Plastic containers have evolved to become a widely versatile solution for a variety of liquid and solid packaging requirements. However, despite coming in a wide array of shapes, sizes and designs, until recently nearly every blow molded plastic container had one thing in common—a round neck opening.

Confidence

Advancements in blow molding processing, machinery and trimming have promoted the production of containers with rectangular openings to a proven and reliable approach. Graham Engineering Corporation (GEC) has proven experience with the production of these containers, and stands ready to assist you in commercializing these products.

Flexibility

The ability to incorporate square or rectangular openings creates a whole new range of possibilities for package designers. With the use of split molds in extrusion blow molding, you can break free of the “draft angle” restraints that limit your ability to create expressive designs in thermoformed containers.

Proven Approaches

Coextrusion is easily implemented to allow the production of packages with up to six layers of unique plastics. The use of neck-to-neck blow molding on our wheel machines permits high production volumes while eliminating the amount of regrind created in the process. We can provide a complete production line, from the blow molder through the trimmer, as illustrated below.

Rectangular Container Production Line

1. Extrusion System  
2. Blow Molding Wheel  
3. Conveying and Log Cooling  
4. Tail Removal  
5. Trimming  
6. Orienting and Discharge
Design Options and Support

As one example, many suppliers have taken advantage of the ability to mold and trim rectangular containers to produce innovative packages for powdered products such as milk, coffee, and infant formula. Snap-on closures allow resealing after removing the foil or barrier coex film seal that is applied to protect the contents prior to use.

Containers may be made with either inner or outer facing flanges, to allow variety in sealing and closure approaches.

Graham can help you with the design of your package, from the initial concept, through optimization. We have extensive experience with light weighting, producing high quality packages at the lowest possible weight.

Service You Can Count On

In 2010, Graham Engineering celebrated 50 years of long-standing, private family ownership. For over 40 of those years, we have been providing innovative extrusion blow molding machinery of the highest quality to our customers worldwide.

GEC is proud to offer unsurpassed customer support. The Service and Spare Parts teams are committed to the success of our customers, as is demonstrated by the consistent high ranking of our service performance on customer satisfaction surveys.