



Highline bale processor is equipped with a new twine release system that uses bale's weight to slice twine. Unit lifts bales off the ground for processing.



Square bales are turned 180 degrees, putting them in line with machine's flail chopper for optimal processing.

Bale Processor Handles Square Or Round Bales

A new square or round bale processor from Highline Mfg. offers a new CleanCut twine release system that uses the weight of the bale to slice twine.

The CFR960 lifts and loads the square bales properly for optimal processing. With the highest breakout power in the industry, the arms lift the bale straight off the ground. This ensures minimal rubbing and damage to the bale.

For ease of loading a bale, the unit aligns with the length of the bale. However, for

processing, the bale needs to be realigned. As the CFR960 picks up the bale, it turns it a full 180 degrees. This puts it in line to fall lengthwise into the bed in alignment with the flail for optimal processing.

Options include the company's Feed Chopper, a secondary processor that slices through the hay, and the Grain Tank with Metered Grain Insertion (MGI). Instead of mixing grain into the hay as it is being processed, the MGI inserts it into the hay stream for a more complete mix.

While 100 (pto) tractor hp is listed as a minimum, the company recommends 115 if using the CFR960 by itself. Add the MGI option and the recommended hp increases to 125. With both the Feed Chopper and the MGI, the company suggests a 140 PTO hp tractor be used.

The CFR960 has a transport width of 107 3/4 in. and a transport height of 164 in. The basic processor weighs 6,200 lbs. and has a length to the end of the tires of 204 in.

The base price of the CFR960 is \$33,200

(U.S.). With the Feed Chopper option, it is \$40,850. With it and the MGI, the price is \$47,250.

Check out the CFR960 Square/Round Processor at FARMSHOW.com.

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After 20 Years, New Oilseed Shows Commercial Potential

After nearly 20 years of tedious plant breeding and production work, the new oilseed *carinata* is showing great signs of success. Dr. Kevin Falk of Agriculture and Agri-Food Canada initiated the breeding program for the new oilseed in the 1990's and says, "Like the success we had with canola, *carinata* will help to broaden the scope of field crops that farmers in arid regions can work with."

Source material used to develop *carinata* came from Africa, where the plant is known as Ethiopian Mustard. It has relatively high levels of erucic acid, a long chain fatty acid, which has good potential for lubricants, fuels and bio-plastic. Dr. Falk bred 2 successful varieties that were licensed to Mustard 21, a Saskatchewan non-profit corporation, in 2012 and 2013. Agrisoma Biosciences in Canada markets 3 varieties of seed under the Resonance brand name. *Carinata* is now being contracted in the U.S. and Canada and shows good potential.

In 2015 farmers in western North Dakota produced 6,000 acres of the crop. Eric Eriksmoen of NDSU's North Central Research Center in Minot, N. Dak. says *carinata* is an ideal source for biofuel, especially for jet fuel. He says the U.S. Navy supports *carinata* as a jet fuel because they're interested in developing plant-based sources of fuel.

Farmers in arid regions of the Plains and Upper Great Plains are welcoming *carinata* because the crop increases diversity. It's particularly suited to the western Dakotas, southwest Saskatchewan and southern Alberta, where canola doesn't perform as well. Farmers can use it in rotation with wheat, corn and sunflowers. It offers differences in planting, growing and harvesting, which effectively breaks up disease and weed cycles. Dakota farmers who've seeded *carinata* at the rate of 6 lbs. per acre say its seed costs about \$25 per acre compared to more than \$70 for corn and close



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to \$40 for sunflowers. Yields typically run from 2,500 to just over 3,000 lbs. per acre. At a contract price of around \$15 to \$15.50 per cwt, revenue per acre is in line with other crops. Another benefit of *carinata* is that unlike canola, the seed pods aren't prone to shelling while on the stem. Harvesting is generally slower because the plants are 4 to 5 ft. tall with pods up and down the stem.

After it's harvested, *carinata* moves from grain storage to an oilseed processing facility. There the oil is extracted and the seed hull residue is left behind to be used as a quality protein livestock feed.

Agrisoma's U.S. Agronomy Manager Garrett Groves says the company is hoping to contract more acres in the future. Several elevators in western North Dakota have agreed to receive the crop from farmers.

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Skid Loader-Mounted Wood Splitter, Tree Shear, Limb-Trimmer

"Our new skid loader-mounted wood splitter can be set up three different ways to do different jobs. It can split wood, shear standing trees and haul them away, and prune tree limbs up to 16 ft. high. It's a multi-purpose machine that gives you a lot of value for your money," says Nathan Messer, Messer Repair & Fabricating LLC, Sauk Centre, Minn.

The machine quick-taches to the skid loader arms and is equipped with a 10-in. tall, 4-way splitter blade and a 5-in. dia., 36-in. long hydraulic cylinder that can split logs up to 36 in. long. The vertical part of the 4-way splitter blade is welded to the boom.

The operator can split wood with the boom mounted sideways or in an outstretched position. An angled steel brace is used to reinforce the boom whenever it's in the outstretched position.

The 4-way splitter blade consists of a single vertical blade welded onto the boom, with a cross blade that bolts onto it. With the boom mounted sideways, the operator can unbolt the cross blade and bolt a U-shaped push bar/catcher onto the boom, allowing him to shear trees up to 8 in. in dia. at ground level and also catch them and haul them away.

The boom can also be used to prune tree limbs up to 16 ft. high. The operator just removes the horizontal part of the splitter blade, then raises the boom and extends the hydraulic cylinder.

"It allows you to do a lot of different jobs at a very reasonable price," says Messer. "You have a good view with all operations in front of you. The nice thing about having the boom in an outstretched position is that you can grab a piece of wood, lift it over a trailer or wood pile, split it, and drop the pieces directly onto the trailer or wood pile."

"The push bar/catcher helps protect both the machine and the operator when shearing trees. It also catches the tree so you can place it wherever you want it."

The wood splitter/tree shear sells for \$2,875 plus \$125 shipping and handling.



Multi-purpose machine is equipped with a 10-in. tall, 4-way splitter blade with the vertical part welded to boom. Splitter's cross blade is bolted on.



By unbolting cross blade and bolting a push bar/catcher onto boom, operator can shear trees, catch them, and haul them away (above). Boom can also be used to prune tree limbs up to 16 ft. high.



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