"SPACE-AGE KEVLAR" VIRTUALLY ELIMINATES BRAKE, TRANSMISSION REPAIR

New "Plastic" Liner For Brakes, Clutches

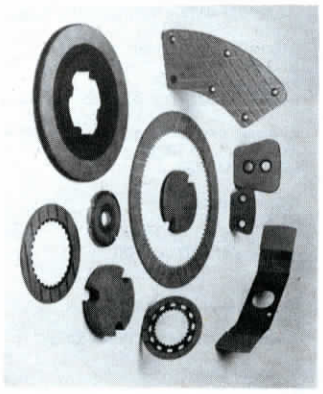
"It virtually never wears out," says Dave Bortz, president of Tribco, Inc., which has adapted the space age plastic fiber "Kevlar" for use on brake linings, clutch plates, automatic transmission friction discs, and other parts that would otherwise be lined with asbestos, bronze or other types of friction linings.

Bortz says the company tells customers the Kevlar composite linings will last 3 to 5 times longer than conventional linings because, "If we told people it will never wear out they wouldn't believe us," he told FARM SHOW. But for many applications, he says it appears there is virtually no wear.

Kevlar, which was developed as part of the space program, resists higher frictional heat and abuse and can be used wet in lubricated transmissions and assemblies.

"It delivers higher torque and smoother operation and virtually eliminates brake, transmission and clutch repair after it's installed because it also doesn't wear out opposing metal discs. We'll line or re-line any metal substrate, plate or shoe, or provide retrofitted parts," says Bortz, noting that the company doesn't yet have parts available for all farm equipment, but will re-line any parts sent to their factory in Cleveland, Ohio.

The only parts the company won't work with is brakes for over-the-road cars and trucks. "We're a relatively small company so we can't afford the liability insurance required to supply parts for brakes on highway vehicles," says Bortz, noting that the new lining would nevertheless work well for those applications. Parts lined with the Kevlar composite cost 2 to 5 times as much, depending on the part.



New lining can be used on brakes, clutch plates, automatic transmission discs, etc.

Contact: FARM SHOW Followup, Tribco, Inc., 1700 London Road, Cleveland, Ohio 44112 (ph 216 486-2000).

Harrow consists of a series of discs, each supporting eight 6-in. long steel spikes.

"GREAT FOR INCORPORATING HERBICIDES"

New Rotary Harrow "Won't Plug In Stubble"

A new-style "rotary harrow" equipped with steel spikes lets you incorporate herbicides in heavy stubble without plugging and leaves plenty of standing stubble to prevent soil erosion, according to Brandt Industries Ltd., Regina, Sask.

The harrow consists of a series of discs each with eight 6-in. long steel spikes extending from them. Each set of teeth is mounted on steel plates and mounted on a steel shaft. Depth is controlled by hydraulic cylinders which also fold the harrow backward for transport.

"It does a consistent job over its entire width and can be used in a variety of soil conditions," says Peter Dittman, vice president of marketing. "With the trend toward soil conservation farmers want a harrow that can be used in standing stubble to prevent soil erosion without plugging up. Spring tine harrows tend to plug up in trashy fields, but the spikes on our rotary harrow walk right through. They pull straw and weeds out of the ground and leave them on the surface.

"The harrow works great when pulled behind an air seeder because it levels the ridges and removes the weeds leaving weeds and straw on the surface. It also does an excellent job of breaking hard crust on the soil surface, and it does a much more efficient job of incorporating chemicals than a spring-mounted harrow because the rotary spikes stir the ground so well. In addition, the spikes leave small craters in the ground which reduce water runoff resulting in better water retention. They deflect out of the way when hit by rocks. The bolt-on spikes can easily be replaced."

Harrow requires 2 hp per sq. ft. Models available in widths from 40 to 70 ft. A 50-ft. model sells for $15,000 (Canadian).

For more information, contact: FARM SHOW Followup, Brandt Industries Ltd., 705 Toronto St., Regina, Sask., Canada S4R 8G1 (ph 306 525-1314).

TELLS YOU WHEN YOUR BIN IS FULL OR HOW MUCH ROOM IS LEFT

Auger-Mounted Grain Bin "Alert"

New "Auger Alert" tells you when your grain bin or truck is full or how much room is left so you don't have to climb up to check.

The heart of the bin alarm is a sensor that hangs from the auger downspout. As grain is augered into a bin and rises toward the top it forms a cone-shaped pile that pushes the sensor off to the side, activating a microswitch that sets off a car horn mounted at the bottom end of the auger. A counterweight above the sensor keeps it from being buried by grain.

"It's a work saver and safety device all in one," says Jim McDowell, owner. "Most bin alert devices are mounted inside the bin. They cost about $50 each and you need one for every bin. Auger Alert eliminates all climbing and is a relatively inexpensive way to monitor bins because you only need one unit to monitor any number of bins. You can also use it to determine how much room is left in the bin by letting more cord out by hand to lower the sensor into the bin.

"Auger Alert can also be used to tell when your truck is full or when it's time to move it ahead which is really handy if you're inside the bin shoveling grain into the auger and you can't see the truck. The car horn, mounted at shoulder height, is loud enough to be heard over the noise of tractors and the auger.

Sensor hangs from auger downspout.

"We also offer one model with a motor shutdown feature that automatically turns off your tractor or truck when the bin is full. It lets you do something else while filling bins or trucks."

The system operates on any 12-volt battery. It comes with mounting brackets that fit all sizes of augers, 70 ft. of wire, and 15 ft. of power hookup wire complete with battery post clamps.

Sells for $195.

Contact: FARM SHOW Followup, F.G. Mfg. Ltd., Box 855, Baytree, Alberta, Canada T0H 0A0 (ph 403 353-2450).

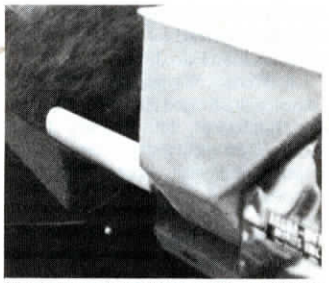
PRECISE METERING, CONTROL

Variable Speed Applicators For Granular Additives

"Our specialty is precision application of additives in granular form," says Russell Springmeier, inventor-manufacturer of variable speed auger-hopper units that uniformly dole out "dry" innoculants, premixes, preservatives, antibiotics and other additives in rates ranging from several ounces to 300 or more pounds per ton of feed or forage.

Springmeier's new Augra Meters are tailor-made for single or multiple uses in blending mineral, premix or protein into feeding systems. They readily adapt to roller mills, stationary electric mills, or to portable grinder-mixers. Springmeier offers special brackets for mounting individual units on silage blowers and hay balers to dispense dry innoculants or preservatives.

Individual dispensers, available with 115V or 12V motors, feature fiberglass hoppers, stainless steel augers and plastic auger tubes. They're designed for variable speed control and have no chains or belts to maintain, and no gates or orifices to plug, Springmeier points out.



Special brackets allow the Augra Meter to be mounted on silage blowers.

Contact: FARM SHOW Followup, Augra Meter Systems, Mirus Inc., New Hampton, Iowa 50659 (ph 515 394-2352).