THE EQUILIBRATION OF THE PNEUMATIC CONVEYOR PIPELINES WHEN EMPLOYING OVERPRESSURED PNEUMATIC CONVEYOR SYSTEMS WITH A SINGLE AIR-BLOWER

— original paper —

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Abstract: For multiple reasons regarding the efficiency of the installation and the appropriate hygiene conditions, the transportation of finite products from the grinding section in modern installations is performed with overpressured pneumatic conveyors. Within the grinding mills with a capacity of over 100 TPD, each pneumatic conveyor uses its own air-blower. For smaller capacity grinding mills, this solution determines a significant increase of the investment expenses and of other additional costs: installation, maintenance, specific consumption items, etc. To eliminate this inconvenience, we present in this paper a technological solution that will successfully solve all the aforementioned problems. This system has been applied successfully on a combined grinding mill unit, on which the charge of the pipelines varies from 0% to 97% on each of them.

Keywords: pneumatic conveyor, pipeline, sonic valve

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