

Becker GearMeisters, Inc.

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GFM Pitch Tester Retrofit Package Specifications

Computer evaluation unit ZMP-20e

Gear measuring processor:

- Ø 32-bit industrial computer Pro-Unit
 - M 68ECO30 CPU; 25 MHz, 4 MB DRAM
 - Timer, clock, watchdog
 - 1,4 MB Floppy; 1 GB SCSI-harddisc
 - graphic: 256 colors, dissolution: 640x480 (standard), 1 MB VRAM
 - points of intersection: 2 x RS232, 1 x CENTRONICS
 - 7 plug places for interface modules
- Ø Table housing: WxHxD = 485 x 320 x 180 mm
- Ø Connected load: 115/230 V, 240 VA
- Ø Point of intersection for gear tester
 - 16 x 24 V in/output (opto.....) each
- Ø 15" VGA color monitor
- Ø PC-AT MF2 keyboard
- Ø Printer HP Laser

Standard gear software:

- Ø Pitch and runout (999 teeth)
- Ø Numerical and graphical indicating of measured values using the input of the measured values
- Ø Calculation of the machine setting data
- Ø Free definition of measuring and evaluation length
- Ø Fully automatical evaluation of the index figures according to DIN 3960
 - Pitch: f_{p_max} , f_{u_max} , R_p , F_p , $F_{pz}/8$
 - Runout: F_r
- Ø Determination of quality according to DIN 3962
- Ø Evaluation according to free selectable tolerances
- Ø Complete illustration of all measuring diagrams on one screen page
- Ø Free selectable scales
- Ø 20 marking points within the measuring diagram for absolute
- Ø Free choice of measuring and evaluation parameters
- Ø Output of gear data, diagrams and index figures by printer
- Ø Measuring system: inch system or metric system
- Ø Data administration system for storage and loading of data sets for repeated measurements
- Ø Easy operation by:
 - software controlled call of functions
 - direct call of setting and measuring functions by function keys
 - clear input masks for gear data and measuring parameters
 - control of the measuring cycle by keys at the measuring device
 - graphic indication in case of setting and measuring operations
- Ø Language: English