



White Paper

Bulk Solids Handling Research at the University of Newcastle

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The handling of materials in bulk form is a major industrial activity of the various mining and mineral processing industries throughout Australia. With this background, the Department of Mechanical Engineering of the University of Newcastle has had an active research interest in this field for a number of years.

Broadly, this research encompasses conveyor performance investigations, determination of flow properties of bulk solids, analysis and design of storage bins and surface storage facilities and economic evaluation and optimisation of bulk handling systems design. The latter has included the development of computer-aided design procedures for the optimum design of storage bins and conveyors.