



IMPLEMENTS FOR DRAFT FARMING



Dear Farming Friends,

White Horse Machine is located in the heart of the Lancaster County farming community and continues as a family business since 1974. We strive to maintain our original goal: to provide equipment and services for the local farming community. The business has expanded to a broad range of equipment and hardware related product lines. We service walk-in customers in our retail store and ship products daily via UPS. Even though our focus is on our local community, White Horse Machine farm equipment has been widely accepted. Presently, there are dealers in 16 states and Canada.

Due to the ever changing and diverse farming practices, White Horse Machine recognized the need for changes in equipment as well. Our staff is dedicated to developing and manufacturing equipment that enables you to farm as efficiently and affordably as possible.

The latest developments in our plowing equipment were inspired by the fast growing organic farming and market gardening movements and our desire to support sustainable animal powered agriculture.

This catalog includes our latest product lines: the Leaf Spring Reset family of plows, and the Keystone series plow bottoms. These developments have taken horse drawn plowing to a new level of quality and efficiency. These plows handle well even while plowing in the most severe conditions.

We welcome you to visit our shop and our families as you have opportunity.

Thank you,

The Partners of White Horse Machine

Contact Info

Phone: 717-768-8313 Fax: 717-768-8568 122 White Horse Rd. Gap, PA 17527

Hours

Monday to Friday: 6:00 AM to 5:00 PM. Saturday: 7:00 AM to 12:00 PM.

Shipping

Shipping is F.O.B. Gap, PA. We ship daily UPS, truck freight, or you can pick up at our location in Gap, PA.

Warranty

Equipment is guaranteed by White Horse Machine for ONE YEAR after the date of purchase against defects in workmanship under normal operating conditions. This warranty does not extend beyond replacement or repair of defective parts. Parts will be F.O.B. White Horse Machine, Gap PA. White Horse Machine is not, and will not be responsible for any accident or otherwise personal injury or property damage resulting on or from equipment made by White Horse Machine.

Dealers

White Horse Machine has dealers in the locations listed below. Please call us for your local dealer. If there is not a dealer in your area we will service you directly.

United States

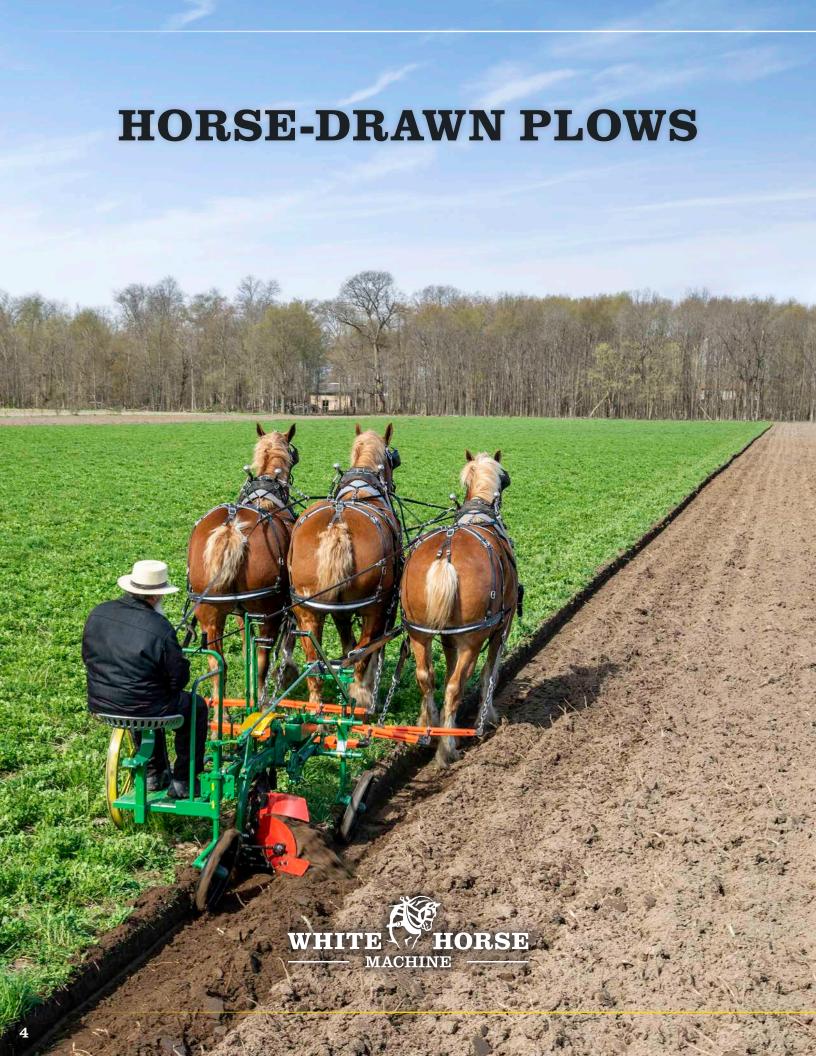
Colorado Minnesota Connecticut Maine Illinois New York Indiana North Carolina Iowa Ohio Kentucky Pennsylvania Maryland Utah Michigan Wisconsin

Canada Ontario





Leatspring	Plows
Reset	Introduction 5
	Gallery of Leaf Spring Plows6-7
	748 Freedom Plow8-9
	732 2-Way Sulky Plow 10-11
	725 Trailer Plow
	715 Sulky Plow
	712 Sulky Plow
	500 & 510 2-Bottom Plow 17
	Forecarts
	631 & 632 Hydraulic Forecarts 19
No. of the last of	607 Forecart20-21
	Torsion Axle Suspension
	Tillage Parts
	Plow Bottoms24-25
	Coulters and Skimmers
	Tillage Parts 27
$\cap \Omega$	Rope Eveners
1 V	Eveners
6 86 86 8	
	The second secon
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HOME OF THE ORIGINAL HORSEDRAWN

Leafspring Reset Plows



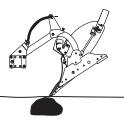
automatic reset system allows for non-stop plowing in rough or rocky conditions. The reset system consists of a multi-leaf spring which has its maximum force in

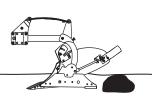
a slightly bowed position. Its force is reduced by 75% when fully activated. This allows the share to move upward over the rock and set itself in the proper angle to quickly reenter the ground and continue plowing. This system is ideal for horse drawn plows since it reduces the shock and impact to horses, equipment and operator.

Up to two extra leaves can be added to increase spring force to ensure that the bottom remains stable in deep plowing or extra hard conditions. Weights are available to help counter act the spring and may be needed when extra leaves are added.

How the **Leaf Spring** Reset Works







Pressure: 100%

Pressure: 75%

Pressure: 25%

Pressure: 100%



Meet the NEW model 748 Freedom Plow! True to it's name earned from farmers' feedback, this plow is recognized for delivering the highest plowing comfort ever for both operator and horses. The effortless control and maneuverability maximize plowing "freedom" and excel in acreage efficiency.

The arch cart concept was born from over 40 years of designing and manufacturing horse-drawn plows. The operator platform design safely positions the operator for excellent control of both plow and horses. The foot-activated clutch lift and rear turning wheel system allows the teamster hands-free driving, making it an ideal youngster's plow.

Due to it's compact size and excellent weight balance, the draft point is positioned for less side draft and results in a much easier draft.



The model #732 2-way sulky plow allows for plowing the same furrow in both directions, which eliminates dead furrows in the middle of field. This capability makes the model #732 a popular choice for produce farmers that do double cropping and narrow strip farming. It is also widely known as a hillside plow where continuous uphill plowing is necessary to reduce erosion.

Leaf Spring Reset Benefits

- Reduced strain on horses and operator
- Less maintenance on plows

- Reduces down-time in field
- Adjustable leaf spring pressure
- Leaf spring pressure reduces when activated



Leafspring Reset Family of Plows

The model #725 trailer plow design resembles the early model tractor plows which became popular as the use of forecarts and tandem hitches became standard practice in some areas where animal power is commonly used for farming.





Model #715 leaf spring reset, the first sulky plow in production that automatically resets over rocks. Ease of operation, maneuverability and safety were foremost in mind when designing this plow, making it the perfect choice for young boys and girls to get a hands-on experience of working the soil.





Due to it's compact size and excellent weight balance, the draft point is positioned for less side draft, resulting in a much easier draft.

The lever steering, which is connected to both front wheels, is an important feature for positioning the plow when entering or already in the furrow, as well as hillside plowing. The positioning cranks turn with ease and provide a full range of depth and tilt adjustments at consistent depths for shallow or deep plowing.

Benefits

Highly Maneuverable with the unique tongue and rear wheel connection. Allows for ultra sharp turning radiuses in tight spaces and end of fields.

Steering Lever is connected to both front wheels and conveniently located for operator to guide plow into the furrow, and handle any side to side corrections needed.

Easy Turning Hand Cranks provide full range depth and tilt adjustments.

The Leaf Spring Reset and the plow's full range of adjustments make this plow a good choice for the toughest rocky conditions. **Ground Driven Mechanical Clutch** lift gear is fully enclosed in oil, is foot pedal activated and will lift plow smoothly without lifting platform.

Spring-Loaded Coulter Skimmer is essential for weed control and trash coverage. The skimmer lifts the top edge of soil and turns it down into the bottom of the furrow. This effectively buries weed seed deep and below germination level.





- Convenient Steering Lever
- Adjustment Cranks
- Deluxe Seat with Torsion Suspension



- Lifting Foot Pedal
- Steering Lock Pedal



Precision Coulter Height and Angle Adjustment



748 Freedom

Standard Features

- Bottoms: Keystone #4, Keystone #5, OJD, Oliver
- 14" width plowing
- Leafspring reset
- Adjustable for 5, 6, 7 or 8 horses
- Spring cushioned hitch
- Mechanical lift clutch
- Right hand plow
- Weight bracket
- Coulter clamps
- Deluxe seat with torsion suspension
- Steel wheels
- Weight: 1,596 lbs.

Optional Features

- Spring loaded coulter
- Rigid coulter
- Coulter mounted skimmers
- Optional 12" or 16" plowing width (factory ordered)
- Cast aluminum seat with spring suspension
- 35 or 70 lb. weights
- Rubber wheels
- Packer hitch







732



The model #732 2-way sulky plow allows for plowing the same furrow in both directions, which eliminates dead furrows in the middle of field. This capability makes the model #732 a popular choice for produce farmers that do double cropping and narrow strip farming. It is also widely known as a hillside plow where continuous uphill plowing is necessary to reduce erosion.

This 2-way plow resembles several models of bygone eras and is built with improved features as well as construction. High-tensile steel is used at high stress areas such as the beams and axles. The leaf spring reset and roller bearing wheels contribute to longer service life with less downtime for the farmer. The foot activated clutch lift fully raises bottom out of the ground while in motion, keeping the operator's hands free for driving. Hand lever steers plow side to side for fine-tuning plow cut width.





Side movement for tongue with hand lever. Center and offset tongue positions for 2, 3, 4, 5 or 6 horses.



Full range draft adjustment with self-sliding spring hitch.



Deluxe seat (optional)



Foot activated wheel lift will fully raise bottom to a set position without using hand lever.

732 Leaf Spring 2-Way Sulky Plow

Standard Features

- Mechanical wheel lift
- Width adjustable to 12", 14" or 16"
- Adjustable tongue length with quick pin
- Center or offset tongue positions
- Spring cushioned hitch
- Tool box
- Coulter clamp
- Weight

Optional Features

- With or without Leaf Spring reset
- Keystone, Oliver or OJD bottoms
- Rigid coulters
- Spring loaded coulters
- Deluxe seat







725



The model #725 trailer plow design resembles the early model tractor plows which became popular as the use of forecarts and tandem hitches became standard practice in some areas where animal power is commonly used for farming.

Versatility and performance of the 725 make it a good choice for the serious farmer with many acres to cover, and is the first trailer plow in production with mechanical reset bottoms.

The model #725 plow along with the White Horse model #607 lever steering forecart are fully adjustable for straight line plowing with virtually no side draft.

The 607 forecart allows for four, five, and six abreast or 3 & 4, 3 & 3 and 4 & 4 tandem hitching. The 725 plow is most commonly pulled with a 3 & 3 tandem hitch.

Benefits

The leaf spring reset and the plows full range of adjustments makes this plow a good choice for the toughest rocky conditions. See page 4 for the advantages of the unique leaf spring reset design.

A stable and well balanced plow for tough sod and rocky conditions. The rear wheel locks in position when plowing but casters freely when the plow bottom is lifted.

Full range hand lever adjustments can be made while plow is in motion.

Low maintenance because high tensile steel, bushings with low friction wear bands and a lubricated mechanical clutch lift keep this plow in like new operation for acres and acres of plowing.

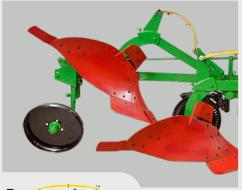
Ground driven mechanical clutch lift gear is fully enclosed in oil. It is activated by a gentle pull on the lever. The plow consistently lifts to high clearance even if set for deep plowing.



Ground driven mechanical clutch



Three 35 lb. weights mounted on standard bracket



Leafspring Reset in action!



725 Leaf Spring Trailer Plow

Standard Features

- Bottoms: Keystone #4, Keystone #5, OJD, Oliver
- 14" width plowing
- Leafspring reset
- Spring cushioned hitch
- Mechanical lift clutch
- Right hand plow
- Weight bracket
- Coulter clamps
- Weight: 1135 lb.
- Steel wheels

Optional Features

- Spring loaded coulter
- Rigid coulter
- Coulter mounted skimmers
- Optional 12" or 16" plowing width (factory ordered)
- Factory installed hydraulic lift assembly
- 35 or 70 lb. weights
- Rubber wheels
- Packer hitch









Model #715 leaf spring reset, the first sulky plow in production that automatically resets over rocks.

Ease of operation, maneuverability and safety were foremost in mind when designing this plow, making it the perfect choice for young boys and girls to get a hands-on experience of working the soil.

The optional bolt-on stand on platform adds safety, visibility and comfort for the operator.

Benefits

The single lift lever is spring and foot assisted and will easily and evenly lift both sides of plow. This dual action keeps the plow level while in or out of furrow.

The spring-cushioned draft hitch can be adjusted horizontally with a hand lever without stopping the plow. This makes it easy to maintain uniform furrows while plowing hillsides and contours.

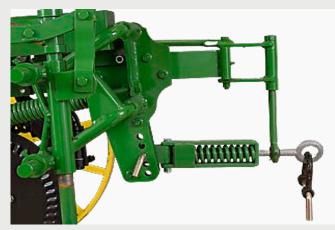
Hands-free steering allows rear wheel to caster. Ideal for sharp u-turns with less sliding.

Full range hitching adjustments for two or three abreast and 2 & 2 or 3 & 2 tandem hitch.

Easy moving single lever for leveling plows.

Weights for hard rocky conditions allow plow to remain stable while leaf spring is fully activated.

Enjoy smooth, easy lever movement because of the fully lubricated lift and long life wear points. The combination of high tensile steel, and low friction wear bands in the high stress pivot points results in less maintenance and keeps this plow in like new operation for acres and acres of plowing.



Standard spring cushioned draft hitch



Weights mounted on standard bracket



Advanced hands free steering

715 Leaf Spring Sulky Plow

Standard Features

- Bottoms Available: Keystone #4, Keystone #5, OJD, Oliver
- Adjustable plowing widths of 12", 14" or 16"
- Leaf spring reset
- Tongue and slide yoke
- Spring cushioned hitch
- Right hand
- Tool box
- Coulter clamp
- Weight: 670 lb.

Optional Features

- Spring Loaded Coulter Bolt-on Platform
- Rigid Coulter
- Coulter mounted skimmers
- Eveners
- Rigid Beam (no leaf spring reset)
- 35 or 70 lb. weights



Sam Rich from Arbington, CT plowing down an old pasture with a #4 Keystone bottom and skimmer. His team of percheron mares, Molly and Maude, take a break while dog Sidney looks on. Photo courtesy of Erika Marczak





Double spring hitch

The original White Horse plow is simple in design and easy to handle. This time tested plow has been a popular choice for over 35 years.

High tensile steel construction throughout.

Full range adjustments for 2, 3 or 2 and 2 tandem hitching.

Standard Features

- Bottoms Available: Keystone #4, Keystone #5, OJD, Oliver
- Spring cushioned hitch
- Spring assist lift
- Weight: 440 lbs.
- High tensile rigid beam
- Coulter clamp

Optional Features

- Right or left hand
- Rigid Coulter
- Tongue and yoke with bracket
- Coulter mounted skimmer
- Bracket for wooden tongue
- 4 horse offset evener





Showing #5 Keystone Sod Bottom with coulters & skimmers attached to 500 uni-frame & 631 forecart

510 2-Bottom Plow

Category 1, 3-point hitch plow is designed to mount on #500 Uni-frame. It has full range adjustments with turn buckles.

Double Pivot automatic reset beams have exceptionally high clearance over rocks.

Cylinder hydraulic pressure can be adjusted for various plowing conditions and is charged by the cart hydraulic system

Low maintenance high tensile steel.

Standard Features

- Bottoms: Keystone #4, Keystone #5, OJD, Oliver
- Double pivot trip action
- Hydraulic reset cylinders
- Hydraulic powered lift
- Category One 3-point hookup
- Right hand
- Uni-frame weight: 475 lbs.
- Plow weight: 500 lbs.

Optional Features

- Spring Loaded Coulter
- Rigid Coulter
- Coulter mounted skimmers



Minimum Till Shank with wing

520 Subsoiler

520 Subsoiler is designed for enhancing soil fertility by fracturing compacted areas allowing air and water to percolate. Useful in all tillage practices from conventional to no-till with minimal surface disturbance. Use wings for hilling or when residue coverage is desired.

Standard Features

- Double pivot trip action
- Hydraulic reset cylinders
- Hydraulic powered lift
- · High strength spring steel beam
- Category 1, 3 point hook up to the Uni-Frame
- · Adj. row width or single row

Optional Features

• Single or double shank #2144 wings



500 Uni-frame

A unique tool designed to be used with the White Horse Hydraulic Forecart that enables farmers to use any implement with a category 1 Three point hookup such as a scraper blade, subsoiler, plow and more.



FORECARTS



Lever 631 632 Hydraulic Steering

Hydraulic Forecarts



631 and 632 have a ground drive hydraulic pump that produces oil pressure to a desired level and is stored in an upright piston accumulator until needed to raise or lower equipment. This system is limited to hydraulic cylinders commonly used in horse-drawn implements such as plows, corn planters, drills, disks and mowers.

Full range adjustments for 4 or 6 abreast and tandem hitching in 3 and 3, 3 and 4, 4 and 4. Most commonly used with 3 and 4 tandem hitching.



Ground driven pump and accumulator system develops live hydraulics to operate cylinders on towed equipment. New is an improved, unique system to completely unload the hydraulic pump immediately after oil is recovered.



Standard Features

- Easy lever steering with fine notches and durable ball joints with grease fittings
- Adjustable draw bar hitch
- Easily adjustable 2 part tongue
- Choice of good used rubber tires or steel wheels
- Seat that adjusts from center to side angle
- 2 piece steel tongue easily offsets for 3 or 5 horses
- Pressure adjustable to 2,000 PSI
- Hand operated hydraulic pump with handle
- Weight: 715 lbs.
- Width: 59"

Optional Feature

• Hydraulic Steering (Model 632)



Convenient lever operated hydraulics with 2 double sets of quick couplers.



Auxiliary hand pump insures that you are never without hydraulics.



Standard hand pump with handle.





The 607 lever steering forecart is a popular Lancaster county forecart. It is designed for balance and full range adjustments for heavy duty application and quick change adjustments in various types of hitching and equipment.

Quick change tongue moves easily between 4 positions with one quick pin release.





Optional heavy-duty hydraulic brakes with foot pedal parking brake lock.



Optional torsion axle suspension provides a smooth ride and shock protection for implements and operator.



Single quick pin tongue offset

Standard Features

- Easy lever steering with fine notches and durable ball joints with grease fittings
- Adjustable draw bar hitch
- 2 piece tongue with yoke
- Adjustable implement seat that drops in center or left side. The 2 flush seat sockets leave no obstruction when seat is removed. The seat can be moved from center to side angle and swivels 360°.
- Safety railing Weight: 480 lbs.
- Tool box Width: 59"

Optional Features

- Choice of good used rubber tires or steel wheels
- Torsion axles
- Hydraulic brakes









Double quick coupler powered by single or double acting 12 Volt hydraulic pump (#2154)

Drop in bracket for pump assembly allows easily on/ off. Raise and lower your mower, corn planter, etc.





Torsion Axles





Benefits:

- Smooth ride for operator
- Extends the life of your equipment and bearing life
- Reduces broken spindles
- Reduces overall maintenance cost
- Easy Installation

Torsion suspension axles by White Horse Machine are an add-on option suited for new and used horse-drawn equipment. They can be fastened directly into existing axle shafts or clamped on depending on application. The increased operator comfort and life they add to implements makes them well worth the initial investment.

The outer axle consists of a square hollow tube with compressed rubbers in 4 corners. The solid square center axle connected to the spindle floats inside the rubber cushions. This eliminates the hard jolting from a solid steel ride. Vibration and bounce from the wheel rolling on the ground is deadened by the torsion cushions.

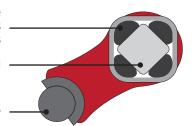
This technology has been used in heavy-duty trailer design for over 50 years and is now manufactured by White Horse Machine for forecarts, balers, and numerous other farm implements. We also custom manufacture off-road torsion axles to any specifications.

The Torsion Axle at Work

Vibration and bounce from the wheel rolling on the ground is deadened by the torsion cushions

Outer axle contains a solid steel inner axle and solid rubber torsion cushions

Inner axle is connected to the spindle



Tube Size	Lbs. pei Inch Capacity
2 1/8" —	60#
2 5/8" —	100#
3" —	— 200#
3 1/2" —	— 300#
3 7/8" —	— 400#





Clamp-on torsions, the quick fix for broken spindles.

Contact us for availability on the fit for your model.





#4Keystone Series



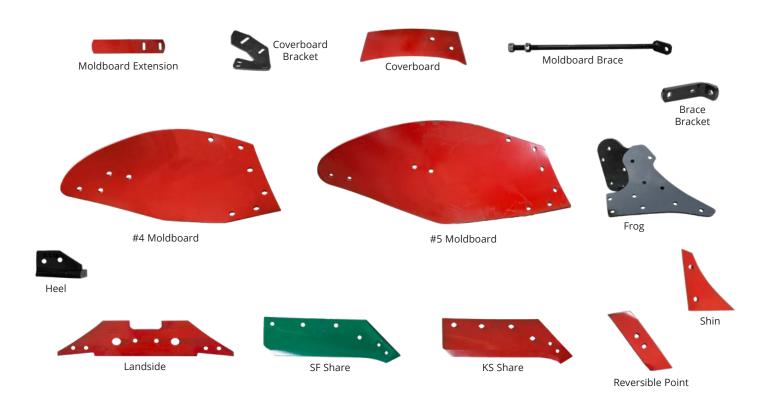
- All purpose sod bottom suitable for heavy or light soils
- Easy draft by gentle twisting of soil leaving an arched pulverized finish
- Variable plowing depth from 4" to 8"
- Ideal for shallow plowing
- Complete residue coverage with coulter and skimmer
- Less secondary tillage required
- Leaves arched pulverized finish, ideal for residue mixing with air and water
- Weight: 118 lb.

#5 Keystone Series



- #5 has similar character as #4 but will invert residue and trash to a full 180 degrees in shallow plowing
- Known for it's graceful ribbon style plowing
- · Wide clean furrow
- Designed for heavy sod or clay soils
- Weight: 131 lb.

White Horse plow bottoms can be ordered to match hole patterns for mounting on Oliver, John Deere, McCormick, Pioneer, KV and White Horse plows. Keystone bottom parts will interchange with KV bottoms.



#419 Oliver Bottom

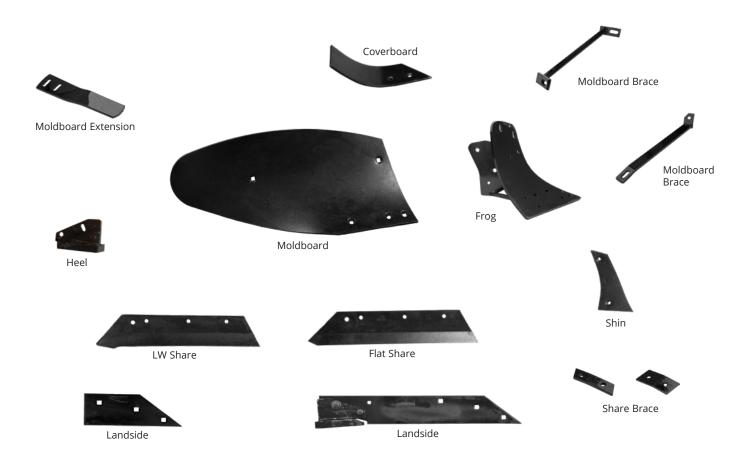


- Wide angle bottom designed for lighter limestone or sandy soils
- Sharp upward angle lifts soil higher, fully submerging residue leaving an even pulverized finish in corn stubble
- Not designed for grass, sod, or heavy soils
- Available with full or narrow cut shares
- Plow depth of 5" to 8"
- Weight: 101lb.

OJD Bottom



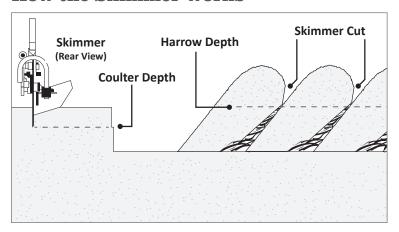
- Upward angle much like the Oliver bottom but not as wide moldboard angle
- Moldboard angle more gradual and less full bottomed makes for a better sod bottom
- Similar to #4 Keystone bottom in leaving residue 30 to 40 degrees vertical
- Plow depth of 5" to 8"
- Designed for heavy sod in lighter soils
- · Weight: 89 lb.







How the Skimmer Works



The skimmer cuts and turns a small furrow at the extreme landside edge of the furrow. This tool is essential for weed control and unwanted regrowth when plowing sod. The skimmer is best suited for cover crops and tall greens. The skimmer should cut about 2 inches deep and 4 inches wide and throw that soil into the furrow, burying the surface seeds or greens deep inside the furrow. When inverting tall grasses 12" or higher you may need a grass rod or a drag chain to have it completely covered.



17" Fluted Blade



17" Notched Blade



15" Notched Blade

Tillage Parts

Choose heat-treated for enduring performance!

Sweeps and Shovels























Sub Soiler Parts

Hilling Wing



Spring Harrow Parts





Wood Plow Handle

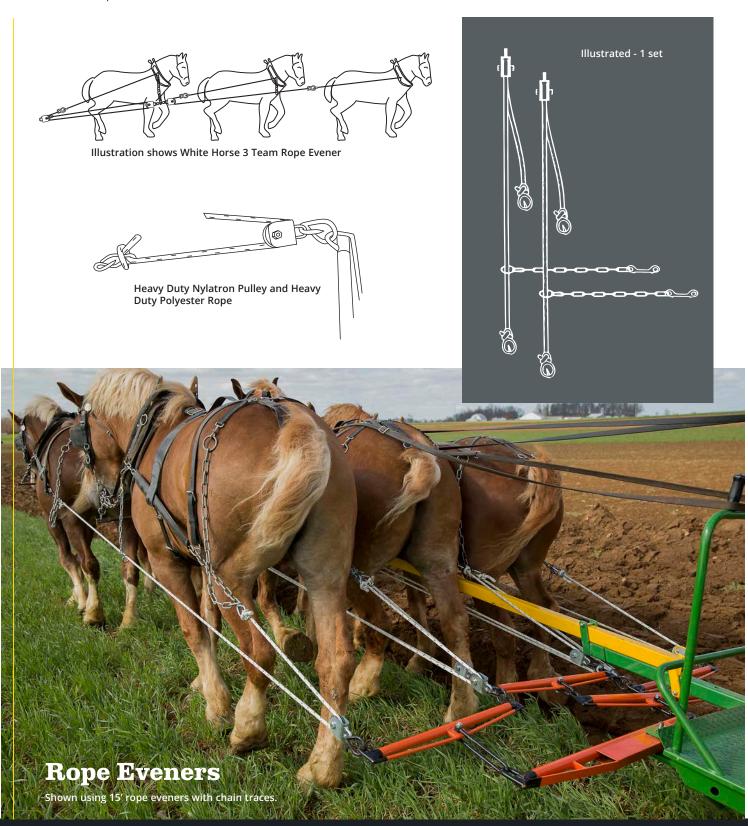






Tandem Hitch Rope Evener System

The Rope Evener System is constructed of the highest quality materials to ensure a long service life. The heavy polyester rope is light in weight yet unsurpassed in strength. The custom designed pulley is heavy duty Nylatron. The Rope Evener is available in either 15' or 12' sets of two. The illustrations below suggest the uses and effectiveness of this design. The ropes are standard with hooks, but available with snaps.



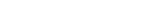
Evener Parts



Yoke w/ Slip Ring 40" - #6555











Clevis with Hook 5/8" - #6574 (Short) 5/8" - #6575 (Long)



Clevis 5/8" - #6570 (Short)

5/8" - #6571 (Long) 3/4" - #6572 (Short) 3/4" - #6573 (Long)



Yoke Bolt 5/8" - #6560 3/4" - #6565



Middle Ring 3/4" - #6582



Single Tree Clevis #6567



Double Tree Clevis #6568



Triple Tree Clevis #6569



5/8" x 5½" Hitch Pin #6564



Single Tree Hook #6581



1/2" x 5" Ring #6559



3/8" x 4" Ring #6558

Rope Evener Parts



Nylatron Pulley #6613



Hook #6614



Chain Assembly #6615



Pulley w/ Bracket #6611



White Horse Eveners

White Horse Steel Eveners are built with higher carbon steel at wear points for heavy duty use, but are still lightweight and flexible for easy handling from one application to another. All eveners are designed with bridge work to get maximum strength where it is needed without having extra weight and cost.

Neck yokes are reinforced steel construction and available with slip ring or eye bolts. Singletree hooks are designed to keep traces hooked while using, but remain easy to work with when hitching and unhitching.

All eveners are sold complete as shown. Individual components can only be ordered by using the numbers listed.



2 Horse Evener For Tongue Mount

34" - #6513 Evener Complete

34" - #6514 Bar Only

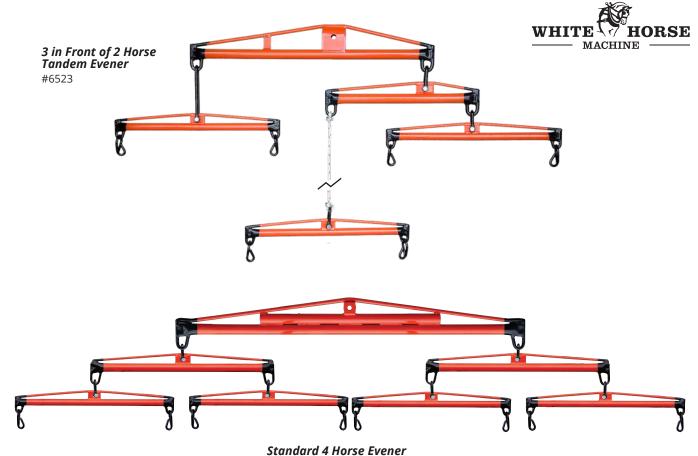
40" - #6515 Evener Complete

40" - #6516 Bar Only



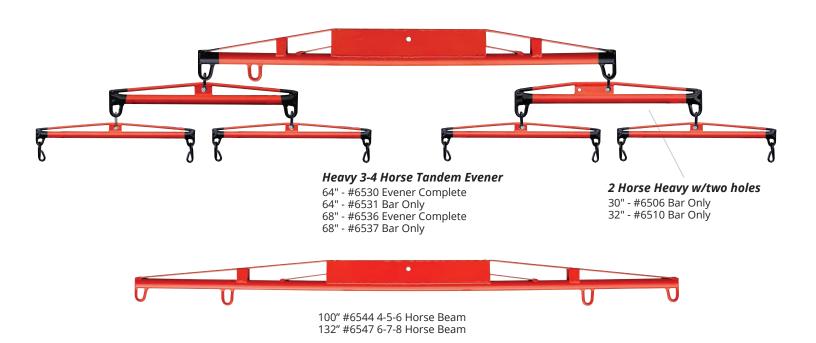






60" - #6527 Evener Complete

60" - #6528 Bar Only 68" - #6534 Evener Complete 68" - #6535 Bar Only





717-768-8313

122 White Horse Rd. Gap, PA 17527



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SINCE 1974