



BUFFALO **ALL-FLEX[®]** **TILL PLANTER**



Buffalo[®]

TILL PLANT SYSTEM





HOW BUFFALO IS BETTER

The Buffalo All-Flex Till Planter is the original conservation tillage machine. Many other manufacturers are now marketing a reduced tillage planter under one name or another, but they do not offer the advantages of the Buffalo All-Flex Till Planter and the Buffalo Till Plant System. Save time, fuel, and

money with the Buffalo Till Plant System by eliminating plowing, disking and many other operations. With the residue left on top of the soil, wind erosion, run-off, and evaporation are reduced. All this savings can mean only one thing — more profit per acre!

Less power is required to operate a Buffalo All-Flex Till Planter because you do not have to move as much soil. The average horsepower requirement for a Buffalo All-Flex Till Planter is only about 10 hp per row.

Buffalo offers efficient design, quality construction, and practical operation in planting any row crop.

STABILIZING DISK

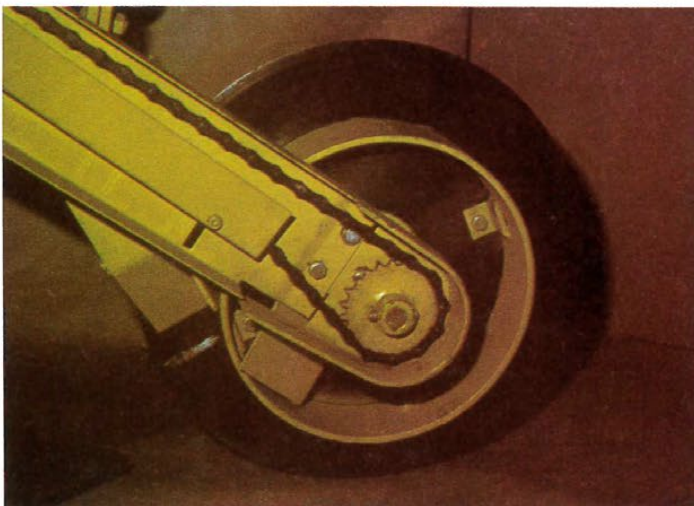
slices through sod or stalks maintaining sure, even tracking of each row unit. Wide depth control band assures uniform penetration. Regreaseable triple lip seal bearings keep dust out for longer trouble-free operation. Depth band in conjunction with the stabilizing disk provide direct drive to hopper for precise, uniform seed drop. Spring-tensioned hardwood slide keeps roller chain tight. Roller chain drive lasts longer with less trouble and less adjustment.

SWEEP

has 7-degree pitch for proper depth, clears a smooth wide planting area for the planter shoe. Sweep available in 10" or 14" widths.

TRASH GUARDS

push stalks and roots aside and keep the residue from falling back into the row.



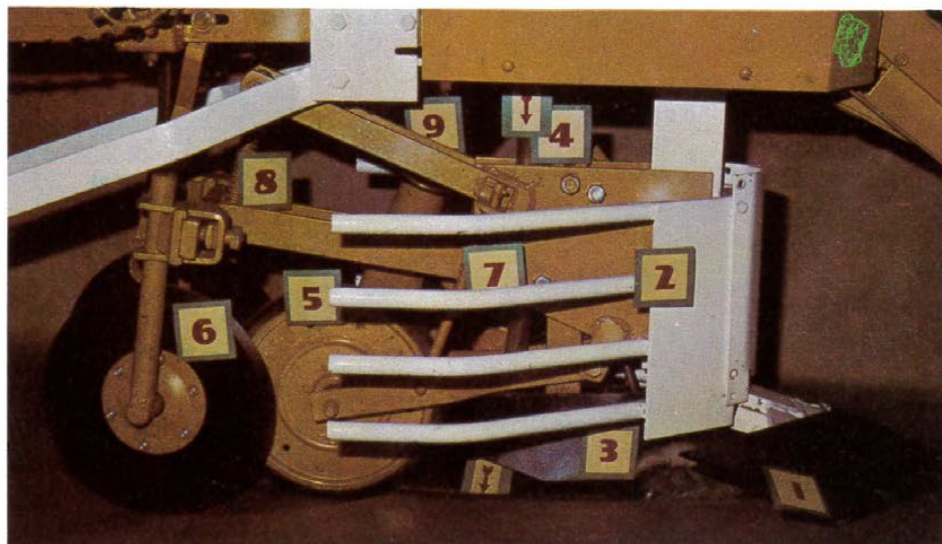
1) SWEEP. 2) TRASH GUARDS. 3) PATENTED PLANTER SHOE is our own exclusive design. It runs behind the sweep and cuts and forms a smooth narrow slot for the seed, just wide enough for the press wheel. The shoe is designed to place the seed at the correct depth for ideal germination.

Special design of the planter shoe allows the forming bar to be replaced without replacing the entire shoe. Thus reducing maintenance costs.

A V-type forming bar is available if desired instead of the standard rounded forming bar.

4) PLASTIC SEED TUBE — Our special small diameter plastic seed tube eliminates chatter and scatter of the seed . . . unexcelled for even, accurate seed placement. Arrows show path of seed.

5) ZERO-PRESSURE PRESSWHEEL . . . 1" x 10" wheel presses the seed in firm contact with the soil. The seed is thus surrounded with firm, moist soil — ideal for fast germination.

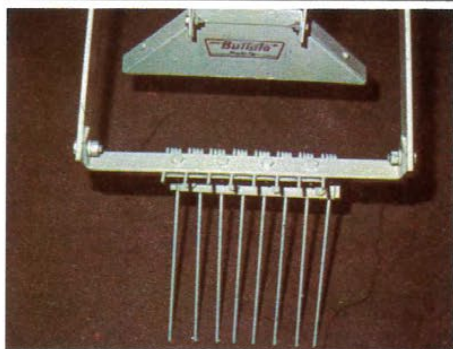


6) COVERING DISKS are adjustable to throw a light cover of soil over the seed. Easily adjusted in the field to cover the seed as much or as little as you please.

7) SPRING TENSION CONTROL on press wheel maintains uniform, constant pressure regardless of depth of planting.

8) ADJUSTABLE SPRING TENSION on covering disks keeps them in firm contact with the soil for uniform covering.

9) GRANULAR FERTILIZER TUBE — Dry fertilizer is deposited in its own furrow 2 1/2" to the side of the seed to help the young plant get off to a good start.

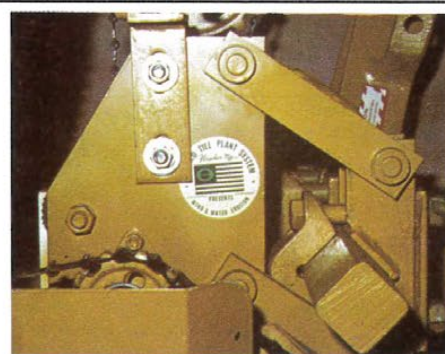


TINE INCORPORATOR — A new feature . . . works behind each row of the planter to incorporate insecticide, herbicide, or both, into the soil, reduces water and wind erosion of materials. Plus, the tine incorporator reduces air pockets and helps to maintain a uniform soil cover over the seed which is especially important where soil types vary throughout the field.



LIQUID FERTILIZER SHOE places and seals the liquid fertilizer in a groove about 1" below the seed. A stainless steel pipe directs the fertilizer through the shoe and out behind the knife of the shoe. Self-closing ribs on the forming bar pull soil in over the liquid fertilizer to seal it before the seed drops into place. The layer of soil between the seed and the liquid fertilizer protects the seed from damage caused by direct contact with the fertilizer.

Like the regular planter shoe, the liquid shoe allows the forming bar to be replaced without replacing the entire shoe.



ALL-FLEX® DESIGN — Another innovation on the Buffalo Till Planter. Individual row units are mounted on the tool bar so they can flex as much as 8" to conform to the slope of the land. Each row unit controls its own depth for uniform results on hillsides, over terraces, and on irregular or rocky ground.

1) & 2) **HERBICIDE-INSECTICIDE ATTACHMENT**—polyethylene boxes with complete assembly for metering insecticide and/or herbicide. Feed cup assembly has all plastic parts for maximum resistance to corrosion. Applicators apply the same amount, regardless of speed. You save time on adjustments.

3) **SEED BOX** holds a bushel of seed corn. Made of polyethylene for added protection against rust and corrosion.

4) **GRANULAR FERTILIZER ATTACHMENT** — large, fiberglass box holds over 100 pounds of granular fertilizer. Disk openers have sealed roller bearings.

MINIMUM UPKEEP & MAINTENANCE — Simplicity of design means fewer moving parts to wear out . . . fewer grease points to worry about. Most moving parts are protected by sealed ball bearings . . . you can service the rest in 5 minutes or less.



The Buffalo Till Plant System

Four Operations from Start to Finish

The Buffalo Till Plant System was designed to save time and money in planting any row crop, whether it be corn, beans, sorghum. In nearly 20 years of continued development and improvement, the Buffalo Till Planter has remained the leader in the field. In test after test, Buffalo has a proven record of lower production costs at no sacrifice in yields. From start to finish, the Buffalo Till Plant System needs only four operations . . . four times over the field:

1. Cut Stalks
2. Plant
3. Cultivate
4. Harvest

The Ridge is the Key

You plant on the old ridge and the ridge is the key to success in the Till Plant System. The ridge is the seedbed and once you have established your ridges, you can maintain them year after year with no extra operations . . . no further seedbed preparation is required.

Why Plant on the Ridge?

Simply because it's the ideal place to plant. During the winter, in a properly ridged field, trash and residue fall off the ridges and collect between the rows. The ridge remains high and clear, so, when spring comes, the ridge warms up first; while temperatures remain 10-12 degrees cooler under the cover of residue between the rows. This means you can plant earlier on the ridge — often 7-10 days earlier — and tests show in most years early planting pays off.

There is another advantage. Since the soil is not worked before planting, the moisture stays where you need it. This is particularly important in dry years. When the Buffalo All-Flex Till Planter sweeps off the top of the ridge it makes a moist, mellow seedbed for quick germination and fast starts.

Finally, there is an advantage in weed control. As the sweep cleans off the top of the ridge, it pushes the residue and weed seeds into the valleys between. This leaves the weeds between the rows where they are easily controlled either by cultivation or with herbicide.

How About Soil Compaction?

Soil compaction is not a problem. The natural weathering process of freezing and thawing, wetting and drying are constantly at work during winter and spring. The result is mellow, friable soil — ideal for a seedbed.



Why Leave the Residue on Top?

When crop residues are left on top, organic matter breaks down much more rapidly into beneficial soil components. In addition, the residue helps prevent wind and water erosion and reduces moisture loss from the soil due to evaporation. As an added bonus, the residue between the rows keeps the soil cooler. Since the weed seeds are between the rows, it means a slower start for weeds.

What About Disease and Insects?

Insects and diseases are no greater a threat than they are with conventional systems. In fact, since the till-planted crop gets an early, vigorous start it is usually in better shape to withstand disease and insects when they become a threat.

Why One Cultivation?

Actually, no cultivations are required if weeds are not a problem. However, cultivation is the ideal time to build up ridges for next year's crop. Set disk hillers to throw soil into the row to leave center clean and build a good ridge for planting next year's crop. The Buffalo All-Flex Cultivator is the ideal machine to accomplish this operation. Those that cultivate twice throw out the first time over and throw in the second to build the ridge.

Doesn't the Soil Need to be Worked?

Working the soil accomplishes many unnecessary results. It takes the weed seeds from the top of the ground and plants them nicely in the soil. It stirs up the soil so it will dry out faster. It requires more man hours when labor is in short supply. It compacts the soil. It requires more fuel and sooner equipment repair and maintenance. Tests have proven that yields are not affected by the amount of "working" the soil gets.

You'll find that the Buffalo Till Plant System will produce yields as good as or better than conventional systems. In years, where moisture is short, you'll get bigger yields due to more efficient use of moisture. And you'll find the fields smoother in the fall for easier harvest because crop residues help keep soil in place.



Plant Directly in Small Grain Stubble, Pasture, even Alfalfa Sod with the Buffalo Slot Shoe Attachment

Add to the versatility of your Buffalo All-Flex Till Planter with the Slot Shoe Conversion Kit. The conversion involves simply replacing the till planter's sweep, trash guards, planter shoe, and main beam with the special slot planter shoe and mounting bracket. So, the basic quality features of the planter remain intact.

Basically, till planting and slot planting differ only in the width of the seedbed which each prepares. Till planting clears an area 10" or 14" wide (depending on the size of sweep) before planting the seed in its own narrow furrow in the center of this area. Whereas, slot planting only opens about a 1 to 2-inch furrow in the soil into which the seed is planted.

With the Buffalo Slot Shoe Attachment, the crop is planted with a minimum of operations and a minimum of soil disturbance. Fewer operations means the crop can get planted sooner, especially important when double cropping. Less soil disturbance means erosion and moisture loss are greatly reduced. And, you save fuel and labor, too.

Generally, first, the field is sprayed with foliage-killing herbicides. Then, the field is planted. Stabilizing disks slice through sod or stubble maintaining sure, even tracking of each row unit. The slot shoe opens a narrow slot in the soil where the seed is placed. The narrow zero-pressure tire presses the seed in firm contact with the soil. Adjustable covering disks throw a light cover of soil over the seed.

All-Flex design allows individual row units to flex as much as 8 inches to conform to the terrain. Each row unit controls its own depth for

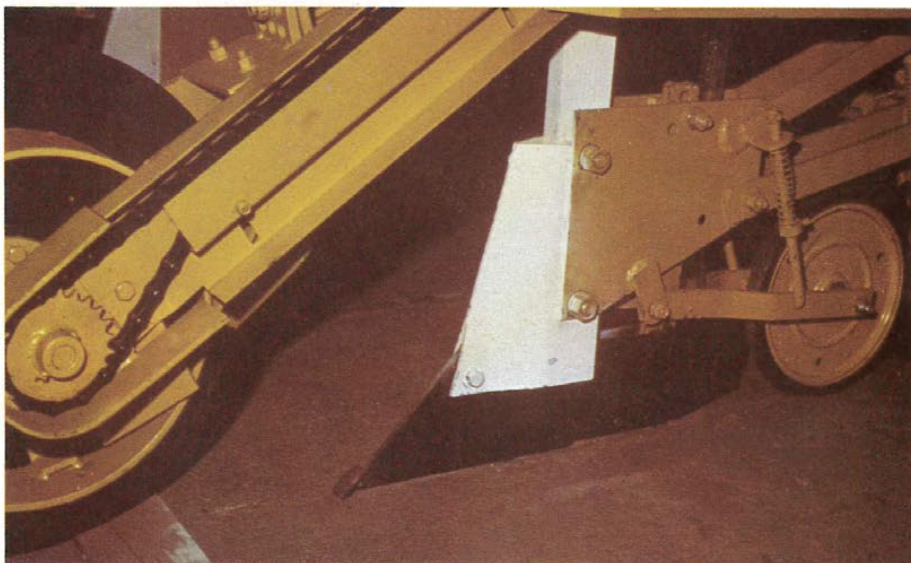
uniform results on hillsides, over terraces, and on irregular or rocky ground.

Whether planting directly in sod or double cropping in small grain stubble, the Buffalo Slot Shoe Attachment can produce yields comparable with conventional systems. And you save at least two operations, plus fuel and labor!

WITH THE SLOT SHOE ATTACHMENT FOR YOUR BUFFALO ALL-FLEX TILL PLANTER, YOU CAN CHOOSE THE PLANTING METHOD THAT BEST SUITS THE CONDITIONS. Plus, you can change the planting method when conditions change. For example, many use the till planter in early spring to plant on the ridge;

then, they switch to the slot shoe later on for double cropping in small grain stubble. And all with the same planter!

But, remember the till planter or the slot shoe are not limited to a specific set of conditions. Either can be used to plant on ridges or to surface plant, etc. The choice is yours. With the Slot Shoe Attachment, the planter is adjustable in row spacing from 20" to 40". For those interested only in slot planting, the Buffalo Planter may be purchased as a Slot Planter. Then, if you later decide to do some till planting also, you simply purchase the till plant conversion of sweep, trash guards, planter shoe, and main beam.



The Buffalo All-Flex[®] Till Planter... a Planter for All Systems

The Buffalo All-Flex Till Planter is perhaps the most versatile planter ever developed. With a minimum of adjustment it can also be a slot planter; a surface planter, or a lister. Plant anyway you prefer — you'll get the same ease of operation, accurate seed drop and placement; and the same trouble-free performance.

Plant corn, beans, sorghum, cotton or any row crop; plant under any system — Buffalo can handle it.

The Buffalo can do what other planters do, but they can't do what Buffalo does. Ridge planting, zero tillage, no plow — whatever you call it — the Buffalo All-Flex Till Planter is the machine to do the job. It's the original conservation tillage planter... the first and still the best machine to reduce tillage operations and maintain equal or better yields.

Here are some figures that show how you can save when you use the Buffalo Till Plant System:

CONVENTIONAL PLANT Operations

| | gal/acre |
|---------------|----------|
| Chop Stalks | .80 |
| Disk | .50 |
| Plow | 1.52 |
| Disk | .50 |
| Harrow | .44 |
| Plant | .32 |
| Rotary Hoe | .32 |
| Cultivate (2) | .52 |
| Combine | .69 |
| | 5.61 |

BUFFALO TILL PLANT Operations

| | gal/acre |
|---------------|----------|
| Chop Stalks | .80 |
| Tillage Plant | .54 |
| Cultivate (2) | .52 |
| Combine | .69 |
| | 2.55 |

BUFFALO SLOT PLANT Operations

| | gal/acre |
|-----------------|----------|
| Spray (pasture) | .30 |
| Plant | .32 |
| Cultivate (2) | .82 |
| Combine | .69 |
| | 2.13 |



Stalks and residue are no problem. The Buffalo pushes them between the rows where they will decay faster, reduce wind and water erosion. A Pull-Type Kit is available to convert the planter hitch from a three-point to a pull-type.



The Buffalo All-Flex Till Planter is available in 2, 4, 6, 8, and 12 row units with row widths from 28" to 40". 8 and 12 row units are available on folding toolbars. Buffalo Hydraulic Markers are made for mounting on the toolbar of your till planter. Literature is available with complete details.



The Buffalo All-Flex Cultivator is the ideal companion to your All-Flex Planter. There's no better cultivator on the market. Literature is available with complete details.

Schaffert
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