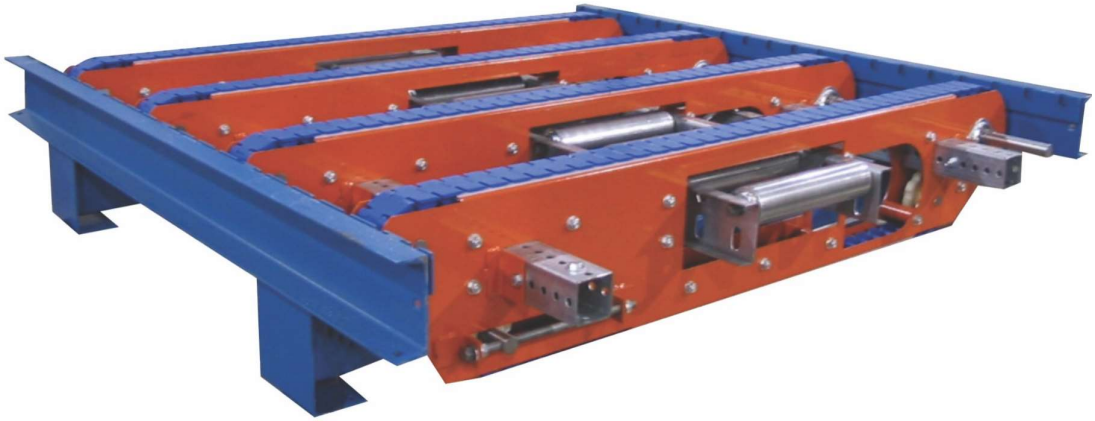
Belt Transfer Device



Parts and Service Maintenance Manual

March 15, 2019
Rev. A

10010 Conveyor Drive, Indianapolis, IN 46235
Phone:800.578.1755 Fax:317.890.9232
www.systecconveyors.com Email: info@systecconveyors.com
*** Digital copy of manual available at www.systecconveyors.com/manuals**

Table of Contents

- General Description
- How to Order
- Systec On Call Service S.O.S.
- Conveyor Safety
- Maintenance Schedule
- Parts & Assemblies
- Electrical
- Adjustments

For items not addressed in this manual, please contact your Systec regional sales manager or customer service. Additional manuals can be obtained on our website.

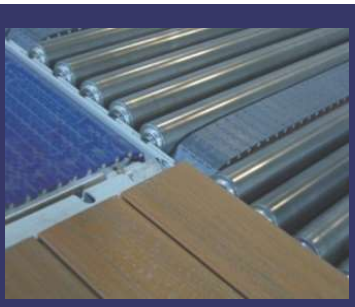
General Description

The features of Systec's BTD allow it to sit within the conveyor line at various locations.

It can be moved to nearly any location within the length of the conveyor line. It is totally independent of the conveyor in which it rests, and can be added to most other conveyor equipment manufacturer's lines. The BTD is designed to reduce and virtually eliminate the amount of load damage done to the bottom of the load during load transfer.

Based on the application, through optional load controls, loads can enter or discharge the device. Within certain application, the device can act as a one, two, three, or four way intersection.

As with all Systec conveyor and devices, the BTD bars are all steel construction, using precision laser cut parts for exact fit and function. This is a very low maintenance device applying the most advanced safety designs and features.



OVERALL CONSTRUCTION

Systec’s BTD deatures fully guarded belt bars to all exposed areas. The flat belt transfers the load and minimizes damage to the bottom sheets

ADJUSTABILITY

Systec’s BTD chain bars and pneumatic lift actuator assemblies are adjustable on 3” increments. The device can be installed at various locations within a conveyor line.

DRIVE ASSEMBLY

Systec’s BTD drive is a direct drive assembly. It is tucked neatly into the framework of the device - no floor mounted drive assembly.

Ordering Replacement Parts

When ordering parts, please contact Systec at the address and numbers below.

Conveyor Parts Department
10010 Conveyor Drive
Indianapolis, IN 46235

Phone 800.578.1755
Fax 317.890.9232

Online www.systecconveyors.com
Email parts@systecconveyors.com

S.O.S. Program
Systec On Call Service

In an effort to provide enhanced service and support to our customers, Systec Conveyors has instituted a dedicated service support line manned by knowledgeable personnel.

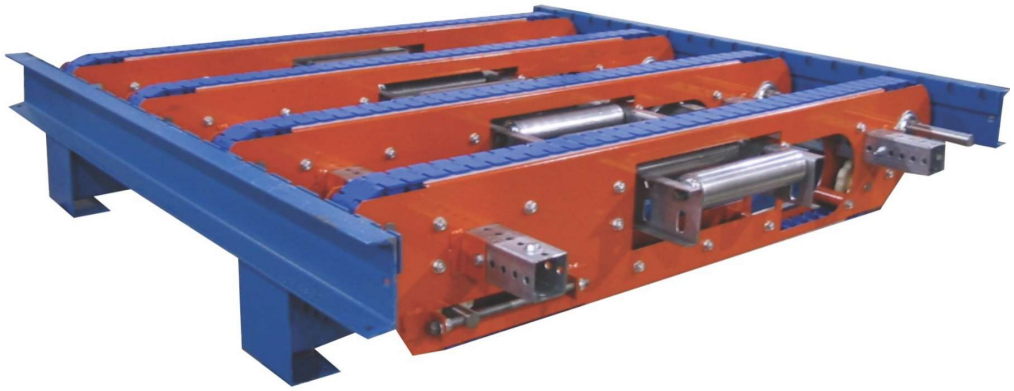
During the warranty period this service is provided free of charge. The standard warranty period is 12 months from the start-up. The standard warranty covers parts, but does not cover labor. The Systec On-Call Service program is intended to assist our customers in their efforts at diagnosing and servicing their new equipment during the warranty period.

Following the warranty period, Systec On-Call Service program is provided on a fee-for-services basis.

VPN Access is available to allow remote diagnostics and programming updates. Remote support is provided at current service rates.

For more information on this program:
contact your sales manager or call us at 800-578-1755

Conveyor Safety



Conveyor Safety

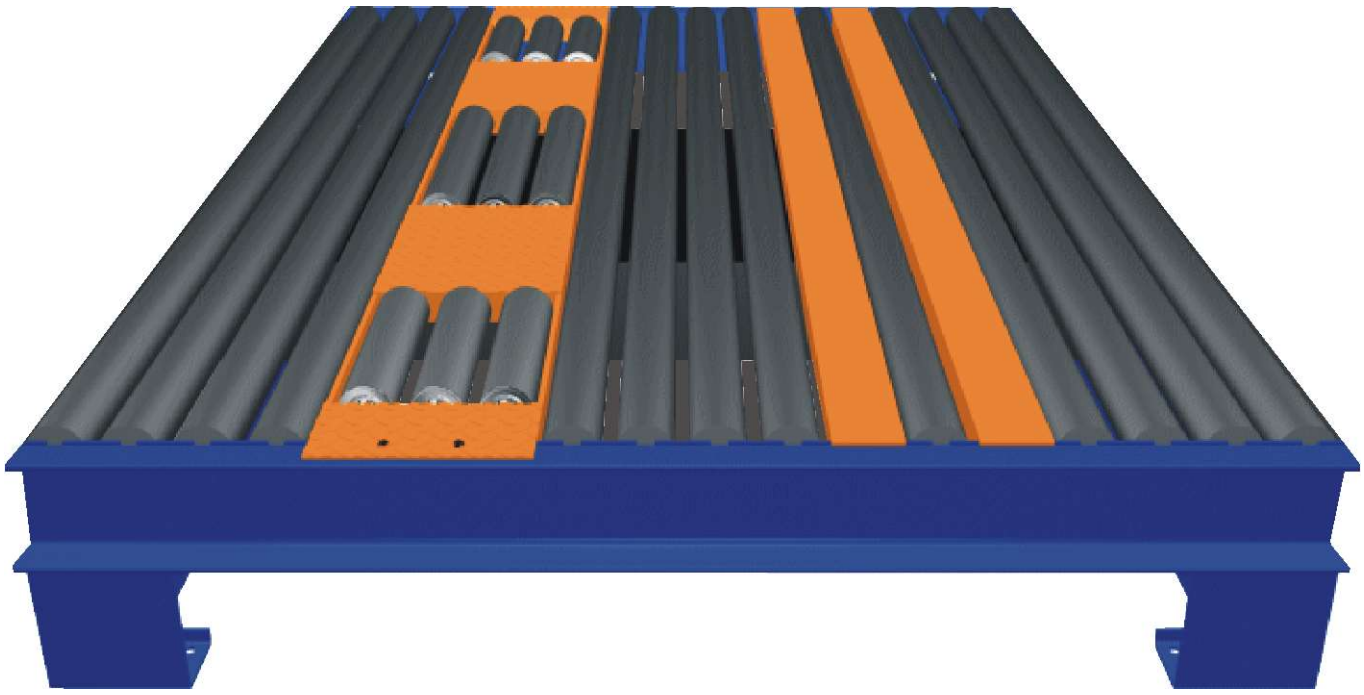
Never walk on conveyors! Attempting to stand or walk on roller conveyors will likely result in an injury.

DO NOT WALK ON CONVEYORS

SYSTEC CONVEYORS - INDIANAPOLIS, INDIANA - 1-800-578-1755 - P/N 000-0303-00

Conveyor Safety

We recommend installing
walkplates for safe crossing.

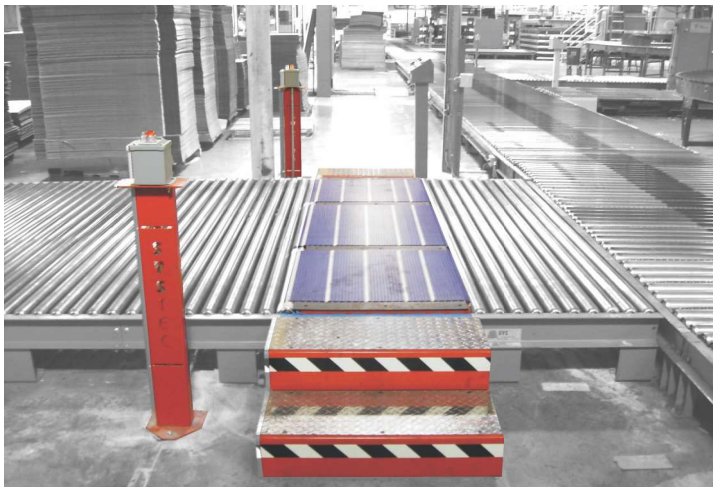


Conveyor Safety

Designated ancillary walkways include:

Plastic Stable Stack Conveyors

Safewalk



Conveyor Safety

Typical safety markings for the Belt Transfer Device are shown below.

Conveyor Safety

Lockout is a very important part of your Maintenance and Service department procedures. Systec provides a lockout switch for each conveyor line and device.

Note: Only authorized personnel should perform service and maintenance on any conveyor equipment and controls.

For safety questions regarding your specific device, contact us at 800.578.1755.

Maintenance Schedule

This Maintenance Schedule is intended to cover all basic types of conveyor and the related devices and components. Although your system may not have all of the parts listed below, this schedule should help in Identifying those components or parts that may require service or inspection that may otherwise be neglected. Should you need assistance in identifying the location of some of these components, contact Systec's Customer Service Department at 800.578.1755

ITEM	INSPECTION OR SERVICE REQUIRED	500 HRS.	1,000 HRS.	2,500 HRS.	5,000 HRS.	10,000 HRS.
Gearmotor	Clean, Check for Noise, Leaks and Mounting	✖				
	Check Oil Level			✖		
	Change Oil					✖
Bearings	Check Roller Bearings for Noise				✖	
	Check Pillow Block and Flange Block bearings for Noise, Mounting and Lubrication	✖				
Belt	Check for Belt Wear, Tracking and Tension		✖			
Chains	Check Tension, Wear, Lubrication and Adjustment	✖				
Wire Cables	Check Tension, Wear and Adjustment	✖				
Springs	Check Tension, Wear and Adjustment	✖				
Sprockets	Check Alignment, Wear and Mounting	✖				
Pulleys	Check Alignment, Wear and Mounting	✖				
UHMW Blocks & Pads	Check for Wear and Fit			✖		
Cams & Rollers	Check for Wear and Alignment	✖				
Transfer Rails	Clean with Degreaser	✖				
Photoeyes	Clean with Soft Cloth or Dry High Pressure Air	✖				
Limitswitches	Clean Debris and Check Arm for Free Movement	✖				
Proximity Switch	Clean Debris and Check for Proper Operation	✖				
Pendant Switch	Check for Proper Operation			✖		
Lockout Switch	Check for Proper Operation and Safety Labels			✖		
Foot Switch	Check for Proper Operation			✖		
Foot Valve	Check for Proper Operation			✖		
Strobe Light	Check for Proper Operation			✖		
Sound Alert	Check for Proper Operation			✖		
Motion Detector	Check for Proper Operation			✖		
Load Measuring Device	Check for Proper Operation			✖		
Air Filter/Regulator	Check and Clean Trap and Adjust Pressure	✖				
Solenoid Valve	Check for Air Leaks			✖		
Airmount	Check for Air Leaks	✖				
Air Supply Line	Check for Air Leaks	✖				

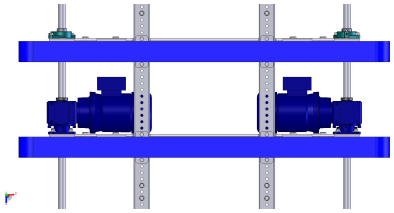
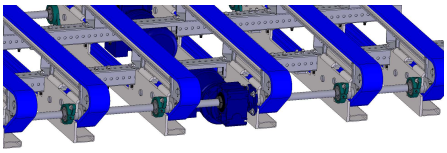
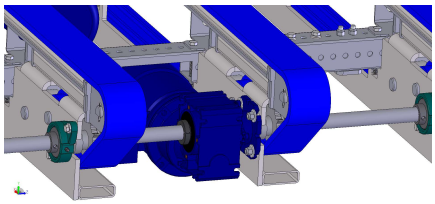
NOTE:
Routine daily cleanup should also include blowing out and removing debris from underneath the conveyor and devices. All drive drums should be inspected for any accumulation of plastic banding and corrugated scrap.

Monthly Inspection

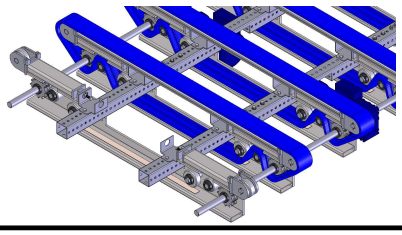
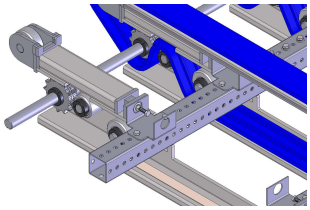
This device specific preventative maintenance schedule is intended to cover all common house keeping tasks for your device. Although this document may not include every component, it does include the most common wear items. Should you need assistance in identifying the location and procedure of the PM, contact Systec's Customer Service Department at 800.578.1755 Ask about our onsite PM training.

Belt Transfer Device

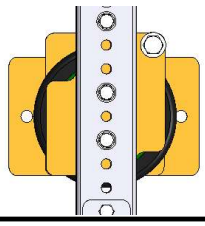
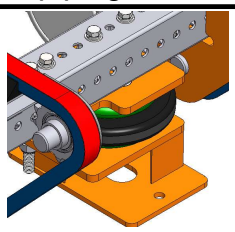
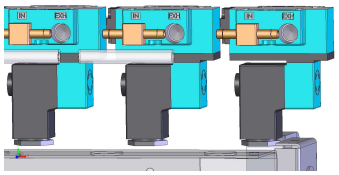
1. Inspect gearmotor and drive train

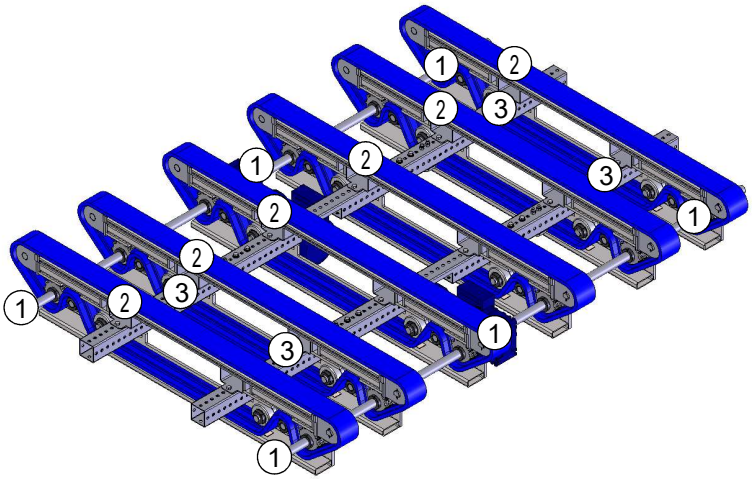




2. Inspect belt wrap and belt guidance

3. Inspect the air bags and pneumatic piping



Parts and Assemblies

Systec Conveyors is consistently working to improve the quality and performance of our products. Due to these efforts, parts and assemblies of our conveyors and devices are periodically changed or updated. To help provide the most up to date prints, assemblies, and part numbers, a Prints Package was sent with your order. Store this in a safe place for future reference. We recommend you make additional copies.

If you have lost or misplaced the Prints Package for this product, please contact us and have the following information available for our representatives to assist you.

From your Mechanical Packing List
Please provide one of the following.

1. File Name
2. Project #

For Assistance with Manuals Prints Packages
Please contact your sales representative or our service team for assistance.

Systec Conveyors
10010 Conveyor Drive
Indianapolis, IN 46235

Phone: 800.578.1755
Fax: 317.890.9232

www.systecconveyors.com

Electrical

Systec Conveyors is consistently working to improve the quality and performance of our products. Due to these efforts, electrical parts and assemblies of our conveyors and devices are periodically changed or updated. To help provide the most up to date information about your device or product, it is recommended that you contact Systec with any questions.

For Electrical Parts & Assistance
Please contact your sales representative or service team and have the following information available for our representatives to assist you.

From your Electrical Packing List
Please provide one of the following.

1. File Name
2. Project #

Systec Conveyors
10010 Conveyor Drive
Indianapolis, IN 46235

Phone: 800.578.1755
Fax: 317.890.9232

www.systecconveyors.com

Adjustments

Included in this section are adjustments for items that might occur more commonly due to use, from unit being moved or disturbed, or adjustments to be considered during maintenance and adjustments intervals.

For Assistance
Please contact your sales representative or our service team and have the following information available for our representatives to assist you.

From your Mechanical or Electrical Packing Lists
Please provide one of the following.

1. File Name
2. Project #

Systec Conveyors
10010 Conveyor Drive
Indianapolis, IN 46235

Phone: 800.578.1755
Fax: 317.890.9232

www.systecconveyors.com

Be sure to lockout your equipment before making adjustments.

Electrical Lockout

Your belt transfer device is equipped with a local motor disconnect switch and/or an electrical control panel. We recommend that you follow your facilities Lock-Out Tag-Out safety procedures before servicing any equipment.

Pneumatic Lockout

Your belt transfer device has a solenoid and/or a filter regulator associated with it. We recommend that you follow your facilities Lock-Out Tag-Out safety procedures before servicing any equipment.

Confined Spaces

Your belt transfer device could be located in a pit. Please refer to your facilities Confined Spaces procedures.

Familiarize yourself with the machinery

Your belt transfer device may have a diagnostics screen on the HMI. It shows the current IO states of the sensors. The data on this HMI should help you before you begin servicing.

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Common problems and remedies

Device not raising
Ensure that the air pressure is adequate and that the power is on to the system. If in automatic, make sure that the collision safety photo eyes are functioning correctly. If applicable, ensure that interlocking to ancillary equipment is functioning.

Device raising but not running
Ensure that the motor switch is on and that the overload is not tripped.

Device raising and running then immediately lowering
Check the failsafe photo eye for alignment and ambient light changes.

Notes