

Effective March 2020 Rev.A1





Table 1: General Maintenance - Belted DC Conveyor

Туре	Component	Action	Maintenance Frequency	Reference	Notes
		BELTED DO	CONVEYOR		
General	Structural	Check all loose hardware (bolts, nuts, screws, etc.)	Annually	N/A	
General	Overview	Clear debris from conveying surface and electronics	Monthly	N/A	
General	Overview	Investigate any unusual wear spots (belt dust, wear etc.)	Monthly	N/A	
General	Overview	Investigate common jam points for issues	Monthly	N/A	
General	Overview	Investigate unusual noises (squeaks, squeals, rubbing, whining, grinding etc.)	Monthly	N/A	
General	Overview	Clean Panda labels off belt after Panda	Monthly	N/A	
General	E-Stop	Check that E-Stop is functional	Monthly	N/A	
General	Supports	Check supports for integrity and connection to floor/mezzanine	Monthly	N/A	
Belt	Belt	Check Tracking	Weekly	BZPDC, BRBDC, BLVDC Manual Section 7	
Belt	Belt	Check that belt is not slipping on rollers or pulleys	Monthly	N/A	
Drive/Rollers	Bearings (Pulleys & Rollers)	Check Noise	Monthly	N/A	
Drive/Rollers	Bearings (Pulleys & Rollers)	Check Lubrication	Quarterly	Respective Bearing Manual	Do not over- lubricate



Туре	Component	Action	Maintenance Frequency	Reference	Notes
		BELTED DO	CONVEYOR		
Drive/Rollers	Bearings (Pulleys & Rollers)	Check for Wear	Quarterly	N/A	
Drive/Rollers	Bands	Replace any loose or damaged bands	Monthly	BZPDC, BRBDC, BLVDC Manual Section 6	
Drive	Poly-V Belts	Check Tension	Monthly	BRBDC Manual Section 6	
Drive	Poly-V Belts	Check for Wear	Monthly	N/A	
Drive	Poly-V Belts	Check for Sheave Alignment	Monthly	N/A	
Drive	MDR	Check torque of MDR nuts	Semi- Annually	BZPDC, BLVDC Manual Section 6	
Electrical	Sensor - PE (If applicable)	Align Photoeyes (beam on reflector)	Monthly	N/A	Align Photoeyes as needed- General Check monthly
Electrical	Wiring	Check wires on conveyor for degradation, ensure I/O wires are still secured in cards when applicable.	Quarterly	N/A	



Table 2: General Maintenance - Roller DC Conveyor

Туре	Component	Action	Maintenance Frequency	Reference	Notes
		ROLLER DC CON	NVEYOR		
General	Structural	Check all loose hardware (bolts, nuts, screws, etc.)	Annually	N/A	
General	Overview	Clear debris from conveying surface and electronic	Monthly	N/A	
General	Overview	Investigate any unusual wear spots (bands, rollers etc.)	Monthly	N/A	
General	Overview	Investigate common jam points for issues	Monthly	N/A	
General	Overview	Investigate unusual noises (squeaks, squeals, rubbing, whining, grinding etc.)	Monthly	N/A	
General	Overview	Clean Panda labels off rollers after Panda	Monthly	N/A	
General	E-Stop	Check that E-Stop is functional	Monthly	N/A	
General	Supports	Check supports for integrity and connection to floor/mezzanine	Monthly	N/A	
Pneumatics	Air System	Check Drains	Weekly	N/A	
Pneumatics	Air System	Check Compressor Oil Level	Quarterly	N/A	
Drive/Rollers	Bearings (Pulleys & Rollers)	Check Noise	Monthly	N/A	
Drive/Rollers	Bearings (Pulleys & Rollers)	Check Lubrication	Quarterly	Respective Bearing manual	Do not over- lubricate
Drive/Rollers	Bearings (Pulleys & Rollers)	Check for Wear	Quarterly	N/A	
Drive/Rollers	Bands/ Belts	Replace any loose or damaged bands/belts	Monthly	RLCDC, RLSDC, RLVDC, RLVDCG, RZCDC, RZPDC, SPIRAL Manual Section 6	



Туре	Component	Action	Maintenance Frequency	Reference	Notes
		ROLLER DC COM	NVEYOR		
Drive	Poly-V Belts	Check for Wear	Monthly	N/A	
Drive	Poly-V Belts	Check for Sheave Alignment	Monthly	N/A	
Drive	MDR	Check torque of MDR nuts	Monthly	RLCDC, RLSDC, RLVDC, RLVDCG, RZCDC, RZPDC, SPIRAL Manual Section 6	
Electrical	Sensor - PE (If applicable)	Align Photoeyes (beam on reflector)	Monthly	N/A	Align Photoeyes as needed- General Check monthly
Electrical	Wiring	Check wires on conveyor for degradation, ensure I/O wires are still secured in cards when applicable	Quarterly	N/A	
Mechanical	Springs (Only Gates)	Check that gate springs and latch spring are tensioned properly	Monthly	RLVDCG manual Section 5	



Table 3: General Maintenance - AC Conveyor

Туре	Component	Action	Maintenance Frequency	Reference	Notes
		AC CONVEY			
General	Structural	Check all loose hardware (bolts, nuts, screws, etc.)	Annually	N/A	
General	Overview	Clear debris from conveying surface and electronics	Monthly	N/A	
General	Overview	Investigate any unusual wear spots (belt dust, wear etc.)	Monthly	N/A	
General	Overview	Investigate common jam points for issues	Monthly	N/A	
General	Overview	Investigate unusual noises (squeaks, squeals, rubbing, whining, grinding etc.)	Monthly	N/A	
General	Overview	Clean Panda labels off rollers/belt after Panda	Monthly	N/A	
General	E-Stop	Check that E-Stop is functional	Monthly	N/A	
General	Supports	Check supports for integrity and connection to floor/mezzanine	Monthly	N/A	
Pneumatics	Air System	Check Drains	Weekly	N/A	
Pneumatics	Air System	Check Compressor Oil Level	Quarterly	N/A	
Belt	Belt	Check Tracking	Weekly	AC Merge, BRBAC, BSBAC, BSTAC Manual Section 7	
Belt	Belt	Check that belt is not slipping on rollers or pulleys	Monthly	N/A	
Belt	Belt	Check Lacing	Monthly	AC Merge, BRBAC, BSBAC, BSTAC Manual Section 5.3	
Drive	AC Motor	Check Noise	Monthly	N/A	



Туре	Component	Action	Maintenance Frequency	Reference	Notes
		AC CONVEY	/OR		
Drive	AC Motor	Check Temperature	Weekly	Respective Motor Manual (in general do not exceed 72° above ambient temperature)	
Drive	AC Motor	Check Mounting Bolts are Torqued	Monthly	N/A	
Drive	Reducer	Check Noise	Monthly	N/A	
Drive	Reducer	Check Temperature	Monthly	Respective Motor Manual (in general do not exceed 100° above ambient temperature)	
Drive	Reducer	Check Oil Level	Quarterly	Respective Motor Manual	
Drive	Reducer	Change Oil	10,000 hours run time or every 3 years of operation	N/A	
Drive/Rollers	Bearings (Pulleys & Rollers)	Check Noise	Monthly	N/A	
Drive/Rollers	Bearings (Pulleys & Rollers)	Check Lubrication	Quarterly	Respective Bearing manual	Do not over- lubricate
Drive/Rollers	Bearings (Pulleys & Rollers)	Check for Wear	Quarterly	N/A	



Table 4: General Maintenance - Sorters

Туре	Component	Action	Maintenance Frequency	Reference	Notes
		SORT			
General	Structural	Check all loose hardware (bolts, nuts, screws, etc.)	Annually	N/A	
General	Overview	Clear debris from conveying surface and electronics	Monthly	N/A	
General	Overview	Investigate any unusual wear spots (belt dust, wear etc.)	Monthly	N/A	
General	Overview	Investigate common jam points for issues	Monthly	N/A	
General	Overview	Investigate unusual noises (squeaks, squeals, rubbing, whining, grinding etc.)	Monthly	N/A	
General	Overview	Clean Panda labels off rollers/belt after Panda	Monthly	N/A	
General	E-Stop	Check that E-Stop is functional	Monthly	N/A	
General	Supports	Check supports for integrity and connection to floor/mezzanine	Monthly	N/A	
Pneumatics	Air System	Check Drains	Weekly	N/A	
Pneumatics	Air System	Check Compressor Oil Level	Quarterly	N/A	
Drive	AC Motor	Check Noise	Monthly	N/A	
Drive	AC Motor	Check Temperature	Weekly	Respective Motor Manual (in general do not exceed 72° above ambient temperature)	
Drive	AC Motor	Check Mounting Bolts are Torqued	Monthly	N/A	
Drive	Reducer	Check Noise	Monthly	N/A	



Туре	Component	Action	Maintenance Frequency	Reference	Notes
		SORT			
Drive	Reducer	Check Temperature	Monthly	Respective Motor Manual (in general do not exceed 100° above ambient temperature)	
Drive	Reducer	Check Oil Level	Quarterly	Respective Motor Manual	
Drive	Reducer	Change Oil	10,000 hours run time or every 3 years of operation	N/A	
Drive	Drive Chain (if applicable)	Check Elongation	After first 100 hours or 2 weeks, and every 500 hours or 2 months thereafter	Shoe Sorter Installation and Maintenance Manual Section 7.4	
Drive	Drive Chain (if applicable)	Check Noise	Monthly	N/A	
Drive	Drive Chain (if applicable)	Check Lubrication	Monthly	Shoe Sorter Installation and Maintenance Manual Section 5.1.12 & Section 7.4	
Drive	Drive Chain (if applicable)	Check for Wear	Quarterly	N/A	
Drive	Sprockets (if applicable)	Check for Wear	Quarterly	N/A	
Drive	Sprockets (if applicable)	Check Set Screws & Keys	Quarterly	HRT, GTPW Manual Section 6	
Drive	Belts/Bands (if applicable)	Check Tension	Monthly	HRT, GTPW Manual Section 6	
Drive	Belts/Bands (if applicable)	Check for Wear	Monthly	N/A	
Drive	Belts/Bands (if applicable)	Check for Sheave Alignment	Monthly	N/A	
Drive/Rollers	Bands/ Belts	Replace any loose or damaged bands/belts	Monthly	HRT, GTPW, PWD Manual Section 6	



Туре	Component	Action	Maintenance Frequency	Reference	Notes
		SORT	ERS		
Drive/Rollers	Bearings (Pulleys & Rollers)	Check Noise	Monthly	N/A	
Drive/Rollers	Bearings (Pulleys & Rollers)	Check Lubrication	Quarterly	Respective Bearing manual	Do not over- lubricate
Drive/Rollers	Bearings (Pulleys & Rollers)	Check for Wear	Quarterly	N/A	
Electrical	Sensor - PE (If applicable)	Align Photoeyes (beam on reflector)	Monthly	N/A	Align Photoeyes as needed- General Check monthly
Electrical	Sensor - Prox (if applicable)	Clean Prox Sensors	Quarterly	N/A	-
Electrical	Wiring	Check wires on conveyor for degradation, ensure I/O wires are still secured in cards when applicable.	Quarterly	N/A	



Table 5: Manual Reference

OEM/TYPE	Doc Number	URL Conveyor	NOTES
ZiPline	N/A	https://www.bastiansolutions.com/about/media- library/downloads/product-manuals/zipline- manuals/	Directory for all ZiPline Conveyor Manuals
		Bearings	
Dodge	MN3016	https://www.baldor.com/mvc/DownloadCe nter/Files/MN3016	
Peer	N/A	http://www.peerbearing.com/pdf/peer_mounted _units_catalog.pdf	Greasing data in Section 5.2
Motors	ı		
Dodge	MN1698	https://www.baldor.com/mvc/DownloadCenter/ Files/MN1698	
SEW	11358912	https://download.sew- eurodrive.com/download/pdf/11358912.pdf	Lubrication data in Section 10.1
Teknic	ClearPath User Manual	https://www.teknic.com/files/downloads/clearpa th_user_manual.pdf	
Cards	1		
Interroll/9006	N/A	https://www.interroll.us/fileadmin/user_upload/ AMERICAS/User_Manuals/9006_Manual_201_ 20402.pdf	
Interroll/Zone Control	N/A	https://www.interroll.com/fileadmin/user_upload /DownloadsPDF_/User_Manuals/Controls/e n_ZoneControl_V1_en_11-01-12.pdf	
Itoh Denki/CB- 016P7-UL	N/A	https://itohdenki.co.jp/english/support/manual.h tml	
Itoh Denki/CBM- 105FP	N/A	https://itohdenki.co.jp/english/support/manual.h tml	
Itoh Denki/HBM- 604BP	N/A	https://itohdenki.co.jp/english/support/manual.h tml	
Itoh Denki/IB- E03	N/A	https://itohdenki.co.jp/english/support/manual.h tml	
Itoh Denki/HB- 510P	N/A	https://itohdenki.co.jp/english/support/manual.h tml	
INSIGHT/EZ24	N/A	https://www.pulseroller.com/files/NA/Control%2 0Literature%20&%20Drawings/EZ- 24/Users%20Manual%20and%20Specification s/Users_Guide.pdf	