



Perched above the horse in a padded seat, Barnes never gets saddle sores.

#### 4 SPEEDS FORWARD AND REVERSE

## First Horse-Powered Car

By Mark Newhall, Managing Editor

Everybody stops to take a second look when Phillip Barnes comes into town with his amazing horse-powered car that drives right through traffic as though it were an automobile.

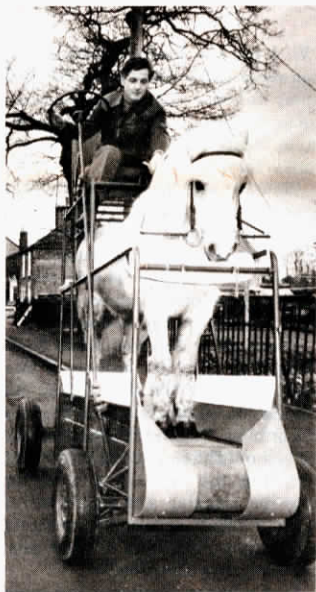
Barnes, who lives near Manea, England, says his horse car has been a big hit in parades, fairs and at energy shows. But, he sees it as more than just a crowd-pleasing gimmick. In big cities, where it's almost impossible to ride a horse due to heavy traffic, his car provides a safe way to travel by horse, he points out.

"The car is fitted with brakes so it's safe on the road. Because movement of the car is controlled by the driver, there's a predictability that protects both the horse and the driver and makes it just as convenient to operate as an automobile," says Barnes.

He's built several prototype "Horseicles", as he calls them. His current model has 4 speeds forward and a reverse. It's fitted with a clutch and shifts like a conventional standard transmission. The driver sits on a platform above the horse. He says you need a bicycle to keep up with the car when it's on the road. "A stronger, more fit pony than our 10-year old Polly will be able to go much faster," says Barnes.

The horse is tethered by its head and wears a bit. The reins are tied to a bar in front of the operator who uses them in part to control the animal. The horse walks on an endless rubber conveyor belt supported on 36 freely rotating rollers mounted on the frame of the machine. The belt powers a driveshaft that connects to the transmission that drives the rear wheels.

"Taking the horse off the road surface and allowing it to work on a conveyor belt enables it to reach higher speeds and go farther. The horse needs some training but all it needs to learn is to walk straight ahead and push. There's nothing complicated. The driver has to keep the horse



Barnes says his horse-powered car is the only safe way to ride a horse in heavy city traffic.

walking by word of command or touch as he would normally," points out Barnes.

One advantage of the Horseicle is that, at least in Britain, it doesn't require a license to operate. The car is registered as a horse-drawn carriage.

Barnes is constantly rebuilding on the car. His first model, for example, had pedals that clipped to the horses' shoes. Another model had a lower profile with the driver sitting in front of the horse. He is currently working on a horse-powered boat. None of the vehicles is yet for sale.

For more information, contact: FARM SHOW Followup, Philip Barnes, Park House, Manea, March, Cambridgeshire, England PE15 0JA (ph 011-44-035-478-310).



Machine's 25-in. dia. discs till to a depth of 10 in.

#### WORKS SOIL LIKE A PLOW, WITH 1/3 THE HP

## Bush Hog Introduces Pto-Powered Disc

Showgoers at the recent 1984 California Farm Equipment Show were treated to the unveiling of Bush Hog's pto powered disc.

A year ago Vol. 7, No. 3, FARM SHOW reported on the world's first powered disc, a two ganged machine made in England. Bush Hog's machine, powered off the tractor's 540 rpm pto, features a single gang which is angled and turns 3 to 5 times faster than the tractor tires so you get a tilling action which is similar to that of a moldboard plow.

A spokesman for the Selma, Ala., based company says that the disc requires about one-third of the tractor horsepower required by equal size plow and costs about half as much.

It features 25 in. dia. discs that till the soil down to 10 in. deep. The discs are chain driven via a gearbox powered off the pto.

The 3-pt. mounted, 7-ft. power disc — equal to a 4 bottom plow — will sell for under \$4,000.

For more information, contact: FARM SHOW Followup, Bush Hog, P.O. Box 1039, Selma, Alabama 36701 (ph 205 872-6261).



Disc uses just one-third the power required by a similar size plow.



Barnes poses with his current "Horseicle" (right) and an earlier model which placed the driver ahead of the horse.