

## New Documents Published by ISO TC 60

The following documents have been published by ISO Technical Committee TC 60, Gears, with the input from the relevant AGMA committees serving as ANSI Technical Advisory Groups:

### ISO 2490:2007, Solid (monobloc) gear hobs with tenon drive or axial keyway, 0,5 to 40 module – Nominal dimensions

This standard, supported during its development by the AGMA Cutting Tools Committee and US delegate, Mr. Michael Tennutti, specifies the nominal dimensions of general purpose single-start solid gear hobs. These hobs are intended for the production of gears which conform to ISO 54:1996 and present a 20 degree pressure angle in conformity with ISO 53:1998.

### ISO 21771:2007, Gears – Cylindrical involute gears and gear pairs – Concepts and geometry

This new standard specifies the geometric concepts and parameters for cylindrical gears with involute helicoid tooth flanks. Flank modifications are included. In addition, the standard provides equations for determination of the nominal values or the limiting values for the most used inspection methods for tooth thickness. The AGMA Gear Accuracy Committee served as the TAG to the development of this comprehensive document, in support of the US delegate, Mr. John Rinaldo. □

## AGMA Releases New Standards

AGMA's Technical Division is pleased to announce the publication of two new standards for use by the gearing industry.

The AGMA Fine Pitch Gearing Committee completed their review and updating of their standard which addresses tooth proportions for gears used in this special segment of the market.

The abstract of ANSI/AGMA 1003-H07, **Tooth Proportions for Fine-Pitch Spur and Helical Gearing**, and its metric version, ANSI/AGMA 1103-H07, states that tooth proportions for fine pitch gearing are similar to those of coarse pitch gearing except in the matter of clearance. The standards are applicable to external spur and helical gears with diametral pitch of 20 through 120 (1.25 through 0.2 module) and

a profile angle of 20 degrees. They provide a system of enlarged pinions which use the involute form above 5 degrees of roll. Data on 14-1/2 and 25 degree profile angle systems, and a discussion of enlargement and tooth thicknesses are provided in annexes. In addition, it addresses, in a new annex, an analysis of compar-

ative systems of selecting tooth thicknesses of pinions.

The Chairman, of the Fine Pitch Gearing Committee is Mr. Dan Seger of Perry Technology Corporation. □

