

Gleason Cutter Head

IMPROVES TOOL LIFE
AND PRODUCTIVITY



The Pentac Plus is the latest generation of Gleason's Pentac bevel gear cutting system. It is designed to allow much higher tool life and improved productivity, especially for cutters using multiple face blade geometry.

The blade clamp block design of the Pentac Plus is a new feature that makes height and radial adjustments easier and faster to perform, so precise axial blade movement during cutter building and truing results.

The Pentac Plus prevents chip packing, the accumulation of chips between cutter blades during gear cutting, which is a frequent issue with previous cutter designs. Chip flow is often insufficient in front of the outside blades because the side rake angle obstructs the chip chamber in the direction of centrifugal force, which results in weak chip evacuation. If this issue is not resolved, pressure increases and extreme temper-

atures of the highly compressed chip packing will eventually distort blade geometry. The result is early blade failure and rejected parts, and in the most severe scenarios, multiple cutting blades may break.

"To avoid chip packing, machines

are usually operated with fewer cutting blades at conservative speeds and lower feed rates. The new Pentac Plus is designed to enhance chip flow and prevent chip packing," says Hermann J. Stadtfeld, vice president of bevel gear

continued

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technology for Gleason. "Therefore, gears can be cut with more efficient cycles without premature degradation of the cutting blade efficiency. The net result is longer tool life and lower cost per part."

The Pentac Plus cutting system is

available for face hobbing and face milling in all cutter sizes, and it can be adapted to any existing Gleason gear cutting process without new software or hardware. The Pentac type cutters are sold in Japan under the name Superi-Ac.

For more information:

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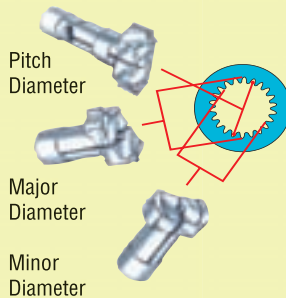
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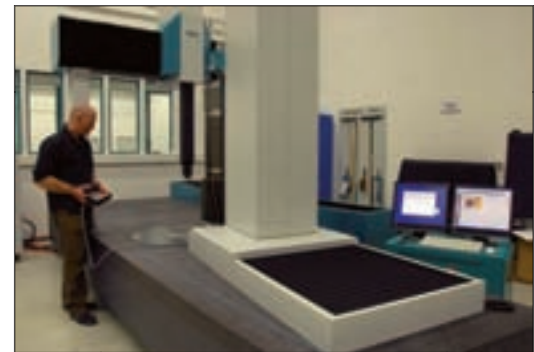
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Hybrid CMM/GMM

MEASURES WIND TURBINE GEARS



The LHGT 2600 Hybrid CMM and GMM is designed for wind energy industry measurement needs.

Wenzel Geartec introduced a hybrid gear measuring machine at Gear Expo this year, which is specifically designed to measure the large gears and pinions used in the wind energy industry.

The Hybrid LHGT 2600 machine features a prismatic measuring volume of 1,500 mm x 2,500 mm x 1,200 mm, and it has an embedded hydrostatic rotary table flush-mounted inside an Impala black granite machine base. The table and fixture measures and supports gears up to 2,600 mm in diameter and up to 20,000 pounds. The machine features a removable tailstock column that can mount on the base to measure and support pinion gear shafts up to 1,900 mm in length. The LHGT 2600 uses Renishaw SP80 scanning technology.

"Wenzel has developed this