

DECORTICATION PLANT

Alberta's premier fully operational research fibre processing (decortication) plant is located at our facility in Vegreville. This 13,000 square foot facility, designed by Belgium-based Cretes Engineering (formerly Van Dommele), is operated by InnoTech Alberta and can process industrial hemp or flax straw into bast fiber and hurd at a rate of one tonne per hour. The facility opened in 2011 and works with industry partners to provide raw materials for biomaterial products such as hempcrete, non-woven mats, animal bedding and textiles.



- One-of-kind pilot scale decortication facility
- Uses commercial size decortication equipment
- Can process multiple bast fiber crops, typically industrial hemp and flax
- Plant equipment includes:
 - Bale unroller
 - Guillotine
 - 2 hopper feeders
 - Two decorticators (hammer mill and disc mill)
 - Two duvexes (one for cleaning fiber and one for cleaning hurd)
 - Fine opener
 - Step cleaner
 - Pellet mill
 - Chopping line (utilizing a forage type chopper)
- Un-retted straw can be cleaned to greater than 90% purity
- System can utilize big round or big square bales of hemp or flax straw
- Clean bast fiber leaves the plant in 2'X2'X4' compressed bales
- Hurd leaves the plant in super sacks
- Dust is collected in a 53' moving floor trailer

InnoTech Alberta, a subsidiary of Alberta Innovates, is a leading research and technology organization serving the needs of industry, entrepreneurs and the public sector. Our leading-edge expertise and industrial-scale research and demonstration facilities accelerate and de-risk technology development and deployment for our clients with a focus on industrial solutions and commercial application.

Visit us at: InnoTechAlberta.ca

FOR MORE INFORMATION, PLEASE CONTACT:

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Bio Industrial Services

FAQ

Can I buy fiber and/or hurd from InnoTech?

Only if a client chooses not to take all of the material produced while completing a project. InnoTech Alberta is not a commercial supplier of decortication products.

I have flax or hemp straw for sale, will you buy it?

We buy very limited quantities from producers only when a client asks us to source material for their project.

Can the facility be rented by my company?

A straight rental of the facility is not possible, however, an agreement could be reached where InnoTech works with your company to process materials.

Who are the main users of the Decortication facility?

Typically our main clients have been developing either products from fiber materials or systems to build their own decortication facilities.



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