



1st RIPr[®]

PRECISION TILLAGE SYSTEM



**A TONGUE
ACT TO
FOLLOW**

ORTHMAN

PRECISION SEEDBEDS IN A SINGLE PASS — NO WONDER THE ORTHMAN 1tRIPr® IS THE MOST POPULAR STRIP-TILL SYSTEM ON EARTH.

Leading the Field Since 1965

Orthman is well-known for being in the forefront of progressive farming practices such as strip-till. The 1tRIPr® is named for its unique ability to combine multiple operations in a single trip across the field, conserving moisture, soil, time and money.

Designed, engineered and built to last for years of production, the 1tRIPr® provides a clean, level, seed-ready seedbed in a variety of field conditions, including wheat stubble, cover crop or standing corn stalks. With unprecedented flexibility to customize seedbed preparation, the 1tRIPr® is available in 4- to 24-row configurations with 22" to 40" spacing using Orthman's time-tested rigid or folding toolbars. To maximize one-pass productivity, the 1tRIPr® can be utilized alone or in unison with one of the many planter attachment options Orthman has to offer.

THREE PRINCIPLES OF SUCCESSFUL PRECISION STRIP-TILLAGE

More seedbeds on more acres around the world are prepared with the Orthman

1tRIPr® than with any other brand because in one pass across the field, the 1tRIPr® manages all three principles of successful strip-tillage.



Ideal Seedbed Preparation

For a quick start and robust germination, the 1tRIPr® maximizes existing soil moisture and increases water infiltration to create a warm, consistent seedbed with uniform seed-to-soil contact.

- Allows smooth planter operation for better performance
- Warm, consistent seedbed for quick start and robust germination
- Increases water infiltration and maximizes existing soil moisture



Precision Nutrient Placement

The 1tRIPr® works with dry, liquid or NH3 fertilizers, and its independent row-depth control allows a precise placement of multiple nutrients at adjustable depths for efficient uptake timing.

- Independent row-depth control for precise placement and optimal uptake timing
- Precisely places multiple nutrients at variable depths
- Targets absorption triangle for proper stage and use



Optimal Root-Zone Conditioning

The 1tRIPr® creates an ideal environment throughout the growing cycle by shattering compaction in the root zone, eliminating subsoil voids and creating twice as many beneficial pores for improved below-ground development.

- Shatters root-zone compaction, eliminates subsoil voids and creates beneficial pores
- Precision-tilled zone creates warming effect and an ideal environment throughout the season
- Early root development during vital V1 – V5 stage and late-stage development to improve yield results

WHY THE 1tRIPr® IS A TOUGH ACT TO FOLLOW

Orthman row units pack all the latest precision tillage technology into one rugged package

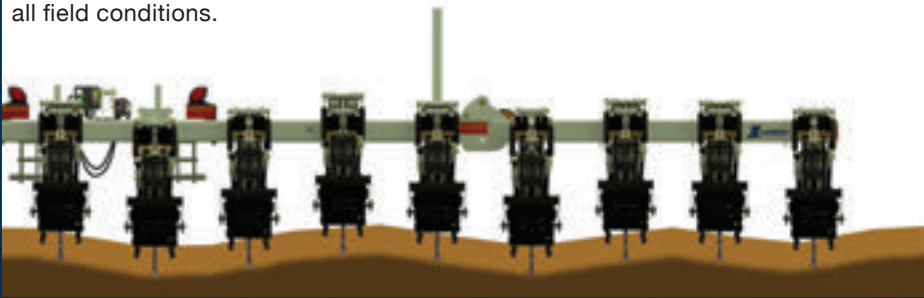
- 1 **Parallel linkage** maintains consistent depth and fertilizer placement in uneven field conditions.
- 2 **Depth band coulter** cuts through tough surface and sub-surface residue.
- 3 **Adjustable row cleaner** removes residue from the strip.
- 4 **Precision tillage shank** shatters compaction to promote vigorous root growth.



**PRECISION
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Parallel linkage for precision depth control

Orthman's parallel linkage maintains consistent depth and fertilizer placement in uneven field conditions. Intelligent mount and linkage design creates the solid foundation row units need to withstand the rigors of strip tillage. Offering 8+ inches of vertical travel, the 1tRIPr® offers consistent tillage and fertilizer depth in all field conditions.



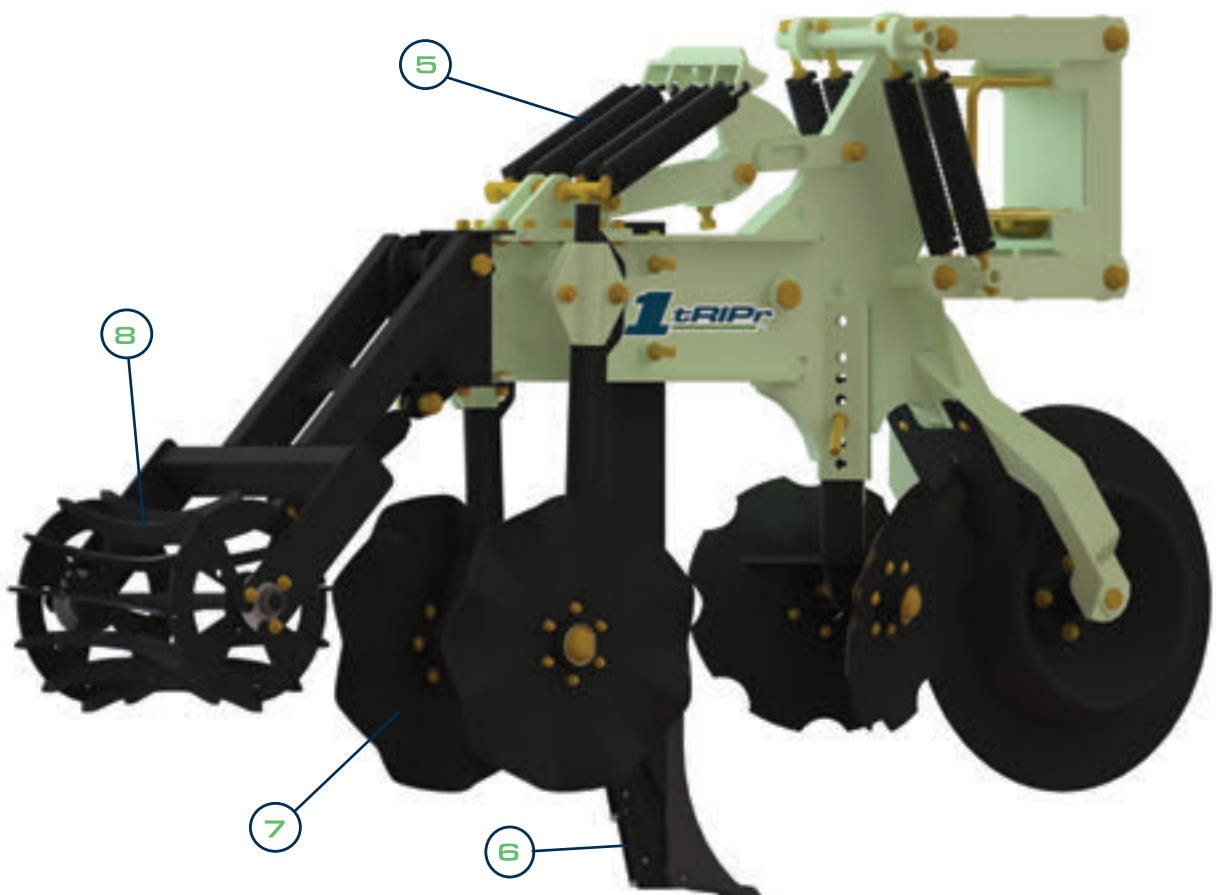
Auto-reset linkage protects your investment

To protect the row unit from damage caused by unseen rocks, the 1tRIPr® features an auto-reset linkage that trips the unit up and over obstacles then automatically resets. The reset, on-the-go design requires no operator involvement.



MORE THAN STRIP TILL - THIS IS PRECISION TILLAGE

Orthman 1tRIPr® row units are engineered to create ideal soil conditions for maximum yields, while minimizing input costs



- 5 **Auto-reset linkage** provides an automatic reset for underground obstructions.
- 6 **Single or dual fertilizer** tubes provide precision placement of fertilizer, and are independently adjustable regardless of the precision tillage shank operating depth.
- 7 **Positive depth wavy coulters** provide constant tillage depth, and capture loosened soil to create a firm, consistent strip.
- 8 **Rolling basket** helps break up remaining clods to ensure smooth planter operation.

**PRECISION
TILLAGE**

Multiple shank and nutrient options

The precision tillage shank creates optimal root-zone conditions and an ideal seedbed. Single or dual fertilizer tubes provide precision placement of liquid, dry, or NH3 fertilizer, and depth adjustment is independent of the shank depth. The Shallow Tillage Coulter can be used in wet conditions to help create a well prepared seedbed, dry out wet soils, or freshen up strips created in the fall.



The perfect finish to a seed-ready bed

The 1tRIPr®'s rolling basket features adjustable down pressure to help break up any remaining clods and ensure smooth planter operation, which in turn provides better seed depth control. Five roller options are available, including a new berm-promoting roller to create the ideal berm shape, and pneumatic tire rollers that offer minimal soil disturbance, and firm light soils for better moisture retention. Tire rollers are often used in sandier soils where wind erosion may be a problem.



The Orthman 1tRIPr® Precision Strip Tillage Machine

With a wide range of size, configurations, and options, the Orthman 1tRIPr® continues to set the standard



More Precision Strip Till Acres Worldwide Than Any Other Machine.

Originally developed in 2001, the Orthman 1tRIPr® is the gold standard of precision tillage machines. Orthman's dedication to strip tillage research and data collection has allowed the 1tRIPr® to continue leading the industry in performance and precision. The mounted 1tRIPr® is available on any of Orthman's rigid or folding toolbars, including the all-new, Row Crop Tillage Toolbar — the best we've ever made. This new design is based on the innovative, internal fold cylinder design originally developed by Orthman, with wide, precision line-bored hinges for smooth folding and extra engineered strength.

Row Crop Tillage Toolbar

Built for today's higher horsepower tractors, the row crop tillage toolbar offers the strongest 3-point hitch design on the market and is available in CAT III or CAT IV (shown).



Patented Internal Folding Toolbar

The new internal folding linkage design enables all models to fold 180° for improved transport, and it offers strategically placed mounting points for routing multiple types of fertilizer systems.



NEW!

HD Carrier option

A complete, turnkey fertilizer application solution for mounted 1tRIPr® machines, the HD Carrier system handles up to 575 gallons of liquid fertilizer, or the new 3-ton dry fertilizer hopper allows for precision placement of dry fertilizer on mounted machines. The optional HD nurse-tank hitch can be used in combination with the HD carrier and either the dry or liquid fertilizer systems for additional fertilizer capacity.



GPS Implement Guidance Compatible

All Orthman mounted 1tRIPr® precision tillage machines are compatible with the Tracker IV® GPS implement guidance system to take your precision fertilizer placement to the next level of precision.



Optional Nurse-Tank Hitch

The heavy-duty Orthman TH4 hitch handles heavy fertilizer tank payloads, allowing growers to stay in the field longer between fill-ups. It's telescoping and pivoting hitch tab easily connects to any trailer.



1tRIPr® XD Precision Strip Tillage machine

High-capacity, high-efficiency strip-till in a drawn implement design



1tRIPrXD

Henry Orthman set the standard for high-quality, heavy-duty, precision-built equipment 50 years ago, and Orthman engineers have upheld that standard with the 1tRIPr® XD.

Built for today's ever larger farms, Orthman's new drawn 1tRIPr® XD delivers high efficiency with generous fertilizer carrying capacity integrated into a rugged, large-frame design.

Designed, engineered and built to last for years of production, the 1tRIPr® XD manages the Three Principles of Precision Tillage in a single pass and provides a clean, level, seed-ready seedbed in a variety of field conditions, including wheat stubble, cover crop, standing BT corn stalks and many more.

- Ideal Seedbed Preparation
- Precision Nutrient Placement
- Optimal Rootzone Conditioning



The 1tRIPr® XD is available with multiple high capacity fertilizer carrying options, including 1,000 gallon liquid or 6-ton or 9-ton dry fertilizer systems.



Add a rear nurse-tank hitch for pull-behind liquid or anhydrous tanks.

Tongue Design Redefines Heavy-Duty

The massive XD lifting tongue shortens the overall machine length and improves ground clearance, while precision, line-bored hinges provide more strength and smoother operation guaranteeing years of reliable performance. Smart features such as strategically placed hydraulic routing keep hoses and cables safe in the harshest operating conditions.



Heavy-Duty Drawn Frame Design

The 1tRIPr® XD includes all the features of the Orthman Row Crop Tillage Toolbar which utilized finite element analysis and rigorous real world testing for engineered strength. Three narrow transport models allow for faster and safer field-to-farm transportation.



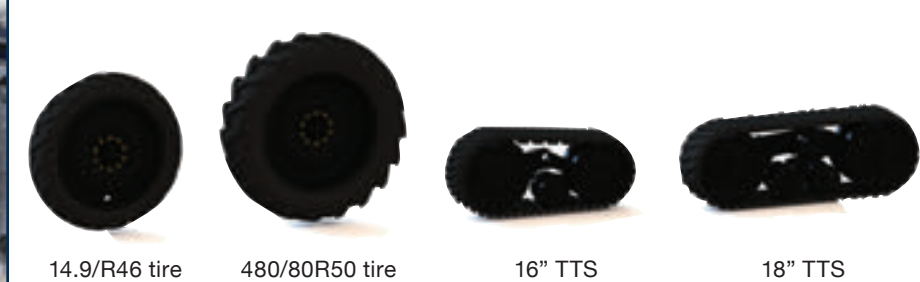
Built-in GPS Guidance Capability

The 1tRIPr® XD offers an optional GPS steering system that steers the tires with sub-inch accuracy, allowing you to control all three dimensions of precision. The system is GPS ready, allowing you to control it with John Deere® and Trimble® guidance systems.



Multiple Undercarriage Options

The 1tRIPr® XD offers two tire options, with increased flotation and reduced rolling resistance when compared to the competition. For more capacity and flotation, the XD is available with the all new Camoplast® Trailed Track Systems (TTS) in two different sizes.



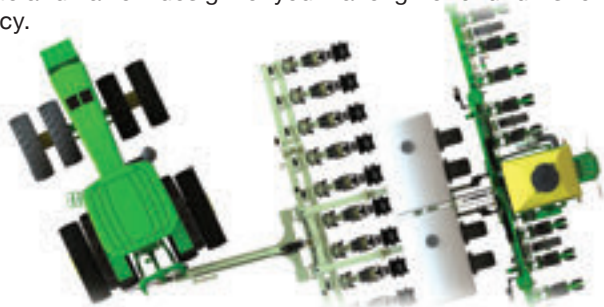
1tRIPr XD® COMBO
Till, fertilize, and plant in a single pass

Especially on today's larger farms, efficiency is the watchword, and it's hard to beat the efficiency of the remarkable 1tRIPr XD Combo. The 1tRIPr XD Combo offers the efficiency of the industry leading 1tRIPr row units and a generous fertilizer carrying capacity integrated into a rugged, large-frame design. Designed, engineered and built to last for years of production, the 1tRIPr XD Combo manages the Three Principles of Precision Tillage in a single pass, providing a clean, level, seed-ready seedbed in a variety of field conditions, including wheat stubble, cover crops, standing BT corn stalks and many more. And in the same pass, the XD Combo completes the job by planting your crop with your 3 point mounted planter with sub-inch accuracy.



Designed For Speed and Efficiency

The lifting tongue design shortens the overall machine length and improves ground clearance for optimum field-to-field transport maneuverability. The unique short tongue and narrow design let you maketighter end turns for greater speed and efficiency.



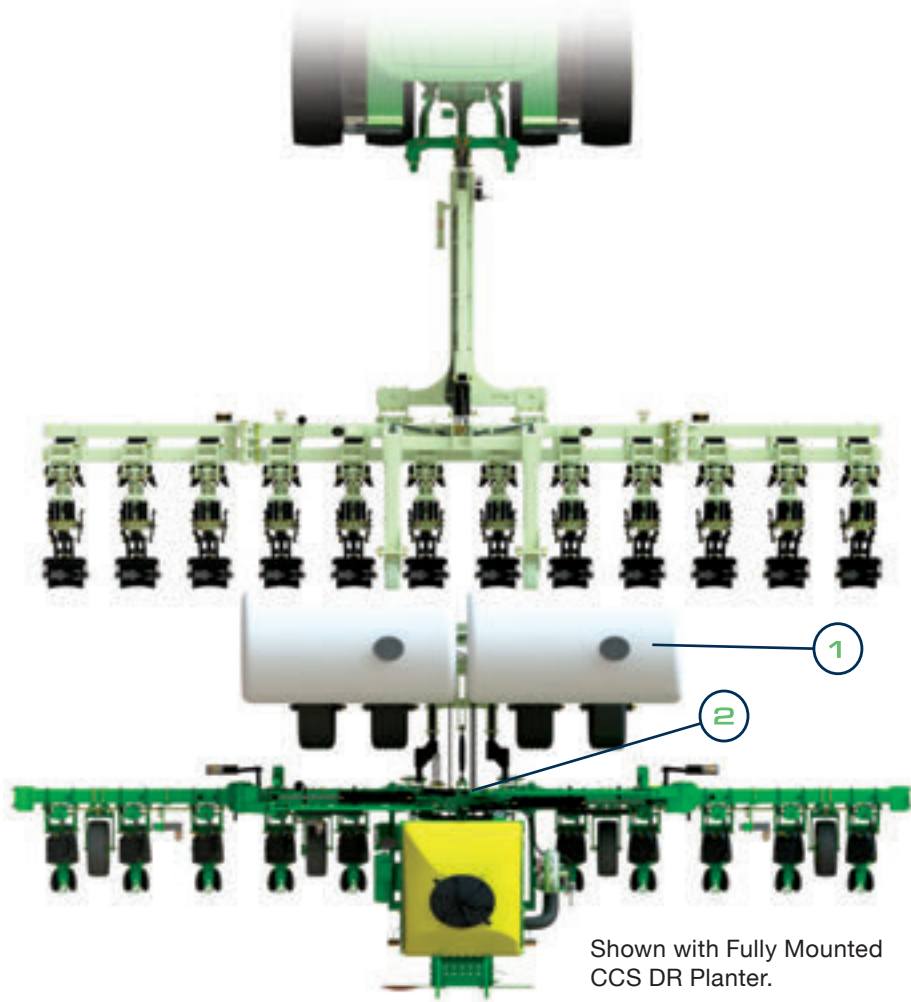
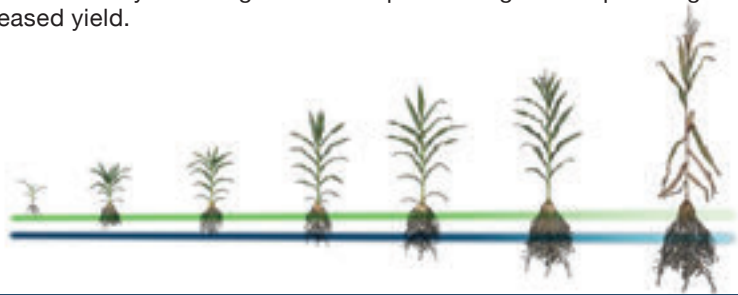
Colossal Carrying Capacity

Offered in 4- and 6-wheel configurations with up to 40,000 pounds of lift capacity, the XD Combo provides excellent flotation and minimizes compaction. The XD Combo's wide stance offers improved implement stability in the field as well as during transport, while providing 21" lift clearance to accommodate rough terrain in transport mode.



Precision Nutrient Placement Options

The 1tRIPr® XD Combo works with dry, and liquid fertilizers, and the it's independent row-depth control allows precise placement of numerous nutrients at variable depths for ideal uptake timing. Precision placement at user-determined depths enables you to target the absorption triangle for improved growth and increased yield.



1tRIPr XD COMBO

- Ideal Seedbed Preparation
- Precision Nutrient Placement
- Optimal Rootzone Conditioning

1 Massive fertilizer carrying capacity of the XD Combo includes 4-1/2 ton dry fertilizer systems, or a 1,000 gallon liquid fertilizer system.

2 CAT III rear planter hitch allows for easy hookup to most 6- to 16-row 3-point planters.

Compatible With a Wide Variety of Planters

For versatility in planter choice, Orthman's 3-point planter attachment system utilizes a standard CAT III 3-point hitch system, and is designed to work with most 6-16 row planters. Intelligent engineering allows the operator to quickly detach the planter, for standalone 1tRIPr® use.





Mounted Rigid Machines

NUMBER OF ROWS	ROW SPACING	WEIGHT	TRANSPORT WIDTH
4	22"-30"	3,350	10'
4	36"-40"	3,550	12'
6	22"-30"	4,707	15'
6	36"-40"	4,940	19'
8	22"	5,864	15'
8	30"	6,075	20'
8	36"-38"	6,205	24'
8	38"-40"	6,250	25'
10	30"	7,591	20' 1"
12	22"	8,650	22' 9"
12	30"	9,200	30' 1"

Mounted Folding Machines

NUMBER OF ROWS	ROW SPACING	WEIGHT	TRANSPORT WIDTH
8	30"	6,790	11' 8"
8	36"	7,072	13' 10"
8	38"-40"	7,164	14' 8"
12	30"	9,660	16' 8"
12	36"	9,883	19' 5"
12	38"-40"	10,155	21' 3"
16	30"	12,368	21' 8"
16	38"-40"	15,764	28' 1"

XD Machines

NUMBER OF ROWS	ROW SPACING	WEIGHT	TRANSPORT WIDTH
8	30"	14,877	11' 2"
12	30"	17,774	16' 2"
12 <i>Narrow transport option</i>	30"	19,255	11' 4"
12	36"	19,067	18' 11"
16	30"	21,845	21' 5"
16 <i>Narrow transport option</i>	30"	22,403	16' 4"
16	36"	22,454	25'
18	30"	23,464	26' 6"
18 <i>Narrow transport option</i>	30"	23,749	16' 4"

XD Combo

NUMBER OF ROWS	ROW SPACING	WEIGHT	TRANSPORT WIDTH
8	30"	16,210	11' 9"
12	30"	18,783	16' 2"
16	30"	24,638	21' 5"

A TOUGH ACT TO FOLLOW

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ORTHMAN
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