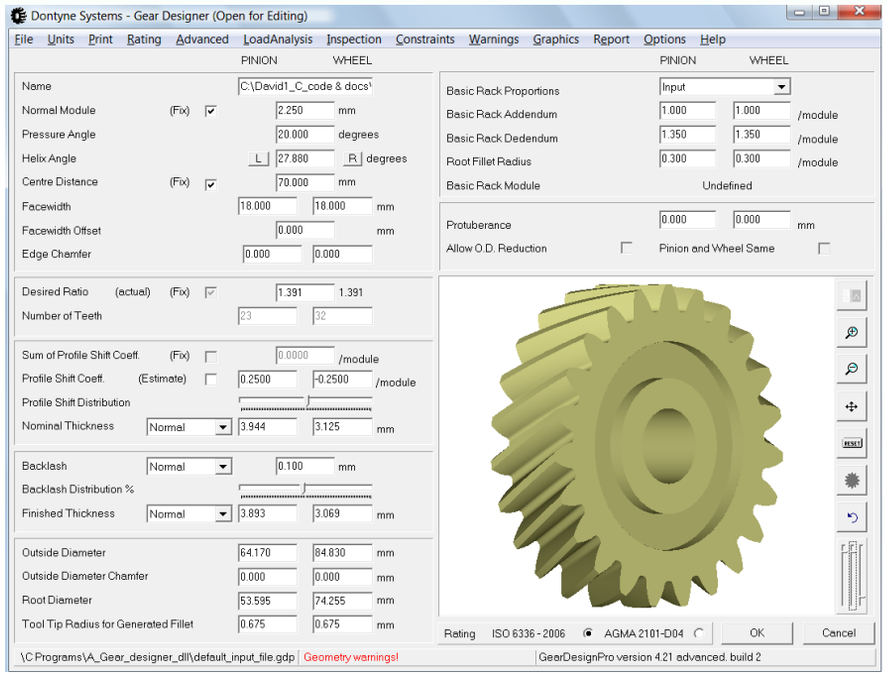
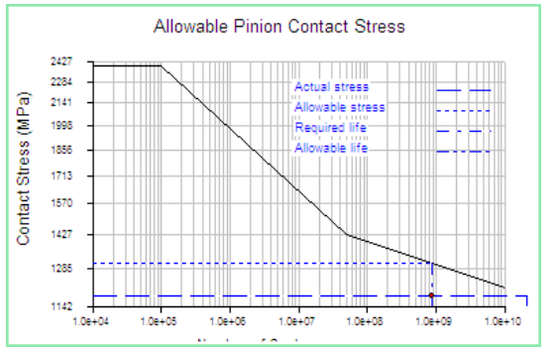
GEAR DESIGN & RATING SOFTWARE

A user friendly graphical interface



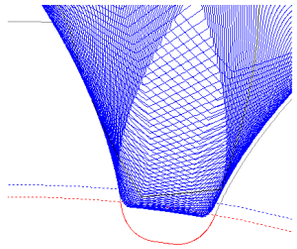
Fatigue curve chart with operating load condition shown

Safety factors and cumulative damage can be viewed on the fatigue curve.



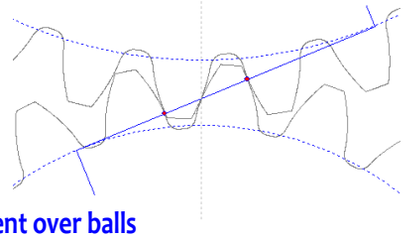
Gear conjugation plot

The conjugation of the gears can be plotted to check for interference between form diameter and SAP



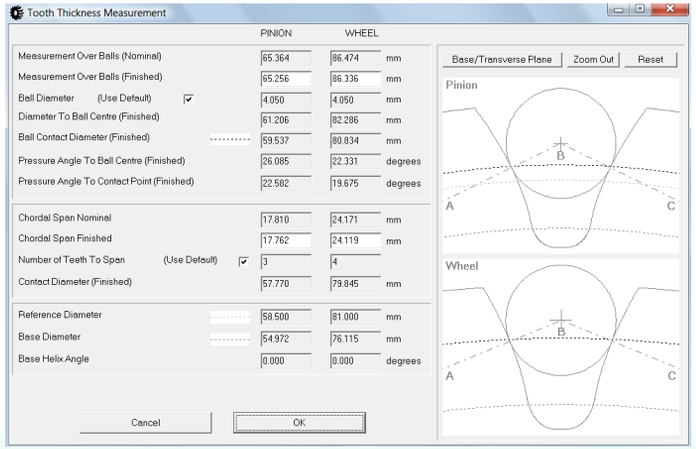
Line of action plot

Plot for teeth in contact in transverse plane



Measurement over balls

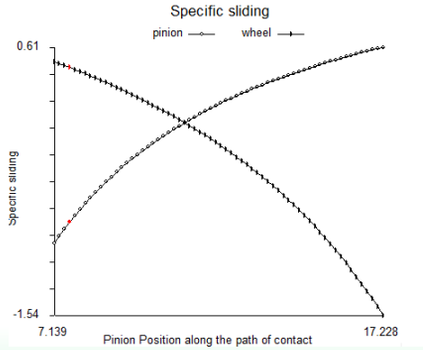
The measurement over balls with contact height



The standard features include :-

- *Involute internal and external spur and helical gear geometry*
- *ISO 6336 rating (inc. 2008 updates)*
- *AGMA 2001 – D 04 rating*
- *Tolerances to ISO 1328*
- *Tolerances to AGMA 2015*
- *Standardized tooth proportions or calculate for maximum contact ratio*
- *Plots of gears in 2D and 3D*
- *DXF output of transverse tooth profile*
- *Co-ordinates output of tooth profile*
- *Measurement over balls and chordal span including contact height*
- *Metric or Imperial(English) units*
- *Gear sizing*
- *Flash temperature calculations*
- *Graphical plot of specific sliding*
- *Plot of theoretical path of contact*
- *Material database (user defined)*
- *SN fatigue curve plots*

Specific sliding



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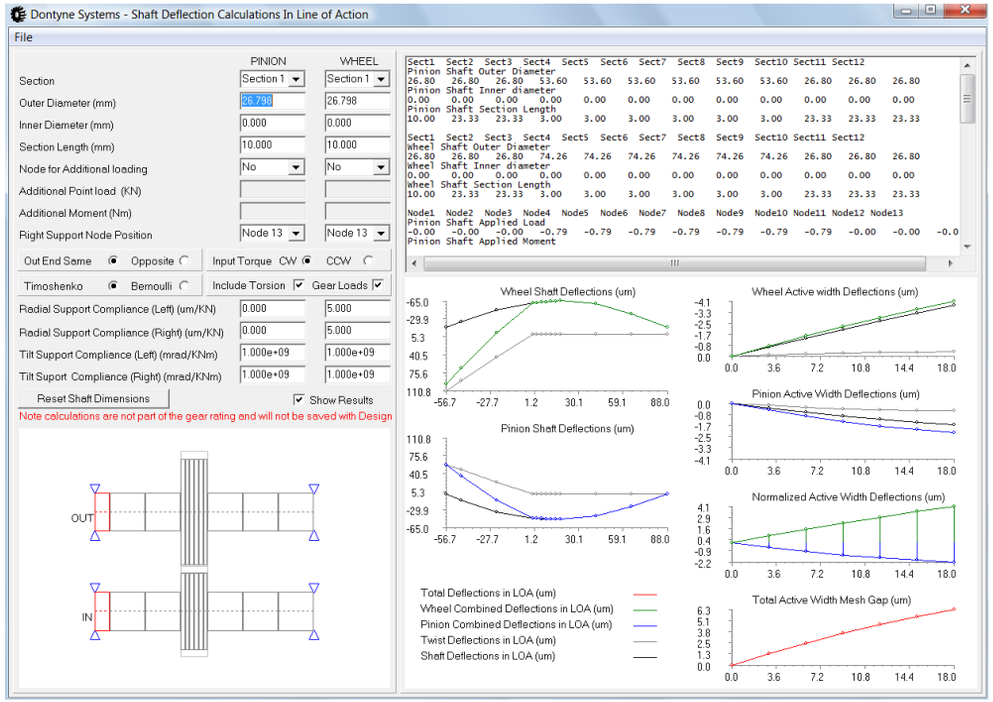
ADVANCED GEAR CALCULATIONS

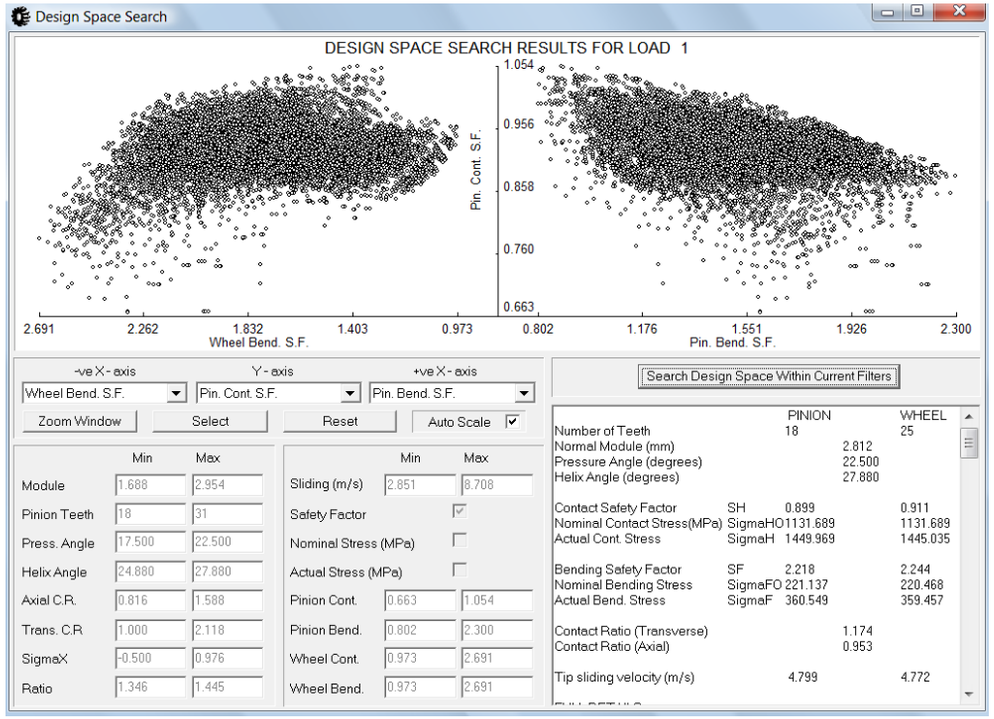
Shaft deflection calculations for gear misalignment



The advanced features include :-

- *Gear optimization through design search*
- *Custom report formatting*
- *Shaft deflection calculations*
- *Network / floating licence installation*

Gear optimization from design space search



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