



Image courtesy of Rio Tinto

TUNRA BULK SOLIDS PROFILE

TUNRA Bulk Solids Research Associates (TBS) is a world leader in applied and fundamental bulk solids handling research.

TBS has been in existence for over 30 years and has built a strong reputation in industry for its professional consulting service and world class research in Bulk Solids. Altogether TBS has successfully completed in excess of 2500 projects for some 1000 companies in Australia as well as in some 40 countries world wide.

TBS provides a high-level professional consulting and contract research service to the resource and process industries, as well as access to graduates, training and technical assistance.

CONSULTING AND CONTRACTED RESEARCH

TBS are the leaders in providing conceptual solutions to any bulk materials related task or problem that may occur in industrial plants. Through its technical expertise, TBS plays a major role in assisting Australian and overseas industries to

maintain and enhance its competitive edge in international trade. Comprehensive laboratory test facilities are available to aid research and consulting activities.

The team of TBS experts is committed to forming long term partnerships with business to help them overcome existing handling problems and assist with planning projects to ensure trouble-free plant operation.

Consulting and R&D within TBS encompasses the handling and processing of powders and bulk materials in most industries ranging from:

- Mining and mineral processing
- Power generation
- Chemical processing
- Agriculture
- Manufacturing
- Food production
- Pharmaceuticals



TECHNOLOGY TRANSFER

TBS also provide a mechanism for technology transfer by commercialising research output and ensuring that expertise gained through research is widely distributed and available to industry to better improve processes and design. Technology transfer, IP and commercialisation is managed through TUNRA, the commercial arm of the University of Newcastle.

RESEARCH AND CONSULTING CAPABILITIES

We are highly experienced and have a proven track record in the following areas of research and consulting:

Materials Testing

- Flow Properties Testing
- Dust (Environmental) Testing
- Abrasive Wear, Erosion & Attrition
- Conveyor belt testing
- Idler roll testing
- Pneumatic Conveying
- Hydraulic Conveying

Materials Handling Equipment Consultancy

- Bin Design, Wall Loads & Flow Patterns
- Stockpile Draw-Down Geometries
- Stockpile Live Capacity Estimates
- Belt conveying design reviews and audits
- Conveyor motion resistance calculations
- Feeder performance and load calculations
- Pneumatic conveying scale modeling
- Transfer Chute Conceptual Designs
- Wear & Flow Design Optimisations
- Hydraulic Conveying
- Instrumentation
- Fatigue Testing
- General Materials Handling Design Audits
- Site Visits

FOR MORE INFORMATION VISIT
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