



IPS specializes in building 3 pt. hitches and front-end loaders for older tractors.

They "Modernize" Older Tractors

"We've put 3 pt. hitches on tractors from as far back as the early 1940's, including Farmall M's and H's, Massey Harris's, Allis-Chalmers WD's and Deere 2-cylinders," says Gary Lee of Innovative Product Sales, Sand Point, Idaho.

Pak Systems 3 pt. hitch attaches to the tractor axle with a bolt-on bracket. They have power-up, power-down as well as float capabilities. Two turnbuckles replace sway bars on conventional 3 pt's to permit adjusting side sway without having to attach and detach implements. They'll handle Cat. I and II implements and are available in standard single cylinder or optional dual cylinder lift configuration.

On older tractors without hydraulics, the 3 pt's can be operated by a pump installed on the belt pulley or behind the magneto, Lee says.

Sells for \$895 not including cylinder(s) or hydraulic system.

IPS also builds a front-end loader with an attachment system for older tractors. It's designed with for tractors with a 10 gpm, 1,200 psi low hydraulic system. It features cylinders that are inverted from conventional designs to keep weight distributed on the rear of the tractor. It's constructed of 2 by 6 by 1/4-in. steel tubing.

Available quick-tach implements include low capacity fork-lift, small sprayer, bull plow and sander/spreader.

Sells for \$3,295 including 4-ft. bucket (8-ft. is optional) and four generic hydraulic cylinders.

IPS also offers a hi-volume hydraulic conversion package starting at \$930 and a tricycle to wide front axle conversion kit starting at \$935.

Contact: FARM SHOW Followup, Innovative Product Sales, 1201 Fontaine Drive, Sandpoint, Idaho 83864 (ph 208 265-9556; fax 0938).

"Exhaust-Powered Brakes" For Pickups

Two years ago, we reported on a new "exhaust-powered brake" system to increase stopping ability of semi's and tractor's (Vol. 19, No. 1).

Now, BD Engine Brake's system is available for turbocharged diesel pickups used to haul big loads.

It retards engine horsepower by up to 50 percent by producing back pressure that slows the engine by simply restricting flow of exhaust, according to the company.

The kit bolts into place on the Ford, Dodge and GMC pickups.

Installation takes an hour or two and requires no welding.

Kit is available with optional, \$35 back pressure gauge (back pressure does not exceed manufacturer's specifications).

Sells for \$850 (U.S.).



Kit retards engine horsepower by producing back pressure.

Contact: BD Engine Brakes, Unit 10A, 33733 King Road, Abbotsford, B.C., Canada V2S 7M9 (ph 604 853-6096; fax 8749) or P.O. Box 231, Sumas, Wash. 98295 (ph 800 887-5030).

Mini-Excavator Digs 7 1/2 ft. Deep

"It's a small machine with a lot of power and versatility," says Mark Palmer, manufacturer of the Lifton LE 125 mini backhoe.

It's hydraulically-driven with a 7 gpm pump and powered by a 13 hp. Honda engine and will dig as deep as 7 1/2 ft. Bucket widths are available from 9 to 36 in.

When in use it's lifted off its wheels by hydraulically-controlled front and rear stabilizers. One advantage of the design is that if you need to get into a tight space, the drive wheels and axles can be removed by pulling a pin and disconnecting three hydraulic hoses. That lets it fit through a 28-in. opening.

The machine weighs 1,500 lbs. and self-tows on the highway at speeds up to 65 mph so no trailer is needed.



Backhoe features detachable drive wheels and axles for getting into tight spaces.

Sells for \$14,500.

Contact: FARM SHOW Followup, Mark Palmer, Lifton Excavator, N27128 Lindstrom Rd., Blair, Wis. 54616 (ph 608 525-3723; fax 608 525-2000).



Aerator consists of wheels with four 22-in. long curved teeth mounted on toolbar.

"Rolling Deep Aerator" Breaks Up Subsoil

A new "rolling deep aerator" unveiled recently at the St. Louis Farm Show in St. Louis, Mo., loosens compacted subsoil as deep as 22 in.

"We ran the prototype on over 2,000 acres of corn and soybeans last year, including some upland corn on tough gumbo soil," says inventor Chuck Fulk of Platte City, Mo. "We noted a 3 bu. per acre increase compared with an unaerated check strip. We believe that would have been more had we not had such a wet season. It'll really shine in improving water infiltration in dry years, since we were able to pour up to 5 gallons of water down many of the cuts made by the tool.

"Used in tandem with an Aer Way aerator, you'll be able to deep aerate and surface aerate all in one pass," says Fulk, who also handles the Aer Way.

The rolling deep aerator consists of a dual 7 by 7 by 3/8-in., 11-ft. long toolbar. Channel iron running between them is fitted with aerator wheels with four 22-in. long curved teeth. The wheels turn in bearings and clamp to the channel iron so spacings can be set as narrow as 15 in.

Weight boxes, with 2,500 lbs. capacity, are used to keep down pressure on the unit.

A 3 pt. hitch on back allows you to pull an Aer Way aerator behind.

A 200 hp tractor is required to pull the 5-row aerator at speeds of up to 6 mph, Fulk says.

A four-row unit, with rear gauge wheels, sells for about \$7,000.

Contact: FARM SHOW Followup, Fulk Agri Services, 13245 Running Horse Rd., Platte City, Mo. 64079 (ph 816 858-5836).

Stock Trailer Flooring Made From Recycled Tires

Recycled tires can be turned into dandy stock trailer mats that are easier to clean, provide animals with surer footing, and keep trailers quieter than conventional wooden flooring, according to Park, Kan., inventor Dale Goetz.

"Getting the technique down was the hardest part," says Goetz who makes the mats for sale. "The key is to cut about an inch off the side of the tread once the sidewall has been cut off. That keeps them from curling."

Goetz uses old 14, 15 and 16-in. tires he gets from a local tire shop. He uses a custom-built electric cutting machine equipped with a two-speed rotary blade that'll cut through steel belts and pinch sidewalls off of the tread. The machine also cuts an inch off the side of the tread.

He "basket weaves" the tires into 6 by 6-ft. mats, laying one strip right side up and the next upside down. The mats are bolted together around the outside with 1/4-in. bolts. They're cut off on the underside, which helps keep them in place in livestock trailers.

"The trailer and mats are easy to clean," he says. "You simply fold the mats over in half and wash one side of the trailer, then fold the other side over and wash the other."

Besides livestock trailer mats, Goetz also turns out 3 by 8-ft. mats for horse trailers. Made from 5/8-in. strips of tire sidewalls and held together with galvanized wire, the mats are finer-woven to relieve fatigue and stress during long hauls, he says.



Goetz weaves standard mats out of tires with sidewalls removed.



He weaves mats for horse trailers out of the sidewalls.

Goetz makes mats in custom sizes and has also installed them on concrete areas that have a tendency to get slick around feedlots, such as in front of working chutes, loading chutes and alleys.

Mats sell for \$3.50 per sq. ft.

Contact: FARM SHOW Followup, Double D Family Mat Shop, Rt. 1, Box 18, Park, Kan. 67751 (ph 913 673-4326).