



Methods for using the molded models

The models that were molded with the Eden260 have been used in a wide range from the upstream to the downstream of product development and have been found to be effective

Comparison of before and after installation

Before installing Eden260, delivery of the prototype model took time there was a restriction in the prototyping frequency, and there was a feeling of anxiety. Now, constructive prototyping and design work of high precision can be carried out, the design efficiency has improved, and can achieve decrease in the development period

At KVK, checking the water discharge state of the product is an important step in the design process. Using a model built by the Eden260, water discharge can be checked easily and quickly.

“Conventionally, the subcontracted prototyping period was long and costly, hence it was not easy to check the amount of water discharge and the water discharge state each time the shape was changed,” said Mr. Yoshiaki Nachi, Deputy Manager of Product Development Sec.2 in the Development Division. “Since installing the Eden system, we are able to do an accurate and fast checking operation, and changes in the shape can now be efficiently examined at a low cost.”

Less cost, more efficiency

KVK has not noticeably decreased the cost of prototyping, due to the fact that it now creates more prototypes per product. However, working with the Eden260 has cut the overall cost of product development – which is what really matters.

“Our manufacturing unit cost per model has now decreased considerably compared to when we subcontracted prototyping,” noted Mr. Nachi. “After installing the Eden260, a cycle was created of checking the model the day after the 3-D data is prepared, carrying out the water discharge testing immediately and molding again with the corrected data.”

“With the improved prototyping process, we can do continuous model verification. This has greatly improved our work efficiency, and it has reduced stress on our designers and planners. Now we can refine the shape before ordering the die, which means there are fewer die errors – which are expensive and time consuming to fix,” he continued.

Summarizing the Eden260’s impact at KVK’s, Mr. Nachi said: “The Eden260 is a first-rate tool that improves the whole product development process.”



Performance of water discharge test

A model that was molded with Eden was built into an actual part and water discharge test is being performed. The optimal water flow can be pursued by making molds from data while making small changes in the shape and the dimension of the water outlet

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