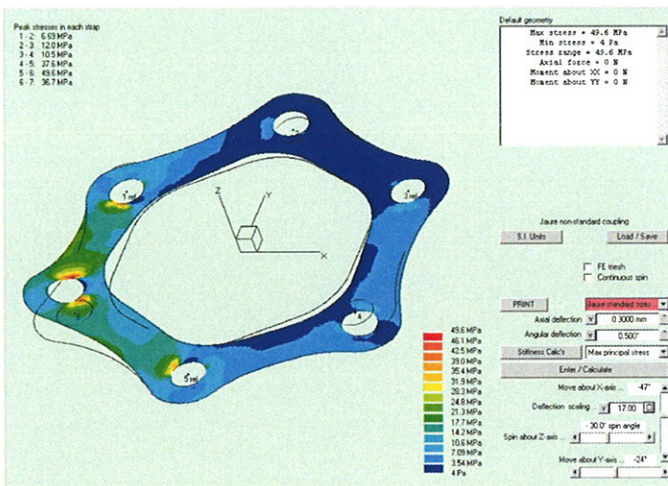




# INNOVATIVE ANALYSIS

With the development of discrete element analytical procedures, the engineer has access to a wealth of analytical tools such as finite element stress analysis and computational fluid dynamics. However to use these tools, geometries and boundary conditions must be fully defined – but information may not always be available or it is incomplete. If you don't yet fully understand the problem, which parameters are important? Which can be set aside?

Simpler tools are often needed to give this understanding and aid design or failure investigation. Innovative analysis allows you to explore design changes, to investigate and understand failures, to prepare risk assessments and safety cases.



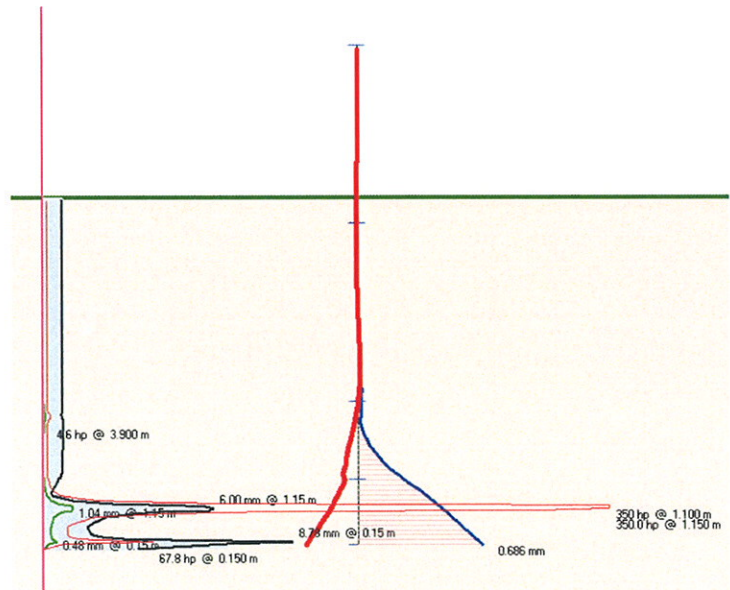
Disk coupling design software

- Understand
  - Model
    - Explore
      - Refine
        - Assess

D C White & Partners' expertise enables us to develop bespoke analytical procedures and software describing the physics, chemistry and engineering of your problem. Giving that understanding which commercial software cannot.

Examples have included...

- Software for the modelling of flexible disk couplings.
- Investigation of vibrating pile performance.
- Automated stiffener layout software for large flat panels.
- A study of possible failure modes for a ship-lift involving a detailed stored energy audit.
- Ground and platform movement modelling for St Pancras' Station pipework.



Power requirements for a vibrating piling system.