Mining Construction
Conveyors

We produce almost 50 types of conveyor with various frame constructions. They are built from our modules, which have been developed from our years of experience. Safety is especially important for us; our equipment is provided with covers, guards, material deflectors and emergency switches.

We can produce the conveyors according to the requirements of the customer.

Vibrating feeders

We install vibrant feeders into applications where the continuous and equable feeding of material is important. They can be opened, covered or tube designed. The frame of the machine is a welded, stiff steel case. It is driven by 2 vibrator motors or one vibrant magnet. The installation angle is mainly between 0 and 8 degrees. Optionally it can be supplied with frequency or capacity controller.

Dimensions – width: 250–1500 mm
Length: 1000–6500 mm

The dimensions of the plant vary according to the demand.
Floating conveyor belts

Length: 200 m
Transport capacity: 200 t/h
Customer: Holcim
Elevators

We produce mobile as well as fixed sorter machines. Our plants can be used for either dry or wet operations. The typical working areas are gravel pits, stone and sand mines, and for the sorting of coal, coke and other loose materials. The screen frame is built of two bent side walls and cross binders. The driving shaft is driven by an asynchronous motor through the cardan shaft. (On request it can be made with a hydraulic drive.) The shaft bearing can be oil or grease lubricated. We use only SKF bearing units for shaft bearings. The material of the sieve plates can be made of plastic or metal.

Available with 1, 2, 2.5 or 3 or 4 decks.
Dimensions:
 Width: 800–3000 mm
 Length: 1000–7000 mm
The dimensions of the plant vary according to demand.

<table>
<thead>
<tr>
<th>Bucket width b (mm)</th>
<th>160</th>
<th>200</th>
<th>250</th>
<th>315</th>
<th>400</th>
<th>500</th>
<th>630</th>
<th>800</th>
<th>1000</th>
<th>1250</th>
</tr>
</thead>
<tbody>
<tr>
<td>Transport capacity (m³/h), bucket DIN 15 234</td>
<td>13.5</td>
<td>21</td>
<td>33</td>
<td>53</td>
<td>77</td>
<td>120</td>
<td>191</td>
<td>268</td>
<td>428</td>
<td>555</td>
</tr>
<tr>
<td>Transport speed (m/s)</td>
<td>1.3</td>
<td>1.3</td>
<td>1.32</td>
<td>1.32</td>
<td>1.4</td>
<td>1.5</td>
<td>1.55</td>
<td>1.6</td>
<td>1.66</td>
<td>1.66</td>
</tr>
<tr>
<td>No. of revolution about (1/min)</td>
<td>50</td>
<td>50</td>
<td>40</td>
<td>40</td>
<td>38</td>
<td>36</td>
<td>33</td>
<td>30</td>
<td>25</td>
<td>25</td>
</tr>
<tr>
<td>Drum diameter ØD (mm)</td>
<td>500</td>
<td>500</td>
<td>630</td>
<td>630</td>
<td>710</td>
<td>800</td>
<td>900</td>
<td>1000</td>
<td>1250</td>
<td>1250</td>
</tr>
<tr>
<td>Length of cylinder cover L (mm)</td>
<td>250</td>
<td>295</td>
<td>400</td>
<td>490</td>
<td>610</td>
<td>720</td>
<td>850</td>
<td>1040</td>
<td>1240</td>
<td>1500</td>
</tr>
<tr>
<td>Width of bolt B (mm)</td>
<td>180</td>
<td>220</td>
<td>280</td>
<td>350</td>
<td>450</td>
<td>550</td>
<td>700</td>
<td>850</td>
<td>1050</td>
<td>1300</td>
</tr>
<tr>
<td>Distance of buckets T (mm)</td>
<td>335</td>
<td>335</td>
<td>400</td>
<td>400</td>
<td>425</td>
<td>475</td>
<td>580</td>
<td>600</td>
<td>670</td>
<td>750</td>
</tr>
</tbody>
</table>
Complete gravel processing plant

Capacity: 250 t/h
Customer: Argon-Ker Ltd.
**Dewatering screens**

The dewatering screens can be used mainly for the dehydration of sand (0–4 mm) or other wet material. We install the machines at 5° into the direction of the material flow because of maximal dehydration.

The dewatering surface consists of plastic sieves, which are changeable. The screen is supported at four points with rubber springs. It is driven by two vibrator motors, which work counterrotating.

Dimensions:
- Width: 800–2000 mm
- Length: 1000–5000 mm
- The dimensions vary according to demand.

**Gravel washers**

Uni- and biaxial gravel washers are offered to gravel mines where the gravels are rather dirty with clay. The clay can be dissolved in the water only with strong rubbing. Gravel washers trigger this effect during operation.

Loading happens in the back part of the gravel washer. HARDOX swords installed spirally on the shaft push the gravel forward continuously in the trough, which is built in 8 degrees. The thoroughly washed gravel comes out of the washer through a slide in the fore part of the trough. During operation the material moving forward is washed by spouts from above and from below. The upper washing unit mainly cleans the gravel transported in the trough, while the lower insufflators facilitate the wood and coal like materials to get onto the surface so they leave the trough with the muddled water.

**Sand washers**

Sand washers produced by 3B Hungaria are mainly for gravel mines. During wet screen the sandy water is drained to the trough. After the intake the bucket wheel lifts part of the watery sand immediately, the other part (the finer fractions) settle continuously in the trough. The spiral fixed to the shaft continuously pushes the settled sand towards the bucket wheel and then it is lifted with the buckets.

The muddled water flows away from the trough through the waste-weir at the other end and gets into the muddled pipe.

**Types for various applications:**
- S Va/F – This design is with external discharge without dewatering screen.
- S VIE – It is with internal discharge, dewatering performs through a dewatering screen, which is installed on the sandwasher.
- SD – This sandwasher is designed with double bucket wheels. It is a sandwasher, which has two independent drive for separate 0/4 and 0/1 sand in one basin in the same time.
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