GEAR PRO involute: Cylindrical Gear Measuring Program (option)

GEAR PRO is provided specially for measuring screw rotor although it is a compressor pump which is different from the gear and is not transmitting the power. Measurement will be conducted based on the specification created from tooth surface profile design point cloud data. (Rotary table is required)

<Measuring Items>
Profile, Lead, Pitch, Diameter of addendum circle and dedendum circle

<Contents>
Measuring position, Number of measured gears, Number of measured cross section, Tolerance and etc.

GEAR PRO worm: Worm Gear Measuring Program (option)

Worm gear is a gear which transmit the power with a combination of worm and worm wheel. It is a program designated for measuring worm. Measurement will be conducted based on the specification of each modules, reference diameter and torsion angle. (Rotary table is required)

<Measuring Items>
Tooth profile, Tooth trace, Pitch, Diameter of addendum circle and dedendum circle

<Evaluation Items>
Tooth profile, Tooth profile gradient error, Tooth profile/trace crown, Tooth trace, Tooth trace tilt error, Accumulative/single/adjacent pitch error, Tooth space run out/width, over ball/over pin dimension, Tooth thickness, Base tangent length, Addendum/dedendum circle diameter and etc.

GEAR PRO bevel: Bevel Gear Measuring Program For Hypoid Gear Measuring (option)

This program performs tooth surface profile measuring and evaluation based on bevel gear and hypoid gear reference values.

Tooth surface reference values can be imported using DCOM (option) or generated by measuring a master gear.

<Evaluation Items>
- Measurement result output to the screen or a printer
- Tooth surface profile evaluation
  - Measurement results can be output in table form and topographic form.
  - Comparison evaluation with tooth surface profile reference values generated using a master gear, etc.
  - Comparison evaluation with manually input reference values
  - Comparison evaluation based on a Gleason gear reference value file
- Pitch/tooth space runout evaluation
  - Single pitch, pitch, adjacent pitch, tooth space runout

*Gleason interface is required in order to perform comparison evaluation based on a Gleason gear reference value file. (Option)
*Gleason interface can be used to link with the G-AGE program (available from Gleason Asia) through a bevel gear measuring program.
Machine setting corrections can be calculated for a Gleason gear cutter.

GEAR PRO involute: Cylindrical Gear Measuring Program For Spur and Helical Gear Measuring (internal and external tooth) (option)

Automatic measurement can be performed simply by inputting gear data. Operation is performed using an interactive system.

<Operation Methods>
- CNC full automatic measurement
- Measuring item selection (tooth profile/tooth trace/pitch)
- Tooth profile, tooth trace measuring tooth selection (1 to 4 teeth/all teeth)
- Measuring tooth surface selection (right, left, both surfaces)

<Evaluation Items>
- Tooth trace & profile
  - Total error, Profile variation, Angle variation, Crowning
  - Pitch
  - Cumulative pitch error, single pitch error, adjacent pitch error
  - Tooth space runout

<Topography evaluation>
<Measuring simulation execution (offline)>