LOAD TIERING DEVICE

DESCRIPTION

- Load Tiering Devices can be used with existing or new ACS conveyors and all competitors’ conveyors.

- The Load Tiering Device accurately aligns and tiers multiple stacks for efficient load building.

- Stacks entering the device are precisely centered according to overall length using electro-mechanical sensors and photo eyes as stacks are brought onto the device with a belt-driven entry drive and heavy-duty load-carrying chains.

- Electrically powered steel forks capable of lifting 1500 pounds (680kg) stacks extend from and retract into the device elevator enclosure while positioning and balancing multiple stacks.

- A Load Tiering Device can be operated manually or integrated into an automatic conveyor system. A control console is provided for safety functions, manual operation, troubleshooting and selection of automatic modes of operation.

FEATURES

- Load-carrying chains ride on individually adjustable UHMW guides cradled in steel guides eliminating chain derailment.

- All exposed sprocket and chain pinch points have been eliminated.

- Power train for the load-positioning section is contained inside the side frames to help avoid the possibility of accidental damage or personal injury.

- Lifting forks rest 1/2” (13mm) below the top of the load-carrying chains to avoid bottom sheet damage.

- The Lifting Elevator and Forks are designed to lift up to 1500 lbs. (680kg).

- Power train for the elevator and lifting forks is contained within the enclosure that is also equipped with safety interlocks / switches on all opening panels.
**SPECIFICATIONS**

<table>
<thead>
<tr>
<th>Vehicle Widths:</th>
<th>60&quot;, 72&quot;, 84&quot; and 96&quot; Between Frame (1.5M, 1.8M, 2.1M, and 2.4M)</th>
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</thead>
<tbody>
<tr>
<td>Minimum Height:</td>
<td>12&quot; Top-of-Roller (TOR) (305mm)</td>
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<tr>
<td>Maximum Single Stack Dims:</td>
<td>For 60&quot; LTD: 56&quot; (1.4M) Deep (from face of LTD) x 60&quot; (1.2M) Along Side Frame</td>
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<tr>
<td></td>
<td>For 72&quot; LTD: 72&quot; (1.8M) Deep (from face of LTD) x 60&quot; (1.2M) Along Side Frame</td>
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<tr>
<td>*Note: Maximum Single Stack Dimensions and Lifting Capacity are dependent upon type of product and are subject to reduction.</td>
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<tr>
<td>Load Lifting Capacity:</td>
<td>1,500 lbs per unit (681 kg per unit)</td>
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<tr>
<td>Load Conveyance Capacity:</td>
<td>3,000 lbs. per unit (1,361 kg per unit)</td>
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<tr>
<td>Chain Speeds:</td>
<td>40 or 60 FPM (12 or 18 MPM)</td>
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<tr>
<td>Motors:</td>
<td>1 HP Gear Motors—Conveyor Drive and Fork Extend / Retract</td>
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<tr>
<td></td>
<td>3 HP Gear Motor—Lifting Drive</td>
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</table>

**Construction:**

- Formed Steel and Steel Channel. Chain frame is precision CNC cut and formed sheet metal.
- Typically provided with five (5) ANSI #50 Load-carrying Chains pneumatically raised/lowered and electrically driven ("NO MAR" Plastic Chains optional).
- Tapered Steel: 36" (914mm) Long -or- 60" (1524mm) Long (60" for 72" BF or Larger)
- 2- 1/2" (64mm) diameter x 8 gauge high-strength, corrosion-resistant galvanized steel tubing placed on 3" (76mm) centers.

**Controls:**

- Reversing controls available
- Loads are identified and positioned according to overall length
- Anti-collision traffic controls operate automatically to control the intersection
- When selected by the operator, loads are held upstream for load entry

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*The typical Operator Control Console illustrated above is used for manual/automatic selection and control of the Tiering Device. The control console is located near the Tiering Device for easy operator access to control device actuation.*