

## Shaper Cutter

MTW-510-SHP-001

### Inspection of shaper cutters on Leitz high precision coordinate measuring machines and gear inspection systems.

Measurement of spur and helical shaper cutters according to DIN 1829 on Leitz high precision coordinate measuring machines and gear inspection systems.

The cutting face can be conical or stepped.

Among others this QUINDOS package evaluates:

- Axial runout of the cutting edge
- Radial runout
- Tooth thickness
- Angles at the cutting edge
- Pitch
- Profile
- Helix



QUINDOS Shaper Cutter on a CMM is as easy to operate as a dedicated gear inspection system: The moving path of the Coordinate Measuring Machine with all probing points as well as scan-lines is generated automatically.

All shaper measurements on a Leitz CMM are executed using a star-shaped probe cluster. A rotary table is not required for the inspection of such cutters. Therefore various shaper cutters can be mounted and inspected automatically on pallets. Thus providing a much higher throughput compared to conventional gear inspection systems.



Due to the tight tolerances of Shaper cutters, only high precision Coordinate Measuring Machines with a very small probing error  $P$  and continuous scanning capability (i.e. Leitz PMM-C 700 P) should be used for such measurements.

**Gear inspection systems by Leitz: fast, precise and cost-efficient!**