



Hydraulic pump mounted under hood has sufficient capacity to power pto and two separate cylinders. Note spools on each side of the pto.

COMBINATION HYDRAULIC AND PTO SYSTEM FITS 2 OR 4 WHEEL DRIVE VEHICLES

Turn Your Pickup into A Tractor

Ever stop to think how much more work you could get out of your pickup if it was equipped with a "live" and reversible pto, and a high capacity hydraulic system?

For example, you could unload silage wagons right from the driver's seat by simply flipping a switch to activate the truck's rear mounted pto. Or, you could unload baled or stacked hay right from the driver's seat by flipping one lever to activate a hydraulic cylinder which tilts the bed on the mover, and another lever to activate the pto-driven unloader apron.

These and dozens of other new ways to make your pickup work harder are now possible, thanks to the new Ott Power Package, developed by Randy Ott, young innovator and hydraulics expert from Charles City, Iowa.

Heart of the system is a specially designed hydraulic pump. It's mounted under the hood and is "free wheeling" when not in use to save gas. It provides high capacity power to drive the rear-mounted hydraulic pto which is both "live" and reversible. The pump, rated at 2,250 psi, has sufficient capacity to operate one or two hydraulic cylinders. You can buy the complete system (pto and two spools for operating two cylinders) or any part of the system. For example, you can order a pto only, a pto and a single hydraulic spool, or a double spool (for operating two hydraulic cylinders) and the pto.

Here, according to Randy, are some of the jobs most any pickup (whether 2 or 4 wheel drive and with automatic or standard transmission) equipped with his "power package" can handle: "The system is especially suited for feeding livestock. The driver can unload silage at full capacity, regardless of how fast the truck is

moving since operation of the pto is completely independent of the truck's transmission. With apron-type stack movers, the pickup motor can be revved up full throttle to get the power needed to drive the pto-driven loading apron, yet the truck can be inched back as the stack is loaded.

Randy notes that with your pickup equipped with a pto and hydraulic system to serve as a tractor, "you don't have to monkey with hard starting diesel tractors to feed silage or hay to livestock during the cold winter months. Your pickup, equipped with a pto and hydraulic system for operating hydraulic cylinders, can do everything a chore tractor has been doing."

Another key feature is the pump's high capacity. Mounted under the hood, it's rated at 2,250 psi (14.7 gpm) and has sufficient capacity to "crack" the folding wings of large disks or field cultivators, Randy points out. The pto runs at 540 rpm and can be turned on or off with a control lever at the rear of the truck, or from inside the cab. It mounts under the box and, according to Randy, doesn't interfere with the rear bumper hitch on most trucks.

Suggested retail is \$1,595. Hydraulic spools can be equipped with whatever brand of quick-couplers the owner prefers. Parts used to assemble the power package are standard and readily available, making it relatively easy to secure spare parts if needed. Randy will custom install the complete system. Dealer inquiries welcome.

For more details, contact: FARM SHOW Followup, Ott Hydraulics, Randy Ott, president, Route 4, Charles City, Iowa 50616 (ph. 515 228-7517 or 228-2143).



"Only time we ever broke our 1 1/4 in. dia. rope was when a D8 Caterpillar pulling another D8 and scraper finally pulled the rope apart, but only after the scraper was 3/4 full," says Roy Scharmer.

BUILT IN STRETCH GIVES "SPRINGBACK" ACTION FOR GREATER PULLING POWER

Nylon Tow Ropes Catching On Fast

You won't believe some of the things they're doing with nylon tow ropes — unless, of course, you own one and already know about their unbelievable pulling power.

"So far as we know, the only time our 1 1/4 in. dia. nylon rope broke was when a D-8 Caterpillar pulling another D-8 and scraper finally was able to deliberately pull the rope apart — but only after the scraper was almost full," says Roy Scharmer, manufacturer of Scharmer nylon tow ropes at Buffalo Lake, Minn.

Scharmer specializes in producing top quality nylon ropes and warns that "a few fly-by-nighters got into the business and sold poor quality nylon rope at cut-rate prices. In some cases, metal hooks and chains used at the ends of the rope were of inferior quality. It's extremely important to use quality materials since serious accidents can result if the metal hook, chain or clevis at either end breaks under heavy load. Be sure the hooks or thimbles on the ends are strong enough for whatever you are towing because of the stretch in nylon, and its tremendous strength. It works much like a rubber band, if the ends should break. If the rope itself should break, there is very little snap back," Scharmer points out.

His firm offers about 2 dozen different sizes of "cut-length" nylon tow rope ranging in diameter from 3/8 to 2 in. List prices vary, depending on size and the type of chain, hook or clevis on the ends. The largest 2 in. dia. rope, rated at 92,000 lbs. pulling strength, sells for \$6.40 per ft., plus \$36.20 for each end thimble made of high quality steel. A 25 ft. length of 1 1/4 in. dia. nylon rope, with a thimble at each end, weighs 12 1/4 lbs. and retails for \$81.60.

"Nylon tow ropes work great for pulling one tractor with another to get through muddy fields," says Earl Langfitt, of New Hampton, Mo., one

of the original manufacturers of nylon tow ropes. "We sold a lot of tow ropes last fall for dual tractor hookups, and for pulling equipment out of mud holes." Langfitt notes that 1/2 in. log chain has a breaking strength of about 14,500 lbs. This compares with 14,200 lbs. for standard 3/4 in. dia. nylon rope, 25,000 lbs. for 1 in. nylon rope, 37,500 for 1 1/4 in., 53,000 lbs. for 1 1/2 in. and a breaking strength of 92,000 lbs. for 2 in. dia. nylon rope. "A 20 ft. length of top quality 1/2 in. steel chain costs about \$100, compared with \$113 for our 2 in. nylon rope which has more than 6 times as much breaking strength. Our 1 1/4 in. nylon rope, with 2 1/2 times as much strength, costs about half as much (\$53.30) as 20 ft. of 1/2 in. steel chain. It is necessary to have higher break strength with nylon tow rope because the user can apply greater pulling power by running into it, and the fact that it will stretch 35%."

Langfitt notes that running nylon rope to the end and applying a continuous pull can cause the rope to lose its spring or stretch: "When all the stretch is applied, the pulling unit should be locked down and held, allowing built-in stretch to do the pulling without applying a continuous pull on the rope." He warns that if hooks are attached to the nylon rope, be sure their strength exceeds that of the rope itself. Instead of a clevis — particularly on heavier 1 1/4 in. dia. or larger nylon rope — he recommends using a shackle which is similar to a clevis but stronger.

For more information on nylon tow ropes, contact:

FARM SHOW Followup, Scharmer Mfg., Buffalo Lake, Minn. (ph. 612-833-5913).

FARM SHOW Followup, Earl and Ron Langfitt, New Hampton, Mo. 64424 (ph. 816 439-4235).