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All the data and features mentioned in this catalogue are purely for information and do not constitute any commitment on the part of our company, which reserves the right to make any and all alterations it may consider suitable without notice.

INDUSTRIAL BALANCING DIVISION
balancing machines suitable for all rotors,
produced in a range from 20 gr to 100 tons



other products:
Garage equipment division
Vibration analysis division



V Vertical Balancing machines

Suitable for all rotors without their own shaft (fans, pumps, flywheels, etc.). The machines, produced in a range from 0.05 to 3000 Kg., are equipped with measuring instruments and vector resolution programs, diagnostics, provision for memorising programs and connecting printers. Many correction units are available for correcting the unbalance directly on the machine (manual drilling, automatic drilling, etc.), with manual or fully automatic unbalance correction.

Instruments used:

- VE - for balancing on 2 planes
- VU - for balancing on 1 plane
- VEC/VUC - with colour monitor
- B10 - with colours TFT monitor and industrial PC



VU 15 T

complete with manual drill unit for flywheels, pulleys, etc.



VUB 50/TF

semi-automatic with rotary table and milling unit for pump impellers.

Z Horizontal Balancing machines

Suitable for all rotors with their own shaft.

The machines, produced in a range from 0.05 to 20,000 Kg (higher on request), use hard bearings, belt drive and/or shaft drive.

The measuring instruments feature vector resolution programs, automatic tooling eccentricity correction, self-calibration, diagnostics, provision for memorising programs and connecting printers.

Instruments available :

ZE - with digital displays

ZC - with colour monitor

B10 - with colours TFT monitor and industrial PC



ZE 20/TC

for rotors weighing up to 20 kg, complete with printer



ZB 100/TC

with belt drive and safety guard



ZB 2000/G/TC

with dual drive: shaft
and belt drive with
pneumatic tensioning



ZB 20000/G/GV

for large rotors,
load capacity up
to 20 tons.



TO/TV

Balancing tables either horizontal or vertical

For balancing, on one or two correction planes, rotors
complete with their own drive, e.g. electrically
driven fans, complete electric motors, etc.
Either ZE/VE, ZC/VEC or B10 instruments are used.

ZB/2TO 10

twin-station balancing system for
assembled electrically driven fans.



Special Balancing machines

CEMB offers specific solutions designed to meet Customer's particular requirements. A few examples:

VPEC 100

complete balancing line for assembled wheels



ZB 100/TA

automatic crankshaft balancing machine with "intelligent" correction on the available planes.



VPUCK 30/TO

automatic balancing machine for car brake discs with correction by milling



VUBK 30/US

balancing machine for clutches with correction by pressing rivets in place



Balancing machines for tyre and wheel industry

CEMB S.p.A. and HOFMANN Maschinen- und Anlagenbau GmbH of Worms in Germany, together, form an important centre of market gravity that can supply innovative products at competitive prices, all integrated onto a single technical and construction philosophy.



A few examples:

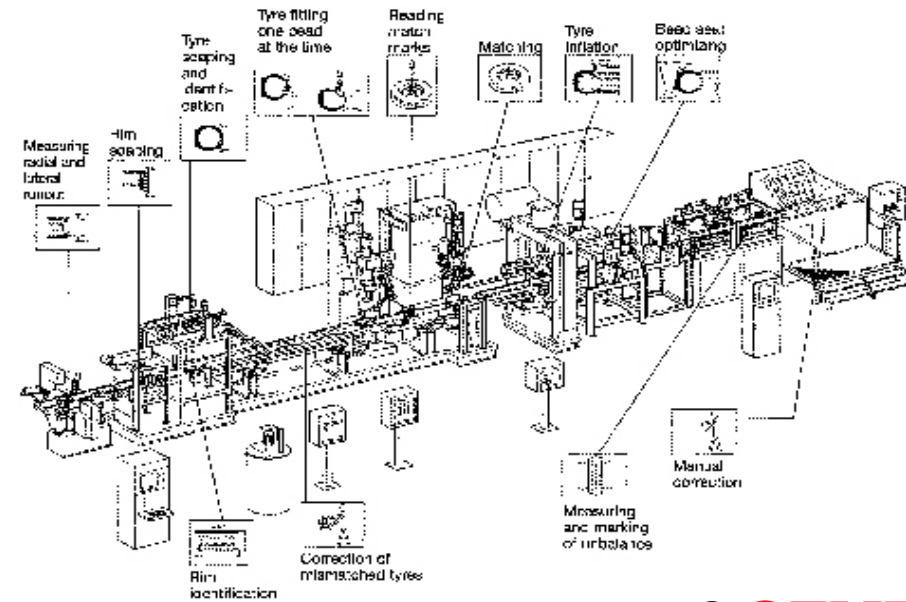
machine for rubber components (PAX)



machine for static balancing of tyres (without inflation)



machine for wheel and tyre uniformity



Complete wheel line

CEMB also manufactures and markets a range of equipment designed for operators in the Garage and tyre repair industry. The high tech. and continuous research allows innovative solutions to be reached, offering high performance, ruggedness and user friendly operation.

C71

Digital balancer with multi-colour display.



DWA 400

Equipment for the alignment of car and light commercial vehicle wheels at 8 CCD sensors.



SM 935

HEAVY DUTY super automatic tyre changer.



T Monitoring and supervisory instruments

These instruments form a complete monitoring system for detecting, measuring and warning of the relevant parameters during the operation of large mechanical assemblies.

At any time the parameter being measured is monitored, the instruments are able to give alarm signals when parameters reach non permissible limits, they are able to control, without any manual intervention, stopping the machine when the parameter reaches dangerous levels and before serious failures can occur.

Parameters controlled:

- vibrations at one or more points with measurements on the bearings or directly on the rotors.
- differential displacements between fixed parts and rotating members.
- axial run-out of rotors with respect to thrust bearings.
- eccentricity of rotor shafts, above all due to transient thermal deformation.
- displacements about a fixed point of the machine frame due to thermal expansion.
- speed and rotation of the rotors.
- angular displacements.
- temperature.

TR-I



TRAL-A TRAL-V



TM1



N Portable vibro-technology equipment

For measurement and analysis of mechanical vibrations as well as balancing under service conditions for all types of rotors.

N500

new model, compact, high speed, vibrometer and balancer.

N402

Computerised multi-purpose instrument: vibro-meter, balancer, analyser, data logger.

N30

vibro-meter, balancer, stroboscopic tachometer

N500



N402



N30

