process & particle engineering

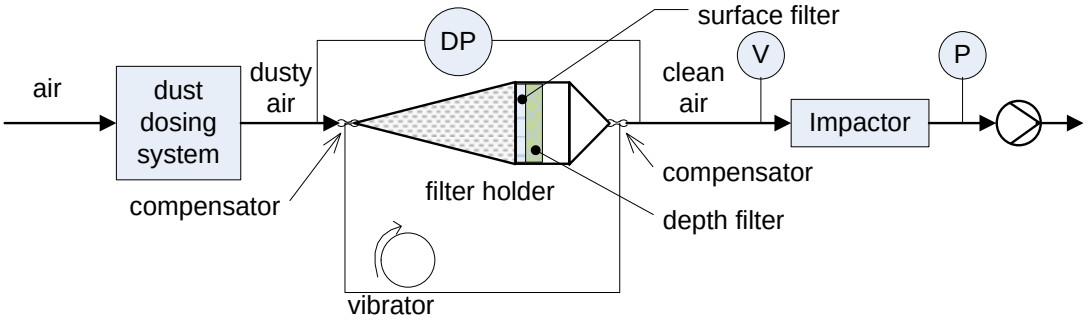
Graz University of Technology

Master Thesis in China - *硕士论文在中国*

Effects of Surface Filter and Depth Filter Combinations and Operating Parameters on Regenerative Filtration

to Students of Chemical and Process Engineering, Environmental System Sciences, Mechanical Engineering

Within the cooperation project „From particle emission to imission limits by regenerative filtration“, the master student performs experiments on a small standard test facility with different types of dust and filter media which is schematically depicted in the figure below.



The original dust particles as well as the particles sampled from the filters are analyzed with optical microscope, Scanning Electron Microscope and Laser Particle Size Analyzers for its shape structure and size distribution. Tagged particles are let to pass through the filters and their tracks are recorded with Particle Image Velocimetry mounted on the wall around the filter.

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