MULTIPLE INDUSTRIES AND APPLICATIONS

Omni Metalcraft Corp’s Modular Plastic Belt conveyor line is an extremely versatile conveying solution that can satisfy a wide array of applications and industries.

- Positively sprocket driven
- Low tension drive
- Minimal maintenance
- Multiple material handling solutions

Green tire divert conveyor in the tire industry utilizing S400 Transverse Roller Top (TRT) Belting

Incline application in the warehousing and distribution industry utilizing S900 Friction Top Belting

Tight transfer application in material handling industry utilizing S1000 Flat Top Belting with a 1" nosebar
## Standard Modular Plastic Conveyor Series

**Valu-Line S400 Model Number Nomencalature**

<table>
<thead>
<tr>
<th>VALU-LINE S400 MODEL NUMBER NOMENCLATURE</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>VL400</strong></td>
</tr>
<tr>
<td><strong>BELT SERIES</strong></td>
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<tr>
<td><strong>BELT TYPE</strong></td>
</tr>
<tr>
<td><strong>BELT WIDTH</strong></td>
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<tr>
<td><strong>CONVEYOR LENGTH</strong></td>
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<tr>
<td><strong>BELT SPEED</strong></td>
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<tr>
<td><strong>HP</strong></td>
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<tr>
<td><strong>TOB</strong></td>
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<tr>
<td><strong>FT</strong> = FLAT TOP</td>
</tr>
<tr>
<td><strong>FG</strong> = INLINE ROLLER TOP</td>
</tr>
<tr>
<td><strong>FFT</strong> = TRANSVERSE ROLLER TOP</td>
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<tr>
<td>(Other belt types are available)</td>
</tr>
<tr>
<td>12&quot;, 18&quot;, 24&quot;, 30&quot;, 36&quot;, 42&quot;</td>
</tr>
<tr>
<td>(Other belt widths are available</td>
</tr>
<tr>
<td>in 1&quot; increments)</td>
</tr>
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**Download**

### Specifications:

**Construction:** Welded, powder-coated

**Frame:** 7½" x 1½" x 10 ga. formed channel with open style bed construction and UHMW wearstrips attached to vertical steel bars

**14" x 1½" x 10 ga. formed channel frames on VL1000 series when utilizing 1" nosebar option**

**Belt Takeup:** Catenary type located on belt return path

**Drive Sprockets:** 6" nom Ø, with 1½" square shafting

**Tail Sprockets:** 4" nom Ø, with 1½" square shafting

**Bearings:** Precision, heavy duty, lubricated ball bearing flange mount units with cast iron housings

**Drive Package:** Chain driven end drive, located at the discharge end (which allows for one direction operation) with Boston Gear worm gear speed reducer, and 230/460-3-60 Hz inverter duty motor. RC50 chain is utilized for 1 HP or less, and RC60 chain is utilized on larger HP drives. Chain takeup is provided on motor base.

**Leg Supports:** Welded 3" structural channel leg supports, providing ±2" of adjustment, on a maximum of 10" leg centers.

**SERIES 400**

- **Flat Top**
  - Medium pressure accumulation
  - Varied product foot print
  - Durable belt carcass

- **Inline Roller Top**
  - Low pressure accumulation

- **Transverse Roller Top**
  - 90 degree product transfer
  - Tire or package merging

**SERIES 900**

- **Flat Top**
  - Medium pressure accumulation
  - Varied product foot print
  - Durable belt carcass

- **Flush Grid**
  - Meat and poultry transportation
  - Fruit and vegetable transportation
  - Washdown applications

- **Friction Top**
  - Inclines and declines
  - Helps maintain product orientation
  - Increased grip on product
### VALU-LINE S1000 MODEL NUMBER NOMENCLATURE

<table>
<thead>
<tr>
<th>Series</th>
<th>Belt Width</th>
<th>Conveyor Length</th>
<th>Belt Speed</th>
<th>HP</th>
<th>TOB</th>
<th>NB = Nose Bar Option</th>
</tr>
</thead>
<tbody>
<tr>
<td>VL1000</td>
<td>4', 5', 6', 7', 8', 9', 10', 15', 20' (Other conveyor lengths are available)</td>
<td>60, 90, 120 FPM (Other speeds are available)</td>
<td>033 = 1/3 HP, 050 = 1/2 HP, 075 = 3/4 HP, 100 = 1 HP, 150 = 1 1/2 HP, 200 = 2 HP</td>
<td>24&quot; – 60&quot; w/±2&quot; ADJ (Other heights are available)</td>
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</tr>
</tbody>
</table>

### VALU-LINE S1400 MODEL NUMBER NOMENCLATURE

<table>
<thead>
<tr>
<th>Series</th>
<th>Belt Width</th>
<th>Conveyor Length</th>
<th>Belt Speed</th>
<th>HP</th>
<th>TOB</th>
<th>NB = Nose Bar Option</th>
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<tr>
<td>VL1400</td>
<td>4', 5', 6', 7', 8', 9', 10', 15', 20' (Other conveyor lengths are available)</td>
<td>60, 90, 120 FPM (Other speeds are available)</td>
<td>033 = 1/3 HP, 050 = 1/2 HP, 075 = 3/4 HP, 100 = 1 HP, 150 = 1 1/2 HP, 200 = 2 HP</td>
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### OPTIONS:

**Casters:**
- Casters are available for portability

**Drive Options:**
- Shaft mount reducer and motor, center driven (for reversing direction applications)

**Side Guides:**
- Valu-Guide® UHMW or bead rail guides, formed angle, formed channel, UHMW lined

**Electrical Controls:**
- Soft starts are recommended on all plastic belt conveyors, AC VFD controllers, DC motors and controllers

**Stainless Steel:**
- Conveyors are available in stainless steel materials for washdown applications or harsh environments

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**Flat Top**
- Capable of transfer over ¾" nosebar
- Superior mini-pitch belt strength
- Medium pressure accumulation

**Flush Grid**
- Medium pressure accumulation
- Great for glass applications
- Ideal for container handling applications

**Friction Top**
- Ideal for carrying medium to heavy loads
- Open design allows for water or small debris to fall through the belt
- Ideal for heavy duty applications needing additional product grip

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**SERIES 1000**

**SERIES 1400**

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For more information visit [www.omni.com](http://www.omni.com)
MODULAR PLASTIC BELT CONVEYORS BUILT FOR MULTIPLE INDUSTRIES AND APPLICATIONS

Elevation change application in the warehousing and distribution industry utilizing S2200 Radius Friction Top Belting

Hamburger bun flipping conveyor in the baking industry utilizing S100 Flat Top Belting

Sanitary feed conveyor in the food processing industry utilizing S1600 Flat Top Belting

90° Transfer and accumulation conveyor in the chemical industry utilizing S1400 Flat Top Belting

INDUSTRIES:
- Warehousing and distribution
- Snack food
- Bakery
- Beverage
- Can-container
- Fruit and vegetable
- Material handling
- Meat
- Poultry
- Seafood
- Tortilla

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