

This software module is standard supplied with the Lode Excalibur Sport ergometer with Pedal Force Measurement. The combination of software and ergometer results in a unique application for sport-medical stress testing, rehabilitation and research.

The Pedal Force Measurement module adds the following features to the Lode Ergometry Manager:

- Continuous registration of the forces exerted on the left and right crank.
- Specific Pedal Force Measurement visualizations.
- Specific Pedal Force Measurement reports and analysis: Numeric data such as peak values, averages, absolute maximum, angle, total efficiency, rpm and left/right ratio are registered and saved. Export to statistical programs is possible with the optional LEM Expansion Module Export
- Protocols for pedal force measurement can be programmed based on time intervals (with a maximum of 60 minutes), enabling a continuous registration of the pedal force.
- On-line visualizations of the forces and Torque on exerted on the left and/or right crank during the test.
- The software offers the possibility to define "area's of interest" (AOI) and to analyze these separately.

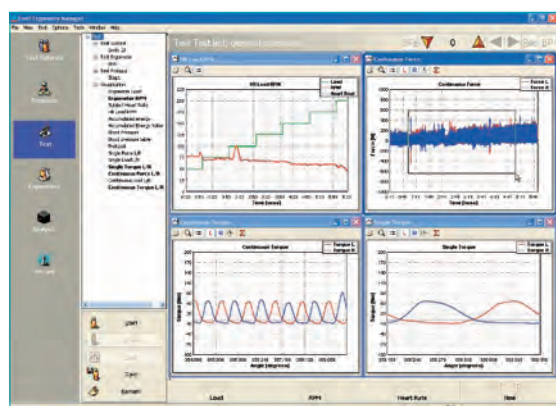
With the measured values the operator can a.o. advise the test subject better about:

- Injuries;
- Efficiency of the bicycle movement;
- Body posture at the bicycle;
- Left-right comparison;
- Evaluating rehabilitation process;
- Adjustments to the racing bike.

With only one test you get a clear insight into the physiologic and biomechanic possibilities of your client, which enables you to give better advice and support.



PFM visualizations



Define "area of interest"

	Torque [Nm]		Power [Watt]		Total
	Left	Right	Left	Right	
Average:	9.22	8.36	66.22	63.68	129.91
Average Maximum:	47.71	42.58	299.52	305.73	
Average Minimum:	-9.99	-10.01	-71.01	-71.92	
Peak:	44.05	47.87	322.97	344.75	
at angle [deg]:	91	264	90	264	
at time [sec]:	182.86	183.29	182.86	183.29	
Efficiency (%):	74.27				
Ratio LR (%):	55.01		48.99		
Average RPM [1/min]:	88.66				
Crank Length [cm]:	170.0		170.0		
Revolutions:	6				
From angle [deg]:	30643	182.416	From time [sec]:		
To angle [deg]:	82000	187.898	To time [sec]:		

Report

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