



CONSEP
ENGINEERING INNOVATION



 **MATERIAL HANDLING SOLUTIONS**



MATERIAL HANDLING SOLUTIONS

As a leading Australian designer and manufacturer of material handling products, Consep has developed a range of Material Handling Solutions for the demanding requirements of the mining industry. Consep's Material Handling Solutions are chosen for their unique combination of careful process and automation design, and robust mechanical design to meet the harshest conditions in long mine life applications.

Our feeders are custom designed for every application to ensure they meet the process requirements of the duty. In many applications it is critical that the feeder is designed to meet a particular process related standard, for instance material sampling standards. We also utilise material characteristics information, for instance TUNRA reports, in the design of our equipment. Consep's team of process engineers are involved in every project to ensure that the design of the feeder is right for the application.

Consep's in house team of electrical and automation engineers ensure that our material handling product range also meet the projects specifications from an electrical and instrumentation perspective. Again, our products are customised to suit the clients precise requirements, and we always utilise leading brand sub-components in our systems, such that our clients can be confident of the quality and reliability of the equipment they receive.

Our team of mechanical engineers, together with our in-house 3D drafting office, then design the material handling product range to provide a robust mechanical design able to meet the harshest mining conditions with a long equipment service life.

Lastly, and perhaps most importantly, our material handling products are built in-house by skilled and experienced tradespeople, producing high quality products. Our manufacturing facility is both ISO9001 and AS4801 Accredited, ensuring our customers receive quality built equipment manufactured in a safe working environment.

Of course, also critically important for the success of any project is the ability to call on experienced site service staff. Consep has a broad range of site experienced engineers to help our clients install, commission, and if required, troubleshoot any installation.

Our proven product range is extensive, but includes products such as:

- **Belt Feeders**
- **Weigh Feeders**
- **Shuttling Feeders**
- **Skip Hoists**
- **Bucket Elevators**
- **Bin and Hopper design and manufacture**
- **Custom Chute Work and Structure**
- **Rod Chargers for Rod Grinding Mills**

Over the many years we have been designing and manufacturing Material Handling Solutions, we have also supplied our customers with a wide range of custom solutions to meet a specific requirement. Hence, if you are looking for a unique solution, we have the experienced staff and resources to make that product a reality.

These unique solutions, where we have met a specific customers requirements, have led to product developments such as our proven ability to supply feeders with a range of mechanical or hydraulic take-ups, a range of feeder covers including lightweight cyclone rated covers, and a range of weighing systems available in our weigh feeders.

Consep offers a wide range of Material Handling Solutions for our clients, developed over our 25 year history of designing and manufacturing equipment for the mining, asphalt and aggregate industry. Whatever the challenge, Consep is your partner to see the project through from conceptual design to operation.

CONSEP MATERIAL HANDLING EXPERIENCE



Consep's H&S Rod Mill Charger for an Australian bauxite operation

Consep's experience extends beyond belt and weigh feeders with a wide range of specialised material handling products available. Our team have drawn experience from the minerals, aggregate and asphalt industries to be able to offer a wide range of specialised products such as skip hoists, bucket elevators and shuttling feeders.

Consep blends a can-do approach to finding solutions to a clients requirements with thorough engineering to ensure that the final product is successful, with the backup of skilled support and service for the life of the project. Our back catalogue of material handling installations is extensive and proven over a lifetime of operation.



Consep Skip Hoist installed in an Australian Asphalt plant



Consep Shuttle Feeder in the Western Australian Iron Ore Industry

Our shuttling feeders incorporate a range of safety devices and guarding to ensure the safety of operations and maintenance staff.

Our skip hoists are derived from our experience in the asphalt and construction industry, but also find use in some sample station installations.

Our bucket elevators have been supplied to dozens of plants across Australia, being most commonly used in the asphalt and aggregate industries.

Consep's H&S Rod Mill Chargers are custom designed and manufactured, with an extensive world wide installation list.



Consep Bucket Elevator in a Asphalt Plant in Australia

CONSEP FEEDER DESIGN FEATURES

Feed chutes can include adjustable gates to assist with achieving precise feed rates

Safety features for guarding and instrumentation to meet applicable codes

High quality compact shaft mounted gear drive units and lagged head pulleys as standard

Our guards meet Australian Standards and are lightweight and easy to remove. Custom cyclone rated covers also available.

Heavy duty stringer design for long life in the most demanding environments

Integrated head chutes that are custom designed for each application to minimise dust and suit material characteristics



Range of load cell options for weigh feeders or integrated weigh hoppers

Available in either flat or troughed belt designs, as required for the application

Options of mechanical or hydraulic take ups for belts.

Wide range of instrumentation available to suit the customer requirements

COMPANY OVERVIEW



Consep's world class design, manufacturing and assembly facility is located in Sydney, Australia, and totals over 10,000m² of floor area. The fully equipped ISO9001 and AS4801 accredited workshops are company owned and were purpose built for the design and manufacture of our range of heavy duty industrial equipment.



Established in 1990, Consep is a leading Australian based global integrated Engineering Solutions Company that works across Construction, Gold & Mineral Processing, Process Plant, Sampling Systems and Water & Wastewater.

At Consep our core philosophy is to be determined to provide our clients with the best solution for the problem at hand. Stopping at nothing and using our ingenuity to remove obstacles, discover ground-breaking solutions and provide innovative technical recommendations for our Clients. In short there is no way we would ever say 'no way'.



INTEGRATED ENGINEERING SOLUTIONS

At Consep, every successful project, big or small is the result of an Integrated Engineering Solution that is customised to our clients' needs. Using our in-house team of specialist engineers, including Process, Mechanical, Electrical and Project Management Engineers ensures the best design solutions.

IN-HOUSE FABRICATION

Our in-house fabrication ensures all componentry is exact and works seamlessly to deliver increased operating efficiencies and enhanced machinery effectiveness for the life of the project.



TRUSTED GLOBAL EXPERTISE

With over 25 years experience we have grown to become an acknowledged first choice trusted partner and global business providing, installing and servicing engineering solutions and machinery to more than 40 countries.



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