



SixDOF Testing & Analysis Newsletter

March 2025

ENGINEERING ANSWERS through TESTING & ANALYSIS

SixDOF Testing and Analysis (6D) provides answers to mechanical engineering challenges throughout all phases of the product lifecycle. From upstream design validation to field testing, troubleshooting and next generation product development we help our customers achieve measurable improvements to product innovation, quality, reliability, and performance.



Equipment & Floor Interaction



Production equipment is often highly sensitive to ambient vibrations. Machinery such as MRI and CAT scans, pharmaceutical and food production equipment, and certain rotating systems can be affected by vibrations from their environment.

Building structures can transmit or even amplify minor vibrations, potentially exciting resonances within the equipment. In some cases, even heavy industrial machinery experiences vibration issues when installed on upper floors.

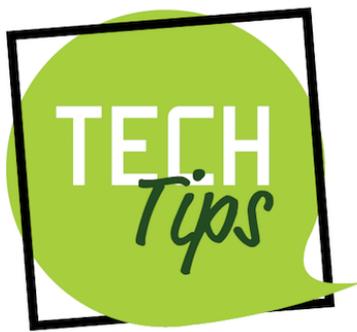
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Unattended Customer Usage Testing: A Critical Element in Product Development



Customer usage testing is essential in product development. Unlike controlled tests, real-world testing captures how products perform under actual operating conditions, delivering more representative data. The process ensures that product designs withstand real-world loads and stresses while meeting the highest performance demands.

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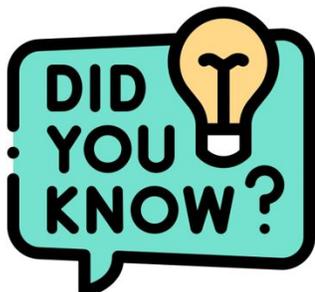
If you've ever worked on a big or high-speed component, you know that centrifugal forces can get intense. In this blog post, 6D's Cody Carrier walks you through the process and offers some insight for success.

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6D works with customers in many ways depending on the need and situation. Listen to this podcast to learn how 6D works with its customers to validate new product designs.

[Listen Here](#)



6D founders and managing principals pioneered many of the testing and analysis tools, techniques, and best practices that are now the standard?

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