

## Simple. Pressureless. Accumulation. Buffering. Line Control.

High speed packaging lines require intelligent conveyance in order to achieve maximum performance. The Hartness DYNAC is a simply innovative solution that is designed to improve the throughput and efficiency of high-speed packaging lines. The 7100 series DYNACs are mass flow systems that provide sequential first in first out accumulation and pressureless product handling, as well as unique line balancing characteristics for containers.

DYNAC has the ability to automatically expand its usable length based on line conditions. Frequent showdowns and "micro-stops" that are inherent, even in the best designed lines, can dramatically reduce throughput. DYNAC virtually eliminates the effect of these occurrences, raising productivity by providing a constant and optimal product flow from machine to machine.

Unlike some systems that simply provide accumulation, DYNAC's space-saving configuration enables the implementation of Hartness' DYNAC-centric line concept. The DYNAC-centric line design eliminates complicated line controls and allows equipment centers

to be positioned close together in a smaller footprint. The DYNAC between the two centers isolates these from each other so each run at its optimum efficiency.

DYNAC-centric lines also require fewer operators and less space, while consuming fewer utilities than traditional packaging lines. Because DYNAC virtually eliminates container pressure, DYNAC-centric lines operate with minimal noise, even when running glass.

Like most of the Hartness mass flow systems, the 7100 FT handles a variety of container formats including plastic, glass, and aluminum as well as many types of non-round containers. Unlike the design of Hartness' other floor level DYNACs, however, this mass flow DYNAC has a unique configuration: the infeed and outfeed chains in the 7100FT flow straight through in the same direction. This gives our customers additional flexibility when designing their lines without losing any of the proven advantages and benefits of the Hartness DYNAC.



The DYNAC 7100 decreases the size and complexity of packing lines while improving throughput and efficiency.

### Benefits

- / Pressureless accumulation for even the highest speed lines
- / Increased line efficiency
  - Balances container flow between machine centers
  - Reduces line pressure (eliminates micro-stops)
- / Sequential first-in/first-out accumulation
- / Improved product quality
  - Reduced breakage and label damage
  - Eliminates pressure
- / Flexible operation
  - Wide product range
  - Wide speed range
  - No changeover
- / Reduced labor needs
  - Extremely low maintenance
  - Allows close-coupling of line components for shared operators
- / Other DYNAC configurations
  - Inline Flow Through design
  - Standard Mass Flow in/out

ITEM	DESCRIPTION	
chain width	45 in x 15 in	60 in x 20 in
infeed width x discharge width		
accumulation (1 mid section)*	32 ft <sup>2</sup> (2.9 m <sup>2</sup> )	35 ft <sup>2</sup> (3.2 m <sup>2</sup> )
accumulation (6 mid sections)*	202 ft <sup>2</sup> (18.7 m <sup>2</sup> )	273 ft <sup>2</sup> (25.3 m <sup>2</sup> )
maximum infeed chain width	24 in (609 mm)	24 in (609 mm)
maximum discharge chain width	15 in (381 mm)	20 in (508 mm)
overall footprint		
fixed width	8.0 ft (2.4 m) x	9.75 ft (2.9 m) x
x 6 mid sections	73.3 ft (22.3 m)	73.3 ft (22.3 m)
maximum speed	application dependent	application dependent

\*for reference only - product dependent



### Powered Spider

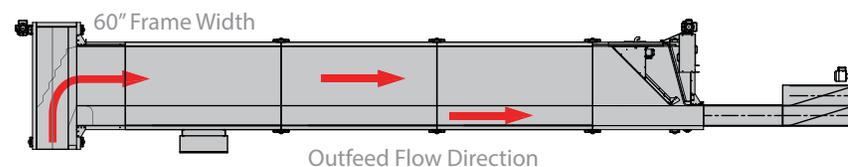
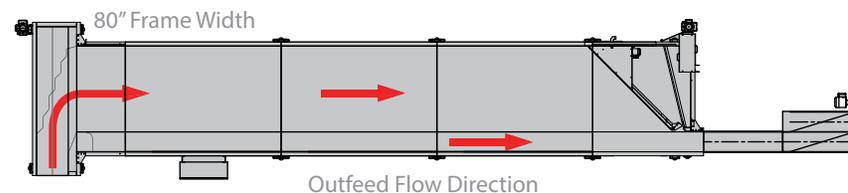
The DYNAC 7100FT is equipped with a powdered spider that facilitates the flow of containers and allows non-round containers to be accumulated without bridging.

The dimensions, descriptions, illustrations, and other particulars in this profile are given in good faith but are not intended to and do not constitute any guarantee or warranty given by ITW Hartness or form any part of any contract. Photographs and/or illustrations may be shown with optional equipment or without safety guards in order to show features. ITW Hartness designs are covered by numerous US and International Patents.

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The DYNAC 7100 FT is versatile with configurations to suit your application requirements. Containers freely Flow Through into the DYNAC with little or no pressure. DYNAC accumulates, expanding and contracting on demand, all the while synchronized to the flow of product on your line.



### The DYNAC Advantage

DYNAC separates the upstream and downstream machine functions on your line, constantly and automatically modulating product flow between two machine centers. DYNAC eliminates the effects of any microstops, improving line throughput.

