Milenyum Conveyor

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TECHNICAL DATASHEET

Vertical Chip Crusher KB

KB 10 – KB 49: crushes bushy swarf into short chips at a continuous rate



Milenyum Conveyor Makina Sanayi ve Ticaret Ltd. Şti.
Pazarsuyu Köyü 2, OSB Mevkii, 5. Cadde No:23, 28100 Bulancak / Giresun
Türkiye

+90 539 507 38 28
info@milenyumconveyor.com
www.milenyumconveyor.com

1. Description

Milenyum crushers accept, crush and break up bushy swarf in the swarf hopper. At a low rotating speed the swarf is cut into small pieces at a continuous rate. The crushers are versatile: at the same time they act as swarf silos and flow levellers. They can accept large quantities and reduce the swarf to an even flow of chips, which makes them ideal for installation in a swarf handling system.

The crusher is used where the amount of swarf is an issue and before long swarf is extracted, centrifuged or briquetted. An integrated bar-end rejector ensures high functionality and efficiency of the system.

2. Why crush chips?

Long and tangled chips from turning, milling or drilling are difficult to handle. Crushing turns them into smaller, manageable pieces and improves waste management:

- **Shredding capability** – long and tangled chips are broken into small pieces.
- **Fast and efficient operation** – optimises production processes.
- **Integration** – can be combined with chip conveyors and chip handling systems.
- **Waste reduction** – small chips are easier to handle and to recycle.
- **Bar-end rejection** – increases operating reliability.

Chip crushers are commonly used in chip management systems of metalworking plants, automotive manufacturing and other industrial facilities.

3. Working method

The swarf is fed into the hopper at the top of the crusher. Angled cutters are bolted to the sides of the conical hopper. On top of the rotating shaft there is a feeding arm with hard-welded cutters. On the shaft there is a rotating crusher head and an outer stationary crusher ring.

The swarf is broken into short pieces and fed successively down through the crushing chamber, where the fine crushing takes place in the lower part. After crushing, the chips are discharged through a chute in the frame.

> Keep the hopper well filled; otherwise long swarf may pass through the crushing tools.

To prevent solid parts such as shaft ends or bolts from jamming the crusher, it is equipped with divisible tools. If the crusher head is blocked by a solid part, the crusher stops automatically and reverses. One segment of the crusher ring opens and the part passes through the opening. The crusher stops, the opening in the ring is closed by a hydraulic cylinder and the crusher restarts automatically in the forward direction.

4. Models and features

Models	KB 10, KB 20, KB 30, KB 49
Bar-end rejector	standard on all models
Protection against solid parts	divisible tools, automatic stop, reverse and hydraulic ring opening
Function	crushing, buffer silo and flow levelling

- Very low operating costs
- Versatile loading
- High reliability
- Low noise level

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