

AMUT GROUP AND CARBONLITE WORKING TOGETHER TO IMPROVE PLASTIC BOTTLES RECYCLING & SUSTAINABILITY

“We are glad to have scored another top reference in the Northern America plastic recycling market. The CarbonLITE PET recycling project comes after the two MEGA PET recycling plants that we (AMUT) supplied in North America to UNIFI in Reidsville, North Carolina and to PETSTAR Coca-Cola Mexico” stated Mr. Piergianni Milani, the President of AMUT Group Italy.

The new CARBONLITE recycling facility, located in DALLAS TX, started operations in September 2017, as per the schedule. The wash line supplied by AMUT has the state of art of the technology and is the second plant of this size in operation in the USA, capable of producing over 12,000 pounds per hour of highest quality PET from MRF post-consumer bales.

Mr. Leon Farhanick, the President of CarbonLITE, declared “... I’m very satisfied with quality, punctuality and technology. Between the many OEM we had in this project AMUT is the one that pleased us best ...”



This 250,000-square-foot bottle-to-bottle PET recycling plant processes more than 100 million pounds plastic bottles annually – and the AMUT washing section is capable of reaching 6 Metric Tons per Hour - (the Dallas facility will double the company’s annual capacity of food-grade PET) and permits the transformation of old plastic bottles into PET resins, flakes and pellets that can then be used to produce new beverage bottles and other sustainable products. Closing the LOOP ON RECYCLING and increasing the Sustainability of the PET containers!

CarbonLITE management has over a decade of experience in PET wash lines and selected the AMUT turn-key solution to face the new challenges in the market conditions for their Dallas operations. Considering that AMUT is one of the major OEM supplier for their system, we integrated our “De-LABELLER” AMUT’s patent technology and as well the wet whole bottle pre-wash, so they are able to convert ‘TRASH TO CASH’ stated Anthony Georges, AMUT’s North American President. Georges further discussed how the AMUT De-LABELLER won the prestigious PLASTIC RECYCLING INNOVATION Award from the APR (Association of Plastic Recyclers) in 2017.

When you are dealing with co-mingled MRF bottle bales you need to be able to detect and remove all non-PET and Color PET containers prior to entering the final washing process. Georges continued, by utilizing our double stage De-LABELLER the final clean CLEAR PET FLAKE quality is much improved. The first De-Labeler performs the 'DRY' cleaning action whereby it is able to detach most of the shrink sleeve labels, while the second unit is a WET De-LABELLER process incorporating the AMUT patented cold friction washing technology for the bottles. This wet bottle washing technology utilizes the filtered recycled FLAKE washing water therefore it does not increase the consumption of fresh water used in the complete cleaning process, and contributes to the elimination of outside dirt as well as remaining labels on the whole bottles.

Critical to the AMUT technology is that the bottles stay intact through these two machines and are not damaged during the actions of De-Labeler therefore improving efficiency and the functionality of the following automatic sorting equipment so that the non-PET and color PET can be removed from the clear PET Bottle stream. The clear PET Bottles will be washed directly in the AMUT FLAKE system while the other plastic containers are collected separately in order that those items can also be recycled properly as well.



AMUT scope of machinery & technology supplied includes as well, the wet grinding system to turn bottles into flakes, along with two or the AMUT patented Flake Friction Washers, and two of their newest advance technology 'Sink-Float' separation machines, which are able to capture the POLYOLIEFIN caps so that the value of these cleaned caps can also be captured. (See the above photo.)

The whole process is engineered to increase the grade quality of the CLEAR PET Flakes which comply with the most demanding bottle-to-bottle applications, optimizing the value of every bale, while minimizing operational costs, fresh water usage, energy, and cleaning agents.

We are honored to be part of the CarbonLITE team, increasing the sustainability of the PET containers.

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