



# MATERIALS HANDLING & ENGINEERING SPECIALISTS

A legacy of innovation

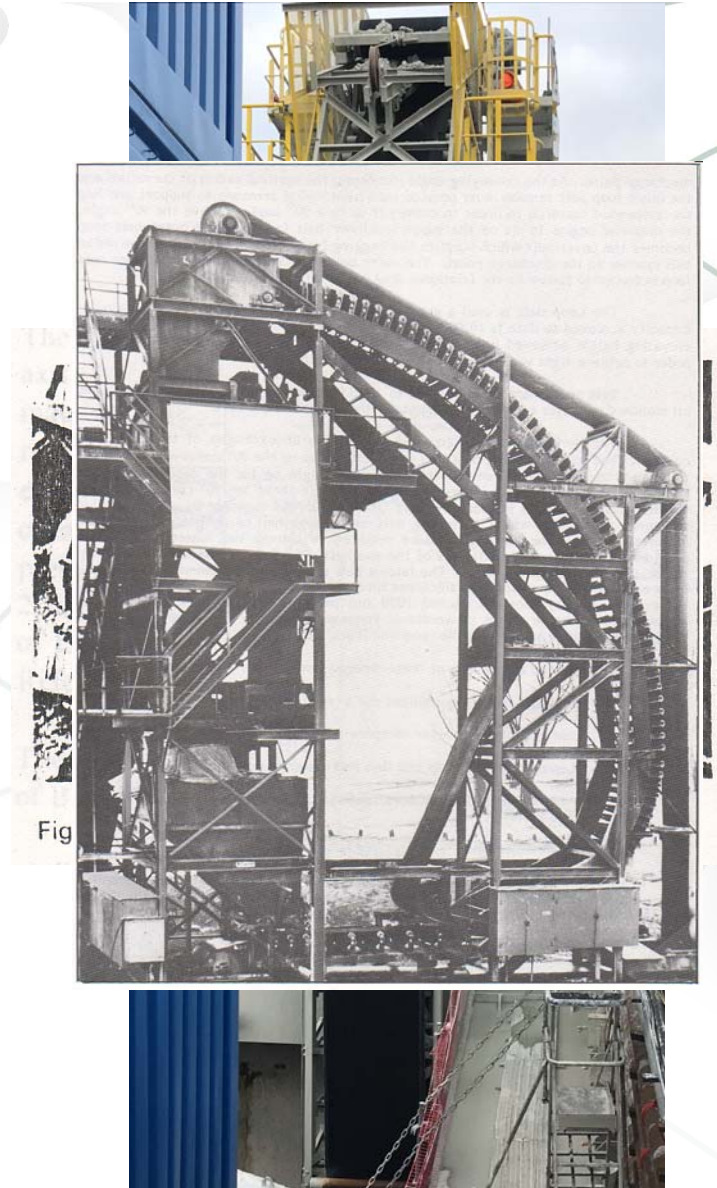


# ELEVATING WOOD CHIPS SANDWICH BELT HIGH ANGLE CONVEYORS

---

## PRODUCT OF EVOLUTION

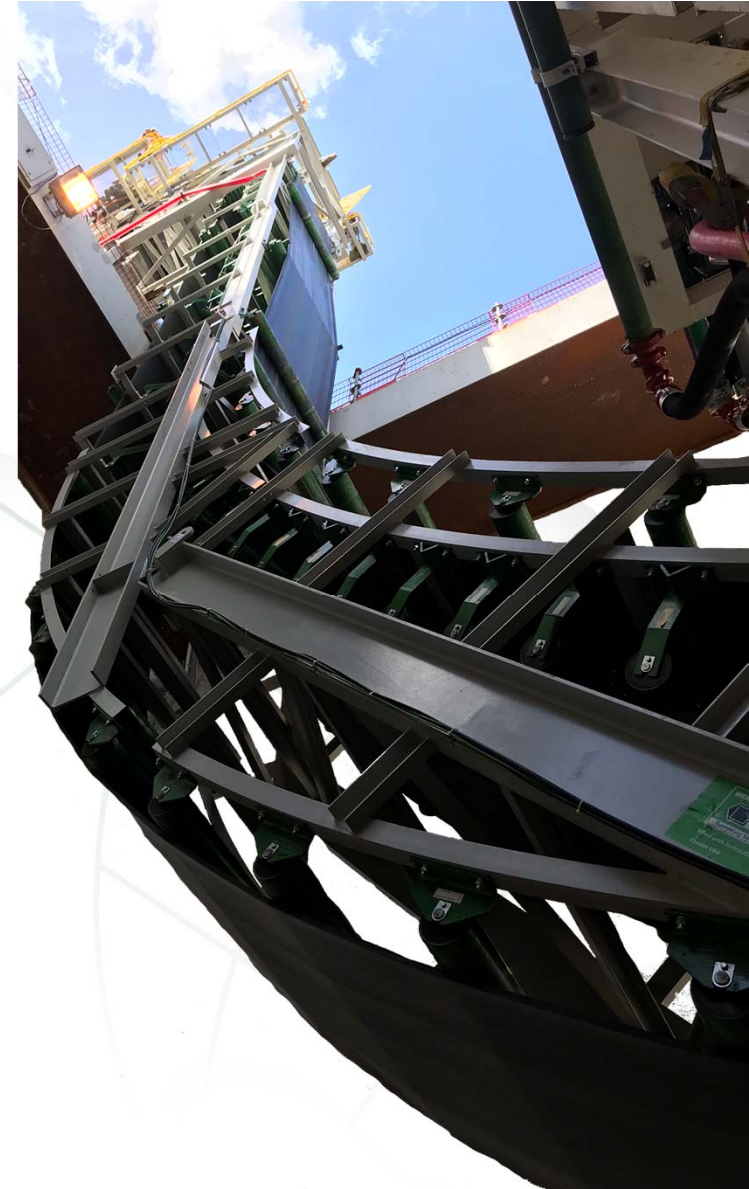
- Derived from the covers belts of the 1950s
  - Hugging pressure to resist material slide back.
- Then the loop belts of the 1970s
  - First use of radial pressure due to tension
- Sandwich Belt high angle conveyor
  - Use of all conventional conveyor parts
  - Low maintenance, high reliability



# SANDWICH BELT HIGH ANGLE CONVEYOR

A Sandwich Belt high angle conveyor uses two smooth surfaced conveyor belts, face-to-face, to gently, but firmly, contain material being carried, hence making steep incline and even vertical-lift runs easily achievable.

- Saves on real estate
- Saves on power and energy
- Saves on operation and maintenance cost
- Preserves the quality of the product













# **SANDWICH BELT HIGH ANGLE CONVEYOR ADVANTAGES**

Sandwich Belt High Angle Conveyors use all conventional conveyor equipment including smooth surfaced rubber belts that can be continuously scraped clean. They feature the operating characteristics of conventional conveyors; reliable, low O&M costs.

## **IMPORTANT FEATURES**

### **CAPACITY**

Unlimited; with wide belts at typical belt speeds rates can exceed 10,000 t/h

### **HIGH LIFTS**

Lifts beyond 300 m (1000') are possible. High angles of up to 90° are possible.

### **FLEXIBILITY**

Flexibility in planning and in operation allows for customization

### **SPILLAGE FREE**

Material is sealed between the belts with ample space.



## **MOST COMMON CHALLENGES**

- High power costs and energy consumption
- High wear and maintenance
- Extreme cold conditions
- Dust
- Degradation of wood chips and reduced pulp yield



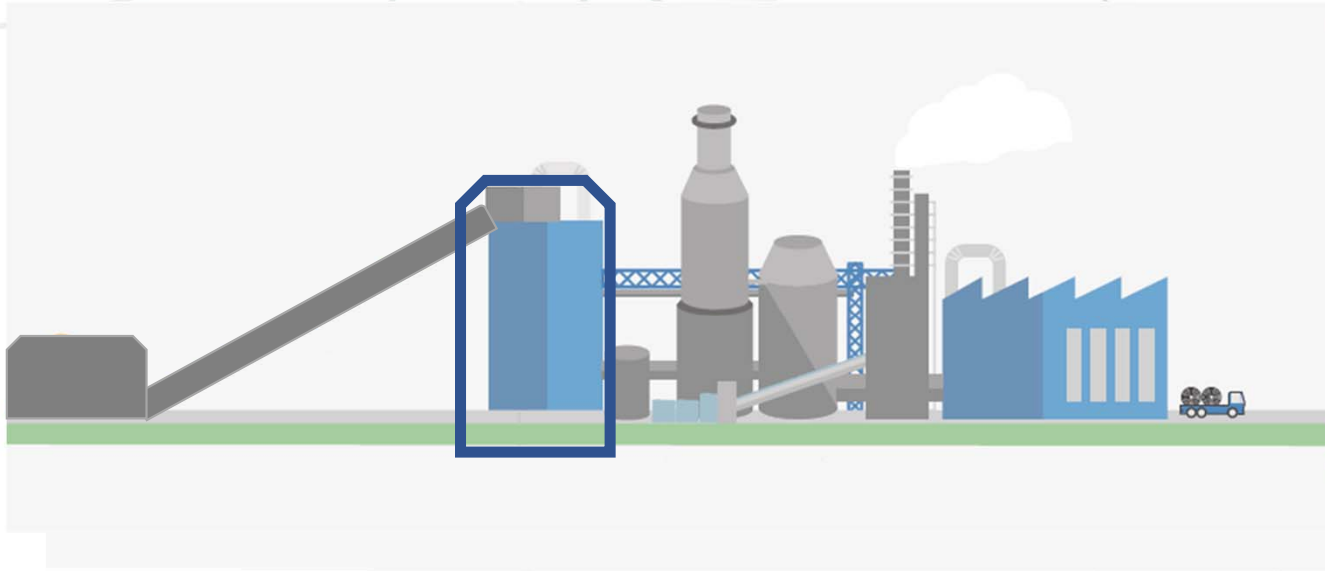
# HIGH WEAR AND MAINTENANCE



# EXTREME COLD CONDITIONS



# EXTREME COLD CONDITIONS





# DUST



# SANDWICH BELT HIGH ANGLE CONVEYOR

## NO COST SOLUTION

SAVINGS CONSIDERED

- Chip quality; pulp yield
- Power and energy consumption
- Operating and maintenance
- Savings in improved plant availability





AMY DUNCAN | MARKETING MANAGER | [ADUNCAN@DOSSANTOSINTL.COM](mailto:ADUNCAN@DOSSANTOSINTL.COM)