

# Dontyne

## Systems

Gear Design | Analysis | Manufacture | Inspection

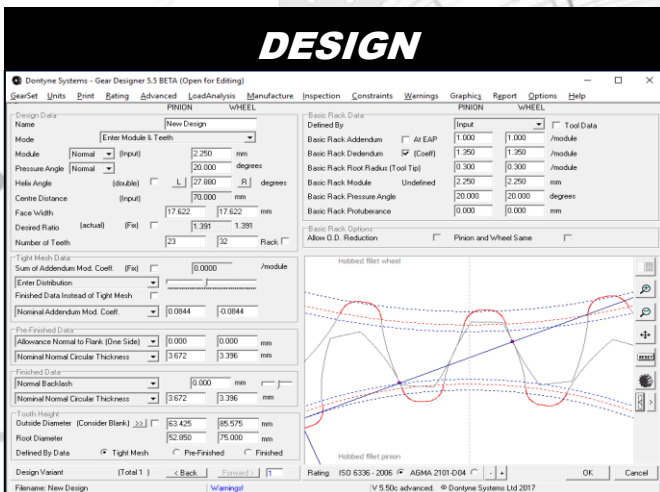
### Introducing Gear Design Pro Lite

Dontyne Systems Gear Design Pro (GDP) Lite has been developed for designers or manufacturer's that are looking for a quick way to generate gear geometry without the need for sophisticated and detailed load analysis. With limited operator input GDP Lite will create the gear design, including the definition of geometry, and the rating of gears to ISO and AGMA standards, including tolerances.

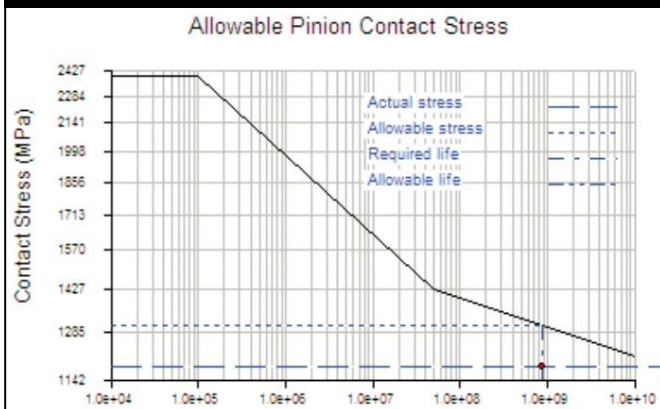
### Fully Functioning Spur & Helical Gear Design Capabilities for Under \$3,000

#### A User-Friendly Graphical Interface

The GDP Lite capability has been developed for a quick and simple gear design solution, limited to spur and helical, but with all of the functionality that is included with our full Gear Design Pro offering. This solution is for the experienced or inexperienced user who needs a quick, easy, and intuitive solution for gear creation.



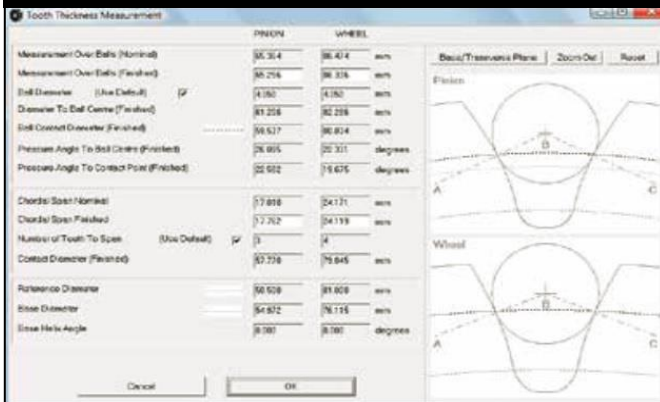
#### RATING



#### Design for the Application

GDP Lite allows for quick and easy design to specific AGMA and ISO standards. By choosing the required quality level, with the application specific safety standards, the designer can save the organization time and money by implementing an application appropriate design early in the project.

#### INSPECTION

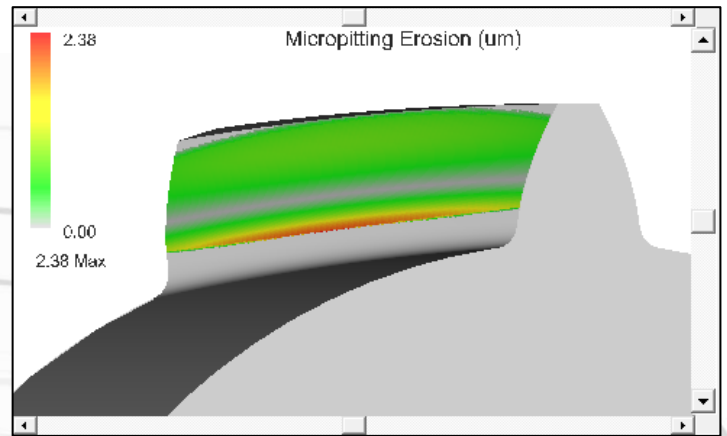


#### Digital Analysis Before Manufacture

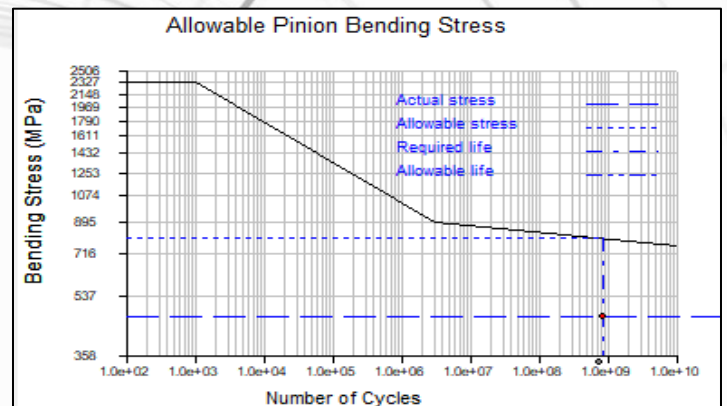
Utilize GDP in the design process to evaluate the gear manufacture. Verify tolerances and measurements over balls and chordal span. View tooth profiles and proportions - or chose maximum contact ratios. GDP Lite provides evaluation capabilities that focus on application requirements and manufacturability.

## FEATURES INCLUDE:

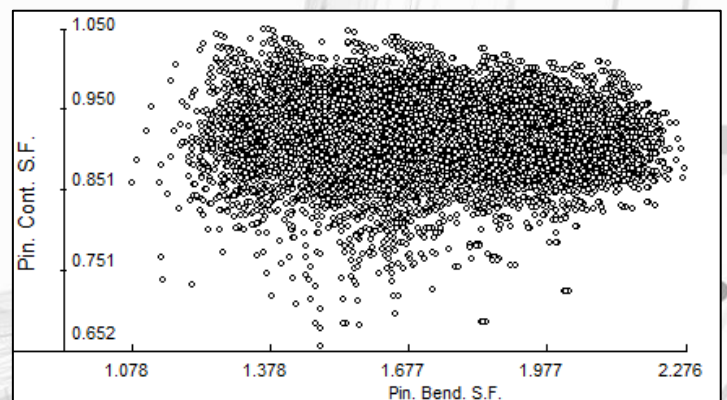
- Involute Internal and External Spur and Helical Gear Geometry
- ISO 6336 Rating (Including 2008 updates)
- AGMA 2001 – D 04 Rating
- Tolerances to ISO 1328
- Tolerances to AGMA 2015
- Standardized Tooth Proportions or Calculate for Maximum Ratio
- Plots of Gears in 2D and 3D
- DXF Output of Transverse Tooth Profile
- Coordinates 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
- Comprehensive Micro-Pitting Model Originally Developed by Dave Barnett Based on Results of a British Gear Association Research Program



The Wear Due to Progressive Micropitting can be Viewed in 3D at Any Stage



Visual Identification of Safety in Up to 100 Load Cases in Duty Cycle



Design Space Search Generates 10,000 Valid Designs in 30 Seconds

## Contact Dontyne Systems



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