

# SYSTEM PLAST® CHAIN WITH GS1 STYLE GRIPPERS - 1873 SERIES

## APPLICATION

Bottle elevator to palletizer

## SOLUTION TYPE

Increased Product Handling and Energy Savings  
Reduced Noise Levels

## DESCRIPTION OF PROBLEM

A competitor's stainless steel gripper chain was being used to elevate different sized glass bottles (round, square, reverse taper) to a high level palletizer in the plant. This manufacturer operates nonstop, year around, making it important to have a trouble free operation and a well designed gripper style chain to handle the variety of bottle shapes. The manufacturer was facing a high power consumption and wear on the wear strips. The competitor's gripper was not meeting the customer's expectations.

## SITUATION

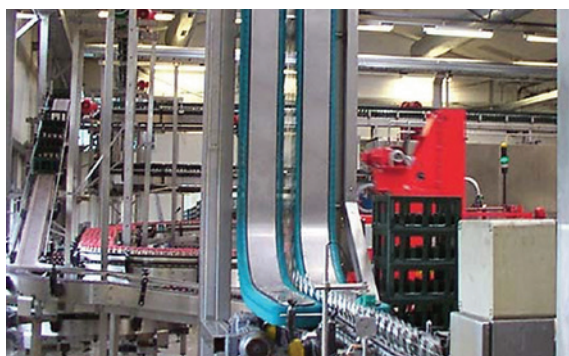
Packing: empty glass bottles  
Weight: 5.29 (oz./pc)  
Capacity : 42,000 (bottles/hour)  
Speed: 213 (ft/min)  
Size: Ø1.5 - Ø3 (in.)  
Line position: bottle elevator  
Lubrication: no lubrication  
Abrasives: glass particles  
Special conditions: different shaped jars and bottles; no cleaning

## SYSTEM PLAST® SOLUTION

The System Plast 1873 chain with GS1 style grippers made it happen. The product handling ability is excellent with the different bottles. Also, the power consumption was reduced by 60%. After 6 months of nonstop dry running, no noticeable wear was found. At the same time, the noise level was reduced significantly.

## KEY CUSTOMER NEED(S) AND BENEFITS FROM SYSTEM PLAST PRODUCTS

The 1873 side flexing gripper chains provide exceptional durability and extremely low noise levels resulting in optimum performance. The gripper pads are utilized for a wide range of applications due to their unique mechanical properties. They offer resistance to laceration, abrasion, and other ambient influences.



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## FEATURES AND BENEFITS

Gripper chains are mainly used for elevators, lowerators, rinsers and washers for bottles, jars, cans, crates and boxes. In the food and beverage industry, hygiene plays an important role. The use of chemicals for cleaning and sanitizing is increasing. This calls for chains that are suitable for applications with chemical washdowns. System Plast has developed a range of chemical resistant gripper chains, a full plastic version and a snap-on-top-plate version.

The advantages of System Plast gripper chains are:

- Exceptional durability
- Optimum grip
- Extremely low noise level
- Design uses a knurled pin to secure gripper to chain-making it more secure than many competitor's tab retention method
- Gripper pads can be replaced if necessary
- Strong rubber pads with long wear life
- Able to handle chemical spills and washdowns



**NG<sup>®</sup> Available as NG<sup>®</sup> evo components for lower friction, improved wear life, higher load capacity, less dusting and direct food contact capability.**

## SYSTEM PLAST<sup>®</sup>

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### APPLICATION CONSIDERATIONS

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