

Spiral Bevel Gear

MTW-510-SBV-001

Measurement of Spiral Bevel Gears and Crown Gears

With this QUINDOS option spiral bevel gears and pinions from all leading manufacturers (e.g. Gleason, Klingelnberg, Oerlikon and others) can be measured and evaluated on 3D Coordinate Measuring Machines (CMM).

The main features of this package are:

- Generation of the nominal flank form by :
 1. Measuring a master gear or flank
 2. Loading nominal flank points from a file
- Automatic generation of the moving path and probing points for the CMM.
The number of probing points can be selected by the operator.
- Actual-Nominal comparison of the flank topography with different fitting methods.
- Evaluation of profile angle and spiral angle errors
- Evaluation of pitch, runout and tooth thickness
- Determination of the gear quality class based on DIN 3965, AGMA 390.03a, Rev. 1988 or ANSI/AGMA 2009-A98



Leitz Coordinate Measuring Machines with QUINDOS software, can measure any kind of gear or gear cutting tool without a rotary table. Thus enabling the measurement of many spiral bevel gears fixed on pallets, reducing inspection costs significantly compared to conventional gear measuring machines.

The package also provides interfaces to the GAGE 4/WIN software from GLEASON Works, USA, and to the "Bevel-Gear-Chain" from University of Aachen, Germany. Furthermore gear data can be imported/exported in VDAFS - KEGMES format.

Included in this package is the measurement and evaluation of **Crown Gears**.

With QUINDOS software precision 3D Coordinate Measuring Machines can be converted into high throughput gear measuring machines. A very cost-effective way to upgrade your quality control system.

**Leitz gear measuring technology:
fast, precise and cost-efficient!**

