CONVEYING YOUR GRAIN EFFICIENTLY & RELIABLY

Engineered for durability and added value

BROCK® Enclosed Roller-Belt Conveyor Systems offer you the added-value quality features and the rugged design needed for dependable conveyor operation:

- Galvanized steel construction.
- Dust- and weather-tight design for dependable, long-lasting operation.
- Capable of full-load starts.
- Each conveyor system is computer-matched to the proper motor drive and gear reducers needed for efficient, energy-saving operation.
- Unique, heavy-duty idler pulley design minimizes vibrations to provide smoother belt operation (see back page).
- Efficient, self-cleaning tail section also helps recapture any spilled grain from the belt.
- Inlets and head discharges are fully-lined for long life.
- Self-aligning, heavy-duty bearings mount on outside of conveyor’s housing for easy maintenance, longevity, and safety.
- Quick-release top panel allows easy conveyor maintenance access from one side. The panel’s raised center rib adds strength and helps shed moisture.
- A variety of belt widths and conveyor speeds are available (see back page).
- Optional features include enclosed gravity belt take-up, intermediate discharge units and other special use accessories.

2-way inlet for Brock’s reversing conveyor configuration

Pre-assembled and shipped in sections up to 40 feet (12 meters)

Tail Section
(with manual tightener)

Inlet Section

Intermediate Section

Head Section

5-ft. Center (1.5 meters)
**BELT CONVEYOR INTERMEDIATE DISCHARGE UNIT**

**Allows one conveyor to service many bins/silos**

With the BROCK® Intermediate Discharge Unit, one enclosed roller-belt conveyor system can easily service many bins or silos! It is grain conveying at its best. Here is why:

- Innovative, compact Brock design is just 16 feet (4.9 m) long and adds only 14 inches (356 mm) to the conveyor’s overall height. This efficient shape allows several intermediate discharge units to be positioned closely together.
- Actuator-controlled plow is remotely activated using electric controls to smoothly divert grain without interrupting material flow.
- Simple, economical design requires low horsepower to operate.
- BROCK Intermediate Discharge Unit can be retrofitted to existing BROCK Conveyor Systems – including reversing conveyors.
- Made of galvanized steel, these intermediate discharge units have a dust- and weather-tight design for dependable, long-lasting operation.

- Works with BROCK Enclosed Roller-Belt Conveyors in a variety of belt widths from 18 to 54 inches (457 to 1372 mm) and speeds from 100 to 700 feet per minute (.5 to 3.6 meters per second).
- Self-aligning, heavy-duty bearings mount on outside of intermediate discharge unit’s housing for easy maintenance, longevity, and safety.
- Also available are a wide variety of Brock storage bins and silos along with accessory components such as sidewall ladders and safety cages, sidewall doors, ventilation fans and heaters, dryers, sweeps, receiving pit dust control system, and others.
- Planning assistance available.

**How it works**

**STEP 1**: In by-pass operation, material flows through to the end of the conveyor.

**STEP 2**: In discharge operation, synchronized actuators raise belt support frame to flatten belt profile, and the curved discharge moldboard plow lowers into contact with conveyor belt to divert material and fines.

**STEP 3**: To return to by-pass operation, the discharge moldboard raises while the belt support frame lowers allowing the belt to return to its normal conveying profile.
**CONVEYOR SPECIFICATIONS**

**Able to convey most grains at angles of up to 25 degrees (18-degree incline shown). For steeper angles, contact Brock for recommendations.**

**Brock takes a balanced approach to conveyors**

A smooth-operating conveyor system happens only by design. To help you get an enclosed roller-belt conveyor that minimizes harmonic vibrations while also providing longer bearing life and smoother operation, Brock incorporated the following design features:

- All idler pulleys are dynamically-balanced at 400 and 800 revolutions per minute.
- All pulleys feature a full-length shaft with positive locking tapered bushing and keyed connection.
- Pulley and bearing shaft is 1-1/4-inch (32 mm) diameter for less deflection and longer conveyor life.
- Idler pulleys in the conveyor’s intermediate sections are mounted on 5-foot (1.5-meter) centers for efficient belt operation and less spillage between carrying and return belts.
- Conveyor loading section features pulleys mounted on 3-foot (914-mm) centers for more uniform belt loading.
- All idler pulleys are adjustable for belt training.
- A solid disk on the conical end of the pulley provides better support and prevents energy-robbing dust pockets.
- Head pulleys have replaceable slide lagging.
- Head and tail bearings are standard spherical roller bearings for easy maintenance and increased loads.

**CONVEYOR CAPACITIES**

<table>
<thead>
<tr>
<th>Model</th>
<th>Units</th>
<th>100 / .5</th>
<th>200 / 1.0</th>
<th>300 / 1.5</th>
<th>400 / 2.0</th>
<th>500 / 2.5</th>
<th>600 / 3.0</th>
<th>700 / 3.6</th>
</tr>
</thead>
<tbody>
<tr>
<td>18</td>
<td>Bu/Hr MT/Hr</td>
<td>1100</td>
<td>2300</td>
<td>3500</td>
<td>4600</td>
<td>5800</td>
<td>7000</td>
<td>8100</td>
</tr>
<tr>
<td>22</td>
<td>Bu/Hr MT/Hr</td>
<td>1700</td>
<td>3500</td>
<td>5300</td>
<td>7100</td>
<td>8900</td>
<td>10700</td>
<td>12500</td>
</tr>
<tr>
<td></td>
<td>Bu/Hr MT/Hr</td>
<td>2500</td>
<td>5100</td>
<td>7700</td>
<td>10200</td>
<td>12800</td>
<td>15400</td>
<td>18000</td>
</tr>
<tr>
<td>26</td>
<td>Bu/Hr MT/Hr</td>
<td>3200</td>
<td>6500</td>
<td>9800</td>
<td>13100</td>
<td>16400</td>
<td>19700</td>
<td>23000</td>
</tr>
<tr>
<td>30</td>
<td>Bu/Hr MT/Hr</td>
<td>4200</td>
<td>8500</td>
<td>12800</td>
<td>17100</td>
<td>21400</td>
<td>25700</td>
<td>30000</td>
</tr>
<tr>
<td>36</td>
<td>Bu/Hr MT/Hr</td>
<td>5700</td>
<td>11400</td>
<td>17100</td>
<td>22800</td>
<td>28500</td>
<td>34200</td>
<td>40000</td>
</tr>
<tr>
<td>42</td>
<td>Bu/Hr MT/Hr</td>
<td>6900</td>
<td>13800</td>
<td>20700</td>
<td>27600</td>
<td>34500</td>
<td>41400</td>
<td>48300</td>
</tr>
<tr>
<td>48</td>
<td>Bu/Hr MT/Hr</td>
<td>8200</td>
<td>16600</td>
<td>24700</td>
<td>33000</td>
<td>41200</td>
<td>49500</td>
<td>57800</td>
</tr>
</tbody>
</table>

**CONVEYOR DIMENSIONS**

<table>
<thead>
<tr>
<th>Belt Width</th>
<th>“A”</th>
<th>“B”</th>
<th>“C”</th>
</tr>
</thead>
<tbody>
<tr>
<td>INCHES MM</td>
<td>INCHES MM</td>
<td>INCHES MM</td>
<td></td>
</tr>
<tr>
<td>18</td>
<td>450</td>
<td>25</td>
<td>635</td>
</tr>
<tr>
<td>22</td>
<td>550</td>
<td>29</td>
<td>737</td>
</tr>
<tr>
<td>26</td>
<td>650</td>
<td>33</td>
<td>838</td>
</tr>
<tr>
<td>30</td>
<td>750</td>
<td>37</td>
<td>940</td>
</tr>
<tr>
<td>36</td>
<td>900</td>
<td>43</td>
<td>1092</td>
</tr>
<tr>
<td>42</td>
<td>1050</td>
<td>49</td>
<td>1245</td>
</tr>
<tr>
<td>48</td>
<td>1200</td>
<td>55</td>
<td>1397</td>
</tr>
<tr>
<td>54</td>
<td>1350</td>
<td>61</td>
<td>1549</td>
</tr>
</tbody>
</table>

---

Brock Grain Systems  
Chore-Time Brock International  
Divisions of CTB, Inc.  
Milford, IN • Kansas City, MO • Frankfort, IN  
Phone: 574.658.4191 or +1.574.658.9323 (International)  
Internet: www.brockgrain.com or www.ctbworld.com  
E-Mail: brock@brockgrain.com  
BR-2076/0108