

## “Unstuck” Tow System For Tractors, Combines

“Pulling out a stuck tractor or combine is a lot easier and safer with our new Easy Out Pulling System. It minimizes the risk of damaging your tractor or combine and gets you out fast,” says Ben Brutlag, Brooten, Minn.

A 1 1/4-in. dia. steel cable hangs on a bracket at the front of the tractor. It runs back under the tractor to a heavy 2 3/4-in. dia. pin with a cable pulley that’s housed inside a heavy metal bracket bolted onto the tractor’s frame. To pull out the stuck tractor, you hook up to the cable on front.

Brutlag also offers a heavy-duty nylon pulling strap as an alternative to the cable. The pulling strap winds up on a reel attached to the tractor’s weight bracket. The strap reaches out 35 ft. in front of the tractor.

“It lets you pull from the heaviest and strongest part of the tractor, without having to do any digging out in the mud at the back of the tractor,” says Brutlag. “And you don’t have to waste time unhooking the implement.”

The Easy Out Pulling System is designed

for Deere tracked tractors and 4-WD’s. It will soon be available for Case IH 4-WD and Magnum tractors. The cable pulling system sells for \$1,850 plus S&H; the nylon strap pulling system sells for \$2,500 plus S&H.

Brutlag also offers an Easy-Out Pulling System for combines, which sells for \$1,850 plus S&H. It uses a pair of 3/4-in. dia. cables that attach to brackets bolted onto either side of the combine’s front axle. The cables come together at the back of the combine, where they attach to the combine’s factory tow hook.

“The system uses the combine’s tow hook but applies the majority of force to the front axle, which allows the combine to be pulled out backward at an angle without the cable interfering with the rear wheels,” says Brutlag.

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A 1 1/4-in. dia. steel cable hangs on bracket at front of tractor. To pull out the stuck tractor, you hook up to cable on front.



Cable runs back under tractor to a heavy duty pin with a cable pulley housed, inside a steel bracket bolted to tractor frame. Nylon strap pulling system is also available.

## Windmill Tower Goes Up Quick

Roy Hershberger’s windmill goes up fast and comes down fast for maintenance, without even loosening the 8 guy wires. The 90-ft., single mast tower can be raised and lowered in as little as 7 min., according to Hershberger.

“We had 120 mph winds this summer that took out trees, but left our wind tower standing,” says Hershberger, designer of the unit.

The Wind Energy Tower differs from traditional wind power systems in several ways. Not only does it come standard with an air compressor instead of an electrical generator, it uses airfoils instead of the more common propellers.

The tower needs 9 to 10 mph winds to get started. However, it will continue working at wind speeds as low as 7 mph and doesn’t stop until wind speeds reach between 80 and 100 mph. The three-blade, 18-ft. rotor will reach blade tip speeds of up to 350 mph.

At wind speeds under 8 mph, an independent compression system lets it build speed until start-up torque is reached. At the higher wind speeds, the airfoils automatically slow.

“The compression system vents into the atmosphere until it exceeds 120 rpm’s,” explains Hershberger. “However, that can be adjusted simply by changing pulley sizes. It reaches maximum speed from 20 to 35 mph

and about 600 rpm’s. From 50 to 80 mph, the airfoils begin to furl and slow.”

Hershberger says air power can be used with a variety of outlets, including pneumatic shop and household equipment as well as water pumps and fans. He is experimenting with using it on a Freon pump for walk-in coolers and freezers.

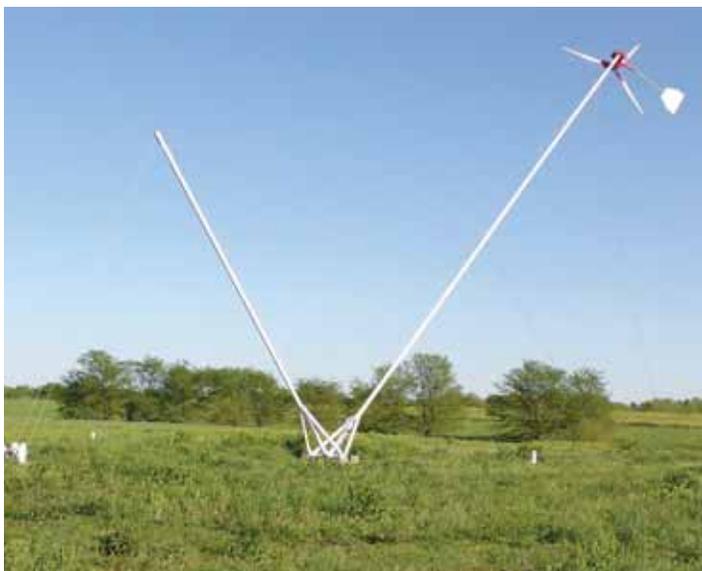
“It would be easy to mount a PMA (permanent magnet alternator) or generator on it,” says Hershberger. “The compressor mounts to the sprocket head with four bolts. The airfoils and hub shaft power a pulley that drives the compressor head.”

Lowering the tower to maintain or change pulleys or compressors is easy, even with a stiff side wind. Once in place, the guy wires remain attached, and some remain taut as the tower is lowered and raised.

“When the tower is raised back up, the other guy wires automatically tighten back up,” says Hershberger. “All you have to do is lock and unlock the winch to raise or lower.”

The airfoils are designed to run at half the speed of sound. However, Hershberger notes that during testing the tips at times broke the sound barrier of 768 mph.

“The resulting clap isn’t something you want to produce on a regular basis,” he says. “However, we know the tower can handle



Roy Hershberger’s 90-ft. windmill comes down fast for maintenance, with no need to loosen the 8 guy wires that support it.

those speeds.”

Hershberger’s Wind Energy Tower has a suggested retail price of around \$8,000. However, individual distributors may sell it for less. Currently he has four distributors,

but is looking for more.

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## Calf Hutch Sports “Swing-Up” Bedding Door

“Our new group calf hutch is equipped with a simple, swing-up bedding door on back. It makes adding bedding to the hutch an easy job and saves a lot of time,” says Skip Wiswell, Agri-Plastics, Tonawanda, N.Y.

The hutch is molded from heavy gauge plastic and has a door on back that’s built in two halves, which are connected together at the top. There’s a grab handle on each half door. As you lift one of the handles, both doors engage a large gear at the top that lets them open at the same time. Once the doors reach the horizontal position, they lock them in place. It leaves about a 3-ft. sq. opening.

“It’s really easy to use and eliminates the need to handle hay or bedding more than once,” says Wiswell. “Both doors come with built-in louvers to provide ventilation, and a round spinner-type louver on top of the doors provides additional ventilation.”

The hutch can be used together with a large 12 by 16-ft. galvanized pen that has a sealed plastic feed trough, training rail, and man-pass door on front. The pen’s side panels are made from 14-ga. galvanized metal. All corners of the pen pin together for fast disassembly.

“The hutch comes with a lift kit on top that lets you use a front-end loader to raise the hutch off the ground for easy cleaning,” notes Wiswell.

The group hutch sells for \$727 plus S&H. The galvanized pen system sells for \$1,175 plus S&H.

The company also builds a louvered “3-in-1 rear door” into its deluxe EXL single calf hutch. The back side of the hutch is equipped with an extra large adjustable grill vent, bedding door, and brackets for a bottle holder and 2 pails for rear feeding. You just



Door is built in 2 halves connected together at the top, with a grab handle on each half door. Both doors engage a large gear at the top that lets them open at the same time.

grab a handle to lift the door up and out of the way.

The deluxe EXL single calf hutch sells for \$374 plus S&H.

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