

CROP PROCESSING DEVELOPMENT CENTRE



Date: November 2021

PAMI's Capabilities:

- *Independent & unbiased third-party testing*
- *Technical expertise to support the Agriculture, Mining, and Transportation industries*
- *ISO 9001:2015-registered organization*
- *Year-round testing in flexible facilities*
- *Assistance with prototype design to accelerate development time*

Typical Client Challenges:

- A new business venture wants to prove their processing idea before investing in land, buildings and capital equipment.
- An existing process or machine is not performing as designed and needs engineered solutions and validation testing before committing the change within a Client's facility.

Project Scope:

PAMI's Crop Processing Development Centre is a large, flexible facility with the following capabilities:

- Heated building (21.3 m x 35.1 m, 748 m² [70' x 115', 8,050 ft²])
- 60 hp, 250 psi boiler for process steam generation
- 600 volt three-phase electrical service (500 kVA total supply available)
- Dust control and collection system
- Drainage trench (can be isolated from municipal sewer system)
- Adjacent to large environmental chamber for extreme-temperature processing
- Adjacent to fabrication shop, allowing for efficient process modifications
- Access to processing and material handling equipment, such as
 - Pellet mill, hammermill, belt dryer, dehuller, mixers
 - Essential oil extractor
 - Storage bins, hoppers
 - Conveyors

Projects completed in this facility have included:

- Crop processing testing, validation, and optimization
- Commercial-scale crop processing campaigns
- Batch dehulling and cleaning of crops for residue testing
- Essential oil extraction
- Ginseng processing
- Berry drying

Value Created:

- **Timely Results:** Fast results due to year-round access of heated facility paired with PAMI's combination of accompanying inhouse facilities, knowledge, and experience.
- **Quality:** PAMI operates under an ISO 9001:2015 quality system and maintains complete test and certification records.
- **Confidentiality:** PAMI maintains strict confidentiality of your designs, products, and test results. You retain all intellectual property.
- **Validation:** PAMI can act as an independent third-party testing entity to validate your equipment and products.