



All experiments described in this handbook can be performed with the "COBRA-Interface" which has following specific features:

The versatile high performance computer interface basic unit can be extended by means of a series of supplementary modules.

- Intelligent, microprocessor controlled interface for the performance of measurements and experiments in physics, chemistry, biology and technology
- Can be connected directly to any modern computer over the standard serial interface (RS 232) without supplementary cards and without opening the computer housing
- Replaces devices such as 4-channel plotters, xyt-plotters, transient plotters, digital counters, temperature, conductivity, pH, pressure measuring devices, etc.
- No load on the computer power supply due to the interface, thus excluding computer failures due to partial power supply overloads
- High performance, adjustable direct voltage output to provide power for experiments and for programmable power outputs
- Continuous extension of the series of modules and of the software library keeps on providing new applications for the COBRA user

This handbook specially covers experiments which may be performed with the COBRA interface in conjunction with the COBRA movement sensor module.

This HANDBOOK can be purchased separately. It contains the experiments listed below. Please ask for a complete equipment list. Ref No 26103

Handbook • COBRA – Movement recording • No. 01212.02 • 10 described Experiments

- CWR 1 (12492)**
Uniformly accelerated linear motion
- CWR 2 (12494)**
Uniform & uniformly accelerated rotational movements, moment of inertia
- CWR 3 (12496)**
Moments of inertia of different bodies: circular disk, massive cylinder, hollow cylinder, sphere, rod with masses which can be shifted – Steiner's theorem –
- CWR 4 (12498)**
Harmonic oscillations of spiral springs – Springs linked in parallel and in series –
- CWR 5 (12500)**
Pendulum oscillations – Variable g pendulum

- CWR 6 (12502)**
Dependence of the duration of oscillations of a plate spring on the length and on the mass of the pendulum
- CWR 7 (12504)**
Atwood's fall machine
- CWR 8 (12506)**
Dependence of illumination intensity on distance
- CWR 9 (12508)**
Interference of acoustic waves, stationary waves and diffraction at a slot
- CWR 10 (12510)**
Measurement of rotational velocity



Dependence of illumination intensity on distance (CWR 8)

