

VelocityEasy



Automated Analysis of Particle Velocity

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With VelocityEasy and a measurement setup consisting of a high-speed camera with network connection and a high-intensity lighting unit, the fast-moving particles can be observed in incident or back light with their trajectories recorded.

The analysis of the high-speed images includes

- Histogram of velocity distribution
- Histogram of media angle distribution
- Diagram of velocity over measuring time
- Diagram of velocity over media angle

The measurement data of all analysed individual particles is recorded in a log file.

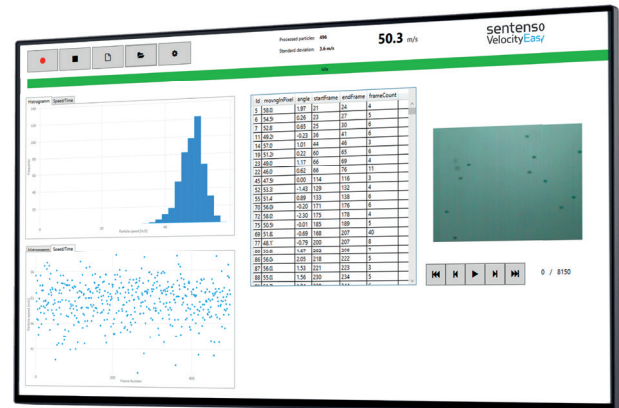


[Play Video](#)



Structure and Functions

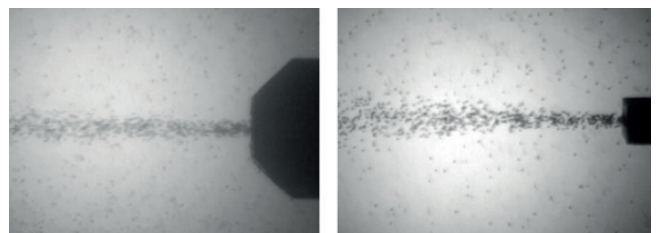
VelocityEasy automatically communicates with the high-speed camera and reads out the camera settings. The intuitive user interface allows the evaluation algorithm to be parameterised and the program to be controlled. The video recording, tracking of the detected individual particles, particle marking on the image sequence, evaluation of the recordings and display of all measurement results in the form of values and diagrams are all performed automatically.



VelocityEasy is installed on a customer provided Windows PC and is ideally prepared for connection to a peening system controller. Via the integrated TCP interface, an external system controller can start the software remotely in the preset parameter set and retrieve measurement results. The results can then be further processed within the control system, e.g. to check compliance with a target velocity.

Customised calibration videos can be generated to calibrate the software.

VelocityEasy also offers extensive additional functions for checking and managing measurement data. These include the integrated video player with operating function for analysing individual images, the loading function for existing videos with measurement data sets and the debug output with detailed measurement information. The additional functions allow for a detailed plausibility check of the results and the subsequent evaluation of existing recordings.



On request, sentenso can also supply the appropriate measurement system with a cost-effective high-speed camera and a measurement channel with lighting unit, as a complete and single source solution.

