



CASE HISTORY

LARGEST AND MOST ADVANCED MOULDING COMPANY IN KOREA USES ACTIFY SPINFIRE IN RAPID PROTOTYPING AND DESIGN CENTER

JY Solutec Relies on Actify SpinFire for Integrated Design and Manufacturing Center

When JY Solutec, one of the largest and most advanced moulding companies in Korea, set out to launch an integrated state-of-the-art design and production facility, one of their key focal points was the integration of design and manufacturing. Established as Jaeyoung Mold Precision in 1976, the company has grown to more than 400 employees. Today, JY Solutec produces plastic injection moulds, automotive parts, and IT parts for a variety of major customers in Asia. Its customers include Samsung, Hyundai, Daewoo, Philips, Motorola, GM, Toshiba, Sanyo, and a host of others.

JY Solutec provides a one stop service for the entire process, from conceptual design to rapid prototyping to assembly design and injection mould making. Unlike many smaller mould and parts manufacturers, who frequently form supply chains among multiple companies, JY Solutec takes a holistic approach to the design and engineering process.

Four years ago, the company embarked on a plan to create an engineering center where design and production could be fully integrated across all disciplines. The result was a 120,000 square foot, 3-story facility that has just been launched in 2004. JY Solutec's design center includes professionals who specialize in product

definition and planning, product design, prototyping, production, testing and launch.

"Our R&D hub center offers several methods for rapid prototyping," said Joon Kim, Chief of International Business Development for JY Solutec. "Our prototyping capabilities and machining facilities allow us to create visual and functional evaluation models early in the design process. Injection moulded short- and pre-series in production material can easily be made with the Rapid moulds," Kim added.

JY Solutec's Holistic Approach to Design Requires Access To Complete Drawings at All Stages

By focusing on the entire process, JY Solutec was able to better understand where bottlenecks occurred. In looking for efficiencies, they found that it was critical for everyone in the production chain -- from design people to machine operators -- to have access to complete, accurate designs, and that everyone needed to work from the same set of drawings.

While JY Solutec has access to very sophisticated design software deployed throughout its R&D center, the company found it is not always appropriate to use CAD software at all levels of the organization. For example, the cost in time and equipment to have machine operators work with CAD files was

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prohibitive. As a result, JY Solutec looked for design visualization software that could provide broad access to complex drawings without compromising the technical accuracy of the designs.

"We are fortunate because our designs come mostly from within the same company," Kim said. "One of our biggest challenges, however, is how to hand off the designs to the different groups within our own facility."

Actify SpinFire Chosen to Provide Broad Access to Designs

Hankook Archive, a professional services company that specializes in CAD/CAM productivity tools was selected by JY Solutec to identify the best technologies. After an exhaustive search, JY Solutec selected Actify SpinFire as its core design visualization and viewing software.

Among the critical factors in selecting Actify SpinFire Professional was the ability to enable designers to quickly and easily convey concepts to machine workers. Another key factor was the speed SpinFire was able to transfer complicated machine works and assembly processes throughout the organization.

"SpinFire was implemented in dozens of seats throughout the company, and JY Solutec quickly found the design communication process became faster and easier," said Kim. "SpinFire gave our designers more time to focus on the design, and freed them from having to individually explain to machine workers details of the design. We were very

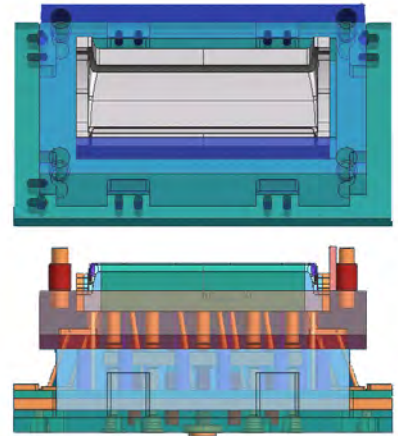
pleased that we did not have to install expensive hardware that was difficult to operate."

Productivity Increases with Actify SpinFire

JY Solutec saw an immediate and visible increase in productivity in some key areas. For example, when machining an electrode design it used to take about three hours to make drawings separate, but now JY Solutec has eliminated that step. The complete, original designs are not only viewable in SpinFire, but they can include any markups or annotations made in those files. As a result, SpinFire has also reduced the time for creating documentation to accompany drawings and the managerial time spent supervising the production of parts.

Another key area where SpinFire has helped has been the pre-sales process. According to Mr. Kim, the customer's reception to using complete 3D data has been very positive and the sales representatives are also showing productivity gains. Before using SpinFire, each representative would spend half a day to a full day preparing presentation versions of a design before they met with customers. Now the sales representative can be ready within an hour.

"We are very proud of the success we have had over the past 28 years, and the launch of our new R&D center," Kim said. "We feel we have reached a major milestone in our company. Our teams have worked very well together and have brought highly professional skills to our customers. But without tools like



Actify's SpinFire Pro, we would not be able to communicate as well or as quickly with each other or with our customers. SpinFire Pro an important tool for us," Kim added.



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