



OPTIMIZATION - MODERNIZATION - RETROFITTING

The Performance Analysis for Optimized Material Handling



The Performance Analysis records and evaluates motion sequences in industrial material handling facilities.

Optimization of Industrial Facilities

In logistics, industrial machines are critical for the production throughput of goods and merchandise. These systems require time-optimized controls to guarantee efficient performance. Machines that require optimization benefit from PSI Technics' Performance Analysis, which enables the presentation of time-related processes as well as the detection and elimination of motion-related weak spots.

Sample applications

Stacker cranes, hoists, crane systems, shuttle cars, elevators, conveyor systems, etc.



- >> Motion detection via laser distance meters, encoders, etc.
- >> Processing of measured data
- >> Kinematics calculation
- >> Comparative motion simulation using time-optimized parameters
- >> Graphical representation of measured values
- >> Graphical representation of calculated parameters (speed, acceleration and travel distance)
- >> Relevant values are measured and highlighted for further analysis

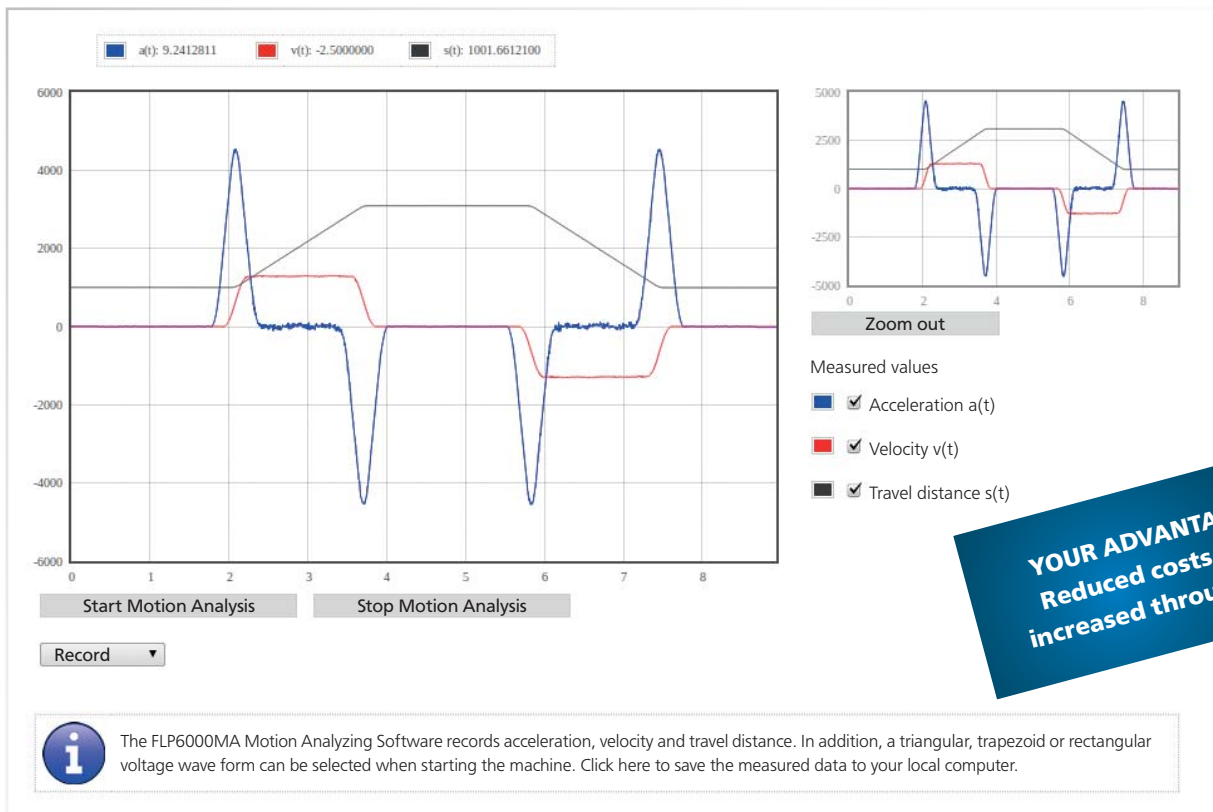
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Increased motion path efficiency

The FLP6000MA Motion Analyzing Software records acceleration, velocity and travel distance of a positioning or conveyor system. The histogram operating mode shows the values that are sampled during long-term motion analysis.

Figure Above: Motion Analyzing Web Interface

The blue line in the graph below shows the current system acceleration. The red line shows the current system velocity. The black line indicates the travel distance and the stopping times of the material handling system.

The FLP6000MA Motion Analyzing Software was specifically developed for material handling systems and uses the motion profile to identify sources of interference that adversely affect the productivity of your installation. The software enables you to take action to increase the overall process efficiency, such as:

- >> Frequency converter optimization
- >> Motor fine-tuning
- >> Optimization of ramps
- >> Switching from static to dynamic travel profiles
- >> Modernizing system control