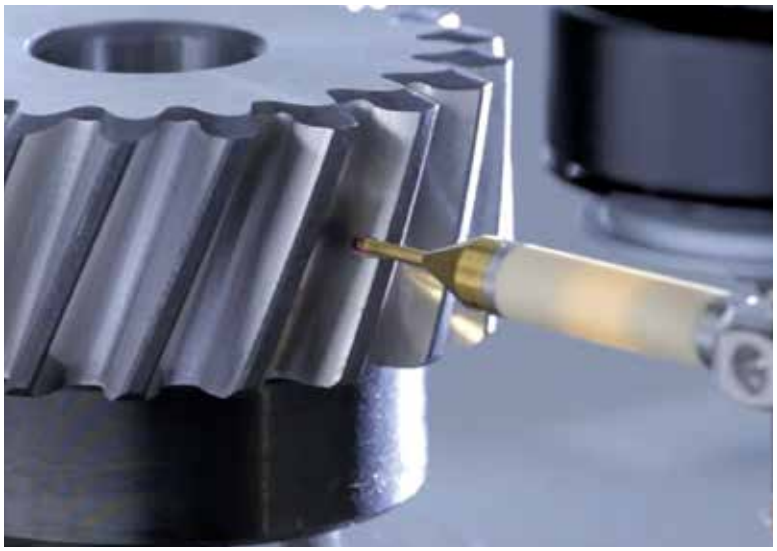
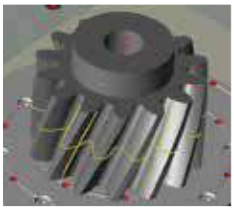
OPTIONS
GEARPAK Series

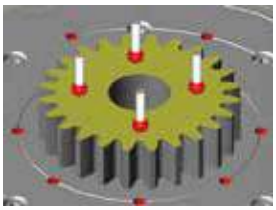


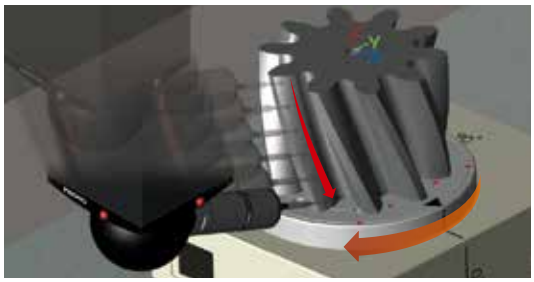
Optional Software

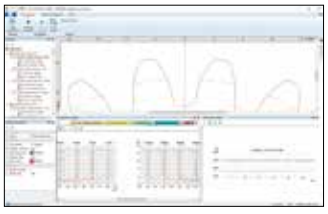
GEARPAK Express

For more effective and reliable gear measurement









Intuitive operation

- A 3D model created from the provided gear specifications enables you to visually and easily check whether measurement will be performed as intended.
- Automatic program creation and on-screen measurement guidance help quick and easy setting of the coordinate system.

High-speed scanning measurement

- "4-Axis nominal scanning"*1 can make scanning even faster. The measurement time can be reduced up to 50%*2 compared with the conventional method.

*1 A rotary table (optional) is necessary.
*2 The value depends on the gear size and required accuracy.

Watch a video of high-speed scanning measurement ▶

Quick feedback

- The real-time display of the measurement result and tolerance judgment result enables early detection of non-conforming product.
- You can perform dimensional measurement and geometrical tolerance evaluation without changing the setup during gear evaluation.

Optional Software

GEARPAK-Worm

GEARPAK-Worm is for evaluating tooth-form profile, tooth-alignment profile, etc., from the measurement data of a worm gear obtained with a CNC CMM.

Creates a simplified part program from gear specification data

A CNC part program can be created automatically on GEARPAK-Worm just by entering the gear specification data and a measuring method. There is no need to teach the system so measurements are easily performed.

Automatic tolerance setting compatible with various standards

GEARPAK-Worm supports various gear standards and can set tolerance just by entering the specification data and the kind and level of standard. GEARPAK-Worm supports DIN 3974-1 and AGMA 2111-A98. Moreover, the software allows geometrical evaluation of gears with an arbitrary tolerance since a tolerance can be keyed in and edited.

Optional Software

GEARPAK-Bevel/Hypoid

GEARPAK-Bevel/Hypoid is for evaluating tooth-plane profile, pitch error, etc., from the measurement data of a bevel gear or hypoid gear obtained with a CNC CMM.

Creates a simplified part program from gear specification data

A CNC part program can be created automatically on GEARPAK-Bevel/Hypoid just by entering the gear specification data and a measuring method. There is no need to teach the system so measurements are easily performed.

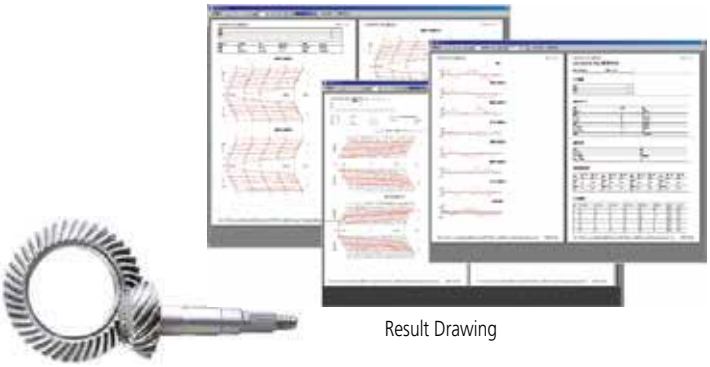
Determines specification data for corrected gear cutting by a unique algorithm

GEARPAK-Bevel/Hypoid determines the specification data (estimated value) that indicates good tooth contact from gear data measured with GEOPAK and gear cutting specification data (initial value) used for a gear-cutting machine.

Supporting gears manufactured on a Gleason Corporation's gear-cutting machine

GEARPAK-Bevel/Hypoid supports ring gears and pinion gears manufactured by the Formate or Helixform methods.

Note: In addition to GEARPAK-Bevel/Hypoid, Internet Explorer (5.x or later) is required for evaluation.



Result Drawing

MiCAT Planner

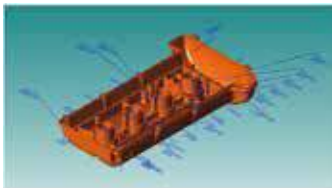
Automatic measurement program generation software for CMMs

MiCAT Planner

Software for automatically creating an MCOSMOS measurement program

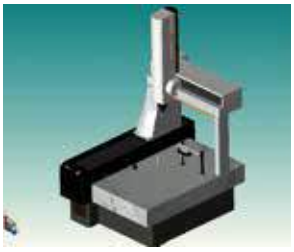
Creating a program in a much shorter time

The software can automatically create an optimum measurement program using the PMI (tolerance information) of a 3D CAD model. Even without existing PMI, you can add new PMI in MiCAT Planner.



Improved efficiency with streamlined measurement processes

MiCAT Planner determines the shortest measurement path and optimum probe orientation to create a program that can be completed in the shortest time.



Example of sampling method: touch-trigger measurement

Example of sampling method: scanning measurement

Maintaining, improving, and transferring the measurement quality

You can configure measurement rules to prevent variation of the measurement quality from programmer to programmer. You can also accumulate measurement know-how to maintain, improve, and transfer the measurement quality.