

WELCOME GEAR DESIGNERS!

Dontyne will be conducting a course in September covering some advanced aspects of gear design. The course is open to all experienced gear designers. The aim is to look at how software can be used to overcome some of the limitations in using standards such as ISO6336. The changes in gear characteristics will be illustrated using the tools in our Gear Production Suite but we are eager to invite non-users too in order to discuss their experiences add to the open Forum.

Advanced Gear Design Technology

11th September

Limitations of using the rating standards

- The need for further analysis

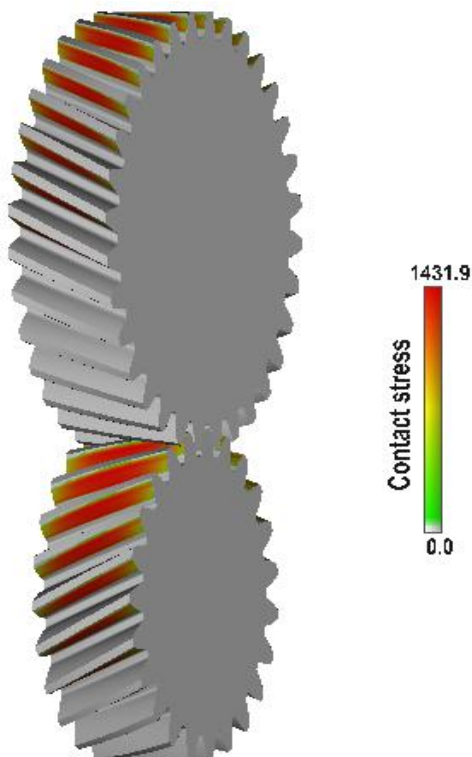
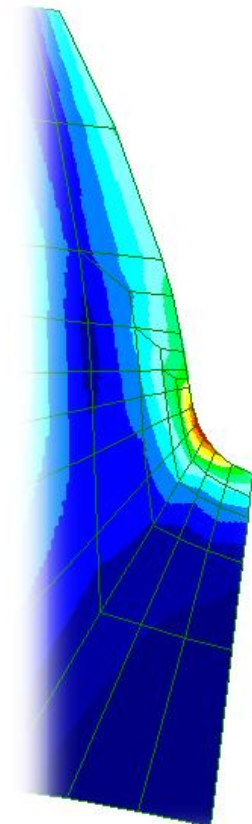
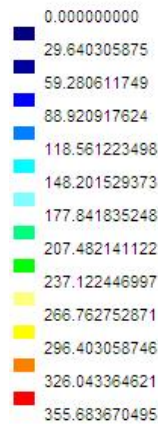
Evaluation of gears under load

- Gear bending stress methods (ISO, AGMA, FE)
- 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

Layer 7: Normal / S-NN



Attendees will :-

Receive an overview of gear stress calculations

- What the standard formulas represent
- Be introduced to tooth contact analysis
- Strip method for load analysis
- Advantages of Finite Element (FE) such as GATES

Gain an understanding of gear micro-geometry influences on performance

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

- NAME :
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- ADDRESS :
:
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- **OUR COMPANY IS INTERESTED IN THE DONTYNE GEAR DESIGN FORUM:**

- **11th Sept Advanced Gear Design Technology**

Attendees __

- *Costs £195 per person / £145 for Dontyne users*
- *Location : Stephenson Building, Claremont Road, NE1 7RU, England*
- *Applications FAO Dawn Anderson, Dontyne Systems, 1 Simonside, Prudhoe, NE42 6LJ*

ADDITIONAL COMMENTS / POINTS OF INTEREST:

(Fax to +44 1661 523 614)