



Front-mounted plow which the tractor pushes "replaces useless front ballasts with a plow that works," says the manufacturer.

**"PUSH IT, PULL IT, OR DO BOTH AT ONCE"**

## Push-Pull Plow First Of Its Kind

"You can mount one on the front, on the back or on both the front and back of your tractor," explained French manufacturer Georges Naud to passersby at the recent Royal Agricultural Exhibition who had to be convinced the revolutionary new Naud front-mounted rollover plow was not just a gimmick designed to draw them into the Renault exhibit.

"This plow makes better use of your tractor's horsepower. With the same size tractor, you can pull two more bottoms with both a front and rear-mounted plow than with a conventional rear-mounted plow alone. That saves time and fuel, reduces tire slippage almost to zero, and means less trips over fields," Naud told FARM SHOW, noting that field tests have shown at least a 10% fuel savings per acre plowed with the new push-pull plow.

The Naud plow mounts on a 3-pt. attachment bolted to the tractor's front axle and frame, where up to four bottoms can be mounted. Turnover and side movement are totally hydraulic, with depth controlled by a land wheel up front. With a few adjustments, the same plow will mount on the rear.

"With a front plow, the driver never has to look back — he simply follows his front furrow," points out Naud. "You can mount our plow on the front of your tractor and pull a different make plow behind if it's the same size plow. We can tell interested farmers whether their plow is compatible with ours."

Turnaround is also simpler, he adds. With four bottoms up front and six at the rear, he can raise both at the end of a row and turn around in half the time of a 10-bottom, semi-mounted plow.

"This plow is designed specifically

to make better use of 4-wheel drives, replacing useless front weight ballasts with a plow that works. However, the plow can also be used with large 2-wheel-drives that are strong enough in front," says Naud.

Besides making better use of tractor horsepower, the plow lets farmers adjust to different land conditions. On hilly ground you might use only the rear plow, for example, whereas on flat ground, you would use both. According to Naud, a 130 hp. tractor can handle an 8-bottom push-pull plow, with 3 bottoms up front and 5 in back.

To emphasize the advantages of the new plow, Naud recounted recent field tests at West Wycombe in England. In that test, two identical 118 hp. four wheel drive tractors were compared on "rock hard" sloping land, one with a reversible 5-bottom unit on the rear, and the other with a 4-bottom reversible plow behind and a 3-bottom reversible in front. Despite the two extra bottoms, the push-pull plow, because of equal weight distribution to all wheels, worked at equal or better speeds, with noticeably less slippage and better stability, according to Naud.

Eight models of the plow are available in the United Kingdom, including optional trip beam legs and various safety features. Although being distributed throughout Europe by Renault, Naud is looking for other manufacturers and distributors, and says he's already had talks with interested personnel at John Deere.

For more information, contact: FARM SHOW Followup, George Naud, Charrues Naud, S.A., Rd 752, Andreze, 49600 France.

# FARM SHOW

## Best New Ideas From Europe

FARM SHOW editors cover all major shows in the United States, Canada and foreign countries to keep you and other readers posted on latest new products. Featured here are just a few "best of the show" ideas which caught Associate Editor Mark Newhall's eye at this year's Royal Agricultural Exhibition in England. It's one of the world's biggest and best known shows, attracting more than 200,000 visitors and more than 1,200 exhibits.

### NEW INTERCOM BREAKS "SOUND BARRIER"

## Give Your Cab An Ear And A Mouth

With soundproofed cabs, many of the sound clues that warned you of equipment malfunction in "the old days" are no longer any help in spotting trouble. Instead, manufacturers are equipping machinery with ever more expensive electronic controls connected to digital readouts in the cab that tell you what you used to hear.

"Some farmers leave their cab windows open, which defeats the purpose of having a soundproof and air conditioned cab. But, if you have people working on machinery behind you, and you have a soundproof cab, the only way they can get your attention is to throw something at the cab," says Jim Wilkie, a British inventor who told FARM SHOW he's broken the "sound barrier" with a sound system for cabs.

"It's very simple. You mount a 'listening' loudspeaker outside the cab, probably facing to the rear. The sound that speaker picks up is passed by wire to a control and out through a speaker in the cab," Wilkie explains.

The key to his system is in the volume control and circuitry of the control box. It picks up specific sounds and lets the operator tone down or magnify the sound he hears.

Circuits filter out engine noise in favor of higher pitched noise, such as the squeals of a dry bearing, or the human voice. The operator can also talk to someone outside the cab without having to open a door or window.

Tractacom, as Wilkie has named it, was designed specifically for tractors, combines and other farm equipment. It's powered by a 12V battery. In the case of a combine, where you might want to monitor both the header up front and the cleaning or other equipment at the rear, you can mount two exterior speakers.

The basic kit sells for about \$200 and can be shipped through the mails.

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