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PR Agency Contact:
Tim Daro
847-934-4500

GMTA Presents Profilator and its “Micro-Finishing” Technology at Motion + Power Technology Expo

With over 300 exhibiting companies, the Motion+ Power Technology Expo is the ideal show for gear, electric and fluid power industries. Taking place between October 15 and 17, GMTA is one of the exhibitors at the Cabo Center in Detroit, Michigan.

GMTA will feature its Profilator line of gear pointing, rounding, cutting, Scudding®, Hard Scudding®, deburring and polygon machine tools for North America. The highly modular machines are used for polygon and slot facing, shifter stop machining, chamfering and deburring of highly complex automotive and other powertrain gears. The “Scudding®” and the “Hard Scudding®” process sets the Profilator apart in the market because of its manufacturing efficiency. “Hard Scudding®” allows the machining of green and hardened gears on the same machine, using the same programs. Furthermore, it is a superior technology to skiving, the previous technology used in the gear industry.

While Profilator GmbH & Co. KG introduced the concept of “Hard Scudding®” in 2015, it expanded scudding technology with “Micro-Finishing.” “Micro-Finishing” takes place after the Hard Scudding® process has been completed. The process takes a high quality “Hard Scudding®” part and improves its surface quality. Additionally, this is a completely “dry” machining process and requires no cutting fluids or MQL technology. The total cycle time for finishing a ring gear via Hard Scudding® and “Micro-Finishing” is approximately 64 seconds but the cycle time could be decreased by 10%, keeping it under one minute for all automotive gear rings.

“Micro-Finishing” technology is aimed at making a quieter gear and the superfinishing process reduces friction, increases pitting resistance and the life of gears. This process uses a high quality diamond plated tool, designed to remove only a small amount of part material. The resulting part greatly increases surface quality on the gear teeth.

The “Micro-Finishing” technology can be applied as a “stand-alone” process on a “Scudding®” machine, a sequential process where “Hard Scudding®” and “Micro-Finishing” are completed using a tandem tool set-up or it can be applied on a double Profilator® machine. The processes of “Hard Scudding®” and “Micro-Finishing” can be completed simultaneously.

Stop by at booth 4439 to find out more about the technologies at GMTA.

For more information, please contact:

Walter Friedrich
President
GMTA

4630 Freedom Drive
Ann Arbor, MI 48108
1-734-973-7800
sales@gmtamerica.com

GMTA is the exclusive distributor for a number of top-quality German and other metalworking machine builders companies including Arnold, BvL, K+G, Praewema, Profikator, Rasoma, Samag and WEMA Glauchau. The company's headquarters is located in Ann Arbor, Michigan with a subsidiary in Queretaro, Mexico.