

Subsoiling and planting combined

WILSON, N.C. - Lely of Wilson is introducing a concept that enables the grower to "rip", or subsoil in the row and at the same time to spray, till, incorporate and plant. It is still recommended to conduct primary tillage in the Spring or Fall although in some instances farmers have gone with the complete rig behind harvester and planted corn. Subsoiling under the row is mainly popular because it allows roots to reach deeper to more moisture which is important, especially during stress periods in the Summer. It has been found that subsoiling in the row during the same trip as planting is the most effective way in many soils with hardpan trouble. University studies concluded that 75 per cent of compaction reoccurs during the first trip after subsoiling. This makes ripper-bedder arrangements in a separate pass before planting less attractive. Lely is the first company to offer a complete system that is close connected to the tractor. It consists of the following:

1. The Rowripper with up to six parabolic shanks which cause greater soil shattering with less horsepower requirement. The unique shank design whereby the pivot point is positioned in front of the frame bar enables the shank to lift virtually immediately when it strikes an obstacle and to not break away to the rear first. This in turn makes close coupling of an implement such as the Lely-Roterra possible. Row spacing is adjustable on some models. Shanks are 1 1/4 inch thick, clearance from the bottom of frame to shank tip is 26 inches.

2 The Lely-Roterra will level the soil, reduce clods and prepare an ideal seedbed in a single trip

3 Chemicals are applied through the unique Lely system whereby the sprayboom is mounted behind the Lely-Roterra and chemicals are sprayed forward into the whirling tines after the soil has been

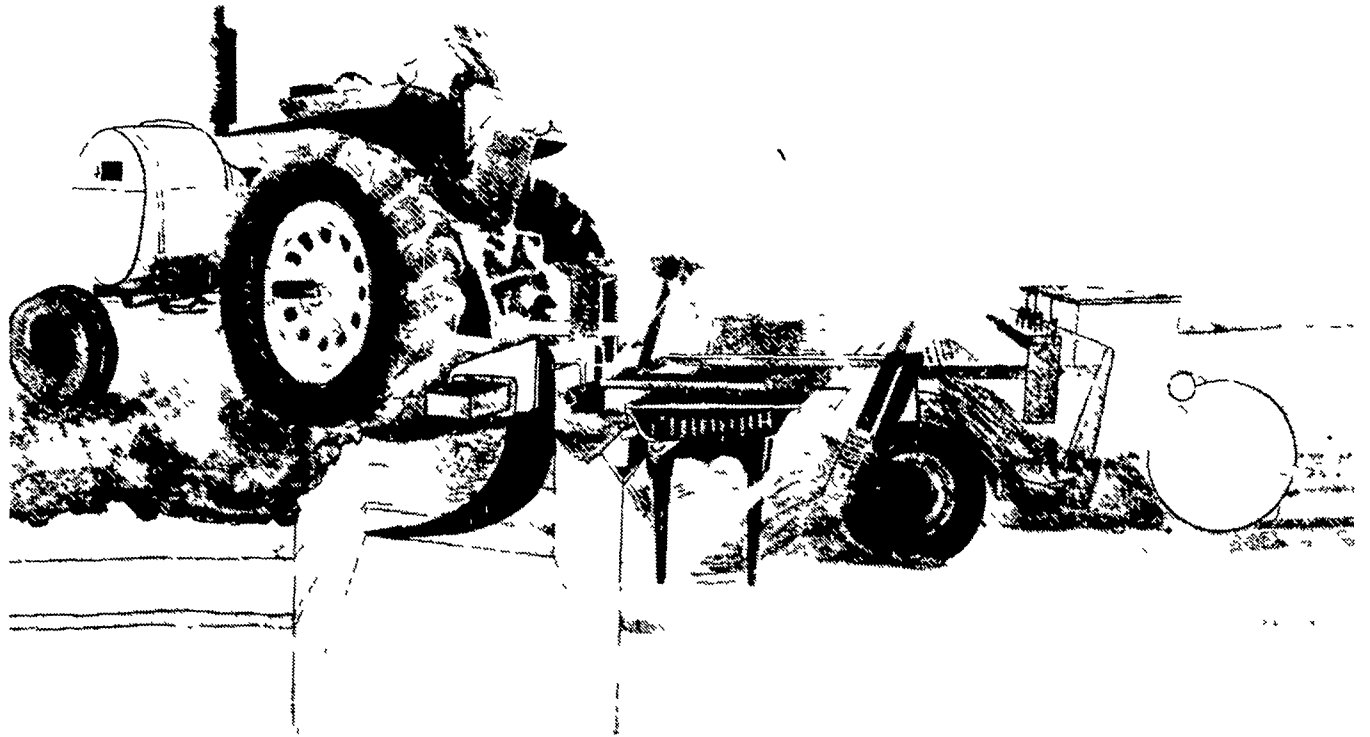
leveled and the clods partially reduced. This method provides excellent wind protection and ideal mixing of chemicals to precise depths.

4 Because of the close coupling of the whole combination and the depths control roller, lift assist wheels are not required and, for example, unit planters can be attached directly to the combination. The alternative would be to use the unique Lely Bridge Hitch with quick attach hook-up to the tractor which will enable the farmer to either operate the planter alone or the combination of Rowripper, Lely-Roterra, Spray System, or the whole combination.

5. Lely also offers the complete spray system, including tanks, pumps, and controls. The unique Lely Spray Command control system warns the operator in the cab when a nozzle is not performing properly, enables him to electrically increase or decrease the output and also enables the operator to cut off and start automatically the spray when the combination is raised and lowered at the turn row.

The system has been tested intensively during the past two growing seasons. It is ideal for farmers who care about maximum productivity. It can be operated at good field speed of 4 to 6 miles per hour. By combining five or more trips, the grower greatly increases his total output per acre in a production time unit such as a day in comparison to wider implements in single passes.

The Rip-Stip System is mainly suitable for soils with compaction problems. In case of acreage with and without compaction problems, the shanks can be easily raised where ripping under the row is not necessary. A bedder attachment can easily be placed behind the Rowripper in case some farmers wish to rip and bed.



This one-trip method of preparing and planting the soil is thought to be one way farmers can in-

crease yield while keeping field operations costs down.

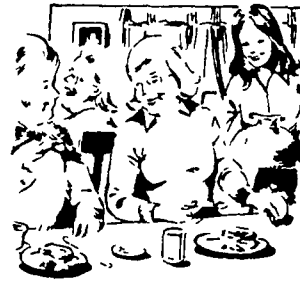
When considering horsepower requirement it is advised to have 150 horsepower available for four row units and up to 200 for six row units. This depends upon soil circumstances, etc. Although this may seem high, it should be considered that five trips are combined in one and that at 4 to 6 miles per hour, the total capacity far exceeds that of the total combination of individual trips by other implements. With the RIP-STIP System the grower has greater flexibility because what he has done during a given day does not have to be redone as is the case often when heavy rain occurs after discing, etc. The risk of not incorporating chemicals soon enough is totally eliminated, as well. A 20 per cent crop difference was even observed in one test supervised by a county agent.

Lely specializes in systemized farming, therefore, it is able to offer high capacity, well matched systems. If the farmer has the tractor and the planter, Lely has the rest available

and will warrant it. Many patents have been granted and others are pending on

the components or combinations. Lely is conducting field demonstrations through its authorized dealers with the complete Lely Rip-Stip System.

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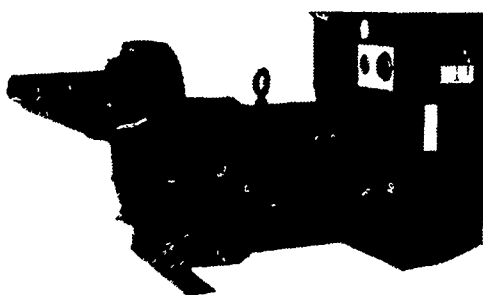


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