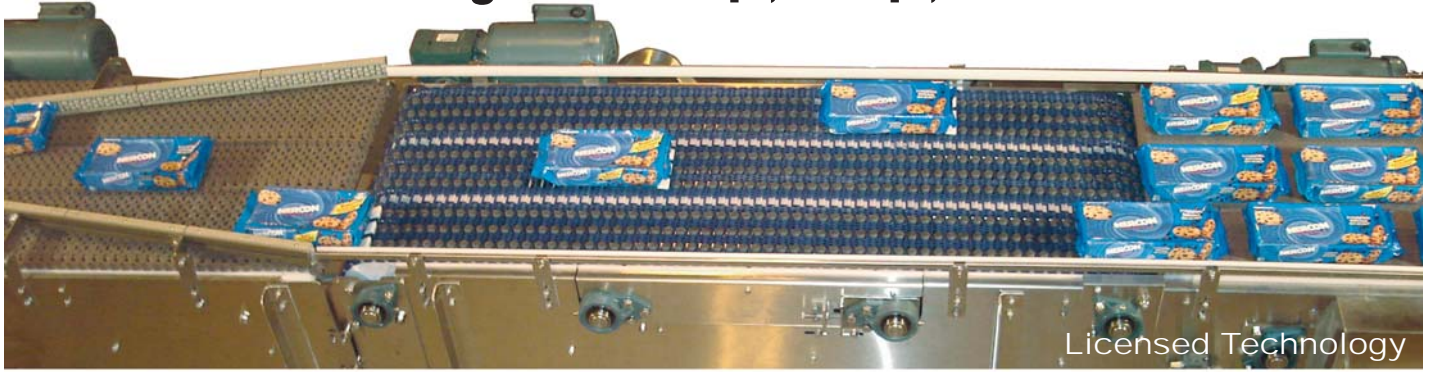


# The **Live Roller Merge.** No clamps, no stops, no controls...No Problem!



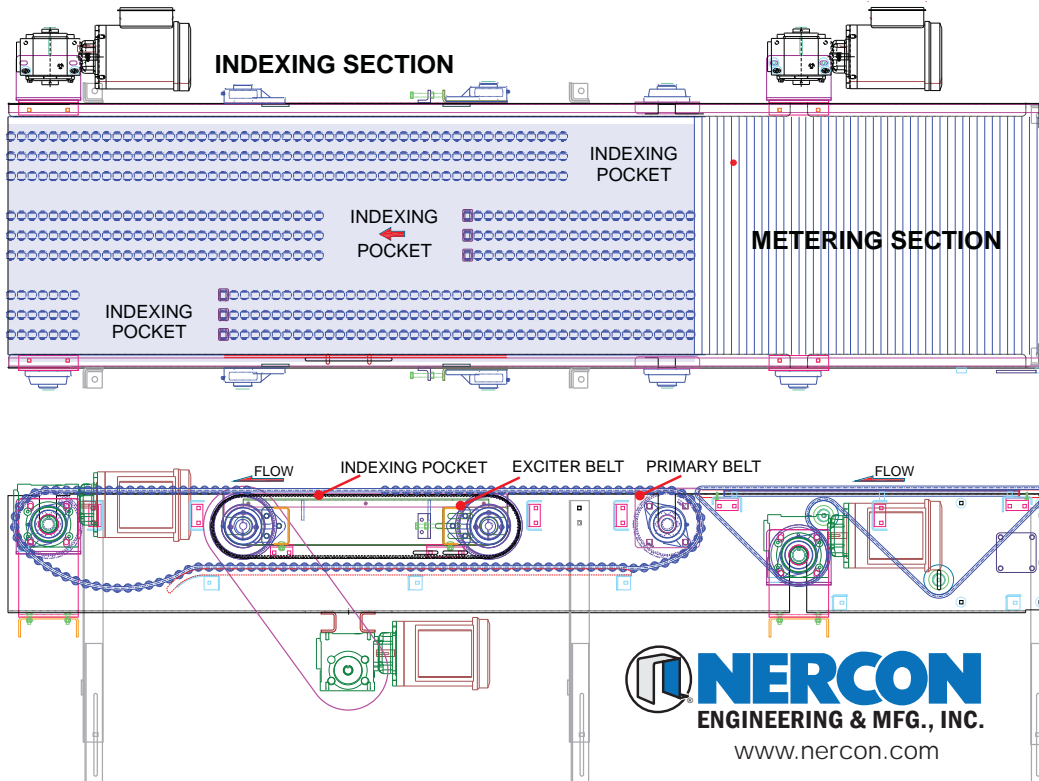
## Live Roller Merge

This Live Roller Merge simply and economically merges products without the use of clamps, stops or controls. The concept incorporated into the Live Roller Merge is the ability to stall the product until it is in proper sequence. The product is introduced onto a primary modular plastic belt in which rows of rollers are integrated (see drawing.) The primary belt also has rollerless sections called indexing pockets (see drawing.) Down stream, an exciter belt (see drawing) is located under the primary

belt that engages the rollers on the primary belt. The exciter belt speed is set to drive the rollers on the primary belt in a backwards spinning motion. Products float on the roller sections briefly until the rollerless chain section emerges, putting the product in forward motion traveling on the indexing pocket. Simple plow rails or powered side rails are used to merge multiple lanes into single file. For more information and video demonstration, log onto [www.nercon.com/LiveRoller](http://www.nercon.com/LiveRoller).

## Benefits

- Simple concept
- Design and product flexibility
- Easy to maintain
- Economical solution for metering and merging



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Above: The box is shown traveling on the indexing pocket.

## The Live Roller Merge.

Competing merging solutions normally require a complex array of clamps, stops and controls. The Live Roller Merge does not utilize pushers or clamps and uses only minimal controls, including a fixed speed metering belt.

The Live Roller Merge can be used to put random placed products into single file. The system also has the flexibility to deliver rows of products.

How does the Live Roller compare to other merge solutions?												
Feature		Disadvantage or greatest Weakness										Biggest Advantage or Strength
		1	2	3	4	5	6	7	8	9	10	
<b>Purchase Cost</b>	Manufactured and assembled from inexpensive off-the-shelf components Expensive servo drives and costly programming Manufactured components with relatively simple programming											
<b>Control Logic Cost</b>	Little to no control devices or programming required Extensive control devices and programming required Moderate control devices and programming required											
<b>Design Flexibility</b>	All products that fit on the indexing pocket Can be reconfigured with programming changes Normally configured for a specific range of products											
<b>Product Changeover</b>	Modular design is easily configured and modified Can be reconfigured with programming changes Adjustments required for different size products											
<b>Product Rate</b>	High speed, relative to package length High speed, relative to package length and weight High speeds, using slugs of multiple products											
<b>Product Weight Limitation</b>	Handles very light to very heavy packaging Very light to very heavy packaging achievable Packaging must have structural integrity to utilize gates and stops											
<b>Flexible Bag Handling</b>	Can handle any size bag conveyable on a roller deck Can handle most flexible bag products Cannot handle flexible packages											
<b>Maintenance</b>	Modular belt design allows for easy and quick repairs Can be difficult to trouble shoot / diagnose problems Product jams can damage equipment											

Live Roller Merge
Servo Merge
Gate/Stop Merge



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