

Preliminary Plastic Gear Design

Ticona and UFE, Inc.

UTS teamed up with plastic resin manufacturer Ticona and plastic gear manufacturer UFE to put first-step plastic gear design on the Web. The user inputs size parameters for spur or helical gears—number of teeth, pitch, face, center distance, power, torque, and tangential load. The Preliminary Plastic Gear Design program calculates initial specifications data, load analysis, safety factors and materials specifications. Designers can try “what if” scenarios for various applications. The program even recommends materials to use for manufacturing the gear!