The Diebel Series Conveyors are designed to offer an economical method of transporting small, lightweight products. The overall profile is compact and the small diameter end rollers provide easy parts transfer from one convey to another. Options such as adjustable guide rails, sensor brackets, tight transfer end pulleys and transfer plates are available. The Diebel Series of aluminum frame conveyors is a low cost, ready to use solution for your automated systems needs.

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### Specifications

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<tr>
<td>Diebel Model #</td>
<td>D-1300</td>
<td>D-2300</td>
<td>D-3300</td>
</tr>
<tr>
<td>Drive Location</td>
<td>End &amp; Center</td>
<td>End</td>
<td>End</td>
</tr>
<tr>
<td>Lengths</td>
<td>1’ – 20’</td>
<td>1’ – 20’</td>
<td>1’ – 20’</td>
</tr>
<tr>
<td>Infeed Pulley/Roller Diameter</td>
<td>1.125”</td>
<td>2.250”</td>
<td>(2) @ 1.125”</td>
</tr>
<tr>
<td>Drive Pulley/Roller Diameter</td>
<td>1.125”</td>
<td>2.250”</td>
<td>2.250”</td>
</tr>
<tr>
<td>Drive Shaft Diameter</td>
<td>0.625”</td>
<td>0.625”</td>
<td>0.750”</td>
</tr>
<tr>
<td>Frame Depth</td>
<td>1.125”</td>
<td>2.480”</td>
<td>2.480”</td>
</tr>
<tr>
<td>Maximum Capacity</td>
<td>40#</td>
<td>80#</td>
<td>200#</td>
</tr>
<tr>
<td># of T-Slots</td>
<td>1</td>
<td>2</td>
<td>2</td>
</tr>
<tr>
<td>Motor Type</td>
<td>Gearmotor</td>
<td>Gearmotor</td>
<td>Motor &amp; Reducer</td>
</tr>
<tr>
<td>Belt Widths/Frame Style</td>
<td>2”, 4”, 6”, 8”, 12”, &amp; 18” BW’s Plate &amp; Rail Frame</td>
<td>Box Beam Frame 1”, 2”, 4”, &amp; 6” BW’s</td>
<td>Box Beam Frame 1”, 2”, 4”, &amp; 6” BW’s</td>
</tr>
<tr>
<td></td>
<td>Box Beam Frame</td>
<td>8”, 12”, &amp; 18” BW’s</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Plate &amp; Rail Frame</td>
<td>8”, 12”, &amp; 18” BW’s</td>
<td></td>
</tr>
</tbody>
</table>
The Diebel Series – Tight Transfer Conveyors

STANDARD INFEED
2-1/4" Diameter Roller for Everyday Products

TIGHT TRANSFER INFEED
(2) 1-1/8" Diameter Rollers for smaller, more difficult transferring products

ALUMINUM BOX FRAME OR PLATE & RAIL CONSTRUCTION

SIMPLE & EASY TRACKING SYSTEM

SIDERAIL & SENSOR MOUNTING OPTIONS AVAILABLE

FRAME DEPTHS FROM 1-1/8" (D1300) TO 2-15/32" (D2300 & D3300)

MANY STANDARD DRIVE OPTIONS AVAILABLE

DISCHARGE

MODEL D-1300, D-2300, & D-3300 INFEED/TAIL END VIEWS

STANDARD INFEED
(D-1300 ONLY)

STANDARD INFEED
(D-2300 & D-3300)

TIGHT TRANSFER INFEED
(D-2300 & D-3300)

NOTE: ALL DIMENSIONS SHOWN ARE IN INCHES.
**Diebel Model D-1300 – Light Duty Applications**

**D-1300**
End Drive

\[
\text{DRIVE OAW} = BW + 3.156''
\]

\[
\text{FRAME WIDTH} = BW + 0.875''
\]

\[
\text{END WIDTH} = BW + 0.875''
\]

\[
\text{FRAME DEPTH} = 1.125''
\]

\[
\text{CONVEYING LENGTH} = \text{OAHL} = \text{CONVEYING LENGTH} + 1.063''
\]

**D-1300**
Center Drive

\[
\text{DRIVE OAW} = BW + 4.625''
\]

\[
\text{FRAME WIDTH} = BW + 0.875''
\]

\[
\text{END WIDTH} = BW + 0.875''
\]

\[
\text{FRAME DEPTH} = 1.125''
\]

\[
\text{CONVEYING LENGTH} = \text{OAHL} = \text{CONVEYING LENGTH} + 0.594''
\]

**Diebel Model D-2300 – Medium Duty Applications**

**D-2300**
End Drive

\[
\text{DRIVE OAW} = BW + 3.156''
\]

\[
\text{FRAME WIDTH} = BW + 0.875''
\]

\[
\text{END WIDTH} = BW + 1.344''
\]

\[
\text{FRAME DEPTH} = 2.480''
\]

\[
\text{CONVEYING LENGTH} = \text{OAHL} = \text{CONVEYING LENGTH} + 0.594''
\]

\[
\text{CONVEYING LENGTH} / \text{OAHL}
\]

\[
\text{END Width} = BW + 1-11/32''
\]

\[
\text{FRAME WIDTH} = BW + 7/8''
\]

\[
\text{END Width} = BW + 1.344''
\]

\[
\text{FRAME DEPTH} = 2.480''
\]

\[
\text{DRIVE OAW} = BW + 11-9/32''
\]

\[
\text{DRIVE OAW} = BW + 4.625''
\]

\[
\text{FRAME WIDTH} = BW + 0.875''
\]

\[
\text{END WIDTH} = BW + 1.344''
\]

\[
\text{FRAME DEPTH} = 6.375''
\]

\[
\text{DRIVE OAW} = BW + 4-5/8''
\]

\[
\text{CONVEYING LENGTH} / \text{OAHL}
\]

\[
\text{CONVEYING LENGTH} = \text{OAHL} = \text{CONVEYING LENGTH} + 0.594''
\]

\[
\text{CONVEYING LENGTH} = \text{OAHL} = \text{CONVEYING LENGTH} + 0.594''
\]

\[
\text{FRAME DEPTH} = 4.375''
\]

\[
\text{END Width} = BW + 1-11/32''
\]

\[
\text{FRAME WIDTH} = BW + 7/8''
\]

\[
\text{FRAME DEPTH} = 6.375''
\]

\[
\text{FRAME WIDTH} = BW + 0.875''
\]

\[
\text{END Width} = BW + 1.344''
\]

\[
\text{FRAME DEPTH} = 4.375''
\]

\[
\text{DRIVE OAW} = BW + 3.156''
\]

\[
\text{DRIVE OAW} = BW + 3.156''
\]

\[
\text{FRAME WIDTH} = BW + 0.875''
\]

\[
\text{END Width} = BW + 1.344''
\]

\[
\text{FRAME DEPTH} = 2.480''
\]

\[
\text{CONVEYING LENGTH} = \text{OAHL} = \text{CONVEYING LENGTH} + 0.594''
\]

\[
\text{CONVEYING LENGTH} = \text{OAHL} = \text{CONVEYING LENGTH} + 0.594''
\]

\[
\text{FRAME DEPTH} = 4.375''
\]

\[
\text{END Width} = BW + 1-11/32''
\]

\[
\text{FRAME WIDTH} = BW + 7/8''
\]

\[
\text{FRAME DEPTH} = 6.375''
\]

\[
\text{DRIVE OAW} = BW + 3.156''
\]

\[
\text{DRIVE OAW} = BW + 3.156''
\]

\[
\text{FRAME WIDTH} = BW + 0.875''
\]

\[
\text{END Width} = BW + 1.344''
\]

\[
\text{FRAME DEPTH} = 2.480''
\]
The Diebel Series Specifications

Diebel Model D-2300 – Medium Duty Applications

**D-2300**
Center Drive

- **END WIDTH** = BW + 1.344
- **FRAME WIDTH** = BW + 0.875
- **DRIVE OAW** = BW + 4.625

![Diagram of D-2300 Center Drive](image)

Diebel Model D-3300 – Heavy Duty Applications

**D-3300**
End Drive

- **DRIVE OAW** = BW + 5.000
- **END WIDTH** = BW + 1.344
- **FRAME WIDTH** = BW + 0.875
- **FRAME DEPTH**

![Diagram of D-3300 End Drive](image)

**D-3300**
Center Drive

- **DRIVE OAW** = BW + 4.688
- **END WIDTH** = BW + 1.344
- **FRAME WIDTH** = BW + 0.875
- **FRAME DEPTH**

![Diagram of D-3300 Center Drive](image)

**NOTES:**
- Dimensions are shown in inches and are subject to change.
- Drawings show ‘standard’ drive options with ‘standard’ style motors. Motor dimensions can vary.
- Arrows depict preferred belt travel / product flow.
- Center drives can be placed anywhere along the length of the frame except the last 3-1/2” from either end.
Model D-1300 Drive Locations

**DRIVE #2**  Center Drive • Frame Mount • Inline • Under Belt

**DRIVE #3**  Center Drive • Frame Mount • Right Angle • Discharge Facing

**DRIVE #4**  Center Drive • Frame Mount • Right Angle • Infeed Facing

**DRIVE #7**  End Drive • Bottom Mount • Inline • Under Belt

NOTES:
- Dimensions are shown in inches and are subject to change.
- Drawings show ‘standard’ drive options with ‘standard’ style motors. Motor dimensions can vary.
- Arrows depict preferred belt travel / product flow.
- Center drives can be placed anywhere along the length of the frame except the last 3-1/2” from either end.
The Diebel Series

Model D-1300 Drive Locations

**DRIVE #8**  
End Drive • Bottom Mount • Right Angle • Infeed Facing

**DRIVE #9**  
End Drive • Top Mount • Inline • Over Belt

**DRIVE #12**  
End Drive • Top Mount • Right Angle • Discharge Facing

**DRIVE #13**  
End Drive • Shaft Mount • Inline

NOTES:
- DIMENSIONS ARE SHOWN IN INCHES AND ARE SUBJECT TO CHANGE.
- DRAWINGS SHOW 'STANDARD' DRIVE OPTIONS WITH 'STANDARD' STYLE MOTORS. MOTOR DIMENSIONS CAN VARY.
- ARROWS DEPICT PREFERRED BELT TRAVEL / PRODUCT FLOW.
- CENTER DRIVES CAN BE PLACED ANYWHERE ALONG THE LENGTH OF THE FRAME EXCEPT THE LAST 3-1/2" FROM EITHER END.
The Diebel Series

Model D-2300 Drive Locations

DRIVE #2
Center Drive • Frame Mount • Inline • Under Belt

DRIVE #3
Center Drive • Frame Mount • Right Angle • Discharge Facing

DRIVE #4
Center Drive • Frame Mount • Right Angle • Infeed Facing

DRIVE #7
End Drive • Bottom Mount • Inline • Under Belt

NOTES:
- DIMENSIONS ARE SHOWN IN INCHES AND ARE SUBJECT TO CHANGE.
- DRAWINGS SHOW 'STANDARD' DRIVE OPTIONS WITH 'STANDARD' STYLE MOTORS. MOTOR DIMENSIONS CAN VARY.
- ARROWS DEPICT PREFERRED BELT TRAVEL / PRODUCT FLOW.
- CENTER DRIVES CAN BE PLACED ANYWHERE ALONG THE LENGTH OF THE FRAME EXCEPT THE LAST 3-1/2” FROM EITHER END.
Model D-2300 Drive Locations

- **DRIVE #8**  
  End Drive  Bottom Mount  •  Right Angle  •  Infeed Facing

- **DRIVE #9**  
  End Drive  •  Top Mount  •  Inline  •  Over Belt

- **DRIVE #12**  
  End Drive  •  Top Mount  •  Right Angle  •  Discharge Facing

- **DRIVE #13**  
  End Drive  •  Shaft Mount  •  Inline

**NOTES:**
- DRAWINGS SHOW ‘STANDARD’ DRIVE OPTIONS WITH ‘STANDARD’ STYLE MOTORS. MOTOR DIMENSIONS CAN VARY.
- ARROWS DEPICT PREFERRED BELT TRAVEL / PRODUCT FLOW.
- CENTER DRIVES CAN BE PLACED ANYWHERE ALONG THE LENGTH OF THE FRAME EXCEPT THE LAST 3-1/2” FROM EITHER END.
NOTES:
- DIMENSIONS ARE SHOWN IN INCHES AND ARE SUBJECT TO CHANGE.
- CENTER DRIVES CAN BE PLACED ANYWHERE ALONG THE LENGTH OF THE FRAME EXCEPT THE LAST 3-1/2" FROM EITHER END.
- ARROWS DEPICT PREFERRED BELT TRAVEL / PRODUCT FLOW.
- DRAWINGS SHOW ‘STANDARD’ DRIVE OPTIONS WITH ‘STANDARD’ STYLE MOTORS. MOTOR DIMENSIONS CAN VARY.
- DIMENSIONS SHOWN ARE IN INCHES, AND ARE SUBJECT TO CHANGE.
Model D-3300 Drive Locations

**DRIVE #23**  
End Drive  •  Bottom Mount  •  Right Angle  •  Infeed Facing

**DRIVE #24**  
End Drive  •  Top Mount  •  Right Angle  •  Infeed Facing

**DRIVE #27**  
End Drive  •  Shaft Mount  •  Right Angle  •  Infeed Facing

**DRIVE #28**  
End Drive  •  Shaft Mount  •  Right Angle  •  Discharge Facing

NOTES:  
- DIMENSIONS ARE SHOWN IN INCHES AND ARE SUBJECT TO CHANGE.  
- DRAWINGS SHOW ‘STANDARD’ DRIVE OPTIONS WITH ‘STANDARD’ STYLE MOTORS. MOTOR DIMENSIONS CAN VARY.  
- ARROWS DEPICT PREFERRED BELT TRAVEL / PRODUCT FLOW.  
- CENTER DRIVES CAN BE PLACED ANYWHERE ALONG THE LENGTH OF THE FRAME EXCEPT THE LAST 3-1/2” FROM EITHER END.
The Diebel Series – Options

Diebel Series Conveyor Frames

1" Extrusion
Used for D-2300 Series 1" Belt Width

Box Beam Extrusions (D-2300 & D-3300 Series)
Used for D-2300 & D-3300 Series Belt Widths 2", 4", & 6"

Low Profile (D-1300 Series Only)
Used for D-1300 Series Belt Widths 2", 4", 6", 8", 12", & 18"

Plate & Rail Frame (D-2300 & D-3300 Series)
Used for D-2300 & D-3300 Series Belt Widths 8", 12", & 18"

Diebel Series Standard Support Leg Configuration

Frame Dimensions by Type and Associated Belt Widths

<table>
<thead>
<tr>
<th>Frame Type</th>
<th>T-Slots Center-to-Center ‘A’</th>
<th>Overall Frame Height ‘B’</th>
<th>Center of Top T-Slot to Top-of-Frame ‘C’</th>
<th>Overall Frame Width</th>
<th>Diebel Belt Widths</th>
</tr>
</thead>
<tbody>
<tr>
<td>1&quot; Extrusion</td>
<td>1.03”</td>
<td>2.18”</td>
<td>0.50”</td>
<td>1.20”</td>
<td>N/A  N/A N/A N/A N/A N/A N/A N/A</td>
</tr>
<tr>
<td>Box Beam Extrusion</td>
<td>1.25”</td>
<td>2.48”</td>
<td>0.62”</td>
<td>N/A  2.88”</td>
<td>4.88”  6.88” N/A N/A N/A N/A</td>
</tr>
<tr>
<td>Low Profile</td>
<td>N/A</td>
<td>1.13”</td>
<td>0.63”</td>
<td>N/A  2.88”</td>
<td>4.88”  6.88” 8.88” 12.88” 18.88”</td>
</tr>
<tr>
<td>Plate &amp; Rail</td>
<td>1.25”</td>
<td>2.48”</td>
<td>0.62”</td>
<td>N/A  2.88”</td>
<td>4.88”  6.88” 8.88” 12.88” 18.88”</td>
</tr>
</tbody>
</table>

Diebel Series Side Fence & Guide Systems

Adjustable Rails (Light Duty)

Adjustable Rails (Heavy Duty)

Fixed Rails (.5" to 3.5" high)

Cleats up to 1.5" high

Sensor Brackets

Diebel Series Side Fence & Guide Systems

NOTE: CONSULT YOUR NLE SALES REPRESENTATIVE FOR OTHER AVAILABLE OPTIONS.
The Diebel Series – Specialty Conveyors

O-Ring belting for uniquely shaped parts and specific contact point requirements.

Conveyors as short as 12”.

Dual Belt Conveyor

Product reorienting – 90° bump and turn

Side transfer from belt to belt.

Tight Transfer Feeding – 90° Turn

Product reorienting – 180° flip leading edge maintained.

“Z” configuration conveyors with or without cleated belting.

Multiple belts with one drive for special parts handling.
<table>
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<tr>
<th>GENERAL PURPOSE</th>
<th>COMMON DIEBEL SERIES BELTS</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>*2 Ply 70 Blank PVC x IMPG (Spec #251) (Temp. Range 20°F to 180°F) (.093” Thick)</td>
</tr>
</tbody>
</table>
|                 | This oil and cut resistant PVC cover is the ideal surface for general purpose conveying. The monofilament (multi-plyed-2 plies or more) style construction provides strength and flexibility. This belt runs smooth, flat and quiet because the bottom is impregnated (coated) with a filler material resulting in a soft and level, low noise surface.
|                 | 2 Ply Black Polyurethane x IMPG, Highly Conductive (ACS Type D Bolt) (Temp. Range –22°F to 176°F) (.05” Thick) |
|                 | (ACS Type D belt – black) Used for conducting static charges from a product to the conveyor. |
| ACCUMULATION     | 2 Ply White Polyurethane, Anti-Static, Non-Adhesive (ACS Type A Belt) (Temp. Range 5°F to 176°F) (.05” Thick) |
|                 | Used with accumulators or diverters. Approved by FDA/USDA for food, chemical and pharmaceutical applications. Easy to clean. Anti-static. Finger-spliced endless belt. |
|                 | 2 Ply Gray Polyurethane x IMPG, Non-Adhesive (ACS Type XVT Belt) (Temp. Range –4°F to 176°F) (.06” Thick) |
|                 | Used with harse environments like cut metal or stampings. Good accumulation. |
| ROUGH TOP        | *2 Ply Black Longitudinal Ribbed Top x Bare Back (Spec #253X) (Temp. Range 15°F to 175°F) (.09” Thick) |
|                 | This belt is designed for high and steep incline applications. The longitudinal raised ribbed surface literally grips and holds the parts being conveyed. This belt will run smooth, flat and quiet due to the bare back low friction, low noise surface. This belt is especially suited for plastic totes. This is a good belt for steep inclines/declines. |
|                 | *2 Ply Gray PVC Rough Top, Diamond Pattern (ACS Type C Belt – Gray) (Temp. Range 23°F to 122°F) (.07” Thick) |
|                 | Very adhesive. Used for steep inclines – textured with 1/16” inverted diamond pattern. |
| URETHANE         | *2 Ply Green Urethane x IMPG Back (Spec #249) (Temp. Range 20°F to 180°F) (.050” Thick) |
|                 | An economical yet high quality thin urethane belt with excellent cut and gouge resistance. This is an excellent choice for conveying sharp parts where an abundance of oil is present. This belt runs smooth, flat and quiet because the bottom is impregnated (coated) with a filler material resulting in a soft and level, low noise surface. This smooth top belt is also a good choice for light duty accumulating applications. |
| WHITE BELTS      | *2 Ply White PVC (Spec #224) (Temp. Range 20°F to 180°F) (.031” Thick) |
|                 | Anti-static, FDA and USDA accepted general food conveying belt. This low cost belt is ideal for general transporting any food product and in an all non-marking applications. |
|                 | 1 Ply White Urethane x IMPG Bottom (Spec #222) (Temp. Range 20°F to 180°F) (.031” Thick) |
|                 | This belt has a smooth non-adhesive white urethane top cover. Excellent choice for cooling tunnels and applications requiring a high release surface. This belt runs smooth, flat and quiet because the bottom is impregnated (coated) with a filler material resulting in a soft and level, low noise surface. |
|                 | White PTFE Teflon Impregnated – Non-Adhesive (ACS HTT Belt) (Temp. Range 4°F to 176°F) (.06” Thick) |
|                 | *2 Ply White Urethane x IMPG Bottom (Spec #223) (Temp. Range 20°F to 180°F) (.062” Thick) |
|                 | This belt’s smooth non-adhesive white urethane top cover is ideal for applications where added strength and good release characteristics are required. It runs smooth, flat and quiet because the bottom is impregnated (coated) resulting in a soft and level, low noise surface. FDA and USDA accepted. |
|                 | *2 Ply White Polyurethane, Anti-Static, Slightly Adhesive (ACS Type B Belt – White) (Temp. Range –22°F to 176°F) (.05” Thick) |
|                 | Slightly adhesive used for slight inclines, FDA/USDA Approved Thermo |
The Diebel Series

Speeds/Motors/Controllers/Options

<table>
<thead>
<tr>
<th>Model D-1300</th>
<th>Model D-2300</th>
<th>Model D-3300</th>
</tr>
</thead>
<tbody>
<tr>
<td>2-100 FPM</td>
<td>5-100 FPM</td>
<td>10-100 FPM</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Standard Gear Motors</th>
<th>Standard Motor</th>
</tr>
</thead>
<tbody>
<tr>
<td>1/30 HP</td>
<td>1/3, 1/2 HP</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>AC</th>
<th>DC</th>
<th>AC &amp; DC</th>
</tr>
</thead>
<tbody>
<tr>
<td>200V (1 or 3 phase)</td>
<td>110V (1 phase)</td>
<td>115/230V (1 phase)</td>
</tr>
<tr>
<td>220V (1 or 3 phase)</td>
<td>115V (1 phase)</td>
<td>230/460V (3 phase)</td>
</tr>
<tr>
<td>230V (1 or 3 phase)</td>
<td>230V (3 phase)</td>
<td>230/460V (3 phase)</td>
</tr>
</tbody>
</table>

Custom Designed Pre-wired Systems

Whether your project includes packaging, material handling or automation, New London Engineering can custom design an electrical control panel for you. Simply tell us what you want the system to do and we will build the electrical system.
We are a full line conveyor supplier specializing in engineering high quality, quick delivery conveyors.

- Accumulation Conveyors
- Belt Driven Live Roller Conveyors
- Bulk Material Handling Conveyors
- Cleated Belt Parts Conveyors
- Chain Driven Live Roller Conveyors
- Chain Transfers
- Drag Conveyors
- Floor-to-Floor Conveyors
- Gravity Roller
- Magnetic Conveyors
- Pallet Dispensers
- Power Roller Conveyors
- PlastiTrak – A full line of plastic belt conveyors
- Quick Start Electrical Controls
- Slat Conveyors
- Slider Bed Conveyors
- Specialty Conveyors
- SteelTrak – Hinged Steel Belt Conveyors
- ToughTrak – Tough and durable thin line conveyors
- Turntables
- UpTime Express – 24 hour shipments
- V-Belt Conveyors
- Wire Mesh Conveyors

REPLACEMENT PARTS
For easy part identification, go to NLECO.com and click on Replacement Parts

1700 Division Street • New London, WI 54961
Orders 800-437-1994 Online NLECO.com Fax 920-982-6800