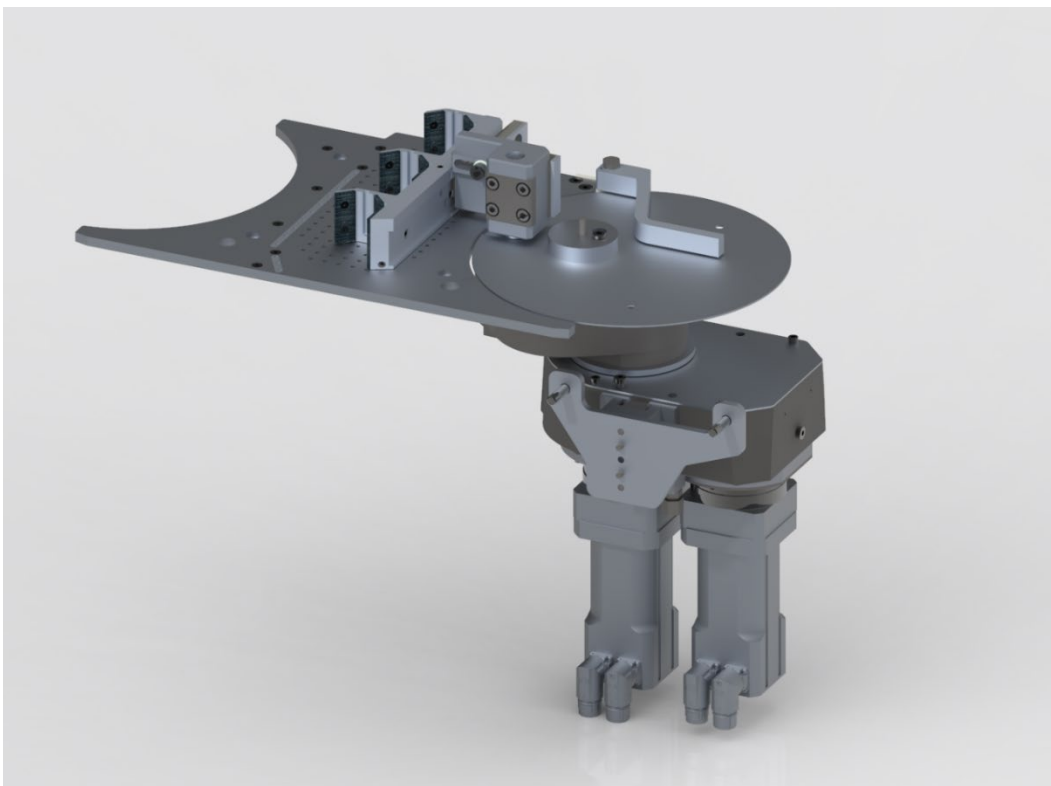


Technical News Bulletin

Steinhausen, January 2024



FlexPusher Improved Robustness

- High product standard achieved by:
 - implementation of design improvement
 - robust functionality
 - long-term durability
- Quality and availability throughout the entire product life cycle guaranteed using original spare parts for optimal performance

Introduction

Since the launch of the FlexPusher, the installed base has expanded significantly to reach thousands of systems. The notable success of the FlexPusher can be attributed to its state-of-the-art kinematics and drive algorithm, seamlessly integrated into a modular framework, and complemented by a sophisticated and robust design. This combination ensures that the FlexPusher meets all application requirements with excellence. Our commitment to continuously track customer applications and feedback has facilitated strategic enhancement in the product life cycle, resulting in elevated robust functionality and long-term durability. We at Bucher Emhart Glass are devoted to expanding our product range as needed to meet and exceed customers' expectations.

Major Improvement

Continuous monitoring of the FlexPusher operation across various contexts has resulted in the implementation of several design modifications and improvements. Specifically, the focus has been on the following aspects:

Notice: The improvements listed have been included in all newly built FlexPusher mechanisms, delivered forming machines and standalone conveyors since 2012.

1. Enhanced heat-resistant upper drive belt article number 59-90790.

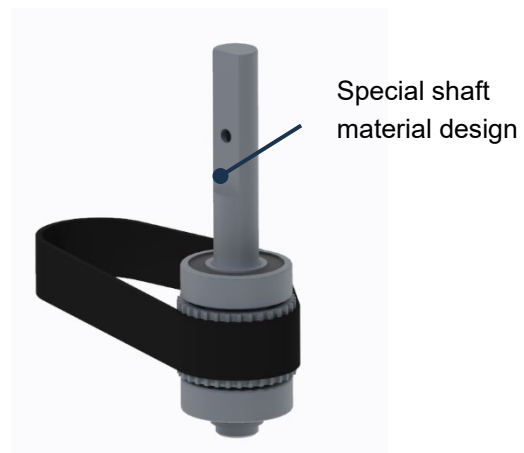
Best performance is guaranteed using the original type for upper and lower belts:

- 59-90790 for upper belt
- 59-90791 for lower belt

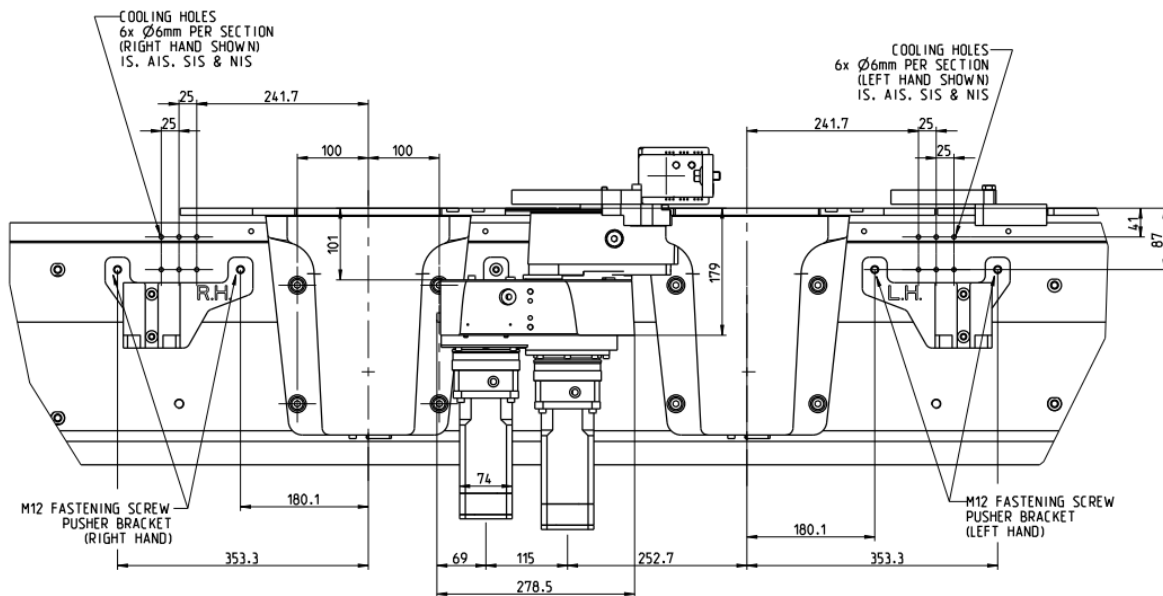


2. Shaft material optimization to reduce the heat transfer into the upper housing.

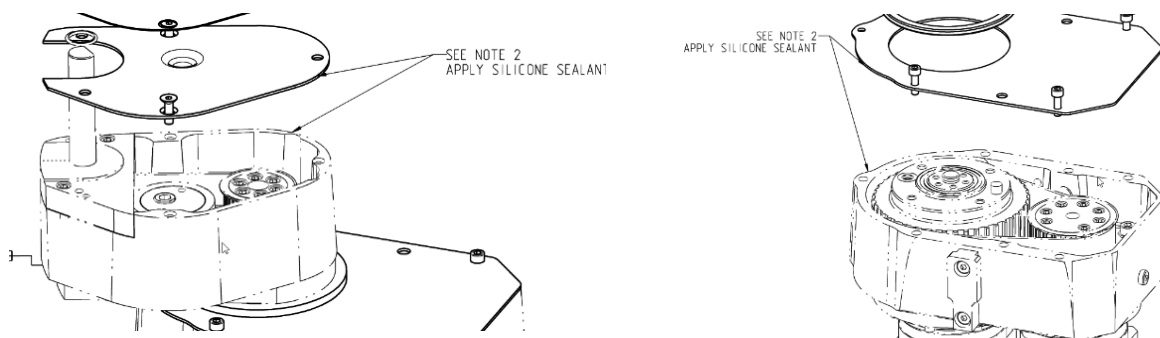
The performance is guaranteed using the BEG original spare part article number 904-5179



3. Additional cooling channels from the conveyor girder ease reducing the temperature of the upper housing of the FlexPusher for enhanced durability of specific components.



4. Use of Silicone sealant to prevent from contamination, type Dow Corning 7091, to the lower and upper housing when mounting the covers.

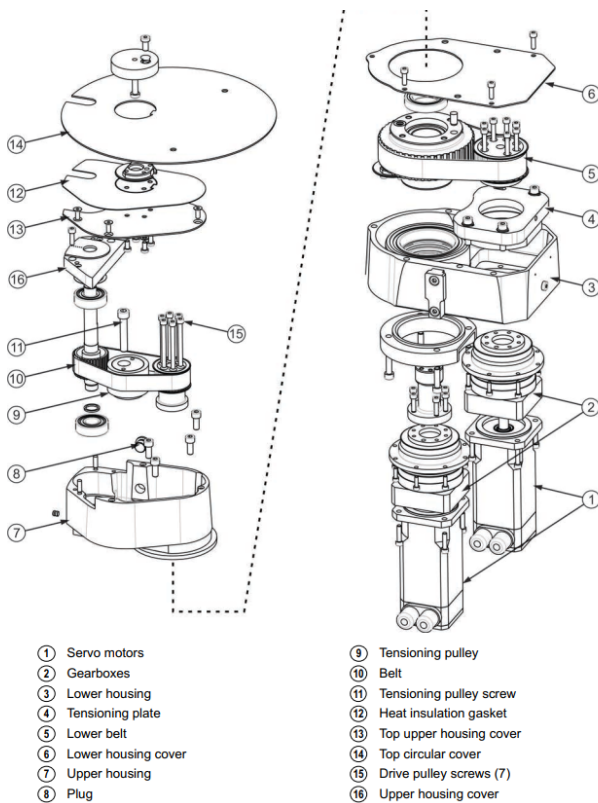


Reference documents

You can find detailed information about these topics in following drawings:

- 904-6-8 Pusher Mechanism
- 904-60 FlexPusher (layout for cooling channels)
- 904-7-1 Cover (upgrade)

How to exchange the upper belt



The clever design makes it easy to check the upper drive belt and change them, if necessary, proceed as follows:

- a) With the covers (index 12-14) removed, loosen the tensioning pulley (index 9).
- b) Remove the upper housing cover (index 16). Loosen the two screws holding the cover and press on them to pull the cover out.
- c) Remove the belt (index 10) and replace with HT belt 59-9070 DNHU9590.
- d) Remove the plug (index 8) located on the side of the upper housing (index 7) and insert the tensioning tool 94-461-1.
- e) Move the tensioning pulley to align the two scribed lines on the tensioning tool (94-4860) and tighten the screw (index 11) in this position.
- f) Check for the alignment of the scribed lines. Readjust if necessary.
- g) Remove the tensioning tool and insert the plug.
- h) Follow steps a & b in reverse, to reassembly the mechanism.

Preventive maintenance

Recommended preventive maintenance interval for the upper belt:

- Check for belt condition and backlash every 12 months. If belt is OK, no replacement is needed
- If belt is in bad condition or the tension needs to adjusted follow the work principle described above

Field Upgrade

Emhart parts are available for field upgrade.

Should you have any questions related to Emhart Original parts, please feel free to contact us. We are committed to providing you with prompt responses to your queries.

For additional guidance on setup and maintenance, you can refer to the latest revision of our comprehensive HE51003 - FlexPusher (UC2) - Instruction Notice manual.