

Efficiency & Optimisation

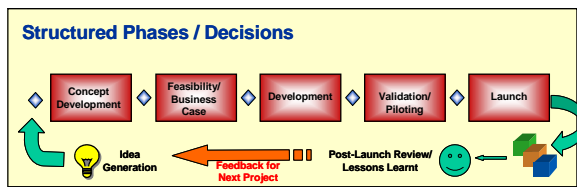
Can we help you to improve your process and your products?

Our consultants have many years experience in product design and development, problem solving, project management and the process of new product design and development, together with the skills and techniques that are necessary these days to develop successful products.

Process Improvement

New Product Development Process

Do you always do the right projects in the right way?



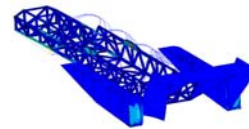
Let us help you with :

- NPD Process Improvement
- Project Management
- Portfolio Management

Design & Analysis

Stress, Dynamic & CFD Analysis

Are your parts strong enough?
Issues with kinematics, vibration, temperature or flow?



Let us help you with :

- Stress Analysis
- Vibration Analysis
- Motion Analysis
- CFD Analysis

Design Process & Automation

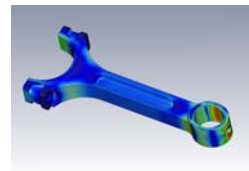
Is your design process as efficient as it could be?



Talk to us about :

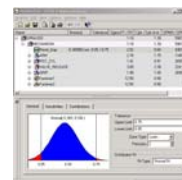
- Setting up Design Automation routines
- Design Process review
- Modern techniques such as FMEA, QFD

Design Optimisation



Are your designs optimised to save weight and cost? An optimisation analysis will usually pay for itself and more.

Tolerance Analysis



Do you really understand the effect of your tolerances on product quality and cost? Let us analyse your product to find out.

Design for Six Sigma (DFSS)

If you have a 6 σ program, then you should also be thinking about Design for Six Sigma

- Design Process
- Tools
- Training

Let us help you to improve

Some images provided by Product Development Institute Inc., Quicksilver WSR, Sigmetrix Inc.



Efficiency & Optimisation

That is what we believe in, do you?

Over the years, our engineering consultants have helped many companies in different industries to develop better designs and to overcome problems, and we can probably help you if you have an engineering problem.

What we have learned though, is that it is not enough just to solve individual problems. What a company needs to be really successful is to improve its overall business efficiency. Key requirements are having a process for consistently and efficiently developing good designs and choosing the right products in which to invest, plus having the right tools to do the job.

So if you are ready to take the next step; to improve your new product design and development process, the tools that you use and how you use them, please give us a call.

Tools, Implementation and Improvement

These days most 3-D CAD tools will give a good result. For its combination of functionality, power and ease-of-use, we chose Pro/ENGINEER[®]. If you have Pro/ENGINEER we can help you to get the best out of your installation (See Pro/ENGINEER Training & Consultancy below).

However, there is more to designing a good product than having a CAD system. For instance, will it always go together? This is where having other tools such as CETol[®] for 3D statistical tolerance analysis, or MITCalc[™] for engineering calculations & 2D tolerance stack-up come in.

To organise your development projects, why not look at PD-Trak[™] for its ease of use and simplicity?

NPD Process



Cost-effective NPD process management software.

- Multiple Stage-Gate[™] processes
- Portfolio Management
- Idea Management
- Best practice templates, inc. 6-Sigma

Tolerance Analysis

Worse case & statistical tolerance analysis software.

- Work with Pro/ENGINEER, or SolidWorks models.
- Import from others via STEP/IGES
- Analyse parts and assemblies
- Input manufacturing process data
- Statistical & Worse Case analysis
- Contribution and Sensitivity
- Overall results as yield, DPMU etc.
- See if your design is 6 σ capable

Pro/ENGINEER[®] & MECHANICA[®] Training & Consultancy

Pro/ENGINEER training courses at your site

- Basic
- Intermediate
- Drawing
- Sheetmetal
- Mechanism Kinematics (MDX)
- Update

Also Advanced & Specialist courses

- Advanced Design
- Parametric Surfacing
- Free-form Surfacing (ISDX)
- Mechanism Dynamics (MDO)
- Behavioural Modelling (BMX)
- Pro/Mechanica Basic & Advanced

Plus consultancy

- Pro/Mechanica usage
- Design Process
- Design Optimisation

Engineering Calculations



- Engineering Design Calcs
- 2D Tolerance Analysis