

TDEC Approves New Work Item Proposals

AAGMA's Technical Committees are continually looking for new ways to bring their knowledge and experience to benefit the industry by developing new publications to assist manufacturers and especially users to better understand the use of gears in power transmission applications.

With this in mind, the Technical Division Executive Committee (TDEC) recently approved the development of the following new documents.

- The Powder Metallurgy Gearing Committee will proceed with work on Metallurgical Specifications for Powder Metallurgy (P/M) Gears.

This information sheet recommends powder metallurgy (P/M)

steel materials and metallurgical quality requirements for use in specifying P/M gearing in various product applications. To include such materials as as-sintered, sinter hardened, through hardened, induction hardened, and case hardened. Characteristics covered include material composition, density, sinter processing (conventional, high temperature and sinter hardening), secondary heat treatments and post heat treatment processing, and their associated inspections. Topics related to gear design and rating such as case depth, stress capacity, and quality control systems are not addressed.

- The Plastics Gearing Committee will begin development of Identification of Plastic Gear Failures.

This document provides nomenclature for general modes of thermoplastic gear tooth wear and failure. It classifies, identifies, and describes the most common types of failure and provides information that will, in many cases, enable the user to identify failure modes and evaluate the degree of progression of wear.

This document will use, where possible, the nomenclature developed for traditional metal (steel) gears and will be based on the experience with a wide variety of injection molded and machined plastic gears.

If you would like to become involved in these new efforts, contact tech@agma.org at AGMA headquarters for details. ●

AGMA Welcomes Five New Members

The following companies have recently joined the American Gear Manufacturers Association. Please visit their websites to learn more them.

AKGears, LLC

www.akgears.com

AKGears's principal consultant is Alex Kapelevich, who has more than 25 years of custom gear research and design experience and more than 100 successfully accomplished projects for variety of gear applications in aerospace, automotive, agriculture, medical instruments, and other industries. He is also the author of numerous technical publications and patents.

Metso Minerals

www.metsominerals.com

Metso Minerals offers equipment, service, and process solutions to industries including quarrying and aggregates production, mining and minerals processing, construction and civil engineering, and recycling and waste management. Metso Minerals' trade names include Nordberg, Trellex, Svedala, Barmac, Flexowell, Lindemann, Texas Shredder, Skega, and Metso. Metso Minerals is a business unit of Metso Corporation, which is headquartered in Helsinki, Finland.

Drive-All Manufacturing Company

www.driveallmfg.com

Drive-All Manufacturing Company, in Avoca, Mich., designs and manufactures multi-speed reducers, increasers, and custom pulley for speed control applications.

ExxonMobil Research & Engineering Company

www.exxonmobil.com

ExxonMobil Research & Engineering Company (EMRE), located in Paulsboro, N.J., and Exxon Mobil Lubricants & Petroleum Specialties Company, Fairfax, Va., have joined AGMA. ExxonMobil is one of the largest worldwide petrochemical companies.

L&H Industrial

www.lnh.net

L&H Industrial, located in Wyoming, was founded in 1964 and currently has about 225 employees. L&H's engineers rethink and redesign problem areas on old machines to make them more efficient. They also design alternative replacement parts that meet or exceed original manufacturer specifications. ●