Belt-and-Bucket Elevator
Belt-and-Bucket Elevator MGEL

Application
• For vertical conveying of dry, floury and mealy, fine- and coarse-grained materials
• Material temperatures up to 70°C

Design
• Straightforward design
• Dust-tight housing – high degree of sanitation
• Easy maintenance
• Low operating energy consumption
• All elements of food-grade materials or with special coating (FDA-approved)

Optional:
• Stainless steel version

Safe operation and explosion control
• Off-track and zero-speed detectors
• Backstop
• Personal safety according to EU, UL and CSA safety standards

Optional:
• Antistatic, non-combustible plastic buckets
• Pressure relief
• Round, shock-pressure-resistant casings

Additional elements
• Belt installation device
• Inlet and outlet ports with dead box for reducing wear
• Aspiration connection

Surface finish Standard:
• Food-grade coat of paint, white NCS 1000
• Multi-layer anti-corrosion coat of paint for outdoor applications

Optional:
• Customized coat of paint

Elevator head
• Material deflection plate of wear-resistant steel
• Deflection tongues of abrasion-resistant rubber
• Split hood for easier installation and maintenance
• Backstop

Off-track detector
• Detection of operating trouble
• Monitoring to ensure safe operation and explosion control
• Prevention of damage to machine components

Easy installation and maintenance!

High conveying capacity with low power requirement!

Safe operation!
The right design for maximum throughput

Drive
- Direct-coupled gearmotor
- Can be attached on both sides
- Easy installation and maintenance
- Drives of 22 kW and higher are provided with electronic soft start device

Optional:
- Drive with frequency converter for maintenance

Tensioning section
- Can be opened on both sides
- Easy installation of belt and buckets
- Inspection window for monitoring operation
- Clean, safe, reliable design

Belts and buckets
- Suitable belting and correct number of buckets for any material and throughput
- Standard steel buckets for a wide variety of materials and easy spare parts management
- Belting of food-grade, antistatic, non-combustible rubber

Optional
- Buckets of antistatic, non-combustible plastic

Speed monitor
- Detection of operating trouble
- Monitoring to ensure safe operation and explosion control

Wide variety of applications!
Selection of elevator type

The correct selection and sizing of an elevator requires precise knowledge of the material conveyed and of its behavior during conveying. In addition, the required conveying distance must be considered for specifying the elevator. The maximum conveying capacity depends on the conveying elevation and the material characteristics.

The following chart shows approximate throughput ranges for materials with different conveying characteristics.

For the specific selection and determination of all relevant values, please contact our sales and engineering department.

Dimensions (mm)

<table>
<thead>
<tr>
<th>Model</th>
<th>A</th>
<th>B</th>
<th>C</th>
<th>D</th>
<th>E</th>
<th>F</th>
<th>H max (m)</th>
<th>Aspiration (m³/min)</th>
</tr>
</thead>
<tbody>
<tr>
<td>MGEL-250 x 150</td>
<td>881</td>
<td>638</td>
<td>553</td>
<td>183</td>
<td>753</td>
<td>267</td>
<td>37</td>
<td>-10</td>
</tr>
<tr>
<td>MGEL-320 x 190</td>
<td>1057</td>
<td>779</td>
<td>663</td>
<td>223</td>
<td>813</td>
<td>312</td>
<td>37</td>
<td>5–15</td>
</tr>
<tr>
<td>MGEL-400 x 240</td>
<td>1276</td>
<td>968</td>
<td>803</td>
<td>283</td>
<td>1003</td>
<td>381</td>
<td>44</td>
<td>10–20</td>
</tr>
<tr>
<td>MGEL-500 x 360</td>
<td>1692</td>
<td>1344</td>
<td>1053</td>
<td>423</td>
<td>1234</td>
<td>462</td>
<td>41</td>
<td>15–30</td>
</tr>
<tr>
<td>MGEL-630 x 440</td>
<td>1987</td>
<td>1519</td>
<td>1253</td>
<td>493</td>
<td>1606</td>
<td>760</td>
<td>62</td>
<td>20–40</td>
</tr>
</tbody>
</table>

Bühler AG
CH-9240 Uzwil, Switzerland
T +41 71 955 11 11
F +41 71 955 66 11
www.buhlergroup.com