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N330

PORTABLE VIBROMETER & BALANCER

MACHINE ANALYSER

SPECTRUM ANALYSER

BALANCER 1-2 PLANES

CE UK CA

CEMB
VIBRATION EQUIPMENT

N330 PORTABLE INSTRUMENT

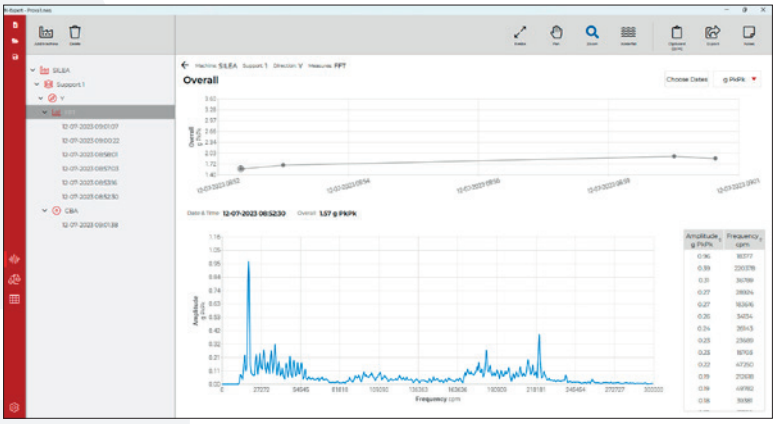
STANDARD ACCESSORIES

- No.1 accelerometer transducer 100mV/g
- No.1 magnetic base Ø 25mm
- No.1 probe
- No.1 transducer connection cable L 2m
- No.1 Photocell complete with upright and magnetic base
- Graduated disk Ø 96mm
- No.1 USB stick with manuals
- Battery charger with multiplug adapters
- Carrying case
- Micro USB Cable

OPTIONAL ACCESSORIES

- No.1 Connection cable 5m for transducer
- N.1 Connection cable 5m for photocell
- No.1 Extension cable 10m for transducer
- No.1 Extension cable 10m for photocell
- Second Plane Balancing Kit, composed by: accelerometer ¼”28”UNF + 2m cable red + Ø 25mm magnetic base and probe

N-EXPERT software for vibration analysis, balancing, and reporting



The Smart solution for vibration analysis and balancing

Intuitive functions under full control

Vibration meter and analyzer up to 10 kHz with static and dynamic balancing function

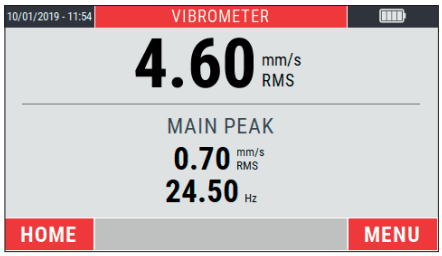
- **4.3” COLOR GRAPHIC DISPLAY**
- **ADVANCED TOUCH KEYBOARD**
- **RUGGED DESIGN WITH METAL CONNECTORS**
- **FAST MEASUREMENTS**
- **LARGE MEMORY CAPACITY**
- **QUICK REPORTING AND SOFTWARE**

EASY CLICK

HIGH LUMINOSITY

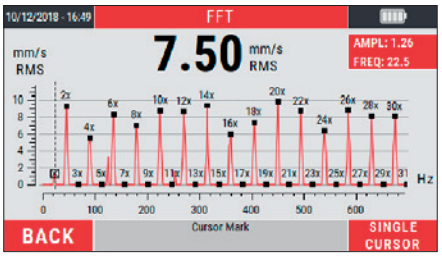
WIDE ANGLE VIEW

VIBROMETER & TACHO



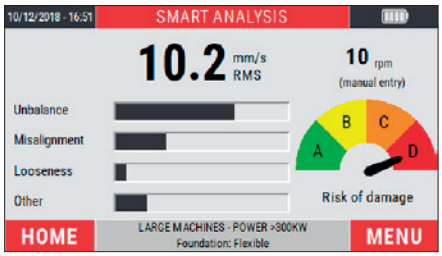
- Big readable characters
- Overall with main peak
- 1x fundamental with phase
- Speed rotation

HIGH RESOLUTION FFT



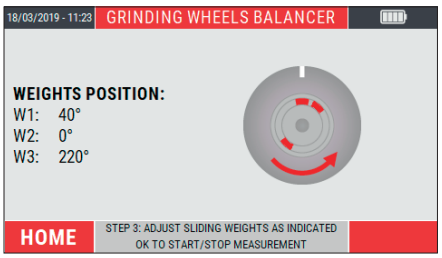
- Graphic zoom
- Peak cursors
- Autoscale feature
- List of main peaks

SMART ANALYSIS



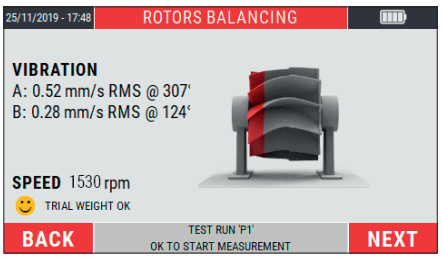
- Machine troubleshoot at a glance
- Vibration root cause identification
- Step by step according ISO 20816
- Automatic speed detection

GRINDING WHEEL BALANCING



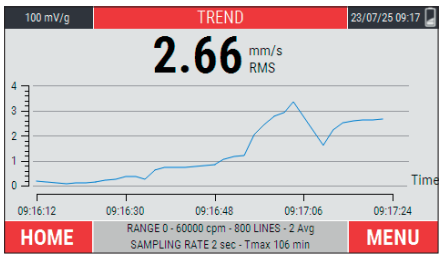
- Grinding balancing with 2 or 3 counterweights
- Graphic interface with real time correction
- Balancing report

ROTOR BALANCING



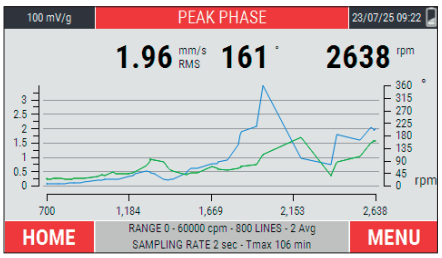
- Static and Dynamic Balancing (1-2 planes)
- Balancing Tolerance according to ISO 21940-11
- Verification of Trial Weight Effect
- Balancing by Adding or Removing Mass

TREND VS. TIME



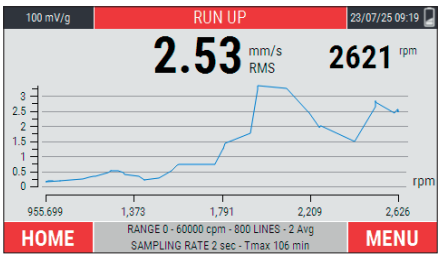
- Time-based vibrations For anomaly identification
- Zoom–Peak cursor–Autoscale

PEAK - PHASE



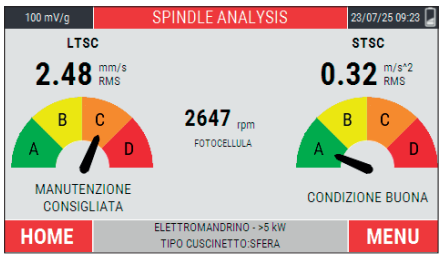
- Peak-Phase analysis as a function of RPM
- Transient and resonance phenomena analysis

RUN UP



- Run-up analysis as a function of RPM
- Machine behavior/resonance analysis

SPINDLE ANALYSIS



- Guided analysis according to standards Spindles (ISO 17243)
- Simultaneous measurement of parameters LTSC–STSC

TECHNICAL DATA

GENERAL CHARACTERISTICS

- Display: 4,3” colour LED-backlit TFT LCD (480 x 272 pixel)
- New EasyClick tactile keyboard with embossed keys
- Internal memory: 14,8 Gb (expandible to 128 Gb)
- Multi languages user interface
- 32 bit Architecture

MEASUREMENT TYPES

- Effective value (RMS)
- Peak value (Pk)
- Peak-to-peak value (PP)

MEASURING PERFORMANCE

- Bandwidth: 1 Hz -10 KHz
- FFT Resolution: Max 3200 lines
- Tacho: 60 to 250000 rpm
- Amplitude accuracy / linearity: ± 1%

UNITS OF MEASUREMENT

- Acceleration: [g]
- Velocity: [mm/s] or [inch/s]
- Displacement: [µm] or [mils]
- Frequency: [Hz] or [Cpm]

INPUT

- Channel A: Vibrometer function - IEPE sensor (accelerometer and velomitor)
  Balancing function 1 plane - IEPE sensor (accelerometer and velomitor)
  With a specify cable pluggable on a BNC it can be used to read any dynamic signal max. 10V PkPk
- Channel B: balancing function 2 planes - IEPE sensor (accelerometer and velomitor)
- 1 photocell channel (velocity and angle reference)
- 1 MicroUSB 2.0 port for data transfer
- 1 jack plug for battery charger

AMBIENT

- Temperature: from -20° to +50° C
- Air humidity: from 0 to 95% without condensate
- Protection: IP54

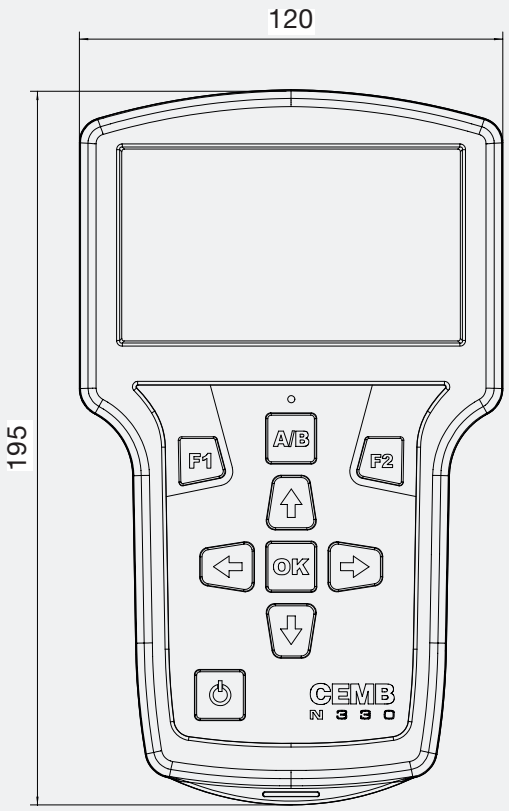
POWER SUPPLY

- Powerfull and Long Life Battery operation: > 8 hours
- Charging time: 2,5 hours for 80% recharge / 4 hours for 100% recharge
- Rechargeable 3100 mAh Lithium (Li-Ion) battery
- Power supply-battery charger for 100-240 V, 50/60 Hz (24 V, 1.5 A)

Note: The battery is built inside the vibrometer and does not need to be removed/exchanged in normal maintenance procedure.

CARRYING CASE DIMENSIONS AND WEIGHT

- Dimensions: 480 (L) x 360 (H) x 160 (D) - Weight 4700g



Weight: 510 g

CEMB
BALANCING MACHINES

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