Description of measuring application for GMS 32 machine using double flank rolling method

- Evaluation according to DIN, ISO, AGMA, BIS Standards as well as to numerical tolerances
- Following deviations can be measured:

\[ F_i'' \] – Total composite error
\[ f_i'' \] – Tooth to tooth error
\[ F_r'' \] – Average value of radial run-out

- Double flank deviations as well as acceleration diagram are measured
- The application includes a module for FFT analysis (important module for searching of causes)
- Diagram of gear mesh during one or more pitches
- Location of tooth nicks
- One or more revolutions measurement, segment measurement
- Dialog-based application
- Saving of all measured data, incl. measuring reports (capacity almost unlimited)
- Every measurement can be saved automatically (optional)
- Multi-language application (standard: CZE, GER, ENG, FRA, ITA, SPA)
- Company logo on all print out materials
- Measuring reports can be saved in PDF format
- Backup of measured data
Single flank inspection | Double flank inspection | 3D inspection | Gearbox inspection

Figure 1 - Example of measuring diagram - all is OK

Figure 2 - Example of measuring diagram - gear with radial run-out, one tooth is damaged
Single flank inspection | Double flank inspection | 3D inspection | Gearbox inspection

Figure 3 - Example diagram of a gear with too short mesh duration

Figure 4 - Example diagram of a gear where are some surface unevenness
Single flank inspection | Double flank inspection | 3D inspection | Gearbox inspection

Figure 5- Example diagram of a gear with tooth backlash

Figure 6- Example of statistical measurement results evaluation