CEDiebel Aluminum Frame Conveyo

The ORIGINAL extruded-aluminum-frame conveyor



www.tceconveyors.com 844-220-0086

1



The Diebel Series of 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.

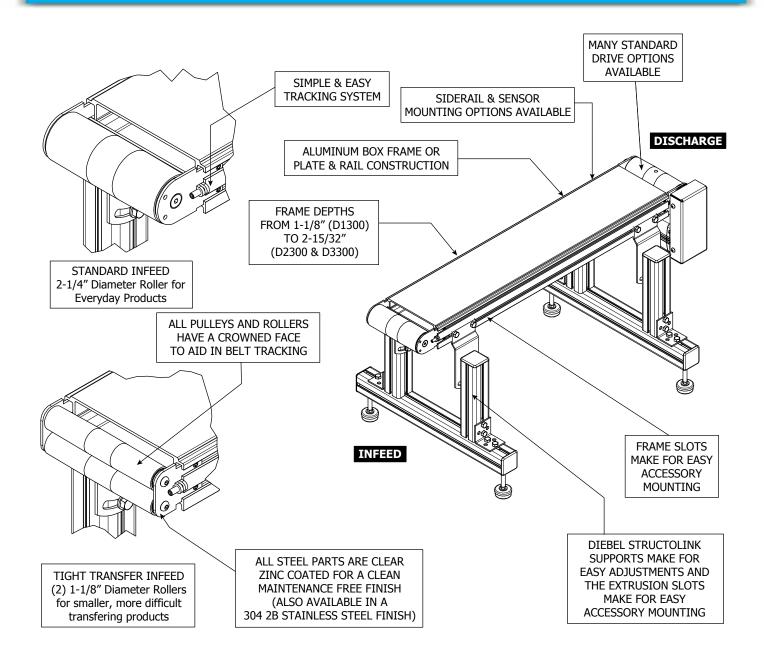
Table of Contents

Area	Page	Area	Page
General Specifications	1	Model D-3300 Drive Locations	9-10
Diebel Tight Transfer	2	Frames	11
Model D-1300 Specifications	3	Supports	11
Model D-2300 Specifications	3-4	Options	11
Model D-3300 Specifications	4	Specialty Conveyors	12
Model D-1300 Drive Locations	5-6	Standard Belt Options	13
Model D-2300 Drive Locations	7-8	Speeds, Motors, Controllers & Photo Eyes	14

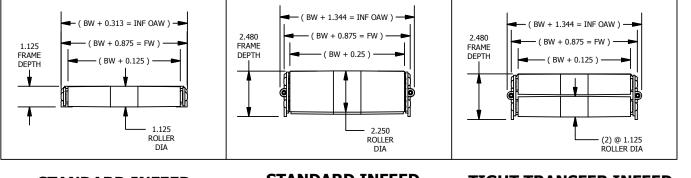
Specifications

Model Position	Light Duty – D-1300 Ultra-Low Profile	Medium Duty – D-2300 Low Profile			Heavy Duty – D-3300 Low Profile			
Diebel Model #	D-1300	D-2300	D-2300	D-2300 (Tight Transfer)	D-3300	D-3300	D-3300 (Tight Transfer)	
Drive Location	End & Center	End	Center	Center	End	Center	Center	
Lengths	1' – 20'	1' – 20'	18" – 40'	18" – 40'	1' – 20'	3' – 40'	3' – 40'	
Infeed Pulley/ Roller Diameter	1.125"	2.250"	2.250"	(2) @ 1.125"	2.250"	2.250"	(2) @ 1.125"	
Drive Pulley/ Roller Diameter	1.125"	2.250"	2.250"	2.250"	2.250"	2.250"	2.250"	
Drive Shaft Diameter	0.625"	0.625"	0.625"	0.625"	0.750"	0.750"	0.750"	
Frame Depth	1.125"	2.480"	2.480"	2.480"	2.480"	2.480"	2.480"	
Maximum Capacity	40#	80#	80#	80#	200#	200#	200#	
# of T-Slots	1	2	2	2	2	2	2	
Motor Type	Gearmotor	Gearmotor	Gearmotor	Gearmotor	Motor & Reducer	Motor & Reducer	Motor & Reducer	
Belt Widths/	2", 4", 6", 8",	Box Beam Frame		1", 2", 4", & 6" BW's	Box Beam Frame		1", 2", 4", & 6" BW's	
Frame Style	12", & 18" BW's Plate & Rail Frame	Plate & Rail Frame		8", 12", & 18" BW's	Plate & Rail Frame		8", 12", & 18" BW's	

The Diebel Series – Tight Transfer Conveyors



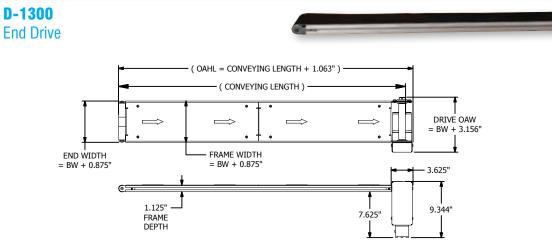
Model D-1300, D-2300, & D-3300 Infeed/Tail End Views



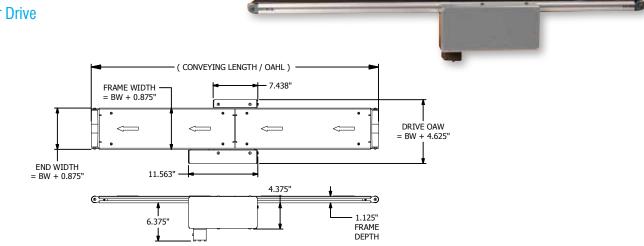
STANDARD INFEED (D-1300 ONLY) STANDARD INFEED (D-2300 & D-3300) TIGHT TRANSFER INFEED (D-2300 & D-3300)

The Diebel Series Specifications

Diebel Model D-1300 – Light Duty Applications

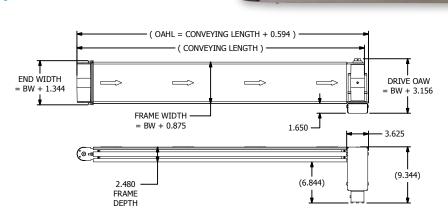


D-1300 Center Drive



Diebel Model D-2300 – Medium Duty Applications

D-2300 End Drive

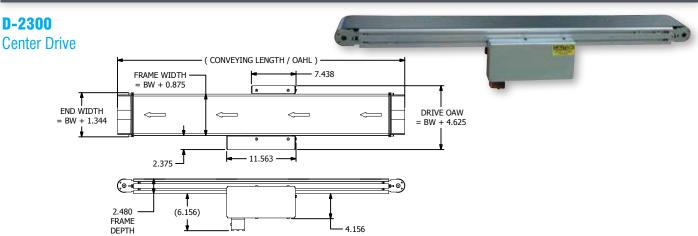


NOTES: - DIMENSIONS ARE SHOWN IN INCHES AND ARE SUBJECT TO CHANGE.

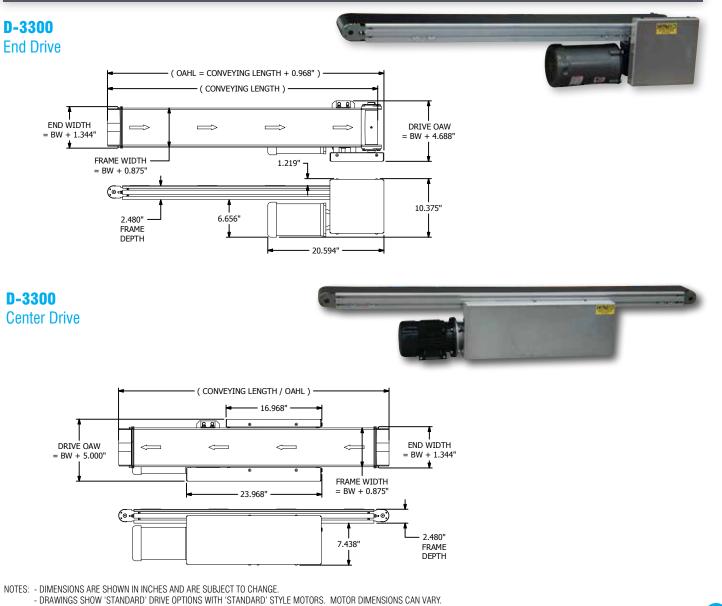
- DRAWINGS SHOW 'STANDARD' DRIVE OPTIONS WITH 'STANDARD' STYLE MOTORS. MOTOR DIMENSIONS CAN VARY.
- ARROWS DEPICT PREFERRED BELT TRAVEL / PRODUCT FLOW.

The Diebel Series Specifications

Diebel Model D-2300 – Medium Duty Applications

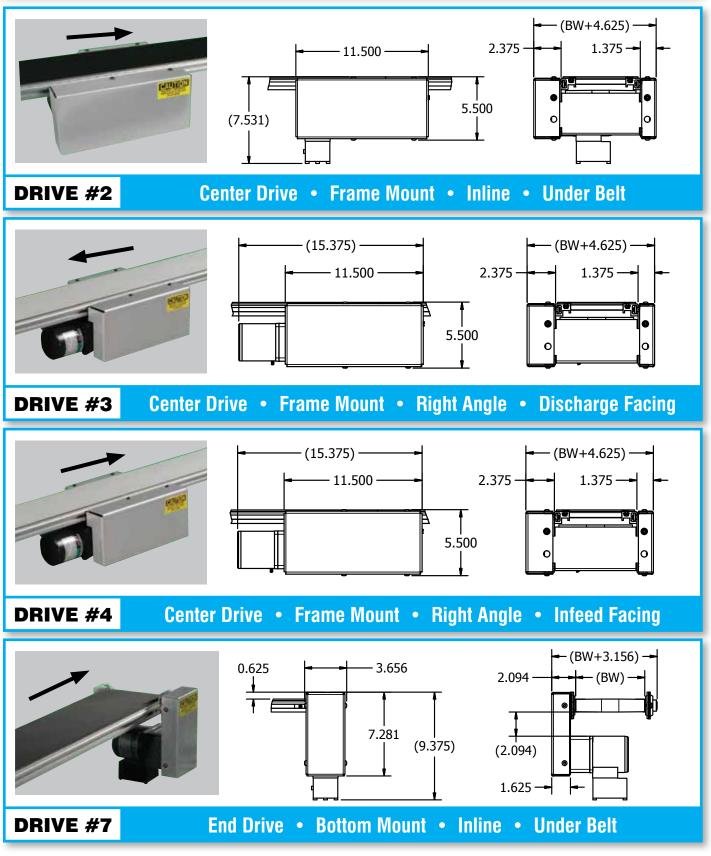


Diebel Model D-3300 – Heavy Duty Applications



- ARROWS DEPICT PREFERRED BELT TRAVEL / PRODUCT FLOW.

Model D-1300 Drive Locations

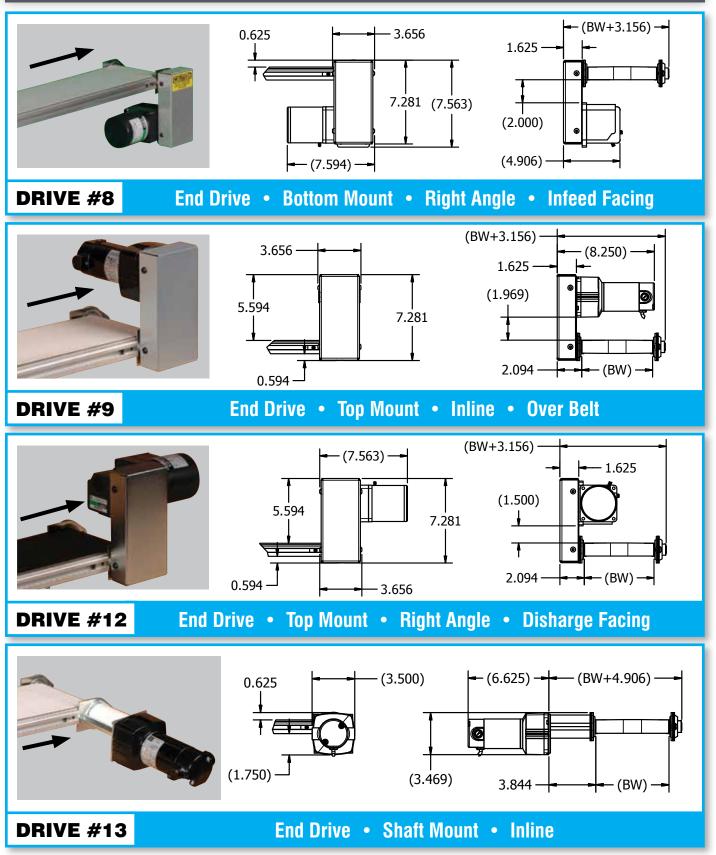


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Model D-1300 Drive Locations

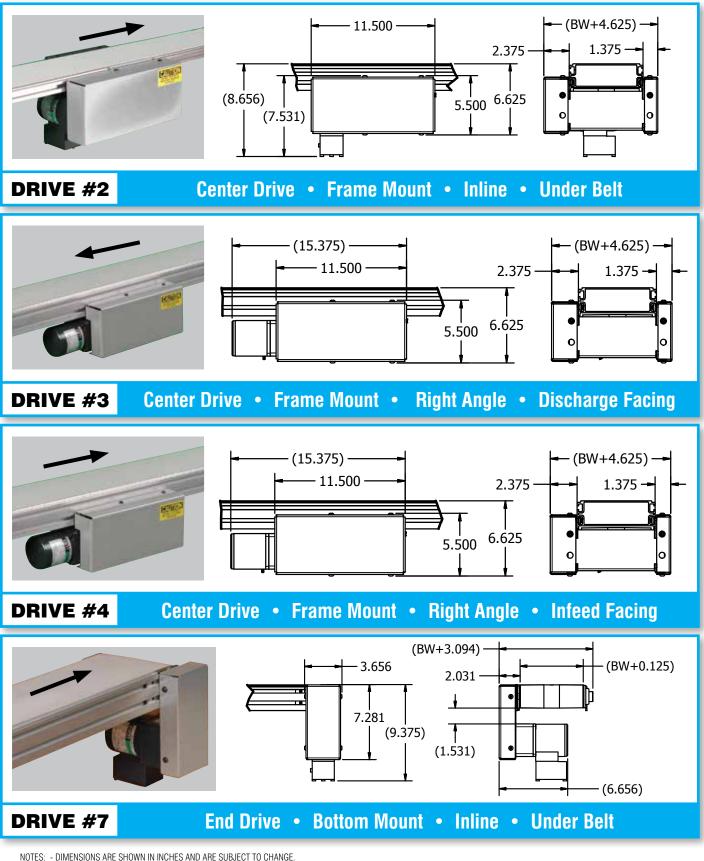


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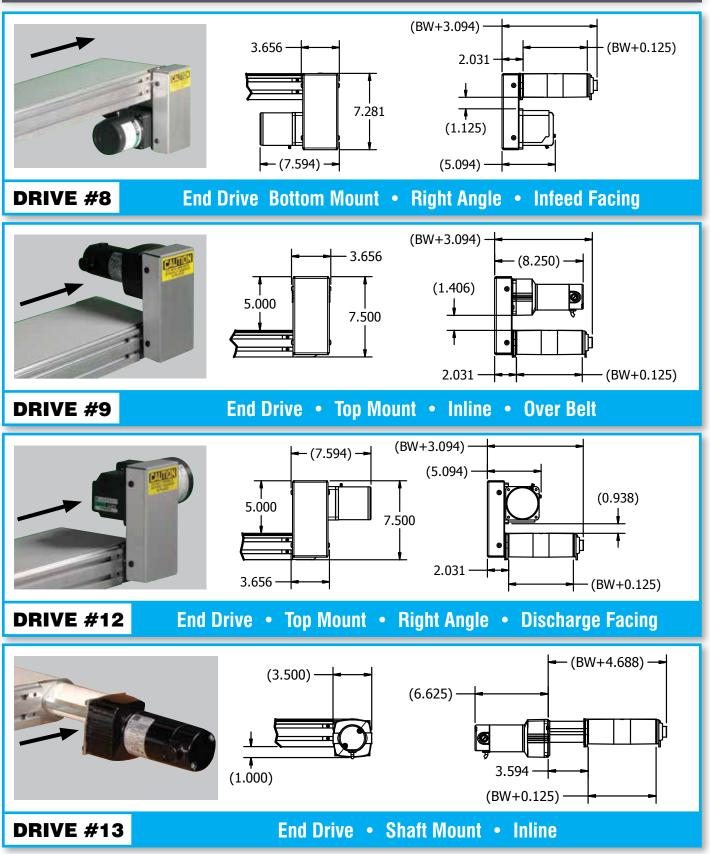
Model D-2300 Drive Locations



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Model D-2300 Drive Locations

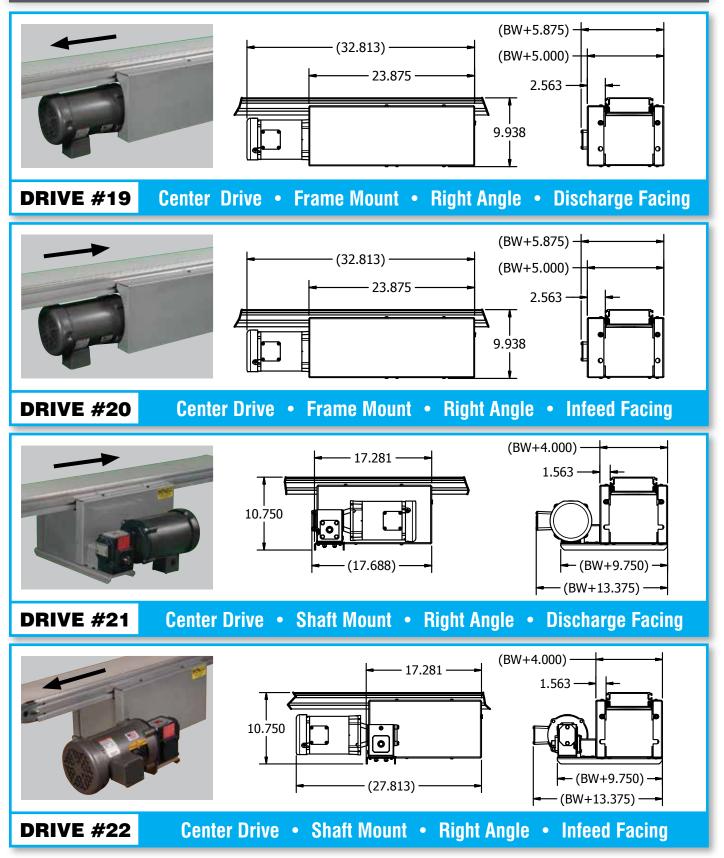


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Model D-3300 Drive Locations

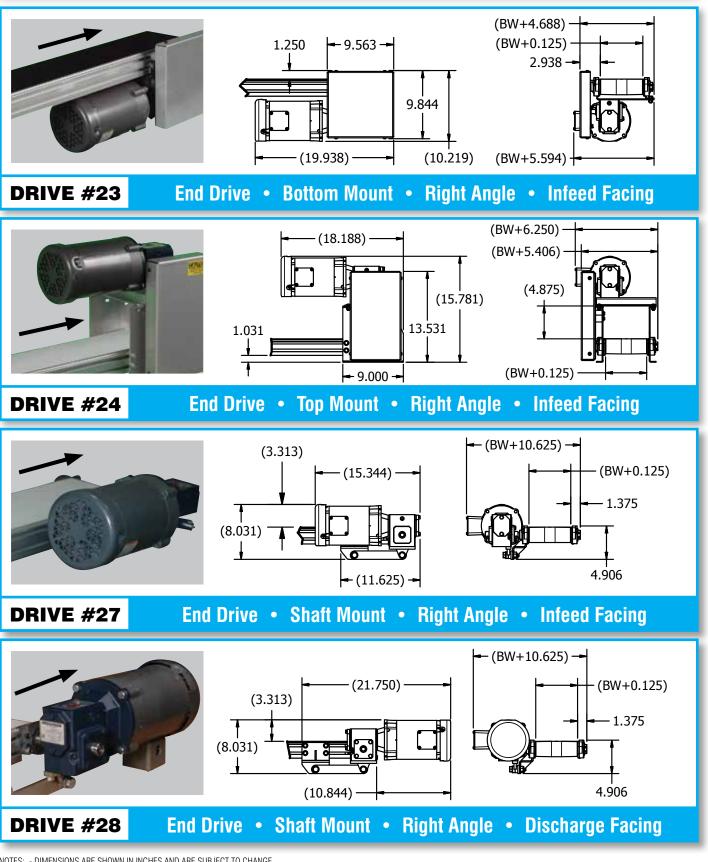


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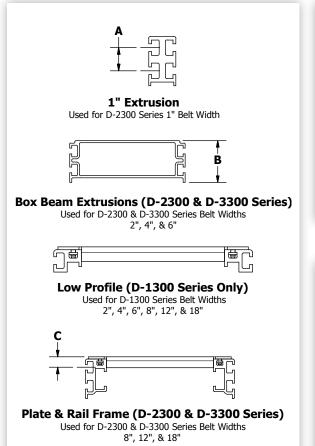
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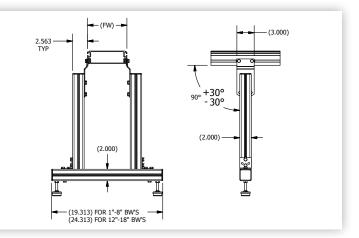
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The Diebel Series – Options

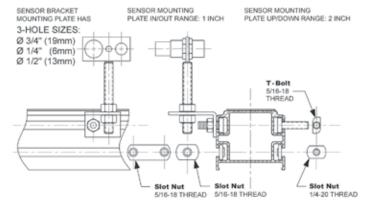
Diebel Series Conveyor Frames



Diebel Series Standard Support Leg Configuration



Sensor Brackets



	Frame Dimensions by Type and Associated Belt Widths									
	Dimensions			Overall Frame Width						
Frame	T-Slots	Overall Frame	Center of Top	Diebel Belt Widths						
Туре	Center-to-Center 'A'	Height 'B'	T-Slot to Top-of-Frame 'C'	1"	2"	4"	6"	8"	12"	18"
1" Extrusion	1.03"	2.18"	0.50"	1.20"	N/A	N/A	N/A	N/A	N/A	N/A
Box Beam Extrusion	1.25"	2.48"	0.62"	N/A	2.88"	4.88"	6.88"	N/A	N/A	N/A
Low Profile	N/A	1.13"	0.63"	N/A	2.88"	4.88"	6.88"	8.88"	12.88"	18.88"
Plate & Rail	1.25"	2.48"	0.62"	N/A	2.88"	4.88"	6.88"	8.88"	12.88"	18.88"

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



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".



Product reorienting – 90° bump and turn



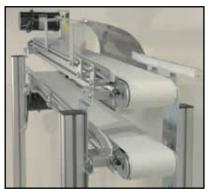
Dual Belt Conveyor



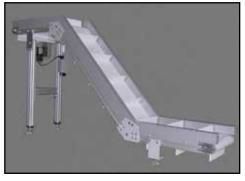
Side transfer from belt to belt.



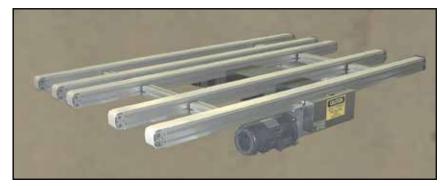
Tight Transfer Feeding - 90° Turn



Product reorienting – 180° flip leading edge maintained.



"Z" configuration conveyors with or without cleated belting.



Multiple belts with one drive for special parts handling.

GENERAL PURPOSE	COMMON DIEBEL SERIES BELTS
	*2 Ply 70 Blank PVC x IMPG (Spec #251) (Temp. Range 20°F to 180°F) (.093" Thick) This oil and cut resistant PVC cover is the ideal surface for general purpose conveying. The monofilament (multi-plied-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) Used with harse environments like cut metal or stampings. Good accumulation. (Temp. Range –4°F to 176°F) (.06" Thick)
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 s 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) Used for gluing and heat-sealing applications. Works well for high heat (480°F). Good release characteristics. Finger-spliced endless belt.
	*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)

Speeds/Motors/Controllers/Options

Standard Speed Ranges							
Model D-1300	Model D-2300	Model D-3300					
2-100 FPM	5-100 FPM	10-100 FPM					
Standard (Gear Motors	Standard Motor					
1/30 HP	1/17 HP	1/3, 1/2 HP					
ACDC200V (1 or 3 phase)110V (1 phase)220V (1 or 3 phase)115V (1 phase)230V (1 or 3 phase)230V (3 phase)	DC 130V (1 phase) 230V (3 phase)	AC & DC 115/230V (1 phase) 230/460V (3 phase) 230/460V (3 phase)					
Standard AC Controller	Standard DC Controller						
	POWER SPEED 0						

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 Available



1S450 Summit Avenue, Oakbrook Terrace IL 60181 844 220 0086 www.tceconveyors.com