OEM Manufactured Equipment

Plastic Design, Inc. has been working with customers in the biomedical and pharmaceutical research industry for over a decade. We have custom designed and fabricated countless products and systems for a wide array of applications. Our skill and in-depth knowledge of system requirements for these industries allows us to function as an OEM manufacturer of complex systems, custom built for specific applications.

The Plastic Design engineering team can take a product from concept to completion; this includes design, engineering, component selection, testing, and validation. This comprehensive service is truly a single source solution for custom biomedical and pharmaceutical research equipment.

Custom Plastic Tanks

As part of our comprehensive fabrication capabilities, at Plastic Design we can fabricate custom plastic tanks of virtually any size, shape or thickness. Our expertise in this area ensures that our products will exceed expectations for performance and cost. We offer almost limitless custom configurations and options such as plastic encapsulated steel bands for structural support, support frames with casters, hinged lids, and much more.

All are assembled using state-of-the-art plastic welding techniques; this advanced process can accommodate the butt welding of oddly shaped tanks with the same quality as large round tanks. In addition, we can also take this capability on the road, and fabricate tanks in place on-site.

Slope-Front Fume Hoods

Plastic Design offers slope-front fume hoods designed with features that make them an ideal choice for a wide range of applications including biomedical and pharmaceutical research. Plastic Design fume hoods feature a sliding sash on an angled open front. The sash can be supplied counter balanced or manually pinned at different openings. They are designed to never close completely however, fully isolated hoods are available. The angled design allows for improved visibility and access to ambient light. This feature augments the on board lighting systems. The exhaust flows from front to back, which is enhanced with a front mounted spoiler that accelerates the flow at deck level. Plastic Design, Inc.’s fume hood designs have been extensively tested and accepted for flow uniformity and fume capture efficiency.

Hoods are supplied as table top or as standard units with fully exhausted base cabinets. These innovative design features allow for maximum flexibility. In addition they can be fabricated from a number of materials. This includes FM (Factory Mutual) compliant plastics or stainless steel. Installation of surface mounted or built-in components are standard and can be customized to meet specific requirements. This includes explosion proof Class I Div. 1 requirements.
PACKAGED FILTRATION SYSTEMS
Closed loop filtration is a feature designed into many of Plastic Design, Inc.’s tanks and systems. Pumping systems, from positive displacement to high volume magnetically coupled centrifugal systems, can be custom fabricated based on your requirements. Our expertise with these systems ensures that the correct pump and filter combination, along with vessel design, will come together in the perfect system to fit your needs. To learn more about these custom product offerings, contact us directly.

WET PROCESS & SEMICONDUCTOR EQUIPMENT
We offer a variety of chemical handling equipment, including chemical distribution units, carboy holding systems, chemical mixing systems, pumping stations, containment units, and chemical carts. Our wet benches are available with various hood types, like sliding sash, angled open front, fully isolated, standalone, and others. Our state-of-the-art wet benches are available in a great variety of forms with many diverse benefits. We have PLC controlled automated systems, bottle wash systems that can handle 1 to 12 one gallon bottles, and clean room compliant 1 and 5 gallon transport carts. Our company has manufactured bell jar cleaning systems with on-board computers, chemical storage tanks, and etch & rinse systems. We will perform one-off prototypes to full production runs according to the needs of our clients.

Automated Aqueous Cleaning System
Plastic Design Inc. provides a vast selection of stainless steel and plastic products for biomedical and pharmaceutical research applications. Part of this offering are custom dip tanks fabricated from stainless steel or plastic.

Dip tanks can be fabricated to any size requirement with features such as drains, overflows, up flow rinsers, or cascade rinsers. Plastic Design, Inc. also manufactures a wide variety of custom designed process tanks. Designed for industrial use, they can be configured as holding tanks, day tanks, batch mixing tanks, double containment and plating tanks. Available in plastic and stainless steel, these tanks can be fitted with options such as closed loop filtration and temperature control.

PLASTIC DESIGN, INC.
Our 30,000 square foot facility is equipped with state of the art manufacturing technology. Our continuing investment in our facility and equipment ensure that our customer’s products are manufactured with unparalleled levels of quality and efficiency.

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