SIPSTECH Technical Publications

Automated Wall Production Line

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SIPSTECH INC

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Description: SIPSTECH Automated Wall Production Line has solved two main cost challenges in panel manufacturing:

1. Eliminates high cost of labour in fabricating wall sections
2. Eliminates high overhead of large work force through slow times

Reduces panel manufacturing overhead by:

1. Faster rate of production of raw panels
2. Eliminating manual labour of wall fabrication
3. Reduces equipment cost
4. Up to a 50% reduction in waste

Process: The automated wall production line is unique in the sense that in a single process the machine will:

1. laminate the panel
2. cut openings
3. create the voids for the inserts of lumber where necessary
4. cut openings for electrical boxes
5. make electrical chases exactly where they are needed and not just on standard intervals like what is common in the rest of industry

The Automated Wall Production line is a single-process machine where material loads from one end of the line and completed walls exit from the other end of the line. Walls require only lumber inserts to be placed manually where necessary.

Capabilities

• Produce 8' X 24' panels (other sizes available)
• Line requires only 2 trained staff Line capacity is up to 280 lineal feet of finished wall per hour (one 24' x 8' uncut panel every 5 to 6 minutes). With a cutting rate of 10 linear feet per minute, the line can produce the equivalent of 1 home per hour.

The Automated Line produces 8' x 24' SIPS of various thickness made with OSB skins and an EPS core. It will automatically apply glue to the materials and feed the laminated panel into the hydraulic press. Because the entire process is controlled by a computer, glue is not applied in areas where there will be cut outs like windows and doors.

This allows the rest of the materials to be reused for new panels. This efficiency pertains mostly to the EPS; the financial benefit of reusing the material is about 50% of its cost.

The line is designed specifically for production of walls where substantial cutting and voiding is required.

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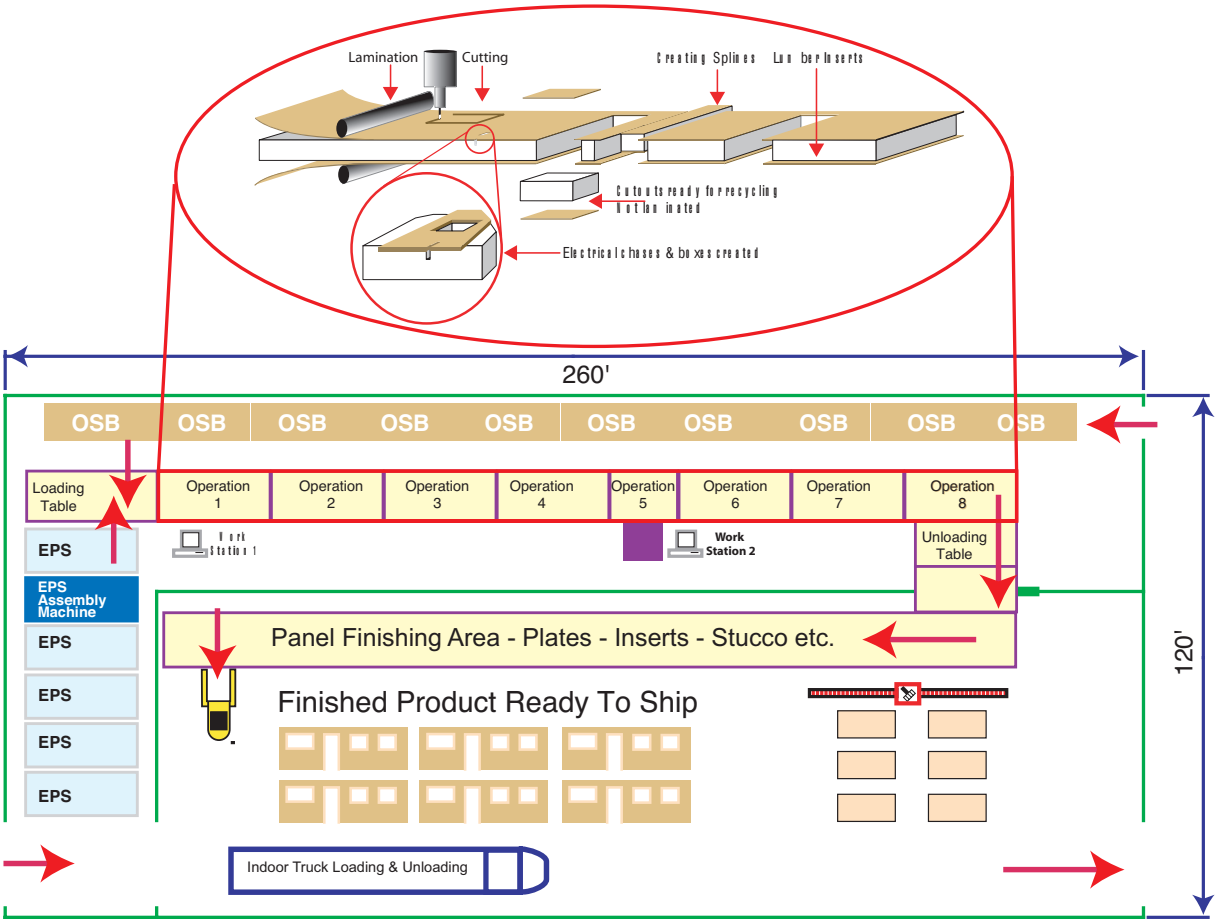

Price includes instructions for panel manufacturing and training on equipment use and SIPSTECH construction manual. It is equipped with a motorized loading system.

All prices are Canadian dollars, FOB our plant near Calgary, Alberta, Canada (net of all taxes and duties)

*The client is required to enter into licensing agreement with ECOPAN Corporation.

** The client is responsible for the traveling and accommodation expenses and any surcharge for different power requirements than in North America.

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