

MEASURING TECHNOLOGY
FOR FIRST RATE PRODUCTION



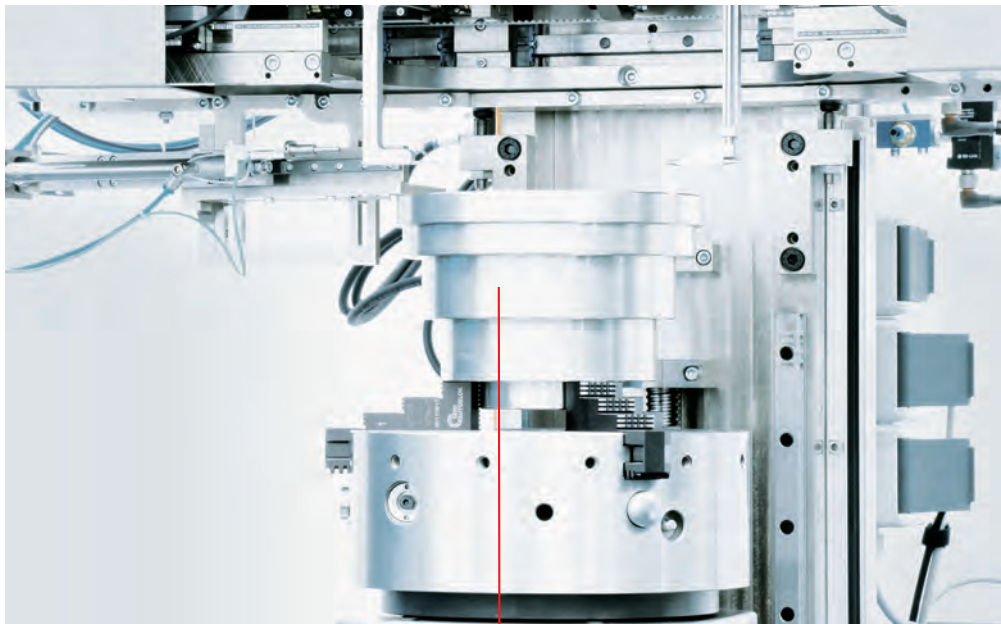
GEAR CONTROL

HAFNER

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The GEAR CONTROL measuring device is suitable for all annular workpieces such as gears, synchronous rings, etc. GEAR CONTROL covers a variety of measurement tasks such as inner and outer diameter, height and width, grooves. Optional: runs, angles and spline measurements. GEAR CONTROL customer benefit:

- | Fast post-process measurement of inner and outer diameter for readjusting the machine tool
- | Flexible surface measuring and scanning
- | Wide set-up range - in case of adjustments only a few exchange parts are required
- | Setting master in cascaded design for the entire measuring range



The workpiece transfer can be flexible over all common systems (robots, gantries, loading and unloading units, etc.)

Achieving a cycle time increase an additional workpiece changing device is optionally available.

Measurement tasks

Measuring modules are transformed into different measuring levels and radius positions with servo drives.

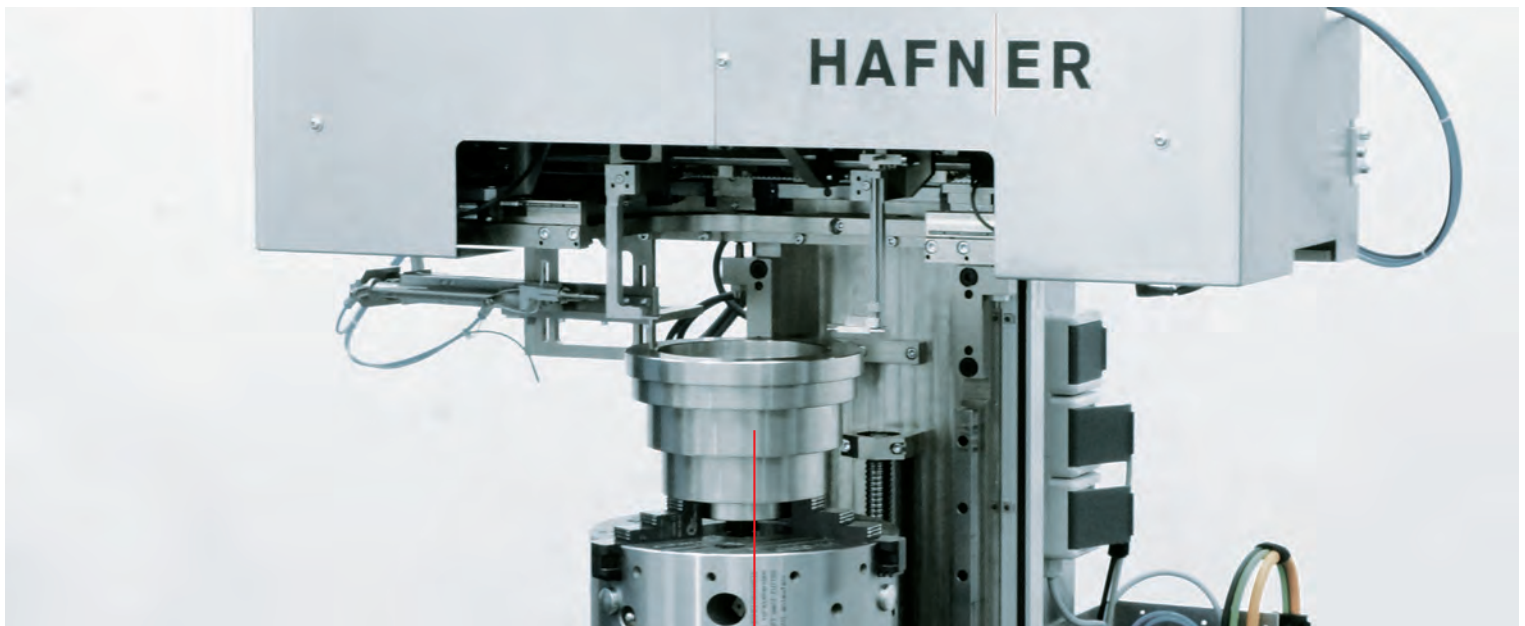
GEAR CONTROL covers a variety of measurement tasks:

- | Inner and outer diameter measurements
- | Heights and widths above, below, inside and outside
- | Groove measurements (touch probe geometry in coordination)
- | Temperature acquisition
- | Runs or angles – rotary table, optional with air bearing
- | Thread and ANSI B92.1 spline measurement

Main workpieces

Possible application with annular center bore workpieces:

- | Gears and synchronizer cone
- | Planetary gears
- | Ring gears
- | Wheel hubs and wheel flanges
- | Ball-bearing
- | Synchronizer rings
- | Joint parts



The GEAR CONTROL is on a base frame with vertical workpiece arrangement. The sequence control can be run via the control of the machine tool or an independent controller. Equally, the evaluation of the measuring sensors can be either with machine tool's control or an additional measuring computer.



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