



# *Tight***PACK**<sup>TM</sup>

Oven & Washer  
Spoilage Reduction System

## Technical Presentation

## Problem Statement:

Plants running older washers experience high rates of spoilage due to tipped cans on both sides of the can-pack. This is typically a result of high-pressure nozzles spraying from top and bottom (in Stages 1 and 2), or blow-off air, combined with inadequate can-pack side support provided by originally installed Valu Guides. Most Valu Guides in older washers no longer serve their intended purpose (providing side support to the can-pack) because either: (A) they have been damaged after years of abuse, or (B) they are no longer at the correct width due to a can size-change.

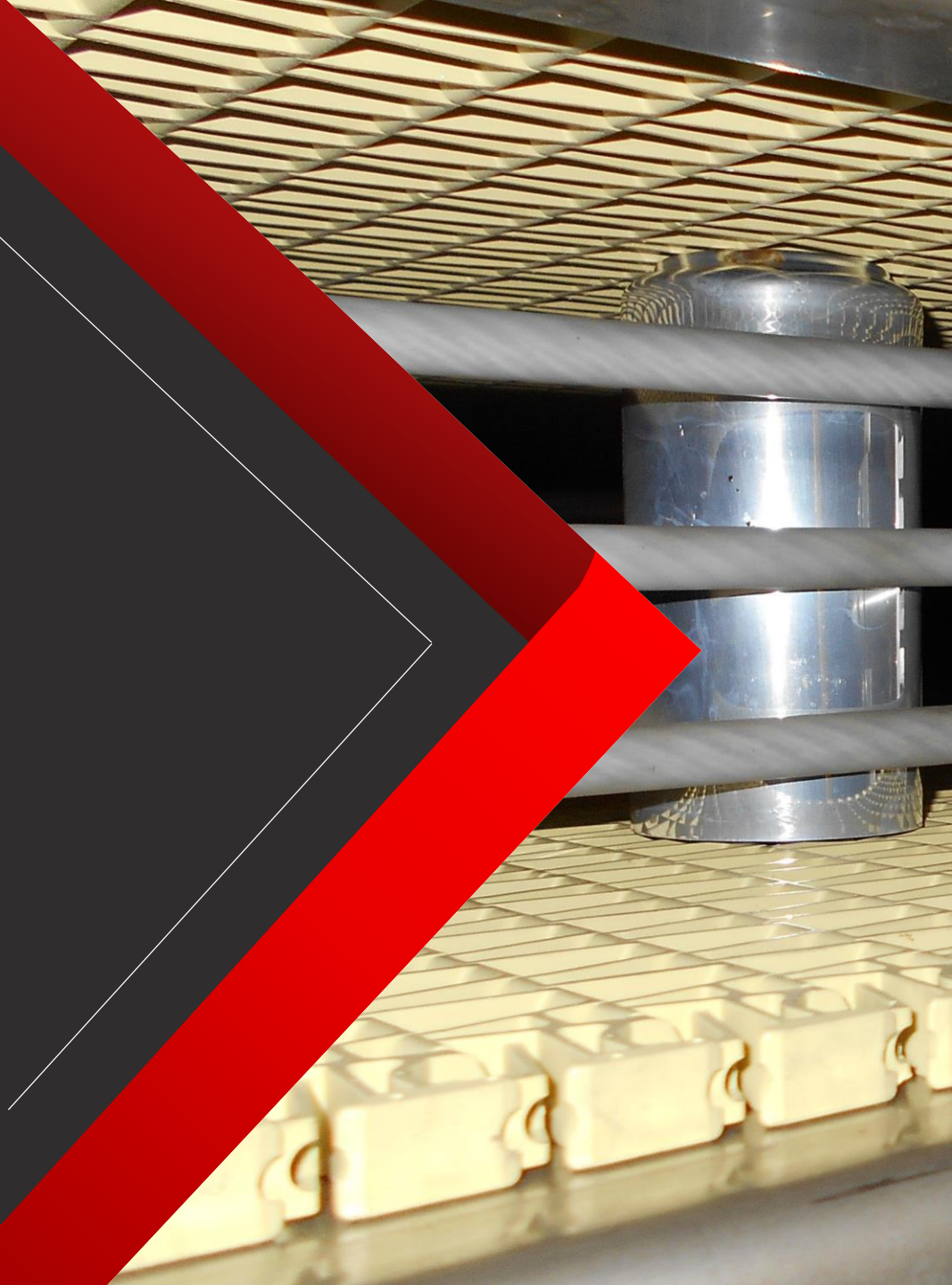


The logo for TightPACK, featuring the word "Tight" in a white script font and "PACK" in a bold, white, sans-serif font, set against a red arrow-shaped background pointing to the right.

*Tight***PACK**

## System Description:

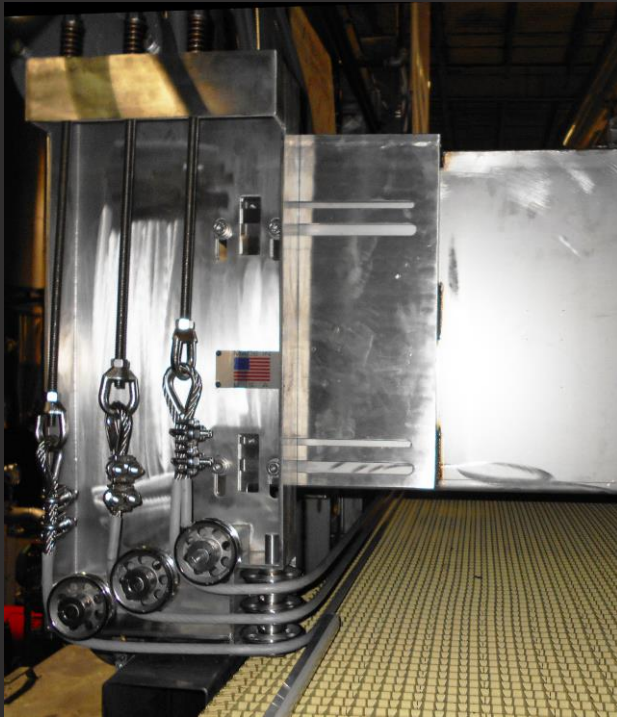
The TightPACK Washer Spoilage Reduction System consists of a series of coated, Stainless Steel cables, running on both sides of the washer, supporting the can-pack at a pre-determined width. By maintaining a set pack-width, spoilage caused by tipped cans is eliminated because there is no room for cans to tip. The TightPACK system requires only 12-hours of washer down time for installation, and allows for easy adjustment of pack-width (and location), making it an ideal replacement solution for inadequate OEM Valu Guides.





# *Tight***PACK**

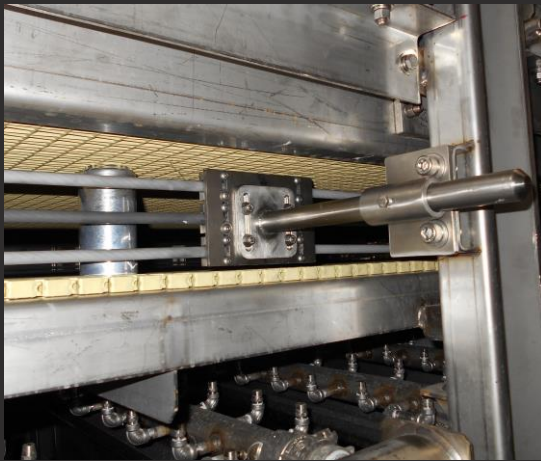
## *Component Overview: Infeed Cable Assemblies*



Custom cable assemblies are designed to fit the infeed of the washer in either 3 or 4 cable configurations (depending on can height). The assemblies assure proper cable tensioning is maintained. Mounting brackets are welded to the washer and allow the horizontal location of the assemblies to be easily adjusted as part of the can pack-width change process.

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## *Component Overview: Adjustable Side Guides*



Side guides serve three main purposes: (1) They assure proper cable height and spacing relative to can wall, (2) They prevent the cables from sagging, and (3) They set the can-pack width in the washer. Side guide assemblies are welded to the washer frame at blow-off locations. Depending on the length of Stage 2, an additional side guide assembly may need to be installed at an access port. Side guides are easily adjustable for can-pack width adjustments, with adjustment arm locations marked for washers running multiple can sizes.

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## *Component Overview: Discharge Cable Assemblies*



Discharge cable assemblies are custom designed to fit the limited space available at the end of the washer (prior to the washer-oven). The primary function of the discharge cable assembly is for cable termination.



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## *Component Overview: Coated Stainless Steel Cables*



Polypropylene coated Stainless Steel cables provide excellent corrosion resistance to washer chemicals, while also providing a smooth contact surface to the cans that will never scratch or damage the side wall surface.

# *Tight***PACK**

## Typical Installation Timeline

### *STEP 1*

On-Site Audit

1-day duration

### *STEP 2*

Design,  
Manufacture &  
Order Parts

8-10 week duration

### *STEP 3*

Pre-Assembly &  
Shipment of Parts

1-2 week duration

### *STEP 4*

On-Site Installation

1-day pre-work +  
1-day install w/ 12-hour  
washer down-time



# Data and Statistics

**2011**

First  
TightPACK  
Installed

**25+**

Systems  
Installed  
Worldwide

**100%**

Customer  
Satisfaction  
Rate

**0%**

Tipped-Can  
Spoilage  
After Install

Since the first TightPACK installation in 2011, every system has provided immediate performance results and excellent customer satisfaction. Because of excellent product performance, various plants have installed the TightPACK systems to all washers, while other can manufacturers have specified TightPACK systems be installed on all new washers.

# Value Comparison

## OEM Solution

**Replace or  
Reconfigure  
Valu Guides**

- Requires 2-3 days washer down-time
- Not designed for pack width adjustments
- Not designed for guide height adjustments
- Turn-key installation cost > TightPACK

## **TightPACK**



- Requires 12-hours washer down-time
- Pack width adjustments in ~ 1 hour
- Cable height adjustments in ~ 1 hour
- Turn-key installation cost < OEM Solution



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