

# JOHN DEERE *Combination* RAKER BAR-CYLINDER HAY LOADER



**When you buy John Deere  
Implements you are sure  
of prompt repair service  
during their long life.**

# Gets All the Clean Hay



## The only loader with floating cylinder and raker-bar elevation

**I**N its advanced design and sturdy all-steel construction, in its matchless performance, light draft, perfect balance, big capacity, and durability, the John Deere Combination Raker Bar-Cylinder Loader stands out conspicuously as the most efficient and dependable loader of its type.

Recent improvements make it an even better loader

than formerly, although the basic principles of construction responsible for the faultless work of this loader under all conditions have not been disturbed.

There's extra value built into every part of this John Deere Loader, exclusive John Deere features that give the machine many advantages over the ordinary type of loader.



Working with a John Deere Raker Bar-Cylinder Loader in heavy alfalfa.

### **Full-Floating Gathering Cylinder**

This is the only loader that has the full-floating gathering cylinder used in combination with the raker-bar elevation. The floating cylinder is not a new idea on a John Deere loader. This feature was first introduced 45 years ago on the John Deere Double-Cylinder Loader and, since then, has been largely responsible for the success of John Deere Loaders. It is especially valuable when the loader is used with tractor. Because the flexibly-mounted cylinder floats, it automatically adjusts itself to the uneven ground surfaces and gets all the clean hay regardless of how rough the field may be. Once the cylinder is adjusted for the volume of hay to be gathered, it isn't necessary to make further adjustments in the field to take care of variations in the ground surface—the self-adjusting spring-mounted cylinder takes care of that. No time is wasted by the tractor operator in getting off and on the tractor to make adjustments in the field, as he would if the cylinder were rigidly mounted. The result is better work and cleaner raking without the teeth digging in.

### **Has Three-Point Suspension**

This as well as other John Deere Loaders has the three-point suspension—the frame is supported at three points—distributing the entire weight on the two main wheels and the pivoting forecarriage. This type of construction affords perfect balance, reduces the possibility of side-tipping in heavy winds, and adds years to the life of the loader. The twist and strain placed on the loader when working in rough fields or when crossing ditches are not thrown on the body of the loader, as happens when the weight is mounted solidly on the ground wheels. With the John Deere, all shocks and jolts in rough fields are absorbed by the flexible pivoting foretruck—there is no twist or torsion—the deck does not lose its shape and become wobbly. With the rigid type of construction, the entire loader is subjected to shock and strain and twist which result in faulty performance and cause wear and tear that shorten the life of the loader.

### **Pivoting Foretruck a Feature**

Use of the pivoting foretruck makes the loader a self-contained unit—its good work is not affected by

*(Continued on page 6)*

# JOHN DEERE COMBINATOR RAKER BAR-CYLINDER HAY

**H**ERE is why the John Deere does better work, gives more years of trouble-free service, is lighter draft, better balanced, more field-worthy, more dependable in rough, irregular fields; why it rakes cleaner and gives you a better quality of hay:

1. It has the three-point mounting—the weight is distributed on the two main wheels and the two-wheeled pivoting forecarriage. This construction takes the strain off the loader body and prevents twisting of the deck.
2. The pivoting forecarriage permits the gathering cylinder to maintain its proper relation to the ground and rake clean in rough, uneven fields—it eliminates side sway.
3. The pivoting forecarriage with swinging hitch makes the loader easy to couple to any wagon, regardless of height—no lifting; no maneuvering—and you get a closer hook-up.
4. Fewer and slower-moving working parts are a factor in the saving of valuable foliage, insuring a better quality of hay.
5. Heavy, high-carbon steel crankshaft has a much slower motion than that of the ordinary loader. Because of its great strength, the John Deere crankshaft does not require a center bearing.
6. The raker-bar action is smooth and slow. This advantage, together with the easy incline of the deck and the fact that the corrugations of the deck run in the same direction that the hay travels, reduces friction and saves the leaves, resulting in lighter draft and a better grade of hay.
7. Adjustments on the John Deere are fewer and simpler—no wrenches are required. Height of the rear cylinder is easily adjusted by means of two hand nuts—while loader is working, if necessary; no heavy lifting.
8. The hinged apron can be lowered to a horizontal position when starting a load, and raised as the load is built up.
9. The John Deere delivers the hay farther forward on the rack, first, because of the hinged apron, and, second, because it can be coupled closer to the wagon due to the flexible hitch on the forecarriage and the absence of brace rods on the apron.



QUALITY  
FARM  
EQUIPMENT  
SINCE  
1837

# ON AY LOADER

**There are more Good,  
Sound Values built  
into the John Deere  
than in any other loader  
of its type.**



the travel of the wagon.

The foretruck makes the loader easier to hitch to the wagon. The swinging hitch link carrying the coupling hook enables you to attach the loader to any height of wagon without adjustments. Because the hitch fastens to the rear end of the rack instead of to the axle, the distance between the rack and loader is always correct. The hitch is adjustable for a close hook-up, and the high-arched axle of the truck gives plenty of clearance.

### **Quick-Adjustable Hitch**

It isn't necessary to lift the weight of any part of the loader or maneuver the wagon in making the coupling. A boy can do the job in a jiffy. The loader can be uncoupled at any time by the man on the load. This is done by pulling a rope. The loader stops at once, but stands erect in working position. When the loader is ready to be stored, the truck can be removed.

### **Fewer, Slower-Moving Parts**

The John Deere Loader has fewer and sturdier working parts, and all are slow-moving. The raker-bar action is the slowest to be found on any loader of its type. This has many important advantages: it reduces shattering of the leaves, lessens wear and tear on the loader, keeps down maintenance costs, and adds years to the life of the loader. A valuable aid in getting easier elevation with the least amount of raker-bar action is the easy angle of the deck, which is approximately five degrees less than that of other loaders.

### **Six Push-Bars; Four Tooth Bars**

There are only six push-bars, each clipped with a series of double spring steel teeth and two steel spike teeth on the lower end that grab the hay and elevate it without any slippage.

The cylinder has four tooth bars, each having eighteen strong spring steel teeth. Each row of teeth rakes the ground every 15-7/8 inches of the loader's travel. The 65-inch cylinder rakes the full width of the deck.

Long-wearing chilled cam and an improved type of cam followers hold the four rows of teeth at the correct angle with relation to one another so as to insure proper contact with the hay at all times for thorough raking and ease in pulling out.



Showing detail of the quick-adjustable hitch on the pivoting foretruck.

### **No Wrapping—Gets Short Hay**

Seventeen strippers prevent wrapping of long hay on the gathering cylinder, and insure clean work in short hay. This is one reason why the John Deere does a good job in loading from either the swath or windrow in any kind of hay.

Both the right- and left-hand floating guards, which are of improved design, have shields which keep out chaff and dirt, and prevent winding.



### Make Hay the John Deere Way

Rake your hay into loose, fluffy windrows with a John Deere Side-Delivery Rake—leaves inside; stems outside—and let it air-cure, Nature's way. The moisture in the leaves is reduced by the air circulating through the loose windrows—the hay is air-cured uniformly, not sun-burned. The foliage clings to the stems and retains its rich, green color. The result is a better grade of hay at a substantial saving in time, labor and money.

But, remember, that the John Deere is the only side-delivery rake having these four major features which are essential in making hay the John Deere way: **floating cylinder, universal joint drive, curved teeth, and inclined frame.**

This rake and the John Deere Raker Bar-Cylinder Loader are two of the most profitable hay machines you can own. They eliminate the hard, dusty job of pitching hay onto the wagon, they save cocking, speed up operations, and insure a high quality of lealy hay.

Be sure to see these and other John Deere hay machines at your John Deere dealer's.

### Tough High-Carbon Steel Shaft

The heavy crank shaft is made of tough high-carbon steel. It has the strength and long-wearing qualities to withstand the punishment under all conditions without the necessity of using a center bearing.

Height of the cylinder can be easily adjusted by means of screw cranks—while the loader is in motion, if necessary.

All in all, the John Deere Combination Raker Bar-Cylinder Loader is everything a loader should be—a strong, big-capacity, light draft, clean-raking loader that does better work in any kind of hay, gets the hay up in better shape, and makes money for you every day you use it.

### No Worry About Breakage

*Ralph Knop, Atlantic, Iowa, Says:*

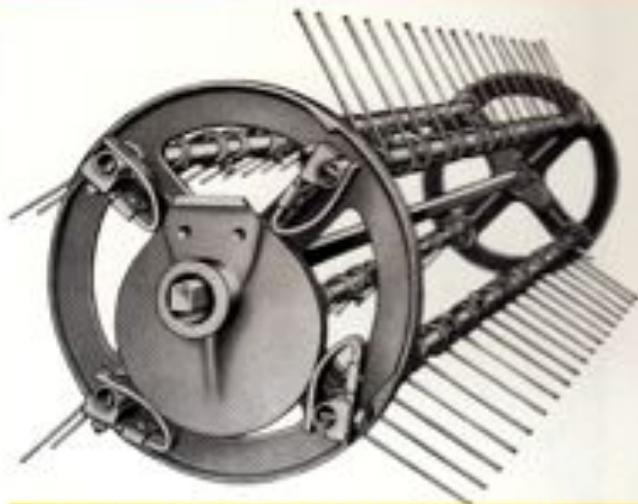
*"In regard to my John Deere Raker Bar-Cylinder hay loader. What I like most about the John Deere loader is the full floating cylinder. We could go through ditches without worrying about breaking or bending the cylinder. It really does save all the leaves because of the slow motion and tight bottom. It is lighter weight than most loaders, but is built stronger. It is lighter in weight because it has fewer gears, wheels, and chains than most loaders. We have used it on alfalfa and oats hay and must say we are very pleased with the way it puts the hay to the front of the wagon."*

## Saves the Leaves

W. D. Shelton, Osceola, Ark., says:

"I like most about the loader the way it cleans the hay and lays it on the wagon. It also enables me to save the leaves of all hay. The hay operations are cut to one third. It cuts the labor and expense to one half. I like the way it handles hay in rough ground because of its floating cylinder. It is easy to pull and rakes hay clean in hilly ground."

"It is built plenty strong and I haven't been out any expenses. By the drop plate on the head of the loader, you can place the hay anywhere on the wagon. I have tried the loader in pea vines and used it successfully."



End view of gathering cylinder showing how the cam followers hold the tooth bars at the correct angle to one another to insure proper contact with the hay and ease in pulling out.

## A One-Man Loader

Darrell Gallea, Medford, Minn., says:

"The feature I like best about my John Deere Raker Bar-Cylinder Loader is its sturdy build, yet it is light and easy to handle."

If the hay is too dry, the leaves are saved and carried up with the rest of the hay, as the tight-fitting bottom doesn't allow the leaves to drop through.

It speeds up haying operations because of its lightness, and can be taken from one field to another at a reasonable speed because of its sturdiness.

With my John Deere loader, I don't need to hire as much help, as one man can load hay and yet have a load that is easier to unload, thereby cutting down production costs.

Rough fields in no way hinder the working of the John Deere Loader.

The John Deere does its work just as well on hilly ground as on level, yet there is no extra pull going up hills. I have had no expense for repairs and believe I won't for a long time.

The loader delivers the hay on the wagon far enough forward so that one man has no trouble handling it.

I have used my loader for other crops such as soy beans, and find it just as effective."



Rear view of loader showing solid steel deck, double-teeth on push-bars, strippers, and other features.

# JOHN DEERE QUALITY EQUIPMENT

for  
Your Farming  
Operations



## Tractors

Eleven sizes and styles, including standard-tread tractors in one-, two-, three-, and four-ply sizes; adjustable tread, general purpose tractors in two- and four-row sizes; grass and orchard tractors in one-, and two-ply sizes; and garden tractors.

## Plows

All sizes and types for use with horses or tractor. Moldboard types equipped with genuine



John Deere steel orcharded bottoms. Disk plows; moldboarders; listing plows. Disk Tillage in sizes for all tractors.



## Harvesting Machinery

Combines and threshers. Grain binders, corn binders, rice binders, for

horses or tractor. Power-driven one- and two-row men pickers. Knapsack harvester. Kafir header. Beet slicer. Cotton harvesters. Grain shock sweeps.



## Harrow

Single- and double-action disk types for horses or tractor. Special disk harrows for orchard, vineyard, and cover crop work. Spike-tooth harrows; spring-tooth harrows, and spring-tooth weed destroyers. Stalk cutters, one- and two-row.

## Wagons, Trucks, Trailers

Furnished in different types and sizes to meet all farm needs.

## Grain Elevators

Portable and stationary types for ear corn and small grains, portable type for small grains only.

## Listers

One-, two-, and three-row for cotton, corn, and other crops. Tractor- and horse-drawn.

## Manure Spreaders

Horse-drawn and power-driven. Also lime-spreading attachment.



John Deere  
Gave to the World  
the Steel Plow  
in 1837



## Hay Machinery

Enclosed-gear horse

mowers; tractor mowers; power-driven mowers; side-delivery rakes for horse and tractor; single- and double-cylinder and combination rakes; bar-cylinder loaders; over-shot stackers (a sweep rake); sickle rakes; motor presses; pull-power presses; windrow pick-up presses.

## Potato Machinery

One- and two-row planters, with or without fertilizer attachment. Two-row tractor-drive diggers. One-row diggers—ground engine and tractor-drive. Hoop-and-hilling attachments. Fertilizer-distributing seed cutters.



## Cultivators

One-, two-, four-, and six-row for surface-planted crops; one-, two-, three-, four-, and five-row for listed crops. Field and orchard cultivators with stiff or spring teeth for horses or tractor. M-



falls cultivators. Special two-, three-, and four-row beet and bean cultivators. Deep tilling cultivators. Rotary hoes. Rod weathers.

## Engines

A line of enclosed engines that oil themselves, in a variety of sizes, up to 42-H.P. Pump jacks.

## Corn Shellers

For hand and power use. Spring and cylinder types.

## Planters

One-, two-, three-, and four-row sizes for corn, cotton, peanuts, beets, beans and other seeds. Walking and riding types. With or without fertilizer attachment. Special 2-, 3-, 4-, and 6-row planters for beets, beans, etc.

## Grain Drills

With fluted furrow-foot or double-run foot. Choice of furrow openers. One-horse size to 24-foot size. Fertilizer-grain drills. List-er drills. Broadcasters, line and fertilizer distributors. Grass seed drills, press drills, plow press drill, deep furrow drills, big box sowers and endgate seeders.

