Functional Description

The major components of the BinEX are the free-spinning inner cone (3), the silo floor (5), the discharge arm (2) and the drive system (6). The complete BinEX unit is bolted underneath the silo. The silo floor (5) has a central outlet opening (4), which is covered by the inner cone (3). An angle of repose forms naturally beneath the cone, preventing uncontrolled bulk-material flow.

The discharge arm (2) rotates and conveys the bulk material to the central outlet (4). The material flow-rate is determined by the speed of the discharge arm. Bulk material build-ups at the corners between the silo wall and floor are avoided by the special undercut design of the BinEX silo floor.
**Technical Data**

Discharge Capacity 1... 1000 m³/h

<table>
<thead>
<tr>
<th>Nominal–dia.</th>
<th>1600</th>
<th>2000</th>
<th>2500</th>
<th>3150</th>
<th>4000</th>
<th>5000</th>
</tr>
</thead>
<tbody>
<tr>
<td>D1</td>
<td>430</td>
<td>530</td>
<td>625</td>
<td>800</td>
<td>1000</td>
<td>1250</td>
</tr>
<tr>
<td>D2</td>
<td>1600</td>
<td>2000</td>
<td>2500</td>
<td>3150</td>
<td>4000</td>
<td>5000</td>
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<tr>
<td>D3</td>
<td>1700</td>
<td>2100</td>
<td>2600</td>
<td>3250</td>
<td>4100</td>
<td>5100</td>
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<tr>
<td>D4</td>
<td>1860</td>
<td>2300</td>
<td>2800</td>
<td>3450</td>
<td>4100</td>
<td>5100</td>
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<tr>
<td>D5</td>
<td>800</td>
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<td>1575</td>
<td>2000</td>
<td>3000</td>
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<td>D6</td>
<td>1785</td>
<td>2220</td>
<td>2710</td>
<td>3350</td>
<td>4190</td>
<td>5220</td>
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<td>D7</td>
<td>23</td>
<td>23</td>
<td>27</td>
<td>27</td>
<td>27</td>
<td>27</td>
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<tr>
<td>Number of bolts</td>
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<td>60</td>
<td>72</td>
<td>96</td>
<td>108</td>
</tr>
<tr>
<td>h1</td>
<td>160</td>
<td>200</td>
<td>250</td>
<td>315</td>
<td>400</td>
<td>500</td>
</tr>
<tr>
<td>h2</td>
<td>400</td>
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<td>1000</td>
</tr>
<tr>
<td>h3 (for 25°)</td>
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<td>1572</td>
<td>1965</td>
<td>2564</td>
<td>3145</td>
<td>4217</td>
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</table>

* Other sizes up to 8 m Ø on request.
Solutions for bulk materials handling:

Product Range:
- Engineering; Planning; Design; Manufacturing; Installation and Commissioning for single machines and complete plants
- Bulk Material Testing
- Silo and Bunker Discharge Systems
  BinEX, PlanEX Silo Dischargers, Bunker Discharge System
- Conveying and Handling Systems for Bulk Materials
  Truck Unloading Station, Trailer Docking Station, Chain Conveyors, Screw Conveyors, Belt Conveyors
- Silos and Steelwork

Industries:
- Cement, Lime and Gypsum
- Power (including Alternative Fuels)
- Coal and Lignite
- Mining
- Chemical
- Food
- Steel, Foundries
- Environmental Protection, Sludge and Waste Handling

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