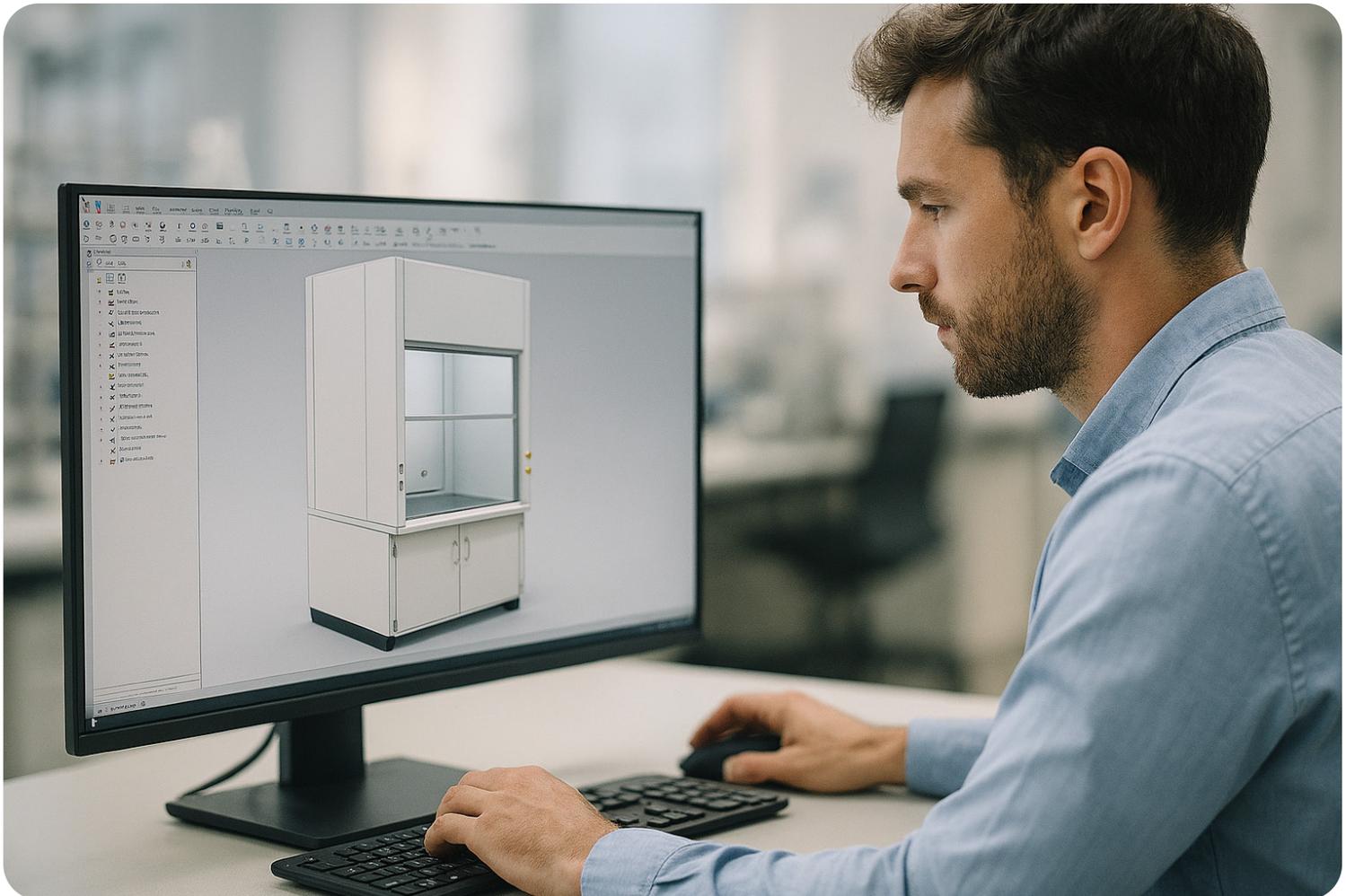


How Custom CAD Design



Improves Manufacturing Precision

Have you ever received a standard product that doesn't quite fit your needs:

In many instances companies and end-users feel stuck having to adapt to equipment that doesn't quite meet their specific requirements, which leads to either uncomfortable working conditions due to ergonomic restraints, or equipment that just doesn't get the job done leading to delays in your manufacturing process, safety concerns and likely many times a repurchase which impacts budgets.

The Solution - Custom CAD Design that starts with understanding the challenges each customer faces:

Understanding the dynamics of the customers' needs is the first step needed before digging into the CAD design. Doing so allows the customer to outline the specific requirements, and the CAD engineer to listen and provide technical insight as to what may and may not work. Once the details are ironed out, design can start and should be reviewed before any fabrication is started. Once production starts, tolerances are tighter, human error is reduced, and a product is delivered exactly as expected with no surprises.

Real World Impact:

When challenged with a cleaning procedure for disposable animal cages, PCI met with the customer to first understand their unique challenges from facility space constraints to ergonomic challenges during the cleaning process. These conversations and measurements allowed the PCI CAD engineers to design several conceptual drawings and review with the customer until a final design was agreed on. The result was an enclosure that was 100% filtered with both HEPA for allergens and any potential bioaerosols and Carbon filters for the mitigation of Clidox emissions along with an ergonomic design that allows the operators to safely and confidently move the cages in and out and sterilize in a fashion that ensures complete coverage.

Bonus Benefit:

The customers, in addition to PCI now have ownership of these files, which allow for scalability for future iterations along with reduced future costs a design time will be reduced.