduce equipment downtime and save operating costs.





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