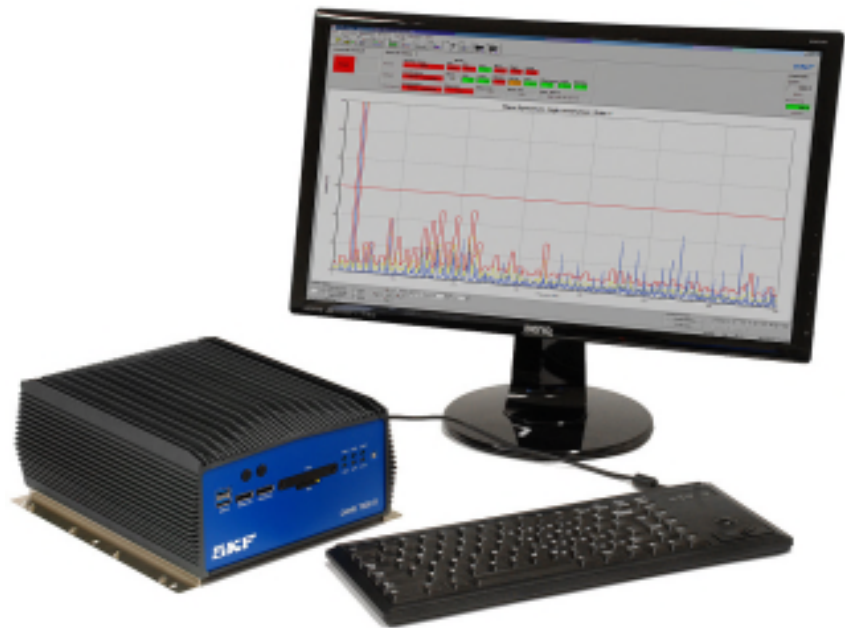


Noise and vibration testing electronics

CMME 7000 A and CMME 7000 B



General description

The CMME 7000 is the latest generation of vibration testing electronics which can be used for in- and offline vibration measurements. The CMME 7000 is an robust industrial Mini-PC with specific hardware components.

There are two versions, CMME 7000 A and CMME 7000 B, available. In the CMME 7000 A electronics a high-precision data acquisition board (A/D card) is used to read in vibration signals from the MEA 106/MEA 200 pickup's. This board also provides the loudspeaker output and supply voltage for the pickup's.

The MEA 106/MEA 200 work according the inductive principle and have an velocity proportional output signal. A small amplifier is built into the pickup housing. This has the

advantage that the vibration signal is already amplified and has a high signal-to-noise ratio when fed to the A/D card. The very robust MEA 200 pickup can be directly connected to the CMME 7000 A, as well as it's MEA 106 predecessor.

The CMME 7000 B is equipped with a mini-Streamer board and is used to read in the digital SPDIF signal of the SKF Laser Vibrometer MSL-7000. The SKF Laser Vibrometer combines a robust, integrated, single-box design with the clear advantages of non-contact, laser-based vibration measurement. Via a RS-232 interface the setup of the laser parameters will be performed.



Software

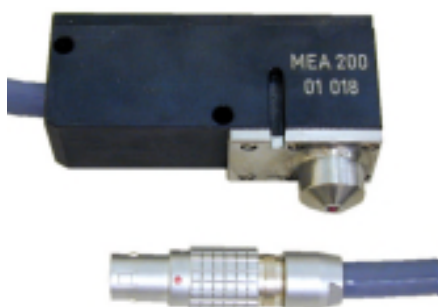
Depending on the customers needs, two different software packages are available for the CMME 7000 electronics:

1. Bearing noise testing software

This software is used for checking the noise level of rolling bearings. The same package is used for measurements performed during the production, as well as for tests made in the laboratory. The user just needs to select the fully prepared configuration for the specific equipment in use. For further details about this software product see the corresponding data sheet.

CMME 7000 A

with STAC SP220 board used for MEA 106/MEA 200 pickup's



MEA 200 is not part of delivery

2. BeQuiet+ grease noise testing software

The BeQuiet+ software is used for analysing the noise and damping behaviour of greases. Such an equipment is typically used in laboratories of all major grease producers for development purposes, but also to perform quality checks during the production of low noise greases supplied to the bearing industry. For further details about this software product see the data sheet for BeQuiet+.

CMME 7000 B

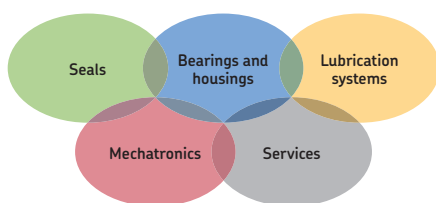
with miniStreamer board used for SKF Laser Vibrometer MSL-7000



MSL-7000 is not part of delivery

Technical specifications

- CMME 7000 A/B
 - Processor: Intel mobile core i5-3610ME, 2,7 GHz, 3 MB cache (will be updated continuously)
 - Memory: 4 GB SO-DIMM SDRAM, PC1066 (will be updated continuously)
 - Operating System: Microsoft Windows 7 Ultimate. 64-bit, english
 - Solid state drive: 120 GB SSD SATA-6G 2,5" Intel DC S3500 (will be updated continuously)
 - Extension slots
 - 1 x PCI used for PCI-1761
 - 1x PCI used for STAC SP220 - CMME 7000 A or used for miniStreamer - CMME 7000 B
 - Interface:
 - Front
 - 2 x Display Port
 - 2 x USB3.0
 - Back
 - 2 x DB9 for RS-232 COM Port
 - 1 x DB44 for 3 x RS-232 and 1 x RS-232/422/485 COM Port
 - 2 x RJ45 for Gigabit-LAN
 - 2 x USB3.0
 - 2 x USB2.0
 - 1 x VGA
 - 1 x DVI-D
 - 2 x Audio for Mic-in and loud speaker
 - Network: 1 x Intel® 82574L Gigabit-LAN, 1 x Intel® 82579LM Gigabit-LAN
 - Housing: Aluminium housing without fan, EMC-protection IP 42
 - Monitor: LCD monitor
 - Keyboard: PS2 type, normal PC-keyboard
 - Printer: All Windows® 7 supported printers
- Dimensions and power requirements
 - Dimensions (H x W x D): 114 x 215 x 272 mm (4.49 x 8.46 x 10.71 in.)
 - Weight: Approx. 6 kg (13.23 lbs)
 - Power requirements: 9 to 30 V DC, 120 W
 - Power adapter input: 100 – 240 50/60 Hz



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These competence areas include bearings and units, seals, lubrication systems, mechatronics, and a wide range of services, from 3-D computer modelling to cloud-based condition monitoring and asset management services.

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Technical specifications subject to change without notice.

For more information on your specific application, please contact our engineers at CMC – Steyr.

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