



**ELEGANT
SA**

TRANSFER CHUTES

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EFFICIENT. DURABLE. OPTIMIZED FOR FLOW.

A **transfer chute** is a critical component in bulk material handling systems, designed to **guide and control the flow** of materials such as coal, ore, grain, sand, and more.

It directs material from one conveyor to another, or from a conveyor to equipment such as crushers, bins, or stockpiles - ensuring **smooth, controlled, and reliable transfer**.

Developing a chute means the process of designing, modelling, and optimizing the chute's geometry, materials, flow path, and structural elements to ensure smooth, controlled, and efficient material transfer, while minimizing wear, spillage, and blockages.

PURPOSE OF A TRANSFER CHUTE

- » Enable smooth **material flow** between conveyors and equipment
- » **Minimize dust and spillage** for cleaner, safer operations
- » Control flow **speed, direction, and trajectory**
- » Reduce **wear and tear** on belts and equipment
- » Prevent **material degradation** during handling
- » Improve overall **system efficiency** and reduce downtime
- » Facilitate **inspection and maintenance** at regular intervals
- » Control the **direction** and flow of bulk material and blockages

CHUTE DESIGN & DEVELOPMENT

Designing an effective transfer chute is a **complex, highly customized process**.

- » **Engineered Flow Chutes** – Optimized using advanced tools like DEM simulations for precise flow control.
- » **Cascade Chutes** – Layered material flow to reduce velocity and minimize wear.
- » **3D Scanning**

KEY DESIGN CONSIDERATIONS

- » Material characteristics (size, abrasiveness, moisture)
- » Easy maintenance access / Inspection doors access
 - » Impact forces on receiving equipment
 - » Dust & environmental control systems
 - » Wear-resistant liners and components
 - » Conveyor belt speed and angle
 - » Flow rates & drop heights



SERVICES WE PROVIDE

- » New Chute Design & Development
- » Retrofits for Existing Systems
- » Full Project Execution (design, fabrication, installation, commissioning)

Elegant SA delivers custom-engineered transfer chutes that reduce downtime, dust, and spillage while extending equipment life and improving throughput. We begin with a thorough site assessment to match chute geometry and wear protection to your material and operating conditions, then use precision fabrication and wear-resistant materials to ensure consistent flow and minimal belt impact.

Our designs cut maintenance needs and belt wear, lower dust and noise, and reduce the risk of blockages and spillage. With professional installation and responsive after-sales support, **Elegant SA** provides durable, efficient chute systems that protect your plant, boost productivity, and lower total cost of ownership.

COMMON PROBLEMS IN TRANSFER CHUTES

- » Limited knowledge of material handling dynamics.
- » Conventional gravity-fed chutes causing impact damage.
- » Blockages & clogging disrupting flow.
- » Excessive wear, buildup, and spillage.
- » Misalignment with conveyors.
- » Dust generation, noise, and vibration.
- » Wrong designed.
- » Impact on structures.
- » Access for inspections and maintenance.

OUR MISSION

Our pride in ownership and dedication and providing our clients excellent service is reflected in the professional, innovation and quality orientated manner in which we conducted our business.

The long term vision of **Elegant SA** is to expand the business lucrative contracts are continually being identified and in doing so **Elegant SA** will be expanded to optimize these opportunities. Customers are always assured of our best service and intentions.

QUALITY POLICY

Elegant SA - specialises in the engineering design, manufacture, installation, maintenance and solutions.

Elegant SA Quality Management System has been structured to comply with the requirements of ISO 9001:2015

Elegant SA has identified Objectives and Targets that are managed to ensure the effectiveness and efficiency of the Quality Management System.

Elegant SA will manage its processes in a responsible manner to ensure the quality of its products and services.

Elegant SA will, through its efforts, ensure a process for continual improvement.

OUR VALUES

Lasting customers impact: we are relentless about delivering on our promises to our customers. Our success comes only with these success.

Respect for the whole person: we value each other and treat each person with whom we work as true partners.

Profitable growth: we embrace profitability and growth as the lifeblood of our organization they give us the freedom to fulfil our mission and vision.



ELEGANT SA

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