

# Sawmill Conveyor System Checklist

Planning a sawmill conveyor system rarely starts with a blank slate. Existing layouts, changing equipment, future expansion plans, and evolving material flows all shape how a conveyor system needs to be designed.

Gathering the right information early helps ensure that recommendations, budgets, and installation considerations reflect real site conditions and operational goals. This checklist is designed to support early planning discussions and help sawmills evaluate conveyor layout options, including modular conveyor structures such as the Alpha Modular Conveyor System.

## Section 1: Site and Layout Information

Understanding the physical constraints of the site is the foundation of conveyor planning.

- Current layout drawings or site plans
- Routing paths for proposed conveyors
- Key dimensions and clearances
- Structural columns, walls, and overhead obstructions
- Access points for installation and maintenance
- Existing conveyors to be tied into or replaced
- Traffic patterns and vehicle access near conveyor runs
- Available space for future expansion

## Section 2: Material and Process Details

Material characteristics and process requirements directly affect conveyor sizing, structure, and layout.

- Material type (chips, sawdust, bark, waste, byproducts)
- Material bulk density and moisture content
- Particle size and flow behavior

- Throughput rate requirements
- Hours of operation
- Transfer and discharge locations
- Integration points with existing equipment
- Environmental exposure (indoor, outdoor, temperature, weather)

### **Section 3: Elevation and Routing Considerations**

Changes in elevation and direction often drive structural complexity.

- Start and end elevations
- Vertical curves or slope changes
- Horizontal direction changes
- Required clearances over or under equipment
- Maximum allowable conveyor slope
- Length of each conveyor run
- Long-distance conveyor sections
- Areas where future elevation changes may be required

### **Section 4: Installation and Maintenance Constraints**

Installation conditions and long-term serviceability should be considered early.

- Available crane or lifting access
- Space for module staging and assembly
- Installation sequencing constraints
- Shutdown or tie-in windows
- Maintenance access requirements
- Walkway and guarding needs
- Inspection access points

- Replacement and service considerations

## **Section 5: Project Drivers and Timeline**

Clarifying project goals helps guide design priorities.

- Primary reason for the conveyor upgrade
- Key drivers (capacity increase, equipment replacement, layout change)
- Expansion or future planning considerations
- Target commissioning date
- Budget context where available
- Procurement schedule constraints

## **Section 6: Flexibility and Expansion Planning**

Future adaptability is often overlooked in early design.

- Anticipated future equipment additions
- Potential layout expansions
- Changes in material flow paths
- Requirements for modular or reconfigurable structures
- Desire to minimize future re-engineering
- Long-term maintenance and upgrade planning

## **Section 7: Structural Approach Considerations**

Evaluating structural design approaches early can reduce future redesign.

- Traditional stringer-style structures
- Modular conveyor structures
- Pre-engineered truss modules
- Standardized structural sections

- Ability to adjust elevation and direction without redesign
- Installation efficiency considerations
- Long-term adaptability

## **Closing Section**

Gathering this information early supports more accurate layouts, better budget alignment, and smoother project execution.

Modular conveyor structures such as the Alpha Modular Conveyor System use pre-engineered, standardized truss modules and a proprietary coupler system to support faster planning and long-term flexibility. This approach can reduce repetitive engineering while allowing conveyor layouts to adapt as sawmill operations evolve.

For support with conveyor planning or to discuss modular conveyor options, contact:

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