

Technical News Bulletin

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Precision Conveyor Chains – Key for better Ware Handling



1. Introduction

The increasing speed of the ware handling over the past few years and the introduction of the FlexPusher are highlighting additional improvement potentials on the related ware handling equipment. With precise placement of containers with the FlexPusher, a lot of variations are taken out of the process. This clearly showed that the conveyor belt is a remaining source of variations.

As part of our continuous improvement philosophy, our current range of conveyor belts has recently been investigated and improvements have been introduced.

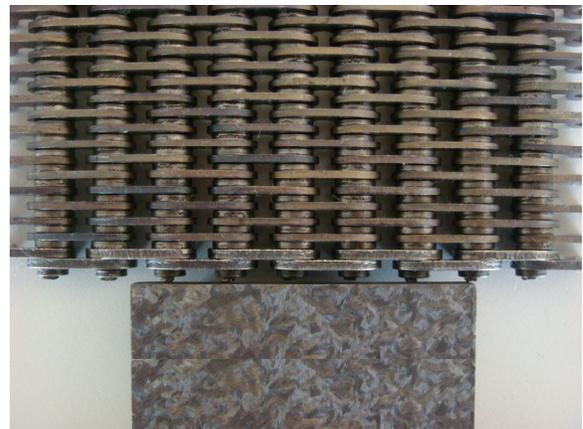
2. Features

The new standard Emhart Glass laser welded belt provides an exact guiding of the belt without protruding rivet heads. This allows a very small gap between the dead plates and the running belt for a smooth sweep out without any instability of the container. This technology prevents lateral movement of the joint pivots and results in a higher stability of the belt.

The deburring of the links improves the consistency of the gliding of the containers over the belt during the sweep out. Especially containers with knurling have a reduced risk with the deburred chain that they will fall over.



New standard laser welded chain



Old rivet chain

In addition to the standard laser welded chain, a special high speed chain is also available. This chain is based on the same components as the standard chain but with a different manufacturing method which guarantees a very constant belt speed. The chain will be delivered in one piece from Emhart Glass. This means only one joint has to be closed and a mixing of different pieces of belt is avoided.

The rolling pivot joint with the hardened axle and the rolling pivots only create rolling friction, not like one pin chains sliding friction at the links. This is having a significant influence on the elongation and lifetime of the belt. With the reduced friction in the pins the ware handling will be more constant over a longer period of time without readjustment of the belt speed.

Especially high speed applications with tight ware spacing's require a very stable and constant belt speed to avoid touching containers and pusher fingers which have contact with the following bottles. The variations caused by the belt are reduced to a minimum with the new version of the laser welded chain.

4. Specification

Emhart Glass part number	Pitch [inch]	Width [mm]	Type
59-11077	1/2	150	Standard
59-90409	1/2	180	Standard
59-90310	1"	180	Standard
59-34 139-XX	1/2	150	High Speed

For each belt 3 connection sets are included into the delivery. In order to make the closing of the last joint as easy as possible the jig 48-94514 can be used to hold the end of the belt in position during the closing.

The right length can be found at the drawing 117-8219-00. For the high speed chain the group number will be provided by picking the right configuration and adding the group number to the chain number 59-34139-XX

Example:

Conveyor belt length of 30.1m → Group 80 → 59-34139-80