



Mower height up to 3 in. is controlled by cranks on the caster wheels. From 3 to 12 in., mower height is controlled by a hand-cranked cable winch on the tongue.

MADE FROM THREE PUSH-TYPE MOWERS

3-Engine Suspension Mower

"My three-engine, 5-ft. wide 'suspension' mower cuts grass and weeds up to 12 in. high. It works great for mowing not only my yard but also fence lines, ditches and waterways," says Dean Scheel, Dysart, Iowa.

Scheel's brother-in-law, Mike Grace, Elberon, Iowa, built the mower by removing the engines and blades from three new 20-in. wide push lawn mowers, then building a steel deck to enclose the blades and to support the three 3 1/2 hp Briggs & Stratton engines. The entire deck is carried by a 2 by 4-in. steel arched framework that rides on two 12-in. dia. wheels. Scheel pulls the mower with his garden tractor or 4-wheel ATV.

"I had been cutting grass with a riding mower but I wanted something larger that would also cut tall grass and weeds around my farms. The unique design of this mower lets me cut lawn grass down to 1 1/2 in. high and also mow weeds 3 to 12 in. high. There's nothing like it on the market and it was relatively inexpensive to build."

Scheel found that buying three new lawn mowers and rebuilding them into one unit was less expensive than buying three separate new lawn mower engines. "We paid

only \$99 for each push mower, but the engines were priced separately at \$135. We spent less than \$500 to build the entire mower whereas a single 11 hp engine would have cost about \$500 alone, before you even bought the spindles, blades and belts," says Grace.

Mower height up to 3 in. is controlled by adjusting a pair of hand cranks attached to the front 3 1/2-in. dia. caster wheels, and by moving pins on the wheels at the rear of the mower. Mower height from 3 to 12 in. is controlled by a hand-cranked winch mounted on the framework's tongue. Cable is suspended from the framework and attached to the mower deck.

A pair of 4-in. dia. anti-scalp wheels are mounted at the rear of the deck, along with six polyurethane rollers, to prevent gouging. A washing machine roller mounted just ahead of the mower prevents gouging up front. A rubber deflector mounted on the right side of the mower deck protects the driver from flying debris.

Contact: FARM SHOW Followup, Mike Grace, RR 1, Elberon, Iowa 52225 (ph 319 444-2906) or Dean Scheel, RR 1, Dysart, Iowa 52224 (ph 319 442-3239).



The 1,250-bu. portable field storage tank has its own self-contained hydraulics that power the bin's 10-in. loading auger, 12-in. unloading auger and 7-in. leveling auger.

SELF-CONTAINED UNIT LOADS SEMIS

Hydraulic-Powered Grain Storage Tank

You've never seen anything like this giant field storage tank for grain that holds 1,250 bu. of grain and unloads hydraulically, powered by its own engine and hydraulic system.

"Instead of using 4 to 5 small trucks to haul grain from combines to storage, you can use 1 or 2 trucks to haul grain to this portable bin, and then use a semi to haul grain to town," says Wally Brenner, Pomeroy, Wash., about his portable field bin.

"The first wagon that I built was for a farmer who wanted a field tank that he could drive under with a semi. We came up with the idea of this portable tank so it could be easily moved to another field. Then another farmer came to me who told me he was going to have to buy two more trucks. He talked to a grain hauler about hauling from the portable tank to the elevator by semi and decided it was cheaper to buy one of my portable bins than to buy two small trucks that wouldn't be used 11 months out of the year. Another farmer who came to me said he'd been looking at building a round field

storage tank that took two portable augers and two small tractors to operate. He decided my portable bin would be cheaper in the long run," says Brenner.

The portable tank is fitted with a diesel engine that powers a pair of hydraulic pumps. The tank is fitted with a 10-in. loading auger, a 12-in. unloading auger and a 7-in. leveling auger, all of which are direct-driven by hydraulic motors. The leveling auger moves back and forth, automatically leveling the tank. A pair of hydraulic rams on a rock shaft lowers the four 15-in. transport wheels. Up-front a hydraulic cylinder raises the tongue. It takes about 3 min. to get ready for transport. The tank does not have to be on perfectly flat ground to function.

The tank can unload its 1,250 bu. in 12 to 15 min. It's fitted with a roll-over tarp.

Sells for \$24,000.

For more information, contact: FARM SHOW Followup, Wally Brenner, Wally's Welding & Fabricating, Box 563, Pomeroy, Wash. 99347 (ph 509 843-1321 or 1173).

Portable Grain Handling System Cleans Grain While Loading Bins, Silos

Vernon Hauge, Morris, Ill., and son Jeff put together a portable grain handling and cleaning system by mounting a new Farm Fans stationary air conveyor on a wagon running gear along with a 70-bu. surge bin, grain cleaner, and fines auger.

Hauge uses the conveyor-cleaner to fill two 20 by 50-ft. Harvestore silos and 10 conventional grain bins on his home farm, as well as several conventional bins on three other farms. He pulls the grain handling rig with his pickup.

"We've used it for five years and it really does a good job," says Hauge. "We tried using conventional augers to load our silos and bins, but they damaged too much corn. Grain air conveyors cause less damage. By making this stationary air conveyor portable, and combining it with a grain cleaner, we can take care of two jobs at once and move it to wherever it's needed."

Hauges uses a pair of vertical 3-in. dia.

pipes to fill the Harvestore silos. Flexible tubing from air grain conveyor connects up to a length of flexible tubing at the bottom of the pipes. Grain is augered from a grain dryer into the surge bin, which regulates the flow of grain into the cleaner. Fines from the cleaner are augered into a truck and used for cattle feed, while clean corn is dumped into a hopper equipped with a built-in metering device which regulates the flow of corn to be blown up into the silos.

To blow grain up into his conventional bins, Hauge uses a modified 55-ft. long auger. He removed the auger tube and flighting and replaced it with a 3-in. air pipe that's supported by the auger carriage. The conveyor and cleaner can keep up with the output of both a continuous stage dryer (210 bu. per hour) and a continuous flow dryer (500 to 600 bu. per hour). "We adjust a gate at the bottom of the surge bin to regulate grain flow through



the cleaner so the pipe won't plug up," says Hauge.

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non Hauge, 10684 White Willow Road, Morris, Ill. 60450 (ph 815 736-6177).