



Product Profile

VANDERHOOF SPECIALTY WOOD PRODUCTS' SCREW CONVEYORS

THE CLIENT

Vanderhoof Specialty Wood Products (VSWP) is a value-added lumber remanufacturing facility located in Vanderhoof, BC.

The company specializes in producing finger-joint studs for the construction industry.

Recently, VSWP expanded their business and built a new wood pellet mill to utilize waste from the finger-joint plant.

THE PROBLEM

Wood shavings had previously been pneumatically conveyed between the finger-joint facility to storage for the pellet mill.

The client wanted two things: a new storage bin to replace the recycled bin and a new screw conveyor line to replace the pneumatic line.

The new line needed to be more than 250' long and gain almost 64' in elevation.

Helical Works Co prides ourselves on our ability to not only build top quality steel fabrication, but also on our ability to build strong, long-lasting, relationships with all of our customers. Regardless of scale or complexity, we work hand in hand with our customers to help them achieve their goals.



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THE SOLUTION

Helical Works performed a site visit to meet the client and to listen to their specific needs. Since this was a non-traditional application for screw conveyors, care had to be taken to ensure it would function properly (to convey the fluffy material) in the extreme weather that Vanderhoof encounters.

The Helical Works team proposed a sequence of screw conveyors, specifically sized to accommodate the material and the space restrictions. Thought was given particularly to functionality, maintenance, and access.

THE OUTCOME

Helical Works designed and fabricated three screw conveyors and an accompanying support structure with man walk to connect the hammer mill to pellet storage. The entire system was designed for simple, bolt-together assembly on site. In addition to the main line, Helical Works also designed and fabricated four additional screw conveyors to complete other stages of operation.

The upgrade was successfully installed, tested, and commissioned, which has afforded the client with a reliable supply of shavings for their pellet mill and allowed them more opportunity to expand their business. In all, Helical Works supplied VSWP with approximately 530 lineal feet of screw conveyor and 250 lineal feet of structural support.



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