

# CROSS WRAP BALE DEWIRING IN USA REFERENCE | CARBONLITE



> USA based plastic recycling company CarbonLITE has now two automatic Cross Wrap Bale Dewiring machines running and a third one delivered.

## CARBONLITE INDUSTRIES LLC COMPANY PRESENTATION

CarbonLITE is one of the largest PET recycling companies in the USA and the largest producer of food-grade Post-consumer Recycled PET in the world. Company was founded by Mr. Leon Farahnik - a plastics entrepreneur with long history from the plastic business. The company has two large state-of-the-art PET recycling facilities, that process more than seven billion plastic bottles annually.

The company philosophy is based on the idea of Bottle-to-Bottle recycling. The fine idea is to convert used plastic bottles made of PET back into a plastic resin, which is then used to make new bottles. This operation is called closed-loop system that allows for sustainable consumption because resources are reused without degrading the environment.

CarbonLITE's recycling operations are truly specialized to PET as it can be recycled for numerous times. The plastic resin can be used to manufacture bottles, food containers, carpets and clothing. The use of recycled PET reduces greenhouse gases and helps to preserve resources while providing a cost-effective and high-quality solution to packaging.

## UPGRADING SAFETY AND EFFICIENCY WITH CW DEWIRING

CarbonLITE updated their PET-plastic material infeed, where the used recycled PET-material is received and handled in a baled form. Previously their PET recycling line began by manually removing the metal wires from dense and heavy PET-plastic bales, which was time consuming and posed a risk for employees. This operation was improved by shifting to use Cross Wrap's automatic CW Dewiring machine. The automation of bale dewiring improved the bale infeed and increased working safety of CarbonLITE.

CarbonLITE's raw infeed material consists of tightly baled and metal wire tied PET-bales. These bales are mostly longitudi-

nally tied, tall, slim and heavy. These bale specifications resulted a tall frame CW Dewiring machine which enables CarbonLITE to open various size bales automatically and effectively.

As Cross Wrap started to engineer and deliver the first bale Dewiring machine for CarbonLITE the company also placed a second order for another Dewiring machine for a different plant location. The whole project was carried out thru 2018 and 2019 and the Dewiring machines started their operations at CarbonLITE's Riverside and Dallas plants by the end of June 2019.

- This upgrade was a great undertake for our company as it was also for Cross Wrap. They did offer exceptional service throughout the project and they listened and committed to our needs in order to make this project happen. Now that the machines are in operation and we are gaining all the positive effects from automatic CW Dewiring we are happy to implement this solution also on our third site at Reading Mr. Vijendra Siddhi, CarbonLITE's vice president of engineering, comments.

## DIRECT BENEFITS TO SAFETY AND PRODUCTIVITY

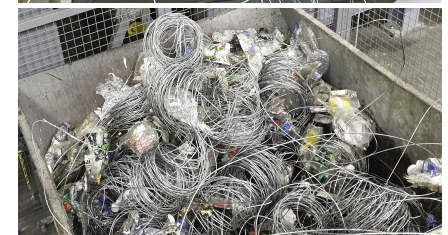
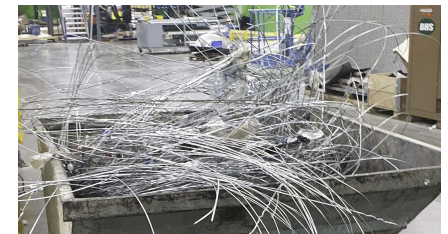
CarbonLITE gained direct benefits from the automatic CW Dewiring to their bale wire removing and material infeed process. The safety of operators is now drastically improved and there is no longer need for any manual work when cutting bale wires. The machines automatic operation is also good for improving recycling line efficiency when line can be operated nonstop and the material infeed stream is as steady as possible.

Benefits arise also from the machines automatic wire separation and coiling. This helps to keep the recycling line running more effectively and reduces production costs and machinery wear. The metal wire coiling improves wire handling; the coiled wire bundles are easy to store, handle and transport.

The third Dewiring machine, which was de-

livered to the CarbonLITE's Reading plant has an optional bale weighing system which enables CarbonLITE to track their infeed bale weight. This option helps to optimize the recycling process even more and to gather information of the recycled PET-material.

- As a modern PET recycling operator CarbonLITE wants to implement all the latest innovations that help to streamline processes and especially those ones that have positive effects on working safety. The Cross Wrap Dewiring solution is as high tech as it can get, and it really delivers features that are needed in our PET-recycling process, Mr. Siddhi summarizes the reasons why they chose Cross Wrap.



> Which form would you prefer? Top manually cut wires and bottom CW Dewiring machines coiled wires.

## IN A NUTSHELL:

Company: CarbonLITE Industries LLC  
Locations: Riverside, California and Dallas, Texas  
Material: PET-plastic  
Output: over 7 billion bottles annually  
Capacity: 20 Bales / Hour  
Bale Size: max. 1800 x 1400 x 2500 mm  
CW Machine: 3 x DW 1800, Bale Dewiring Machines  
[www.carbonliterecycling.com](http://www.carbonliterecycling.com)  
[www.crosswrap.com](http://www.crosswrap.com)