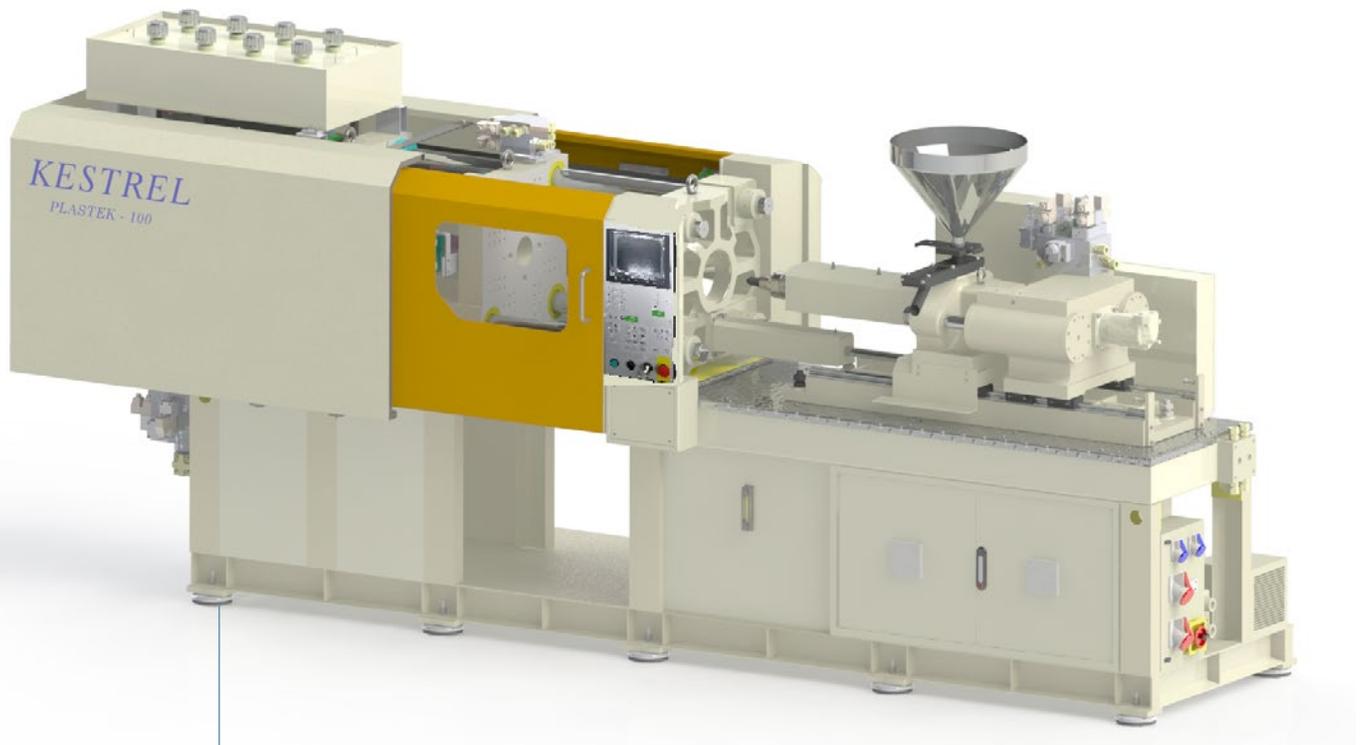


MOLDWELL PRODUCTS INDIA PVT. LTD.

REFINING THE DESIGN PROCESS IN THE PLASTICS INDUSTRY



The simple and user-friendly features in SOLIDWORKS have enabled Moldwell to create precise designs in much less time.

Challenge:

Offer an excellent solution to the plastics industry, by providing high-quality molds and machinery to meet customer demand in a growing market.

Solution:

Implement SOLIDWORKS Premium design and SOLIDWORKS Simulation Professional analysis software.

Results:

- Reduced hydraulic manifold design cycle to three days
- Finalized critical parts dimensions within a single bench test
- Reduced model detailing time by more than 40 percent
- Facilitated design with wide selection of standard parts

Moldwell is an ISO 9001:2000-certified company that was established in 1981. A recognized leader in the development of innovative and cost-effective injection-molding machines, molds, and assembled parts, Moldwell has grown substantially due to its early adoption of technological advances. The company has carved out a niche as a reliable provider of comprehensive solutions that contribute to the development of the molding industry and ensure that clients stay ahead of industry challenges.

Since its inception, Moldwell has continuously aimed for excellence with its skilled workforce and experienced management team. Today it is best known as one of the fastest-growing manufacturers of rubber injection-molding machines, plastic injection-molding machines, water switches, plastic parts for pumps, as well as customized plastic products.

Moldwell's search for a solution that facilitated communication between design team member and enabled quick design changes led them to SOLIDWORKS® software. Within the company there are three design groups, each of which consists of three designers—all working on the same design simultaneously, making effective communication critical between team members and teams. Using IMOLD® for SOLIDWORKS, the designers were able to easily create and modify these designs, ultimately shaving almost 40 percent off detailing time.

OPTIMIZING USE OF DESIGN TOOLS

The first project, Moldwell used SOLIDWORKS for was tool design. "We initially designed transparent electrical elements, but later on we moved to designing machine tools," explains Managing Director R. Soundararaj. "When detailing with IMOLD, we were able to eliminate the need for several additional hands, which in turn enabled us to create the whole design, while maintain its original design intent, within a short period." With SOLIDWORKS, creating hydraulic manifold design can be done in three days, a significant time savings over the previous method

Soundararaj adds, "The wide selection of standard parts available with SOLIDWORKS enabled us to build the whole machine in a short period, and the detailing extends into designing electrical and EDM coordinates in this package."

Moldwell also reaped the benefits of SOLIDWORKS in other phases of the product development process, including purchasing, estimating, marketing, and documentation. The BOM and mass properties features helped the company organize the process and optimize materials procurement.

"SOLIDWORKS and IMOLD together are a winning combination for mold designers."

— R. Soundararaj, Managing Director

DELIVERING BETTER DESIGNS WITH ANALYSIS

One product design that was greatly impacted by the use of SOLIDWORKS was the plastic injection-molding machine, which was originally developed in 2010. "This machine consists of 400 or more components," says Soundararaj. "The wide selection of standard parts available within SOLIDWORKS enabled us to build the whole machine including assemblies within a short period. During machine design, SOLIDWORKS Simulation helped us to finalize the critical parts dimension within a single bench test."

THE RIGHT CHOICE FOR SUCCESS

Moldwell did evaluate other CAD systems initially, but eventually chose SOLIDWORKS because its ease of use was unmatched. Since then, the company has been developing much better designs and components, helping the company to reach new heights.

