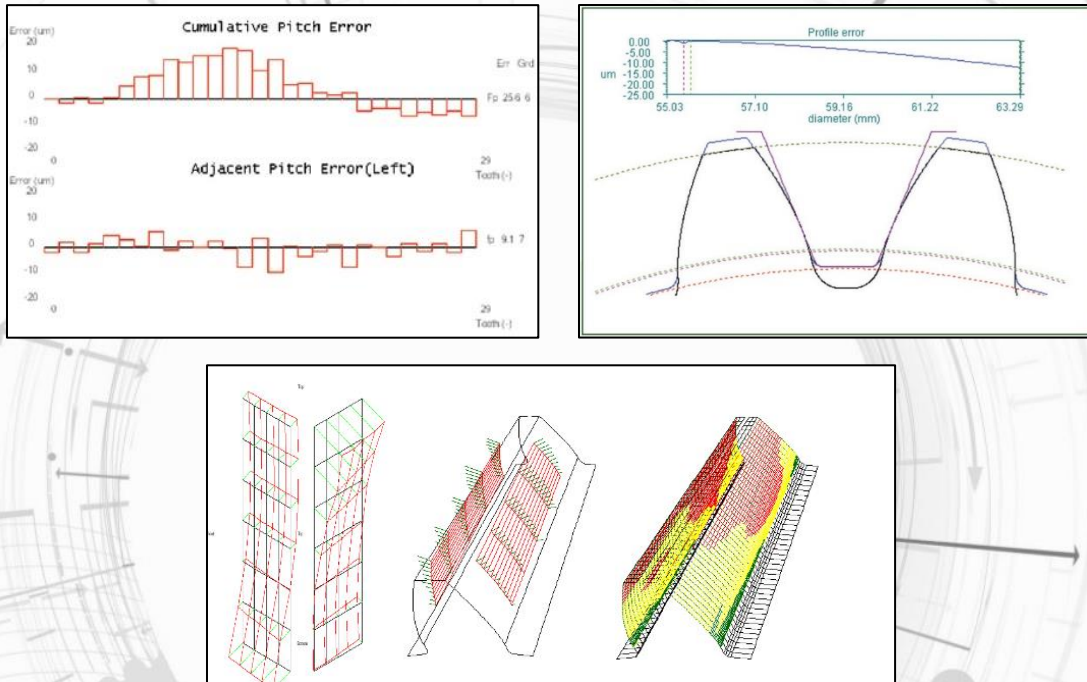


GEAR INSPECTION & CORRECTION

LINKS TO MEASURED SURFACE DATA – MAKING CORRECTIONS



KEY FUNCTIONS & APPLICATION BENEFITS:

- **NEW for v5.6 (2020) Inspection Center Integration into Hexagon**
- **NEW for v5.6 (2020) Integration to Inspection (Okuma Grinder)**
- Evaluation of Spur & Helical, Worm & Wheel, Bevel & Spline Components to AGMA and ISO Standards
- Statistical Analysis and Mastering
- Simulate Static Tests – Measurement Over Balls
- Simulate Dynamic Tests – Transmission Error and Marking Pattern
- Surface Measurement Data – Compatible with *Dontyne* Gear Production Suite (GPS), Loaded Tooth Contact Analysis (LTCA) and Machine Simulation
- Imports/Exports to Various Measurement Devices – Option to Embed Software

GEAR INSPECTION & CORRECTION

INSPECTION CENTER MODULE – Powerful waste reducing statistical evaluation of multiple measurements and creation of a master surface. Contact marking can be done with a “virtual master” or other measured component; part of Dontyne’s Gear Production Suite (GPS).

About Us

Since 2007, Dontyne Systems has developed and globally licensed a modular suite of intuitively designed gear production software tools, with a distinct emphasis on manufacture. Our software allows end-to-end control of the gear manufacture process through an integrated approach; we are passionate about helping our customers from global brands to multi-tasking job shops make good parts. Our Quick Start software solutions are remarkably user-friendly and require very few data inputs to begin seeing results almost immediately. Our “transparent pricing model” means you can be assured the module you license is complete and ready to go for the stated task – no extensive menu of add-ons!

What sets us apart?

Dontyne’s key specialism is the contact area between gear pairs from design – manufacture – inspection and back again to make corrections and “close-the-loop.” We do offer a very intuitively developed rapid build Concept Gearbox modeler with “live” connections and dynamic auto-data correction functions to help keep you on track, but this is not our primary area of focus. Customers who already use other gearbox software packages come to Dontyne because of our strength and focus on gear contact, tooling integration and manufacture - after all, without good contact it really doesn’t matter how good the box is right?

7 Reasons to Consider Dontyne

- 1. Manufacturing Optimization** – Simulations of hobbing, shaping, shaving, continuous grinding (with dressing), profile grinding, and CNC machining permit automatic design and checking of accurate machining for nominal case and max/min cases for all tolerance conditions.
NEW: FE Analysis of any cylindrical tooth form including asymmetric, non-involute, and with grinding notch.
- 2. Load Analysis Model (LAM)** – An experimentally validated FE model (see website).
- 3. Gear Box System Model** – Combines a rapid build 2D concept tool with live check of power flow to a fully coupled 3D deflection model and LTCA dynamically/automatically updates when changes are made.
- 4. Transparent Pricing** – Dontyne only offers around 20 modules that are “complete” and task specific.
- 5. User Experience: Simplicity of Use** – At nearly every online demo, users comment on the time-saving intuitive screen designs that require very few data inputs to quickly see results and get dynamically updated reports/graphics – simple enough for new engineers yet sophisticated enough for the seasoned “gear-gurus”
- 6. Service & Support** – Dontyne is establishing a reputation for being very responsive to new and prospective users, and for being easy to work with. Mathematics may rarely change but we value the opportunities to help make the user experience increasingly easier.
- 7. “Generic” Bevel Gear Modules** – Dontyne allows users to fully benefit from modern technology in gear production by connecting the design analysis and optimization directly to machining with multi-axis CNC machine tools to produce bevel gear sets previously requiring expensive dedicated equipment.

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