

PROBLEM

Disposal of Rejected and Overrun Plastic Parts

Core Molding Technologies* of Columbus, OH is a manufacturer of sheet molding compound and a molder of fiberglass reinforced plastics, specializing in large-format, compression molding. On their manufacturing floor they have a 4,000-ton press used to mold 127-pound hulls and 65-pound decks for Yamaha Wave Runner water recreation vehicles. The facility also has 14 large-tonnage SMC presses used to manufacture not only the hulls and decks, but a complete array of truck, auto and custom molded parts. All rejected and overrun parts were being sent directly to a landfill.

The Core Molding engineering team was challenged to accomplish three major goals. First, due to a corporate-wide dedication to quality, they had to destroy any out of spec product. Second, because of the rapid increase in landfill and transportation costs, they had to increase the weight of rejected product that fit in each container by reducing the size of the large, rejected parts. Third, the team needed to find an outlet to recycle the product, thus eliminating it from the waste stream.

SOLUTION

BloApCo's Custom Engineered Shredder



Core Molding found a good recycling outlet, leaving the size reduction challenge to be addressed. Because of the mammoth size of some of the truck parts, measuring up to 95.44"x 54.88"x 43", the task at hand was a difficult one. After months of visits to see several shredder manufacturers and running numerous shred tests, the Core Molding team determined that BloApCo had the best system design capabilities of anyone. It was not only the special features of the BloApCo "Pierce-and-Tear" concept, i.e., low horsepower requirements, minimal maintenance required

and the unit's operating under 80 dBA, but the fact that the BloApCo shredders all are custom-engineered to adapt to each customer's specific needs.

Today, the shredder readily shreds all of their molded products without the assistance of any pre-crushing devices. The operators simply place the products to be shredded on the infeed conveyor of the shredder. The shredded pieces automatically are deposited into a compactor, compacted into a 40 cu. yd. block, and then sent out to a secondary market to be recycled. Another illustration of BloApCo teaming up with the customer to provide solutions that work.



Core Molding Technologies in Columbus, Ohio

*In 1993 when the shredder was initially installed, the plant was owned and operated by Navistar International. Core Molding assumed control of the plant in 1997.