

6D in 60 Seconds

Winter 2020



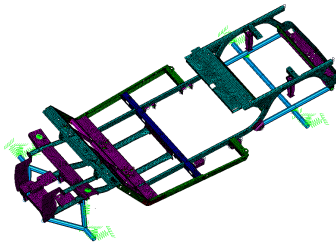
ENGINEERING ANSWERS through TESTING & ANALYSIS

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](#)

What's New:

Product Validation Consulting Service



Many small to medium-size manufacturers operate on the build-it/break-it principle but are finding their markets are demanding lighter, more functional, more durable, less expensive products.

A faster and more cost-effective approach is to leverage computer simulation tools to do much of the validation digitally and use testing to support the simulation model for up-front loads and downstream validation. In other words, build the physical product confident it will meet performance targets.

Click the link below to learn how we can help improve your validation process.

[Learn More Here](#)

Torsional Analysis

Torsional analysis is extremely important in determining the vibratory behavior of rotating systems such as engine driven pumps or generators. Typically, torsionals have been measured at points along the system by looking at gear teeth (such as the flywheel ring gear) with a magnetic pick up.

Points not having a production gear have been measured by either:

- fixing a machined gear to the shaft,
- mounting an encoder at the “end” of the system

- utilizing a laser torsional vibrometer

6D has developed a fourth option. Read about it by following the link below.

[Read More](#)

Equipment Condition Monitoring



Immediate detection of excessive vibration, heat, structural issues – and other anomalies – is the key to avoiding failure and expensive unplanned downtime. 6D, provides on-going monitoring of key equipment and structures. Like your own industrial watch dog, our system provides around the clock

monitoring every day of the year.

- Turnkey solution tailored to your specific applications and changing requirements
- Measurably reduces costly equipment replacement, repairs and downtime by identifying problems before they become critical
- Notifies you if equipment isn't operating normally or if certain events occur
- Alerts equipment engineers and maintenance personnel via a variety of remote devices and communication protocols
- Can be built on a variety of platforms including the powerful and versatile National Instruments CompactRIO platform

[Contact us to Learn More](#)

1 on 1 with: Mike Carlier



As 6D Founder, President and Sr. Technical Consultant, Mike Carlier brings more than five decades of hands-on project engineering and management experience to each project.

Let's go one-on-one with Mike to learn a little about both him and the company.

- How have equipment vibration problems changed over the years?
- What's meant by *most practical* solution?
- When do manufacturers typically call on 6D for help?
- How can 6D help manufacturers validate products well in advance of prototyping?
- What's Mike's most challenging and memorable project?

Get the answers to these and other questions in our conversation with Mike Carlier.

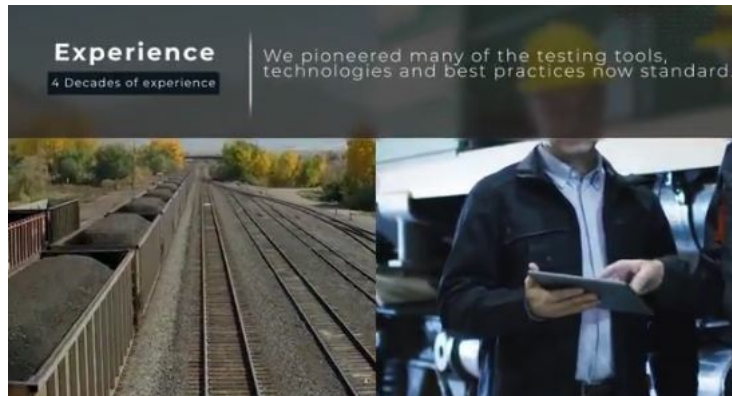
[Read it Here](#)

**Some say talk is cheap...
We say its free**



Do you have a question or just want to discuss your specific issues? Give us a call - no cost or obligation. If we can offer some advice or recommendations we're happy to do so!

[Contact us here](#)



Are you curious about 6D and how we assist companies like yours? Do you have a minute? (Actually a minute and twenty-eight seconds.) If so, click the link below and see for yourself.

[Check out our Video!](#)

IN CASE YOU **MISSED IT**

From past issues...

[Durability Testing for Off Highway and Specialty Vehicles](#)

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

View past newsletters [here](#)

[Explore our Web Site!](#)

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