



The standard in Ergometry

# Corival Eccentric

Ergometer designed for severe pulmonary and cardiac patients, utilizing eccentric ergometry or "negative ergometry"

## Precision-Guided Eccentric Training

By employing a motor alongside the conventional electromagnetic braking principle, this groundbreaking device challenges patients to resist the opposite pedalling direction, facilitating targeted muscle training.

With a maximum eccentric workload of 250 watts, the Corival Eccentric enables personalized training with customizable and adjustable target RPM (30-100 RPM) during sessions. Safety protections are incorporated to ensure secure usage, though supervision is essential.

## Targeted strength, minimal strain

The Corival Eccentric enables controlled backward pedaling for safe and effective eccentric muscle activation with minimal joint stress. It delivers high muscular stimulus with low cardiovascular load, ideal for rehab and clinical use. Real-time feedback and LEM integration support its proven benefits in improving strength, mobility, and metabolic health.

## Built on proven performance

The Corival Eccentric is built on the trusted Corival platform — known worldwide for its accuracy, reliability, and silent operation. With electromagnetic braking and low step-through design, it combines proven performance with innovative functionality.

- Workload between 10-1000W
- Minimum load increments 1W
- Low noise
- Perfect ergonomic position
- Compatible with ECG and pulmonary devices.





## Why the Corival Eccentric

### Reliable and reproducible stress tests

The experience of professionals who calibrate many ergometers showed that the Lode ergometers are the most reliable across the complete workload and rpm range and still within specifications even after many years of intensive use.

### High standards

Lode is a socially and environmentally responsible company. All Lode products are RoHS/WEEE compliant and Lode is ISO 9001:2015, and ISO 13485:2016 certified. All medical products comply to MDD 93/42/EEC, incl. IEC 60601-1.

### Various test modes

Besides the hyperbolic (rpm-independent) mode that is used most of the time, the standard control unit offers several other test modes, like the fixed torque mode and the linear mode. These modes can be used in both manual and terminal mode.

### Q-factor equal to road-bike

The Q-factor of the ergometer is equal to the Q-factor of road bikes, creating perfect training circumstances.

### Training severe cardiac and pulmonary patients

Possibility to train severe cardiac and pulmonary patients with eccentric exercise.

