

# 6D in 60 Seconds

JUNE-JULY 2018



## ENGINEERING ANSWERS through TESTING & ANALYSIS

In this business you have to get your hands dirty. From the test lab to ocean oil platforms, underground mines, and everywhere in between - we collect, analyze and interpret the data to drive simulation and provide answers to complex and costly mechanical engineering challenges.

[Visit our Website](#)

### Troubleshooting: Rotating Equipment



When key equipment fails – or is operating at less than full capacity – time is critical. 6D responds to these emergency situations like nobody else. We'll identify the root cause of the problem(s) and get your equipment back on-line quickly.

When it comes to identifying and correcting the root cause of equipment failure - learn why 6D's [System-Level Approach](#) makes all the difference.

### Q&A: Field Troubleshooting & Problem-Solving

What is the most critical (and most overlooked) aspect of finding and correcting the root cause(s) of equipment failure? In this interview, 6D's Mike Carlier and Garth Wiley share their experience for troubleshooting equipment and structural failure.

[Read More](#)



# Case Study: Remote Troubleshooting

Equipment on an off-shore oil rig was experiencing dangerous levels of vibration. With cracks forming catastrophic failure was a very real possibility. Read how 6D was able to accurately diagnose the problem with only minimal information and arrive on-site with a solution in hand.



[Read the Case Study](#)

## Support & Training

6D is your on-demand resource for project outsourcing and training:

- Supplement in-house staffing needs with expert project assistance
- Service and expertise to meet your workload demands
- A practical real-world learning experience that cannot be gained in the classroom

[Learn more](#)

## A History of Addressing Structural Dynamics Issues

6D founders and senior management were the original structural test and analysis engineers at SDRC (Structural Dynamics Research Corporation – now Siemens PLM). Here we pioneered many of the troubleshooting tools, technologies, and best practices now standard. Today we continue to apply our experience and expertise to help power plants, refineries, and similar facilities reduce and eliminate rotating equipment downtime.

**6D TESTING & ANALYSIS**

1970	1980	1990	2000
<p><b>1970s</b> Pioneered structural dynamic testing at SDRC (Structural Dynamics Research Corp) • Dynamic system modeling, modal testing (GM Cadillac, Truck &amp; Bus, Space Shuttle)</p>	<p><b>Mid 1980s</b> SDRC/GM durability lab build up, training &amp; operational capability • Contract with GM to design, build, commission, deliver 5 component test systems in separate dedicated facility • Transferred to GM</p>	<p><b>1990s</b> Ford customer usage testing &amp; clinics • Vehicle builds, xducer development Lead to joint venture with Defiance • Build RLDA capability for Defiance Early adopters of SoMat (now HBM) measurement systems • RLDA as we know it started to develop</p>	<p><b>Mid 2000s</b> Formed SixDOF Pioneered unattended large scale measurement technology Rotating machinery practical implementation FEA Heavy truck &amp; rail applications</p>

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# IN CASE YOU MISSED IT

From our previous issue...

6D in... 87 seconds! Watch our video to learn more about our testing and analysis capabilities, experience and expertise. [Watch our Video](#)

[Unattended Testing](#) monitors equipment around-the-clock ensuring that all events are captured and analyzed.

[Case Study](#): Kenworth (PACCAR) utilizing 6D's expertise to collect operating data in the Central America sugar cane fields.

View our latest newsletters [here](#)

Explore our Web Site!

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