

## WELCOME GEAR DESIGNERS!

Dontyne will be conducting a course in September covering some advanced aspects of gear design. The principles will be illustrated using the tools in the Gear Production Suite. The aim is to look at how more advanced software tools can be used to overcome some of the limitations in using standards such as ISO6336. We are eager to invite non-users too in order to add to an open Forum and share experience in how they have used alternative software products.

## Advanced Gear Design Technology

29 Sept 2009

### Limitations of using the rating standards

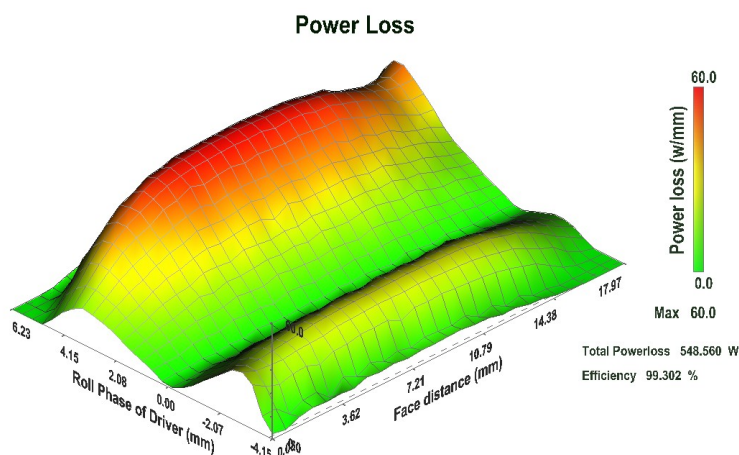
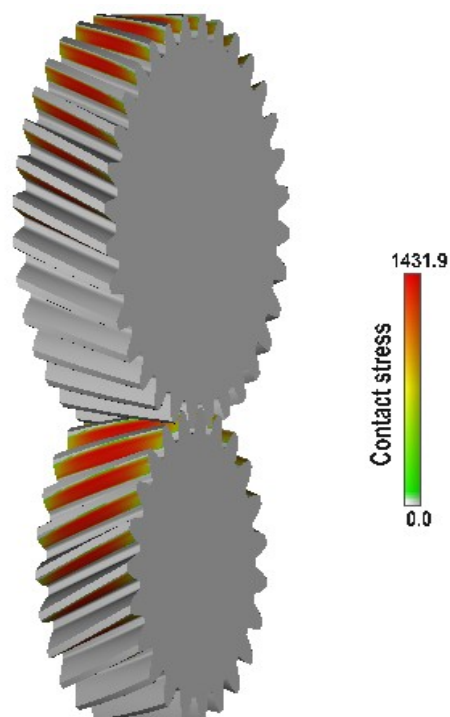
- The need for further analysis

### Evaluation of gears under load

- Gear bending stress methods (ISO, AGMA)
- Gear contact analysis (ISO, GATES)

### Gear Transmission Error and Micro-Geometry

- Tip relief
- Micro-geometry modifications
- Some effects of manufacturing method on strength
- Measured data in the contact model



### Attendees will :-

Receive an overview of gear stress calculations

- What the standard formulas represent
- Be introduced to tooth contact analysis
- Strip method
  - GATES

Gain an understanding of gear micro-geometry

- Applying tip relief and lead crowning
- Minimizing transmission error
- Compensating for misalignment
- Calculating efficiency

- NAME :
- COMPANY :
- ADDRESS :
- :
- COUNTRY :
- TELEPHONE :
- FAX :
- EMAIL :

- **OUR COMPANY IS INTERESTED IN THE DONTYNE GEAR DESIGN COURSE:**

- **29<sup>th</sup> Sept 2009 Advanced Gear Design Technology**

**Attendees** \_\_

- *Costs £345 exc. VAT per person per day / £245 exc VAT for Dontyne software users*
- *Location : Lloyds Register Buildings, 71 Fenchurch St, London, England*
- *Applications to Dawn Anderson*

**ADDITIONAL COMMENTS / POINTS OF INTEREST:**

**Fax to +44 1661 523 614**

**or Tel +44 1661 833 828**