

Mixing Equipment Guarding

Problem: A cosmetic facility mixers had exposed, rotating shafts which presented a safety hazard. A custom lid/guard combination needed to be made to protect the workers' safety and ensure the client complied with regulations. The lid needed to be easy for employees to take on and off and ease the cleaning of the mixer. The lid/guard needed to meet cosmetics regulations and allow the equipment to produce safe, clean products for the customers.



Solution: To eliminate downtime, Project Technologies & Services (PTS) created new lids for three different mixers, so the existing lids could remain in use while the new lid/guard combination was built. PTS designed the lids to fit the mixers. The lids were made with handles for easy lifting and holes to set the existing cleaning hoses. Holes were designed into the lid to attach the guard.

PTS designed the guard to reduce openings to a safe distance. The guards were designed to allow easy removal of the lids for cleaning. The holes in the guard were spaced to match the lid for easy assembly.

Approval was given by the client for the lid and guard designs. With the lids and guards designed, PTS orchestrated the build of the components with trusted contractors. The lids were made of an approved, clear plastic and the guards were made of stainless steel. Once all of the components arrived, PTS permanently bolted the guards to the lids.

PTS delivered the lids to the client's facility and tested them on site. The client requested further modifications to the guards, therefore, PTS worked with a trusted contractor to modify the guards so that the client would be pleased with the final product.

