



Process Systems is a successful industrial pump company of over 50 customer-driven individuals that has provided industry with innovative solutions since 1972.

The company currently operates from 21 locations. Headquarters is located in Warren MI, and consists of a 28,000-square foot facility, which is home to manufacturing, repair, engineering and support staff operations.

Process Systems also has a service center in Mellot IN, which specializes in pump repair. In 1995 the company joined the Pumps & Systems Division of Crane Co. Being a part of Crane has further increased their ability to service their customers. Process Systems now has the additional resources to increase research and development towards finding new solutions to customers pumping needs.

Recently, SolidWorks Express spoke with Dan O'Sanu, design engineer at Process Systems, Inc. to learn how using HighRES Industrial and Faro Platinum Portable Arm have helped them accelerate their business.



What challenge led you to select HighRES Industrial?

"The biggest challenge that led us to select HighRES Industrial was the difficulty of digitizing the vanes of the impellers and bowls for our industrial turbine pumps. The vanes are very complex bodies generated by even more complex surfaces. In this case, the classic digitizing process would have taken a long time and it was very difficult to use."

What are the three most important benefits of using the Faro Platinum Portable CMM?

"The three most important benefits are maneuverability, ease of use, and the capability of digitizing points in space with great accuracy. There is no particular order for these benefits

because I consider all of them being on the same level of significance."

Provide an example of how you use HighRES Industrial with Faro?

"We use the Faro Arm in two ways. First, we design the SolidWorks® model, which will be given to the foundry. Second, we check the parts that come back from the foundry and compare them with the model we have designed."



How many errors can you eliminate with HighRES Industrial with Faro?

"I think it eliminates close to 90% of the errors but besides this, it speeds the design and checking processes by 75%."

What types of jobs can you now accept that were not possible previous to using HighRES?

"We can now accept all the odd jobs that we were reluctant to take in the past, jobs that require a special design to meet the customer's requirements. This is possible because we are now able to modify our pumps with much less effort and greater precision and because we now have a powerful tool to design and control our products."

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