

» CONTINUED FROM PREVIOUS PAGE

considering electricity requirements. He starts with 40 horsepower to run 600 bushels per hour. Then the system escalates to 80 hp. Now three-phase is a necessity, especially if the farmer adds a pneumatic system requiring a lot of air and therefore a lot of electricity.

Most dryer installations need a 75 hp blower to move grain from the dryer to the bins and another 75 hp for various smaller fans and motors. But you can't do 150 hp with single phase.

Sometimes a farmer decides to build a new bin yard from scratch to have a well-thought-out system that has plenty of design options.

In picking a new site, even if it's miles from the home yard, it should have three things: natural gas, three-phase power and a hardtop road right to the driveway.

If you find a site with two of the three factors, natural gas and hardtop road, then it's easy to get the three-phase power with a genset.

If the electric utility plans to bring three-phase in the foreseeable future, then rent a genset temporarily. The other thing about a three-phase genset is they start right away, they run better and there are fewer service calls.

ron.lyseng@producer.com

Bringing three-phase into the bin yard can cost \$1 million. However, for \$35,000 a farmer can buy a used three-phase 150KW genset from the Alberta oil patch. | WALL GRAIN PHOTO



Introducing **INTUI-DRY™** from Brock Grain Systems
Dryer Control

Wet grain goes in. Dry grain comes out.




It's like taking the power and precision of mission control, and putting it inside an easy-to-use 15.6 inch touch-screen display.

Web Browser Display
Smart Phone Display



BROCK Grant Services Ltd. | 306-272-4195
Independent Dealer Box 39, Foam Lake, SK S0A 1A0 or call or text: 306-272-7066

Fast dry grain in five days

Boost dryer efficiency 30 percent by converting bins into dryers

BY RON LYSENG
WINNIPEG BUREAU

Bin management can lower capital costs while boosting the number of bushels dried in a week. It's all a matter of how you use your combine, bins, dryer and trucks.

The process is called fast dry. It's a cost-effective way to convert bins into grain dryers, said Dave Wall in a phone interview, adding that Wall Grain has shown hundreds of farmers how to extract more money from their crops and increase dryer efficiency by 20 to 30 percent.

The process uses heat to speed natural air drying in the bin. The four fast-dry factors are roof fans, multiple fans, self-adjusting grain spreaders and managing technology.

Roof fans — Mid-September has cooler nights and dripping water creates a mess on walls, reducing the amount of moisture removed. Wall Grain designed a roof fan that reduces dripping by pushing moisture out of the space under the roof. More importantly, it keeps the roof at a constant temperature so moisture doesn't condense.

- Multiple fans — Wall says that as bins got bigger, his engineers began installing multiple fans. Two 25 horsepower motors will dry 25,000 to 35,000 bushels in each bin of cereals or canola. In five to seven days each bin is done.

- Self-adjusting spreader — With bin diameters up to 54 feet, peaks are high. They should be level for more consistent drying. Taking a load or two out of the bin would do it but that's a lot of work. Grain spreaders can handle augers up to 16 inches and feature self-adjusting springs that allow constant feed on the spreading arms/pans. Having a spread rather than a peak means less over-dried grain that needs to be blended.

- Moisture-managing technology — Knowing how much water needs to be removed helps manage the batches. Wall Grain developed a fast-dry calculator for cereals and canola. Management advisers help match fans to each operation and teach customers to figure out what works and what doesn't.

The beauty of the fast-dry concept is that bins can be designed for later addition of accessories like a continuous flow dryer.



Duck Foot Parts
The Trusted Name in Header Precision & Harvest Efficiency



- Award-winning patented farm innovation
- Fast and easy to install and remove
- Field-tested with proven data to reduce header loss
- Clears the cutter bar and feeds the crop more evenly for better threshing
- Slower reel speed for less crop damage
- Increases ground speed

Duck Foot Parts is committed to manufacturing the highest quality product for farmers. The paddle tines are made from resin with physical, mechanical, and thermal properties tested to withstand the stress and strain in extreme temperatures. The paddles also contain a vehicle grade UV protectant.

@duckfootpartsinc @duckfootparts

duckfootparts.ca

Patents - <https://duckfootparts.ca/patents>



The Fast Dry method increases dryer efficiency by 20 to 30 percent. It quickens natural air drying in the bin by adding heat, allowing farmers to dry grain in seven days or less instead of weeks or months. | WALL GRAIN PHOTO