



AQUASTYL®
SLOVAKIA, s.r.o.

ANALYSER OF ROLLING BEARING VIBRATIONS
AVL 3000/AQ



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ANALYSER OF ROLLING BEARING VIBRATIONS AVL-3000/AQ

The analyser AVL - 3000/AQ is a laboratory measuring device with programme equipment which serves for the identification of rolling bearing defects in a non-destructive way using the frequency analysis of a signal obtained from the measuring device for the rolling bearing vibration level IL 100R/2000.

Measuring the level of vibration speed

Frequency range	50 Hz + 10 kHz
Measuring time	optional from 100 ms to 180 s
Evaluated parameter	vibration level (RMS) maximum vibration amplitude PEAK CREST FAKTOR

Spectral analysis

Frequency and-amplitude spectrum	from 50 Hz + 10 kHz
Evaluated parameter	vibration level (RMS) in three ranges I. 60 Hz - 300 Hz II. 300 Hz -1800 Hz III. 1800 Hz -10 000 Hz maximum amplitude in the third vibration range PEAK CREST FAKTOR

Defects analysis

Frequency range	1,8 kHz + 10 kHz
Evaluated parameter	vibration level (RMS) maximum vibration amplitude PEAK CREST FAKTOR
Frequency and-amplitude spectrum of the envelope	from 10 Hz + 500 Hz
Defect identification	determination of repeat frequency defects 0 ms + 100 ms

Time-related characteristics of vibration level

Record of vibration level (RMS) in all ranges.	
Performance time	5, 10, 20 min

Oscilloscope

Monitoring of input signal	
Frequency range	50 Hz + 10 kHz

Calculation of characteristic frequencies

The frequencies are calculated from the kinematic diagram of a rolling bearing.
The results are archived.

