



## Standard Upgrades - NIGRELLI Series



### Upgrade your existing packaging equipment

Upgrading your existing packaging equipment can be a cost-effective alternative to replacing some units or systems. Our experienced team will audit your equipment and determine the feasibility and benefits of upgrading your system to improve its effectiveness.

### Why should I upgrade?

There are multiple reasons for needing to upgrade your existing packaging equipment from a need for increase packaging volumes, new industry requirement that require a change to your existing products, safety concerns or old inefficient equipment to rebuild. We have upgrades available for our legacy brands including but not limited to: Control Systems, Safety Upgrades, Change Parts, End-of-Arm Tooling, Certified Pre-owned Tray and Bliss Formers, Top and Tier Sheet Dispensers, Pallet Dispensers, Packaging Line Relocation, Line Layout Changes, Pattern Changes, Obsolete Components, Complete rebuild of machine, Palletizer and Depalletizer Upgrades, Updating earlier models with latest innovation advancements.

[AMBEC](#) | [CBI](#) | [Fleetwood](#) | [Goldco](#) | [Nigrelli](#) | [Streamfeeder](#) | [SWF](#) | [Thiele](#) | [Tisma](#)

To learn more about Barry-Wehmler Packaging Systems go to [BWPackagingSystems.com](http://BWPackagingSystems.com)

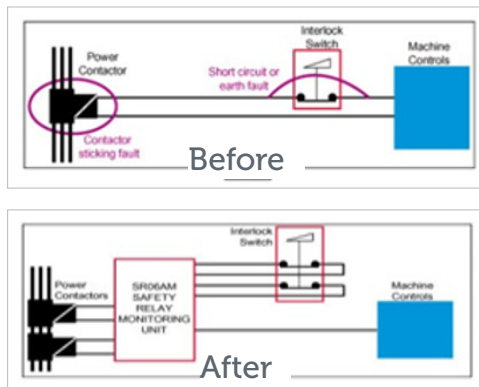
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## Electrical Upgrades

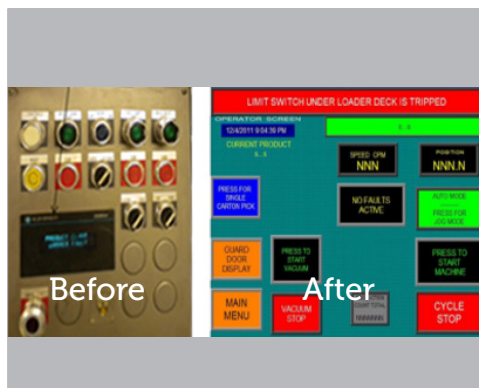
### Category 3 and 4 Interlock Safety Upgrades

BEFORE image depicts OLD Category 1 circuitry, featuring a door switch and safety relay. This safety circuit is more susceptible to failure than new Category 3 circuitry. AFTER image shows Category 3 safety circuitry, featuring door switches with two redundant contacts and a relay that monitors and detects safety levels.



### HMI Touchscreens

Replaces pushbutton controls with a touchscreen. Depending on the machine, this may require an upgrade to the PLC at same time due to Ethernet connection. Can also upgrade by adding new screens to the existing HMI touchscreen. New Screens include: History and diagnostic screens of downtime and jams; preventive maintenance screen that indicates with flashing button when and what needs maintenance; product recipe screen.



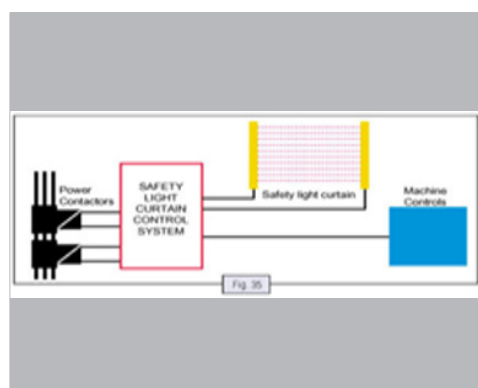
## Industrial Router

Links your PLC, servos, and touchscreen programs with our experienced team so we can troubleshoot your issues right from our office. We can monitor the machine running in real time to troubleshoot issues (such as bad photo-eyes, valves, or program issues). You save money by minimizing your downtime as well as avoiding the costs and delay of arranging a service trip.



### Light Curtain

When there's an area large enough for an individual to reach or step in, the risk for injury increases. When guarding isn't an appropriate solution, a light curtain should be used to meet category 3 safety requirements. Disrupting the light curtain will shut down the machine and ensure the safety of the operator.



## Communication

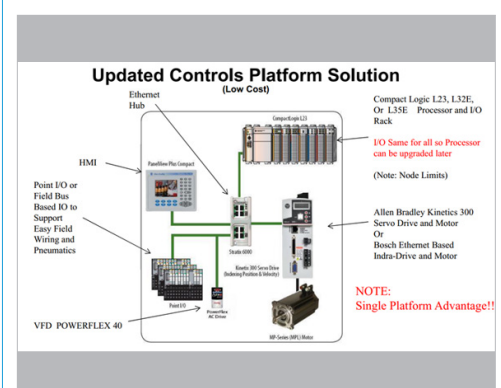
### PLC

Replaces obsolete Allen Bradley Controllers such as the PLC 2 and 5 families, SLC family up to 503. Machine will be upgraded to a Logix Series (size is dependent on machine). This upgrade will also connect Ethernet capabilities to the machine. This could be mandatory if an HMI touchscreen interface is also selected as an upgrade.



### Servo Platform

Replaces obsolete servo drives, such as Indramat or Emerson with newer replacements. Another option is to choose an Allen Bradley integrated solution which also requires changing out servo's and PLC's (Compactlogix or Controllogix) to place them on one communication platform.

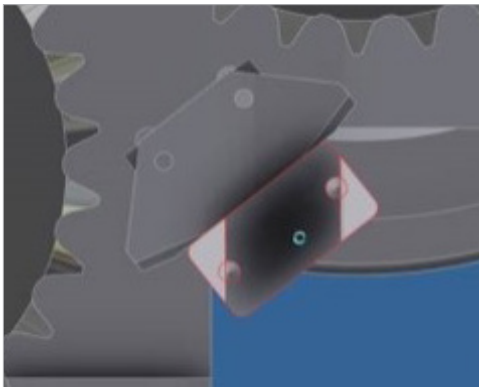




## Mechanical Upgrades

### Angled Product Pusher Bar

Redesigned to incorporate new angles on the pusher bars to allow for more clearance between products so fewer pusher jams occur. The new angled pusher bars are a direct replacement for the existing parts. Simply change them out and the system is back up and running more efficiently.



### Compression Section Extension

Extends the compression belts from 15" to a total 60" of compression area. This eliminates any glue set up issues when running at higher speeds or when ambient temperature is high. Includes the complete assembly, plus gearboxes and new fold and glue rails.



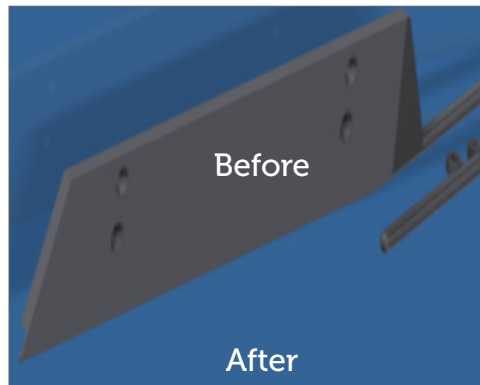
### Envoy Mechanical Rebuild

Complete rebuild includes all mechanical parts such as air cylinders, shafts, bearings, sprockets, chains, torque limiters, compression belts, and all infeed components. Can also include electrical control package upgrade to latest technology. Rebuild can take place at one of our facilities or on-site at customer's facility.



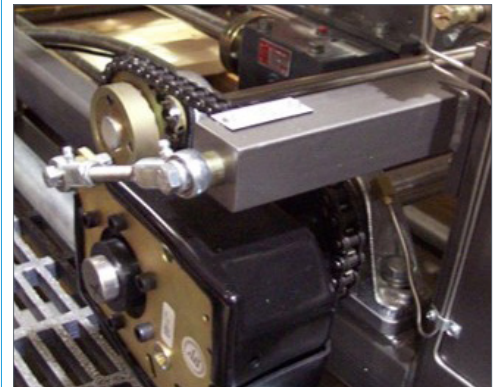
### Fold & Glue Rail

This important upgrade replaces the flap cam way style of folding with a new, longer, folding rail. By designing it to extend further, it keeps the flaps captured when they are tucked. It also has a lower height to allow the rails to be adjusted down further and still glue properly.



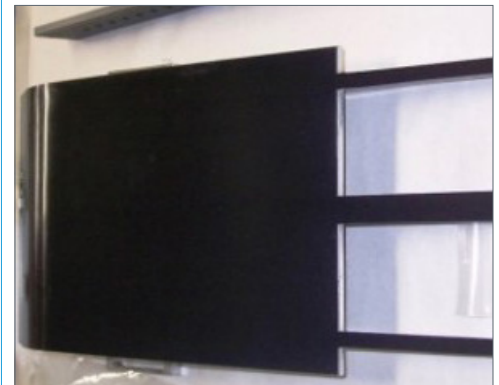
### Grouper Clutch

This upgraded clutch eliminates premature clutch failures that can happen with the previous design. The kit is a direct replacement and will install in just a couple hours.



### Low Friction Transfer Plate

Offers easier transfer for trays from the pusher section to the pocket chains. With a lower friction material, a more consistent timing of the trays to the product is achieved - especially when running multiple sizes.



## Mechanical Upgrades

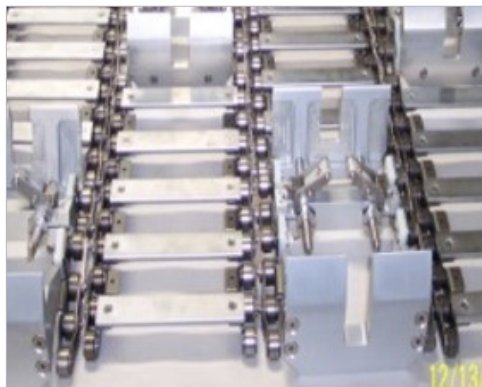
### Magazine Extension

Extends the magazine for more capacity to hold corrugated trays. Add up to an additional 7 feet of capacity (from 5ft magazine to 12ft magazine), which provides approximately 600 more blanks of capacity.



### Pocket Chain Rear Pad

New rear pocket pads design that have a flat surface instead of a void that could catch on a tray flap. This upgrade is available complete with new pocket chain or rear pads only.



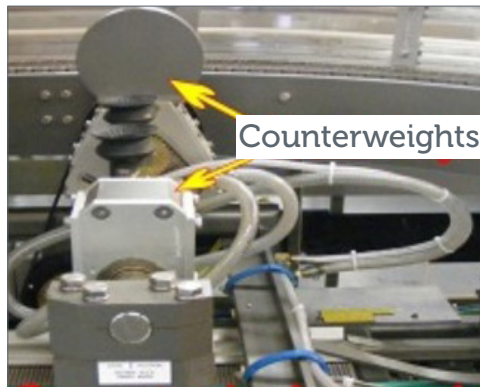
### Product Change

If a package change is required, BW Integrated Systems can rebuild the machine on-site in the customer's facility or the customer can ship it to one of our facilities for a complete product change and rebuild.



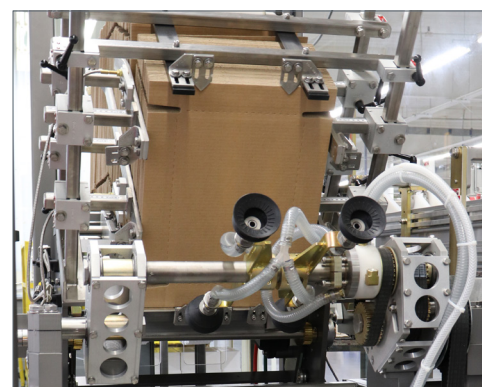
### Rotary Feed

This counterbalanced rotary feed shaft is a direct replacement for the existing unit. This upgrade eliminates overhung load to reduce premature wear of bearing, chains, belts, and the entire drive system.



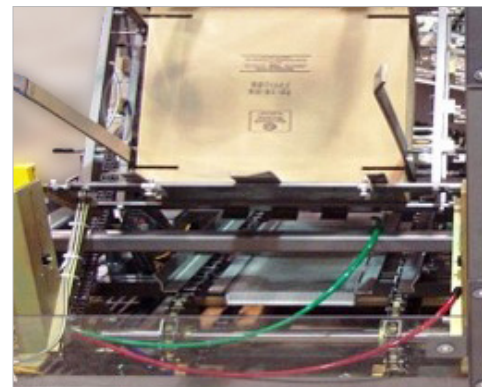
### Rotary Tray Shaft Exchange Program

Reduces downtime and minimizes install time. Simply order a complete tray feed shaft assembly for immediate delivery. We will build and ship it to the customer's facility. Once received, the complete assembly can be replaced within a couple hours. After replacement, the old core can be sent back to BW Integrated Systems for a credit of the core value.



### Tray Vacuum Plenum

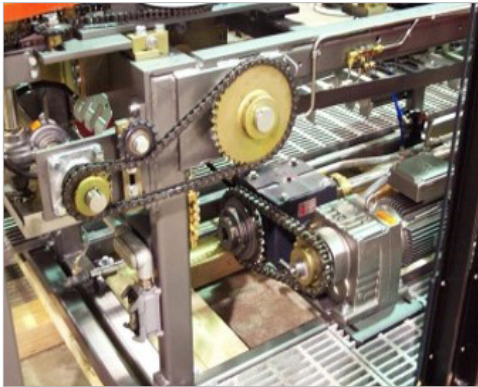
This efficient 120 volt stainless steel vacuum plenum replaces the large 3 phase remote mounted blower unit for, not only efficiency improvements, but also a quieter system. The vacuum plenum assures that the trays are constantly controlled. It also eliminates the bouncing or skewing of cartons as well as misfeeds.



## Mechanical Upgrades

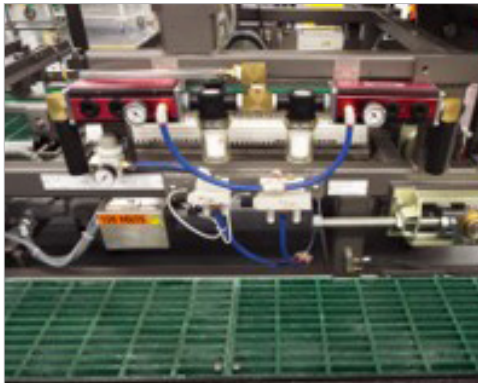
### Traypacker Speed Change

This upgrade kit will change the overall machine's speed. There are two different kits: the first kit is for sprocket and chain only; the second kit includes the sprockets and chain, as well as a new drive motor gearbox.



### Vacuum Generator

This updated design is 60% more efficient in operation than older-model generators. They have external reusable filters to reduce maintenance downtime. Can be used on both Traypackers and a Trayformers.

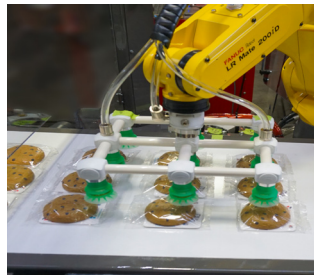




## Global Markets

BW Integrated Systems provides diverse solutions to a variety of market segments around the Globe:

- Container Manufacturing
- Food
- Beverage
- Beer
- Dairy
- Wine and Spirits
- Home and Personal Care
- Industrial and Automotive
- Paper
- Bakery and Confectionary



## Global Manufacturing

BW Integrated Systems has seven global manufacturing facilities.

- Romeoville, IL USA
- Doncaster, S. Yorkshire UK
- Fergus Falls, MN USA
- Loveland, CO USA
- Lynchburg, VA USA
- Minneapolis, MN USA
- Reedley, CA USA

### A Combination of Strengths



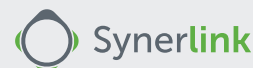
### A Legacy of Global Brands

Contact one of our representatives today to set-up an appointment to review your current needs for any of the above brands.

## BW Packaging Systems

[BWPackagingSystems.com](http://BWPackagingSystems.com)

### FILLING, SEALING, SEAMING & CAPPING



Rigid Form-Fill-Seal | Rigid Fill-Seal  
Complete Line Integration

[synerlink.com](http://synerlink.com)



Filling | Capping | Seaming  
Labeling | Centrifuge

[psangelus.com](http://psangelus.com)

### FLEXIBLE PACKAGING



Vertical Form-Fill-Seal | Horizontal  
Form-Fill-Seal | Pre-made Bag Filling  
Bag Converting | Product Feeding &  
Weighing | Bag Conveyance & Palletizing

[bwflexiblesystems.com](http://bwflexiblesystems.com)

### LABELING & SLEEVING



Labeling | Sleeving | Converting

[accraply.com](http://accraply.com)

### END OF LINE & SYSTEMS INTEGRATION



Palletizing | Depalletizing  
Feeders & Placers | Cartoning  
Case Packing | Bliss, Tray &  
Case Erecting | Conveyance &  
Controls | Can Handling | Can End  
Handling | Robotic Solutions  
Systems Integration

[bwintegratedsystems.com](http://bwintegratedsystems.com)