

What they don't teach you in engineering school about gear design



It's this:

- 1. The life of plastic gears can be calculated** – just like metal gears.
- 2. Plastic gears can replace metal gears in most open gearing applications.**
The metal core increases the gear's torque transmission capability and provides a secure attachment to the shaft.
- 3. When designing gears for non-lubricated application, the tooth root stress calculation is no longer sufficient.**
Flank wear also has to be considered.
- 4. A tooth profile modification can reduce wear.**
- 5. Plastic gears allow a unique way to eliminate backlash.**

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Only Power-Core “plastic-on-metal” gears give you all these advantages!

- Fabricated to AGMA Class 9+ – machined to high accuracy.
- Outer diameters from $\frac{1}{8}$ inch to 3 feet and larger – handles a wide range of applications.
- Precision-matched tooth geometry – tooth mesh designed to match application; gear material dimensionally stable.
- Light weight – reduces inertia and drive power requirements.
- Does not grow or swell in moisture – reduced backlash; suitable for wash down and sub-zero applications.



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