

**HAZEMAG**



**HAZEMAG Apron Feeders | HAF**  
**HAZEMAG Spillage Chain Conveyors | HCC**





## HAF | HCC – low-wear and high-output conveyor capacities

### Application

HAZEMAG apron feeders HAF are used for feed hopper discharging in primary crushing plants as a loading or discharging conveyor e.g. in the cement and raw material industry. Conveying capacities of up to 4.000 t/h with piece sizes of 3 m<sup>3</sup> are possible.

### Equipment

The apron feeder consists of heavy-duty tractor-type chains, on which the apron pans are mounted. The chains run on support rollers that are mounted to the apron feeder frame. They are driven by chain sprockets and tensioned either mechanically or hydraulically.

### Operation method

The material on the apron feeder is transported by the moving pans and chains. Thus there is no relative movement between the material and the aprons, resulting in low-wear operation.

### Tractor-type chains

The chains are heavy tractor-type chains, equipped with lifetime-lubricated links. Tensioning of the tractor chains is done via a tensioning shaft. Depending on the apron feeder size, it is either mechanically or hydraulically tensioned.

### Apron feeder pans

An apron feeder pan is bolted to each link of the tractor chain. Every second plate is equipped with a carrier; this secures the material transport. The apron's specific contour assures that only very little material finds its way into the inside of the apron feeder.

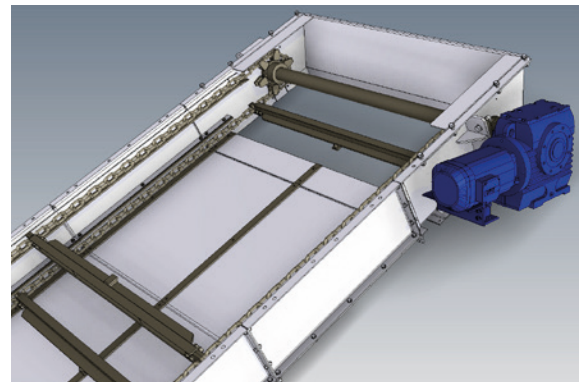
### Support rollers / return rollers

The support rollers are bolted to the frame's upper side and are lifetime lubricated. The tractor chain moves on these rollers. In the bunker feed-in area, support rollers are mounted on shock-absorbers to reduce the shock loads on the apron feeder construction during tipping.

The lifetime lubricated return rollers carry the outside edge of the apron feeder pans on the lower side of the frame.

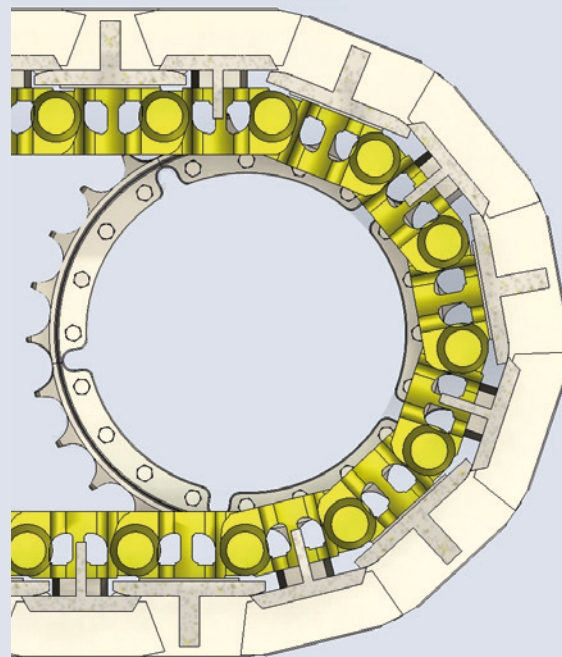
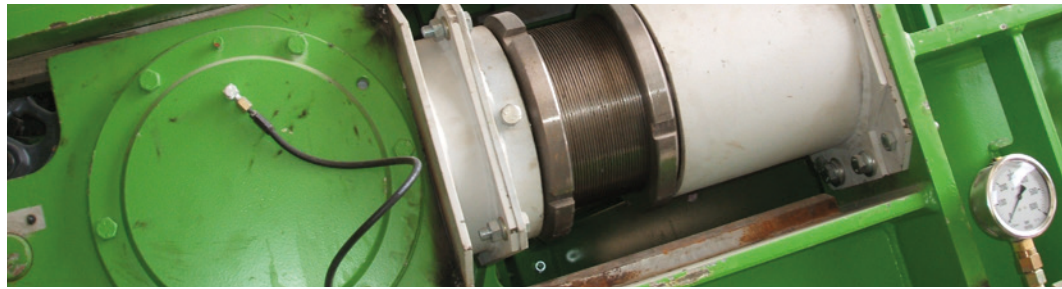
### Slide rails

Slide rails are mounted under the apron feeder pans along the length; additional lubrication is not necessary. Furthermore in the input area, additional slide rails are attached in order to absorb shock loads.



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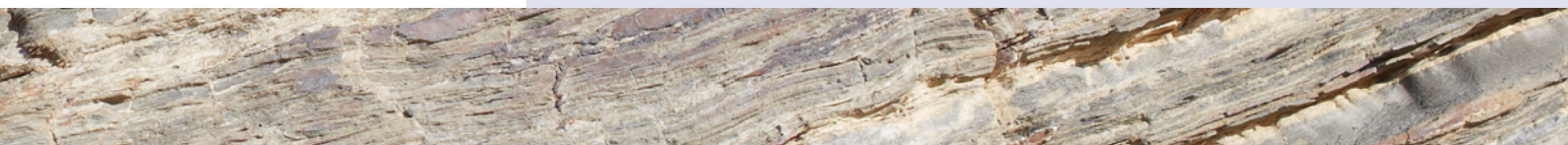
HAZEMAG Tractor-type chains with chain sprocket segments | HAF

#### **Drive unit**

The apron feeder is driven either electro-mechanically or hydraulically. The conveying speed is infinitely adjustable; a back stop prevents the feeder from moving backwards.

#### **Protection guards**

The protection guards consist of easy-to-remove protective covers that are mounted on the apron feeder frame. The moving parts of the drive unit are protected from unauthorised access. Furthermore, the operation of the apron feeder is continuously monitored by a speed monitor.





## Apron feeders and spillage conveyor – HAZEMAG is the specialist

HAZEMAG HAF		
Machine*	Width [inch]	Chain type
HAF 10xxx	40	D3
HAF 12xxx	47	D3
HAF 14xxx	55	D5
HAF 16xxx	63	D5
HAF 18xxx	70	D5/D7
HAF 20xxx	80	D4/D7
HAF 22xxx	87	D7
HAF 25xxx	100	D8/D9

### Skirtings

The sidewalls serve as the skirtings, which are located above the apron feeder between feed hopper and apron feeder discharge. A special feed hopper design together with the transport of the material leads to a certain layer thickness. The skirtings of the apron feeder are designed according to the expected layer height.

### Spillage conveyor HCC

The spillage conveyor is a chain conveyor mounted directly on the apron feeder. Some rest material adheres to the apron feeder pans. This material falls off on the return side.

The apron feeder and the spillage conveyor form a unit, but are to be operated independently.