

How to stop teeth in your plastic gears from breaking

Visit us at
Booth # 2632
NDE Show
Chicago
March 7 - 10, 2005



1. **Understand the loads on the gear** – our free Gear Card summarizes the load data.
2. **Select the right plastic** – it should be tension-free, dimensionally stable (especially in moisture), display high impact strength, and offer secure attachment to shaft.
3. **Size the gear** – We use proprietary software to correctly size the gear for the load.
4. **Design tooth mesh to minimize tooth wear** – this may involve optimizing tooth size, modifying teeth, or application of a special low-friction coating.
5. **Examine the drive layout** – sometimes a slight change in the drive design (e.g., a larger gear OD) will prevent the gear from breaking.
6. **Minimize backlash** – excessive backlash caused by an undercut to compensate for moisture absorption can increase shock loading and shorten gear life.

For your FREE Gear Card
Call 201-767-8066

Or visit
www.intechpower.com/Gear-Card.html

www.intechpower.com

INTECH
Power-Core®
Innovation with future™

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

- **No lubrication** – no product contamination, no maintenance required.
- **No moisture absorption** – eliminates the need for backlash allowance to compensate for swelling.
- **Steel, stainless steel, or aluminum core** – dissipates stresses and heat; reduces thermal expansion.
- **Engineered for longer life** – proprietary formula accurately calculates how long the gear will last.
- **Design assistance** – Intech engineers can help you size the gear to last in your application. Just fill in and return the free Gear Card available below.



For your **FREE Gear Card...**

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250 Herbert Avenue
Closter, NJ 07624
www.intechpower.com