Strip Tillage

GLADIATOR® 1210











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GLADIATOR® 1210PS | 1210PV | 1210MS | 1210MV | 1210C

PRECISION NUTRIENT AND SEEDBED MANAGEMENT

THE KUHN KRAUSE GLADIATOR® 1210 STRIP-TILLAGE SYSTEM OFFERS ON-ROW CONSERVATION TILLAGE, PRECISE NUTRIENT PLACEMENT AND NON-STOP SEEDBED CONDITIONING TO HELP PROGRESSIVE PRODUCERS MANAGE INPUT COSTS. THE INNOVATIVE FIXED-FRAME TOOLBAR AND ST-PRO™ II OR VT-PRO™ ROW UNITS CONTOUR TO THE GROUND'S SURFACE CONDITIONS ALLOWING CONSISTENT OPERATION AT YOUR PREDETERMINED DEPTH. A VARIETY OF DRY AND/OR LIQUID FERTILIZER OPTIONS ARE AVAILABLE. THIS IS MORE THAN JUST STRIP-TILL, THIS IS PRECISION NUTRIENT AND SEEDBED MANAGEMENT.

CHALLENGES IN STRIP-TILL TODAY

Larger farms, greater crop variety, tougher residue, soil erosion, fertilizer costs, fuel costs; today's strip-tillers face many challenges. Finding the right tool to meet these challenges while preserving efficiency and profit is tough, but Kuhn Krause provides solutions.

THE GLADIATOR SOLUTION

Designed to meet these challenges, the Gladiator 1210 is the industry leading precision tillage system that produces the perfect seedbed, whatever the conditions. Choose from a variety of fertilizer solutions to ensure the best nutrient plan for your operation while managing fertilizer application rates and limiting unnecessary passes over the field.

ST-PRO™ II | VT-PRO™ ROW UNIT

The row unit is the heart of the machine. Whether you choose ST-PRO II or VT-PRO row units, both are designed for quick, tool-free adjustments in just minutes, allowing easy setup for changing field conditions and consistent strip formation. Row units have no grease zerks and require no daily maintenance saving time and increasing productivity.

Models	Rows	Row Spacing (cm)	Working Width (m)
Pull-Type ST-PRO II			
1210PS-830	8	30" (76 cm)	20' (6.1 m)
1210PS-1230	12	30" (76 cm)	30' (9.1 m)
1210PS-1630	16	30" (76 cm)	40' (12.2 m)
Pull-Type VT-PRO			
1210PV-1230	12	30" (76 cm)	30' (9.1 m)
1210PV-1630	16	30" (76 cm)	40' (12.2 m)

Models	Rows	Row Spacing (cm)	Working Width (m)
3-Point Mounted ST-PRO II			
1210MS-430	4	30" (76 cm)	10' (3 m)
1210MS-630	6	30" (76 cm)	15' (4.6 m)
1210MS-830R	8	30" (76 cm)	20' (6.1 m)
1210MS-830F	8	30" (76 cm)	20' (6.1 m)
1210MS-1230	12	30" (76 cm)	30' (9.1 m)
1210MS-1630	16	30" (76 cm)	40' (12.2 m)
1210MS-436	4	36" (91.4 cm)	12' (3.7 m)
1210MS-636	6	36" (91.4 cm)	18' (5.5 m)
1210MS-836R	8	36" (91.4 cm)	24' (7.3 m)
1210MS-836F	8	36" (91.4 cm)	24' (7.3 m)
1210MS-1236	12	36" (91.4 cm)	36' (11 m)
1210MS-438	4	38" (96.5 cm)	12'8" (3.9 m)
1210MS-638	6	38" (96.5 cm)	19' (5.8 m)
1210MS-838R	8	38" (96.5 cm)	25'4" (7.7 m)
1210MS-838F	8	38" (96.5 cm)	25'4" (7.7 m)
1210MS-1238	12	38" (96.5 cm)	38' (11.6 m)
1210MS-440	4	40" (101.6 cm)	13'4" (4.1 m)
1210MS-640	6	40" (101.6 cm)	20' (6.1 m)
1210MS-840R	8	40" (101.6 cm)	26'8" (8.1 m)
1210MS-840F	8	40" (101.6 cm)	26'8" (8.1 m)
1210MS-1240	12	40" (101.6 cm)	40' (12.2 m)
3-Point Mounted VT-PRO			
1210MV-430	4	30" (76 cm)	10' (3 m)
1210MV-630	6	30" (76 cm)	15' (4.6 m)
1210MV-830R	8	30" (76 cm)	20' (6.1 m)
1210MV-830F	8	30" (76 cm)	20' (6.1 m)
1210MV-1230	12	30" (76 cm)	30' (9.1 m)
1210MV-1630	16	30" (76 cm)	40' (12.2 m)

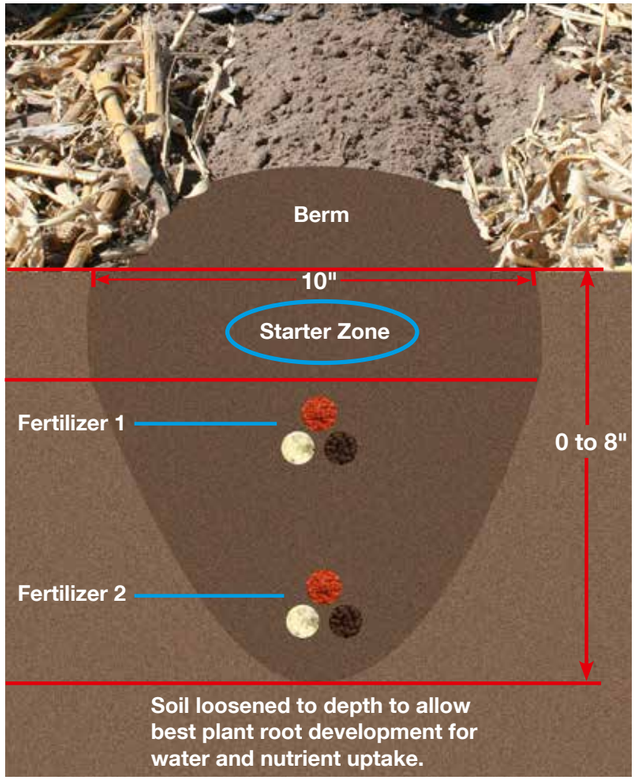
ANATOMY OF AN ST-PRO™ II STRIP

The Berm
Creating a good berm in the fall is essential to ensure that, as the strip settles over winter, it does not form a gully which will channel water off the field washing away valuable soil and nutrients. Building a berm in the spring in areas where fields are prone to water-logging or flooding is also beneficial as a raised berm dries out faster than the surrounding field. Planting can take place sooner and the warmer seedbed allows for quicker germination.

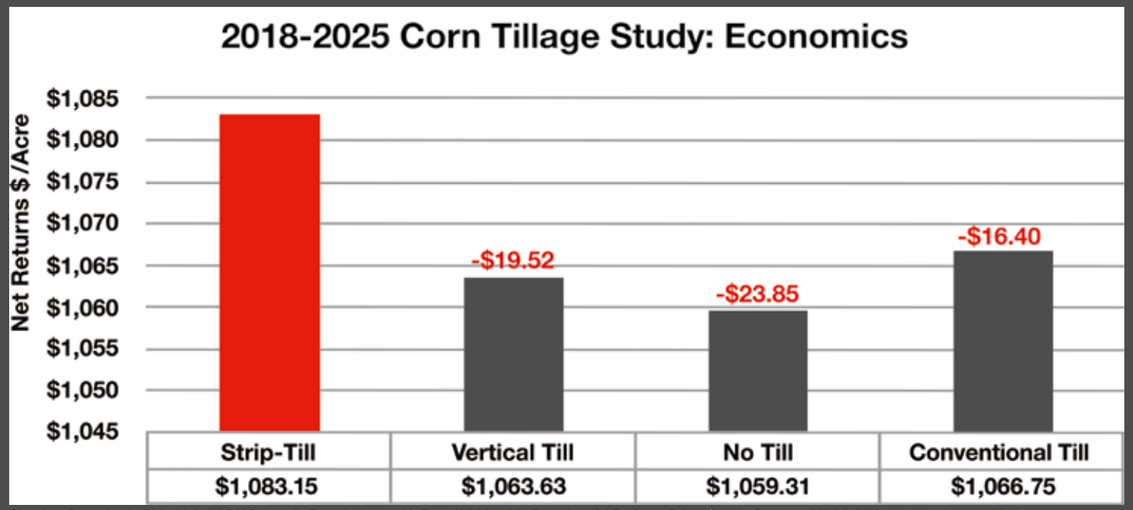
Starter Zone
Starter fertilizer applied shallow in the profile to provide nutrients right at germination. This fertilizer may be applied in a separate operation (i.e. with the planter at seeding) or with the Gladiator instead of zone 1 or 2.

Fertilizer Zone 1
A slightly shallower fertilizer placement for dry or liquid which will be more quickly reached by the plant roots.

Fertilizer Zone 2
Deep placed fertilizer such as dry or anhydrous ammonia which needs to be well sealed in the soil or placed farther from the seed to ensure roots have matured before contact so as to prevent burn.

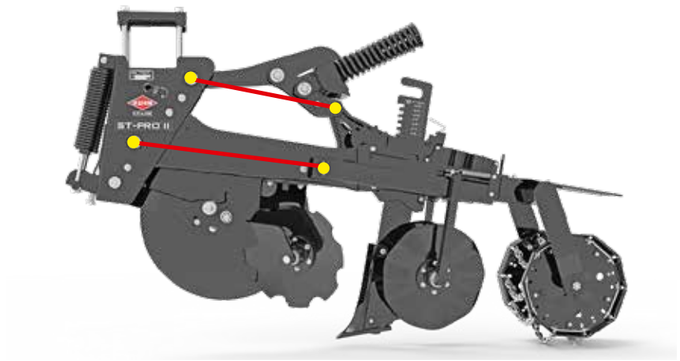


STRIP-TILL CONTINUES TO SET THE STANDARD FOR PROFITABILITY



Planting Date April 15th; Hybrid DKC 68-35; Population 36K; Row Width 30"; Rotation CAB; Corn Price $4.13; Source: PTI Yield Summary 2018 - 2025; Individual results may vary.

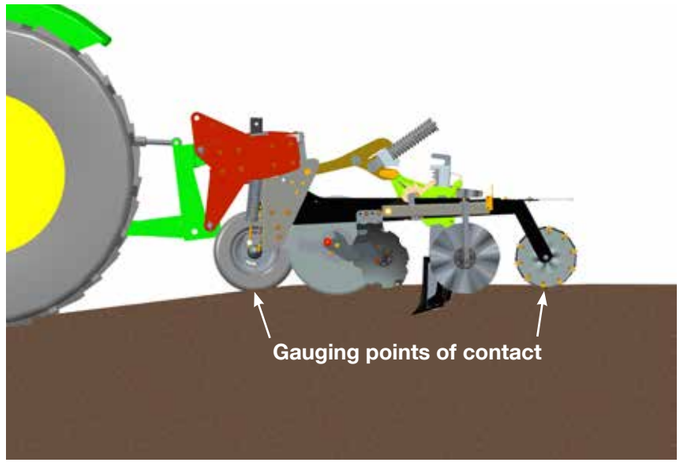
CONSISTENT DEPTH OVER CONTOURS: ST-PRO™ II



ST-PRO II Row Unit Parallel Linkage

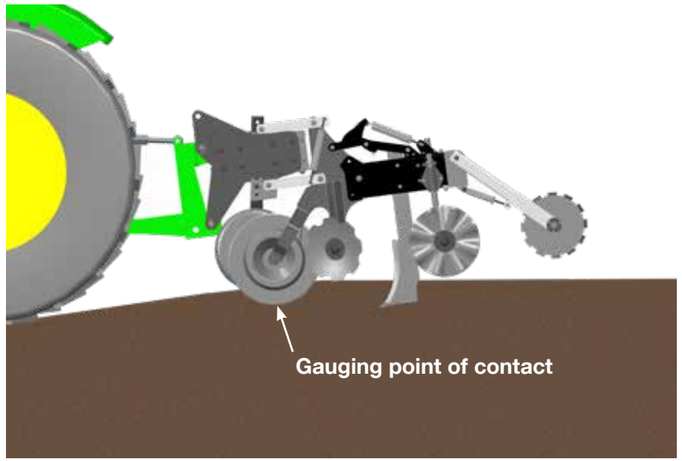
Unique parallel linkage remains parallel to the ground as opposed to other styles which remain parallel to the toolbar.

- Depth controlled from rear reel via parallel linkage
- Coulter works independently and cannot affect shank depth through residue build-up



ST-PRO II Row Unit Depth

Row unit depth is gauged between the reel at the rear and the gauge wheels at the front of the toolbar. The parallel linkage ensures that depth is accurate and that the row unit remains parallel to the ground regardless of tractor position. The coulter moves independently of the rest of the row unit, allowing it to constantly seek the depth required to cut through residue. In very heavy residue or hard conditions, coulter position will not affect the depth of the rest of the row unit.



Competitive Row Units Using Depth Band on Coulter

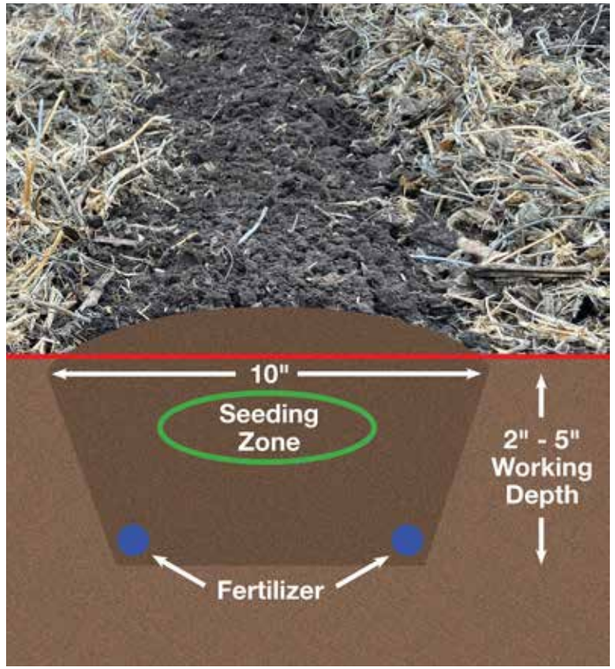
Where a depth band on the coulter is used to gauge depth, anytime the coulter does not achieve full penetration (i.e. in heavy residue or in hard conditions) the working depth of the whole row unit is compromised. The same will be the case should soil or residue build up on the depth band. With depth being gauged only from the front, the row unit will remain parallel to the toolbar (rather than the ground). The diagram shows the effect of this on the row unit as the tractor is pitched forwards while descending a slope.

ANATOMY OF A VT-PRO™ STRIP

The Berm
Creating a consistent, well-structured berm in either fall or spring is key to protecting soil and unlocking full yield potential. A properly formed berm maintains uniform height and structure, preventing water from concentrating into gullies that can carry away valuable topsoil and nutrients. An elevated berm dries faster than the surrounding soil, helping you get into the field sooner. At planting, it creates a warmer, well-aerated seedbed for faster germination, more uniform emergence, and stronger early growth.

Seeding Zone
The ideal area for soil consolidation to achieve good seed-to-soil contact obtaining a high percentage germination rate. This area is also ideal for starter fertilizers to be placed with the planter to provide early nutrients to young emerging seedlings.

Fertilizer Zone
Fertilizer is typically placed 2–3 inches from the seeding zone at the depth of the strip through dual liquid fertilizer tubes, providing consistent and lasting nutrient availability throughout the plant's growth cycle. Wide ranges of application rates can be achieved to provide enough nutrients to get to the next feeding stage or to plant maturity based on soil conditions and nutrient holding capacity.



EASILY ADJUST RATES WITH A WIDE RANGE OF APPLICATIONS

Liqui-PRO							
Target Rate GPA	Application speed (MPH)						
	4	5	6	7	8	9	10
10	N/A	N/A					
15	0.05						
20							
25		0.085					
30							
35				0.116			
40							
50						0.152	
60							
70							
80							
90						N/A	N/A
100					N/A	N/A	N/A

Orifice size based on fertilizer 28-0-0 for given application rates (gallon per acer) GPA and application speeds MPH. Optimum pressure range is 10-60 psi, other fertilizer may vary slightly to maintain optimum system pressures.

The Liqui-PRO™ fertilizer system features a quarter-turn orifice design that allows for quick and easy adjustment to the targeted application rate. The system supports a wide range of application rates from 10 to 100 gallons per acre at higher operating speeds, improving efficiency while minimizing setup time.

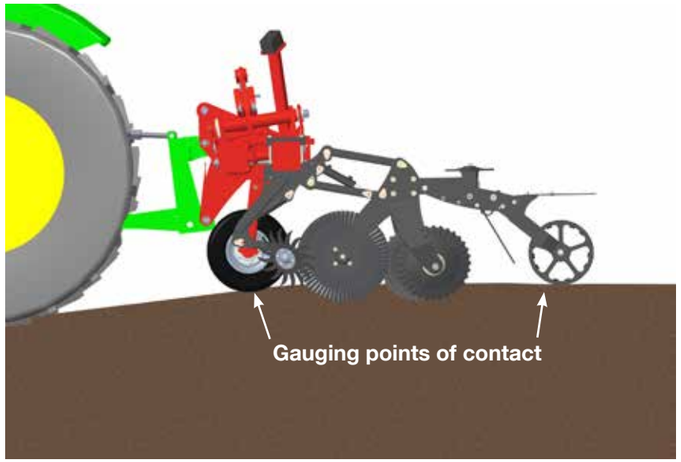


CONSISTENT STRIP QUALITY: VT-PRO™



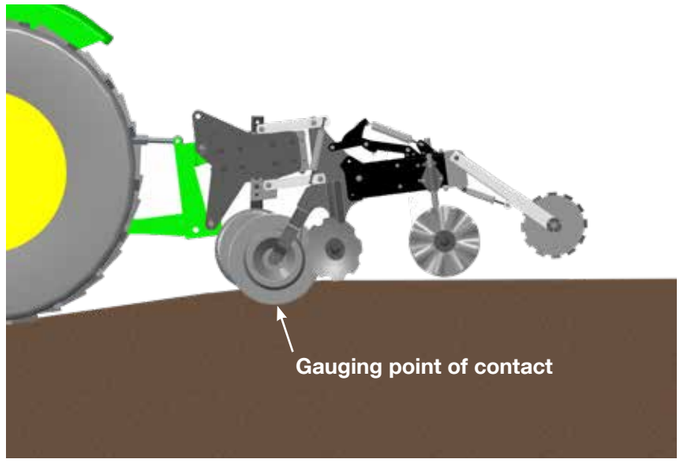
VT-PRO Row Unit Parallel Linkage

Row unit depth is gauged between the rear conditioning reel and the gauge wheels at the front of the toolbar. Hydraulic downforce is integrated into the parallel linkage, providing consistent pressure without added complexity and ensuring uniform strip formation across varying conditions. Independent row cleaners move residue ahead of the blades to create a clean strip, allowing the rear conditioning reel to precisely gauge depth—delivering consistent strip quality and accurate fertilizer placement.



VT-PRO Row Unit Depth

Working together, the lead coulter and Excalibur® blades produce a wide strip for ease of planting, consistent fertilizer placement, and an ideal seedbed. Most of the strip width is maintained throughout the working depth while creating a flat floor, ideal for early root development and improved nutrient availability to the plant.



Competitive Row Units Using Depth Band on Coulter

Systems that rely on coulter-mounted depth bands to control depth often require additional springs, airbags, or shocks to keep the rear conditioning reel engaged with the soil. This added hardware increases complexity and introduces additional wear points within the row unit. In combination with blade configurations, these designs can also create a narrower strip below the surface, limiting consistency in the root zone.

GLADIATOR® 1210PS | 1210MS | 1210C

ST-PRO™ II ROW UNITS

Designed for tough residue situations, the ST-PRO II row units develop a uniform, residue-free strip with precise, consistent tillage depth control. ST-PRO II row units require no daily maintenance and no wrenches are needed to make adjustments.

COULTER

- 25" independent coulters offer continuous residue cutting
- Adjustable down pressure from 460 pounds to 660 pounds
- Adjustable coulter scrapers remove sticky soil from the coulter blade



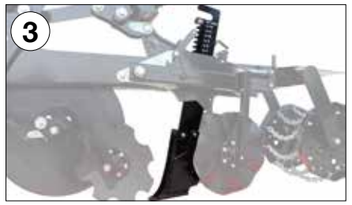
FLOATING ROW CLEANERS

- Floating 16" notched disc blades consistently clear residue from the strip
- Automatically adjusts to the contour of the field eliminating the need for field to field adjustment
- Weights can be added or removed to ensure consistent residue management and flow



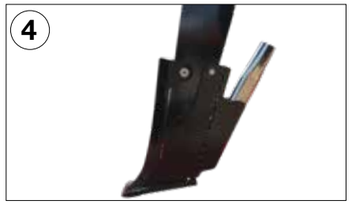
SHANK

- Wrench-free depth adjustment
- Remove root zone compaction
- Promote water infiltration, deep root growth and early seedling development
- Optimize nutrient placement in the field
- Shank depth range of 6" to 12" in 1" increments
- Choice of Austempered Rock, Chromium Carbide, or DURAKARB™ points



DROP ZONE™ NUTRIENT PLACEMENT SYSTEM

- Flexibility to adjust fertilizer placement depths from field to field
- Fertilizer placement range is 5" to 11" deep with a minimum of 1.5" between products dependent on product configuration (liquid, dry or gas)
- Adjust fertilizer depth independent of shank operating depth



FLOATING CLOSING BLADES

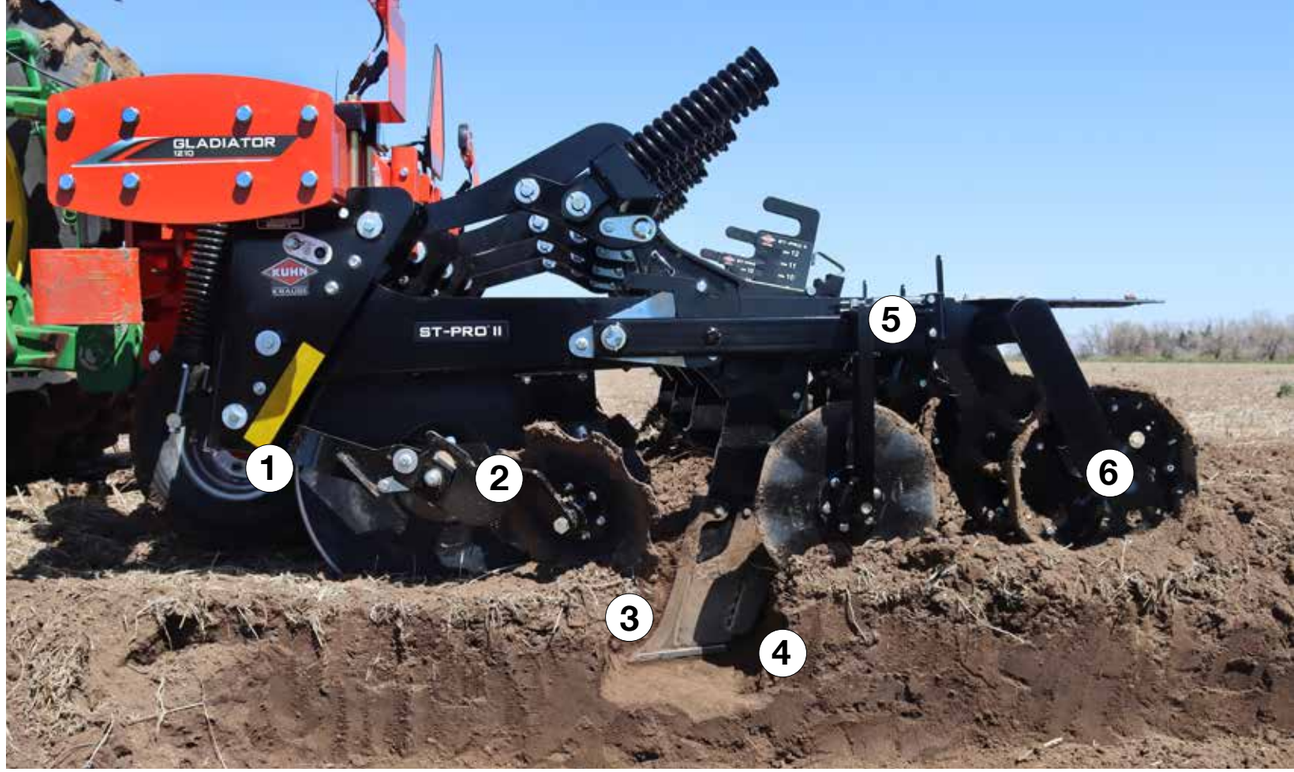
- Closing blades float, automatically adjusting to soil and residue conditions while capturing loosened soil to create a uniform berm
- For tough soil conditions, closing blades have a limited float setting and an easy to adjust angle setting of 2°, 10° or 18°
- Choose 18" wavy coulter blades for non-rocky conditions or 16" notched reverse disc blades for continuous operation in rocky fields



STRIK'R® NONSTOP SOIL CONDITIONER

- Patented chain reel technology to break clods without destroying the berm
- 18" reel with 10 individual chain sections
- Chains shed wet soil and residue, achieving a uniform seedbed without plugging







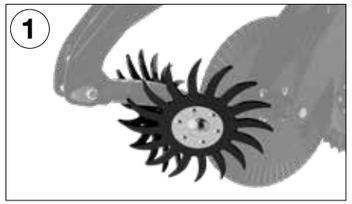
GLADIATOR® 1210PV | 1210MV

VT-PRO™ ROW UNITS

The VT-PRO row unit combines speed and precision with a touchscreen display that enables on-the-fly optimization of row cleaners and row-unit downforce settings, ensuring consistent strip formation across varying field conditions. Like the ST-PRO™ II, the VT-PRO requires no daily maintenance and adjustment is quick and easy.

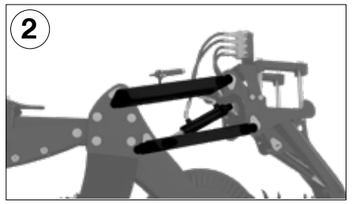
ROW CLEANERS

- Leading-pivot design with trailing row cleaners for optimal field performance
- 16” diameter row cleaner blades create a wide, consistently clean strip
- In-cab touchscreen display allows on-the-go adjustment of row cleaner position: transport, float, or 0–100% down pressure



ROW UNIT DOWN FORCE

- Parallel linkage with integrated hydraulic down force
- Down force is applied equally to coulter and working blades
- In-cab touchscreen display allows on-the-go adjustment of row unit position: transport or 0–100% downforce



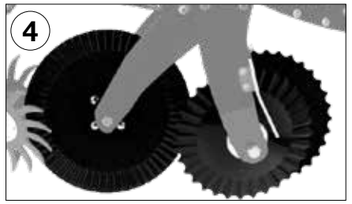
TOUCHSCREEN DISPLAY

- 4.3” high-visibility touchscreen display comes standard for clear, easy operation
- Four ergonomic side keys provide fast and precise control
- In-cab adjustments allow quick changes to row cleaners and row unit downforce
- Designed to optimize machine performance, maximize uptime, and improve overall efficiency



COULTER AND EXCALIBUR® WORKING BLADES

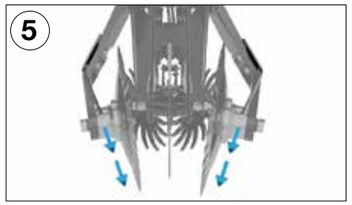
- 22”, 5mm, 60-flute coulter blade provides increased ground penetration while initiating soil fracture in the center of the strip
- Promote water infiltration, root growth and early seedling development
- EXCALIBUR® CT 18” X 5mm, 32 – flute, 1-3/16” shallow concavity working blades provide a wide strip and maintain a wide strip throughout the soil profile creating an optimal location for nutrient placement
- Quick Easy depth adjustment with flip over lockable handle



FERTILIZER OPTIONS

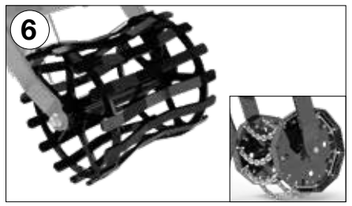
- Applies liquid fertilizer on both sides of the strip, 2–3” from the seed zone
- Dual side fertilizer placement optimizes nutrient availability
- High-capacity delivery of 10-100 GPA* with Liqui-PRO™ fertilizer system

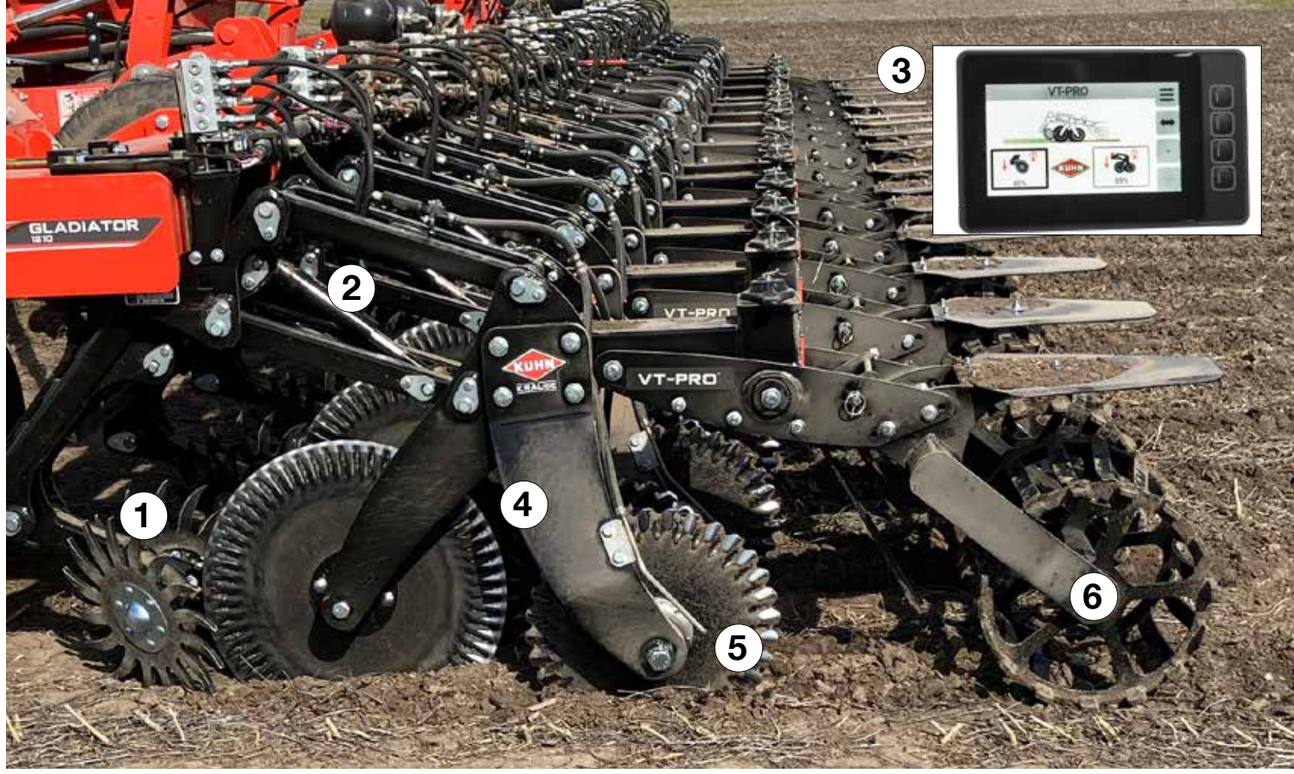
* 100 GPA at limited speeds see Liqui-PRO chart for details



SOIL CONDITIONER OPTIONS

- Contoured flat bar reel breaks clods and firms the soil while maintaining a positive berm, resulting in a high quality, ready-to-plant seedbed ideal for spring operation or sandy, loamy or dry soil conditions
- STRIK’R® conditioner reel breaks clods without destroying the berm, sheds wet soil and residue achieving a uniform seedbed without plugging ideal for fall operation or clay, loamy or wet soil conditions.







GLADIATOR® 1210PS | 1210MS

DRY FERTILIZER SOLUTIONS

PRECISION NUTRIENT MANAGEMENT

The Gladiator® product line features one of the most complete fertilizer application offerings in the industry. These systems are easy to operate and provide precision nutrient placement options for growers with the desire to apply dry or liquid fertilizer with or without anhydrous ammonia.

Gladiator 1210PS pull-type models are all available with either 6-ton or 9-ton dry fertilizer tanks. Dry fertilizer systems are available as Gen 1 (single product) or Gen 2 (dual product) with variable rate capability to maximize fertilizer efficiency. These highly accurate systems delivery prescribed fertilizer rates evenly across the width of the machine.





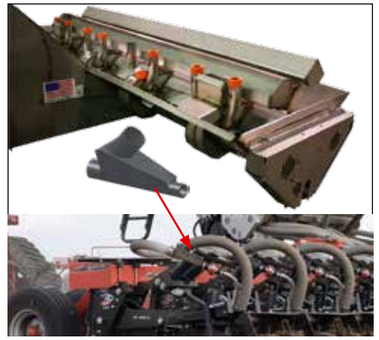
Gladiator 1210MS 4-row to 8-row models are available with 3.5-ton tanks mounted on a steerable cart while 6- to 16-row models are available with 6-or 9-ton tanks mounted on steerable carts and pulled behind the toolbar.





TRAIL HITCH FOR ANHYDROUS

Gladiator 1210M and 1210 pull-type models are available with a trail hitch, typically used for towing an anhydrous cart. All hitches feature an extendable tongue allowing the operator to position the Gladiator close to the cart and then maneuver the trail hitch to make the connection. A strap and winch is also fitted to assist with lifting the tongue of the anhydrous cart. Trail hitches are also available on Montag steerable carts for maximum fertilizer flexibility.



THE MONTAG SYSTEM

Montag dry fertilizer systems are designed so that the fertilizer for each row is metered separately. Only in this fashion can consistency across the machine be ensured. An air release is used close to the row unit to disperse air and prevent fertilizer from being blown forcefully down into the strip and bouncing out. Diffusing the air also prevents back-pressure building up in the hoses which would lead to blockages and inaccurate application rates.



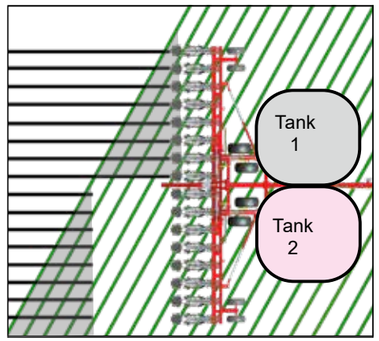
MONTAG STEERABLE CART

When trailing a tank behind a mounted strip-till toolbar it is imperative that the tires remain in the zones between strips. The Montag steerable cart uses a double knuckle linkage to ensure that not only do the tires remain between the strips in the field, but that they also line up following turns on end rows so that no part of the strip is driven on.



MONTAG GEN 2

Any Gladiator which may be fitted with a 9-ton dry fertilizer hopper may be equipped with the Montag Gen 2 system. Two 4.5-ton tanks allows the operator to blend two different types of fertilizer together for placement in the strip. Although a different design compared to the single tank system, metering still takes place on a per row basis to ensure consistent application rate across the width of the machine. Rates of the two fertilizer products are controlled independently for total control.



VARIABLE RATE & SECTION CONTROL

The Montag Gen II twin tank system is compatible with GPS variable rate and section control*. Use your mapping system to automatically vary the rate of either fertilizer product as you work the field. Minimize over application and waste at point rows by dividing the machine into sections and letting the GPS switch off either half of the machine automatically.

*Compatible control system required for full functionality.



FERTILIZER BLOCKAGE MONITOR

Fertilizer hose blockages waste expensive nutrients and jeopardize your crop. Displayed directly through ISOBUS, these wireless sensors communicate with the ISOBUS receiver to deliver real-time blockage and flow visibility, alerting operators to both full and partial restrictions to ensure uniform application across the entire toolbar.

GLADIATOR® 1210PS | 1210MS | 1210PV | 1210MV

LIQUID FERTILIZER SOLUTIONS

The new Liqui-PRO™ strip-till fertilizer application system from Kuhn Krause is designed for today's strip-till farmers. This highly accurate ISOBUS system features a plug-and-play variable rate controller compatible with ISOBUS displays, ensuring optimal fertilizer application to maximize yield potential.



Gladiator 1210 pull type models are available with a 1,600 gallon liquid tank. These machines can be equipped with Liqui-PRO, a turnkey liquid fertilizer application system.



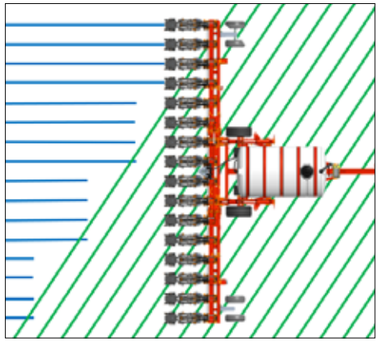
Gladiator 1210 3-point mounted models are available with either a 1,200 gallon tank for 4- and 6-row machines or a 1,600 gallon tank for 8- to 16-row machines, both mounted on a steerable cart. The Liqui-PRO system is available on 8- to 16-row models with 30" spacing.



ISOBUS Variable Rate Controller
The ISOBUS system features a plug-and-play variable rate controller that is fully compatible with ISOBUS displays and capable of mapping and executing prescription rates (with the appropriate task controller). Its highly accurate variable rate application helps optimize input use and maximize yield potential.



Tattler® Electric Row Flow Monitoring
The system features an integrated ISOBUS rate controller with individual row flow monitoring, capable of detecting both blockages and relative flow variations on each row. This ensures precise row-to-row uniformity, resulting in consistent and even distribution across the entire machine.



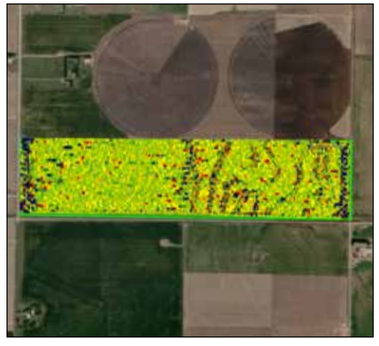
2- or 4-Section Control Options
The rate controller automatically turns sections of the machine on and off by using the operator's task controller at headlands and point rows. This section control reduces input costs by minimizing fertilizer overlap and improving overall efficiency.



PUMP
The Liqui-PRO system uses a hydraulically driven pump to precisely deliver fertilizer across a wide range of application rates. The centrifugal-style pump features a cast iron housing for enhanced corrosion resistance. The pump is configured with dry seal, or a wet seal option is available to further extend pump longevity.



VALVE CONTROL
The Liqui-PRO system is designed with easy access to valves and controls for efficient operation and maintenance. A built-in recirculation valve helps keep products in suspension, ensuring consistent application. The system also features a 3-inch fill port to increase fill rates and maximize productivity.

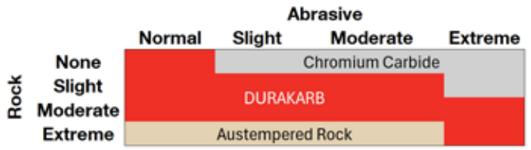


HIGHLY ACCURATE APPLICATION
The Liqui-PRO system delivers highly accurate application across a wide range of rates (10-100 GPA*). Its ISOBUS rate controller ensures consistent performance across the toolbar and from pass to pass, maintaining accuracy within ½ gallon per acre of the target rate, as verified by as-applied maps.
*100 GPA at limited speeds see Liqui-PRO chart (page 6) for details.

WEAR PARTS AND MAINTENANCE



Choose the appropriate point for your working conditions. Points are mounted to the shank using a single bolt for quick and easy removal when replacing. See chart below.

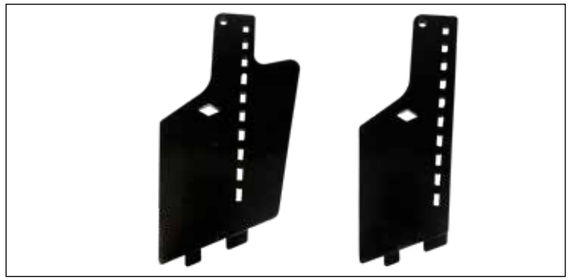


POINT OPTIONS

Chromium carbide points give the longest wear life in abrasive soils. The special alloy and heat treatment used to make the points provides a great trade-off between wear life and resistance to breakage compared to a straight chrome carbide material. The exact chemistry used in these points is specified by Kuhn Krause and is not available to aftermarket parts suppliers.

Austempered rock points are available for use in very rocky conditions where the chromium carbide points may still be susceptible to damage from frequent contact with obstacles. Rock points are more resistant to breakage or chipping. Rock points are easily identified by the “R” cast into the top of the point.

The new DURAKARB point incorporates the best features of both the Austempered Rock point and Chromium Carbide point. The tungsten carbide tip delivers exceptional wear life in hard abrasive soils while the austempered base material of the point provides impact resistance in moderately rocky conditions.



HD STEEL SIDE PLATES

Two styles of side plates are available according to the fertilizer being used. Side plates and points can be removed independently of one another for fast servicing.



EASILY REPLACE WEAR-PARTS

The flip-fold toolbar on pull-type Gladiator models conveniently positions row units for wear-part replacement.



BEARINGS AND BUSHINGS ON ROW UNIT

Pivot points are fitted with PolyLube® bushings. No grease zerks on the row unit means no daily maintenance. The same triple lip sealed bearing is used on all rotating components throughout the row unit.



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No part better fits a KUHN machine than an original KUHN part

With KUHN Parts, you can be assured of the highest quality parts and customer service in the agriculture equipment industry. Seven distribution centers, located strategically throughout North America, ensure that KUHN, KUHN Knight and KUHN Krause dealers have access to parts and assistance so you can get back in the tractor.

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ST-PRO™ II ROW UNIT

Technical Specifications

	SHEAR-BOLT	SPRING RESET
Weight	670 lb (304 kg)	740 lb (336 kg)
Standard Equipment		
Frame Type	Integral 4-Bar Link Design	
Coulter	25", 6 Gauge	
Row Cleaners	Floating 16" Notched Disc Blades	
Shanks	5/8" x 4-7/16" Adjustable 6" to 12" Depth	
Points	2" DURAKARB™ Tungsten Point with Shank Wear Bar	
Closing Blades	16" Wavy Coulter Blades, Adjustable Angle (2, 10, 18 Degrees)	
Berm Conditioner	STRIK'R® Soil Conditioner	
Optional Equipment		
Frame Type	Integral 4-Bar Link Design with Shear-Bolt	
Points	2" Chromium Carbide with Shank Wear Bar, 2" Rock Point with Shank Wear Bar, Adapter without NH3 Style Knives	
Side Shields	HD Steel Liquid Side Shields, HD Steel Dry Side Shields	
DROP ZONE™ Nutriment Placement System	Single 1-½" Dry Tube - Stainless Steel, Dual 3/8" Liquid - Stainless Steel, Single 3/8" Liquid - Stainless Steel, Single 3/8" & 1-½" Dry Tube - Stainless Steel, 1-½" Dry Tube for Adapter Shank - Stainless Steel or None	
Closing Blades	16" Notched Reversed Disc Blades, Adjustable Angle (2, 10, 18 Degrees)	





VT-PRO™ ROW UNIT

Technical Specifications

Weight	580 lb (263 kg)
Standard Equipment	
Frame Type	Parallel Linkage with Hydraulic Downforce
Coulter	22" x 5 mm, 60-Flute Style Blade
Row Cleaners	Leading Pivot with Trailing Row Cleaners Features a 16-Tooth, 16" Diameter Row Cleaner Blades
Working Blades	18" x 5 mm, 32-Flute, 1-3/16" Shallow Concavity EXCALIBUR® CT Blades
Berm Conditioner	Contour Flat Bar Reel Soil Conditioner
Optional Equipment	
DROP ZONE™ Nutrient Placement System (Single or Dual Configuration)	Dual 3/8" Liquid - Stainless Steel
Berm Conditioner	STRIK'R® Soil Conditioner



GLADIATOR® 1210PS

Technical Specifications

	1210PS-830	1210PS-1230	1210PS-1630
Transport Width (ft/m)	12'4" (3.7 m)	17'7" (5.4 m)	
Transport Height (ft/m)	9'5" (2.9 m)	11'6" (3.5 m)	
Frame Type	Folding		
Number of Row Units	8	12	16
Row Spacing (in/cm)	30" (76 cm)		
Working Width (ft/m) - RTK Working Width	20' (6.1 m)	30' (9.1 m)	40' (12.2 m)
Weight (lb/kg)	15,412 lbs (6 991 kg)	20,685 lbs (9 374 kg)	24,312 lbs (11 030 kg)
Standard Equipment			
Hitch Type	Power Pin AB Hitch CAT III	Power Pin AB Hitch CAT IV	
Depth Control	Fixed Frame with Adjustable Shanks		
Tire/Wheels	Main Frame: Walking Tandem 445 Metric, 10-Bolt Hub Replaceable Spindles. Wing Frame: 12-Row 280 Metric Single on Each Wing / 16-Row 280 Metric Duals on each Wing, Replaceable Spindles		
Transport Locks and Safety	Hydraulic Valves, Transport and Wind Fold, Slow Moving Vehicle Sign, Height Visibility LED Lighting		
Optional Equipment			
Hitch Type	Power Pin AB Hitch CAT IV	N/A	Power Pin AB Hitch CAT V
Liquid Fertilizer	1,600 Gallon Liquid Tank, Liqui-PRO™ System and Wash Station		
Dry Fertilizer	6-Ton or 9-Ton Dry Fertilizer System from Montag Manufacturing		
Rear Hitch	Liquid or NH3, Nurse Cart		
Operation			
Recommended Operating Speed	5 - 8 mph (8 - 13 km/h)		
Recommended Operating Depth	6" - 12" (15.2 - 30.5 cm)		
Recommended Tractor Power Range	23 - 30 ENG HP/Row (17 - 22 kW/Row)		

GLADIATOR® 1210PS ADDITIONAL FEATURES



ARTICULATING BALL HITCH
Gladiator 1210 pull-type models feature CAT III or CAT IV articulating ball Power Pin hitches reducing wear on the tractor drawbar.



TRANSPORT ADVANTAGE
Changing from field operation to transport is quick and easy. The durable, fixed frame design with flip and fold toolbar, provides balanced, safe transport.



WING GAUGE WHEEL
The front gauge wheel provides stabilization of the row unit. New metric tires with improved rubber compound offer increased stubble resistance.



MAINFRAME AND WHEELS
The mainframe features 440 metric tires on 10-bolt hubs in addition to 1/2" wall thickness on the tongue box section to support the 9-ton fertilizer tank.



REAR HITCH
This option allows customers to pull nurse carts for liquid or anhydrous fertilizer. With an extendable tongue and attached winch, one person can easily connect nurse carts.

GLADIATOR® 1210PV

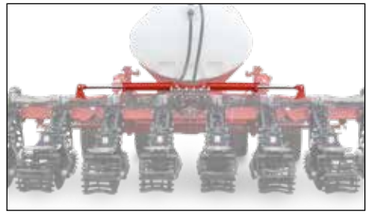
Technical Specifications

	1210PV-1230	1210PV-1630
Transport Width (ft/m)	16'1" (4.9 m)	
Transport Height (ft/m)	12'1" (3.7 m)	12'5" (3.8 m)
Frame Type	Folding	
Number of Row Units	12	16
Row Spacing (in/cm)	30" (76 cm)	
RTK Working Width (ft/m)	30' (9.1 m)	40' (12.2 m)
Weight (lb/kg)	18,765 lbs (8 512 kg)	21,752 lbs (9 867 kg)
Standard Equipment		
Hitch Type	Power Pin AB Hitch CAT IV	
Depth Control	Fixed Frame with Row Unit Adjustable Coulter Depth	
Hydraulics	In-Cab Touchscreen Display Adjusts Row Unit Downforce 250 - 1100 psi, Row Cleaners 115 - 200 psi	
Tire/Wheels	Main Frame: Walking Tandem 445 Metric, 10-Bolt Hub Replaceable Spindles. Wing Frame: 12-Row 280 Metric Single on Each Wing / 16-Row 280 Metric Duals on each Wing, Replaceable Spindles	
Transport Locks and Safety	Hydraulic Valves, Transport and Wing Fold, Slow Moving Vehicle Sign, Height Visibility LED Lighting	
Optional Equipment		
Hitch Type	N/A	Power Pin AB Hitch CAT V
Liquid Fertilizer	1,600 Gallon Liquid Tank, Liqui-PRO System and Wash Station	
Rear Hitch	Liquid Nurse Cart	
Operation		
Recommended Operating Speed	7 - 10 mph (11 - 16 km/h)	
Recommended Operating Depth	2" - 5" (5.0 - 12.7 cm)	
Recommended Tractor Power Range	12 - 17 ENG HP/Row (9 - 13 kW/Row)	

GLADIATOR® 1210PV ADDITIONAL FEATURES



TOUCHSCREEN DISPLAY
The machine comes standard with a high-visibility 4.3" touchscreen display. The display features four ergonomic side keys for fast, precise control. In-cab adjustment of row cleaners and row unit downforce helps ensure optimal machine settings while maximizing uptime and overall efficiency.



WING DOWN PRESSURE
The machine is equipped with wing down pressure to ensure even weight distribution for consistent row unit performance across the full length of the toolbar. This allows each row unit to maintain consistent depth regardless of its position, while maximizing performance by maintaining a stable toolbar height and position.



TRANSPORT
In transport mode, VT-PRO™ row units are raised to the transport position to increase ground clearance on mounted toolbars and reduce transport width on pull-type machines. This adjustment is easily made through the in-cab touchscreen display.

GLADIATOR® 1210MS

Technical Specifications

	1210MS 4-ROW 430/436/438/440	1210MS 6-ROW 630/636/638/640	1210MS 8-ROW RIGID 830R/836R/838R/840R	1210MS 8-ROW FOLDING 830F/836F/838F/840F	1210MS 12-ROW 1230/1236/1238/1240	1210MS 16-ROW 1630
Transport Height	6'5" (2 m)	6'5" (2 m)	6'5" (2 m)	11'9"/12'/12'2"/12'1" (3.6/3.7/3.7/3.7 m)	12'4"/12'4"/12'4"/12'4" (3.7/3.7/3.7/3.7 m)	12'4" (3.7 m)
Transport Width	10'/ 11'11" /11'11"/11'11" (3.1/3.7/3.7/3.7 m)	14'4"/16'10"/17'8"/18'6" (4.3/5.1/ 5.3/5.6 m)	19'4"/22'10"/24'/25'2" (5.9/7/7.3/7.7 m)	13' 9"/14'7"/14'11"/15'3" (4.2/4.4/4.5/4.6 m)	16'10"/19'10"/20'10"/21'10" (5.1/6.0/6.3/6.7 m)	22'1" (6.8 m)
Frame Type	Rigid	Rigid	Rigid	Folding	Folding	Folding
Number of Row Units	4	6	8	8	12	16
Row Spacing	30"/36"/38"/40" (76/91/98/101 cm)	30"/36"/38"/40" (76/91/96/101 cm)	30"/36"/38"/40" (76/91/96/101 cm)	30"/36"/38"/40" (76/91/96/101 cm)	30"/36"/38"/40" (76/91/96/101 cm)	30" (76 cm)
Approximate Working Width	10'/12'/12'8"/13'4" (3/3.7/3.9/4.1 m)	15'/18'/19'/20' (4.6/5.5/5.8/6.1 m)	20'/24'/25'4"/26'8" (6.1/7.3/7.7/8.1 m)	20'/24'/25'4"/26'8" (6.1/7.3/7.7/8.1 m)	30'/36'/38'/40' (9.1/11/11.6/12.2 m)	40' (12.2 m)
Weight	4,688/4,799/4,799/4,803 lbs (2 117/2 177/2 177/2 179 kg)	6,556/6,575/6,602/6,629 lbs (2 974/2 982/2 995/3 007 kg)	8,113/8,235/8,273/9,253 lbs (3 680/3 735/3 753/4 197 kg)	8,884/9,112/9,187/9,253 lbs (4 030/4 133/4 167/4 197 kg)	13,071/13,441/13,557/13,764 lbs (5 929/6 097/6 149/6 243 kg)	16,965 lbs (7 695 kg)
Standard Equipment						
Hitch Type	CAT 3 / CAT 3N		CAT 3 / CAT 3N	CAT 3 / 4N		CAT 3 / CAT 4N / CAT 4
Frame Type	3-PT Mounted, 7" x 7" Double Beam Toolbar Frame		3-PT Mounted, 7" x 7" Double Beam Toolbar Frame			
Depth Control	Fixed Frame with Adjustable Shanks		Fixed Frame with Adjustable Shanks			
Hydraulics	Not Applicable		Not Applicable	(2) 3.5" x 20" Cylinders, Male ISO Couplers on Hydraulic Hoses	(2) 4" x 24" Cylinders, Male ISO Couplers on Hydraulic Hoses	
Gauge Wheels	(2) Adjustable 20.5 x 8" Load Range E		(2) Adjustable 20.5 x 8" Load Range E			
Transport Locks and Safety	Slow Moving Vehicle Sign, Transport Light Kit		Slow Moving Vehicle Sign, Transport Light Kit			
Optional Equipment						
Wing Gauge Wheels	Not Applicable		(2) Adjustable 20.5" x 8" Load Range E			
Rear Hitch	Hitch for Liquid or NH3 Tank or Steerable Cart		Hitch for Liquid or NH3 Tank or Steerable Cart			
Dry Fertilizer	Steerable Cart 3.5-Ton Dry Fertilizer System	Steerable Cart 3.5- or 6-Ton Dry Fertilizer System	Steerable Cart 6- or 9-Ton Dry Fertilizer System			
Liquid Fertilizer	Steerable Cart 1,200 Gallon Liquid Fertilizer System		Steerable Cart 1,600 Gallon Liqui-PRO™ Fertilizer System (30" Spacing Only)			
Operation						
Recommended Operating Speed	5 - 8 mph (8 - 13 km/h)		5 - 8 mph (8 - 13 km/h)			
Recommended Operating Depth	6" - 12" (15.2 - 30.5 cm)		6" - 12" (15.2 - 30.5 cm)			
Recommended Tractor Power Range	23 - 30 ENG HP/Row (17 - 22 kW/Row)		23 - 30 ENG HP/Row (17 - 22 kW/Row)			

GLADIATOR® 1210MS / 1210MV ADDITIONAL FEATURES



REAR HITCH
The rear hitch option is available for customers who want to pull nurse carts for liquid or anhydrous fertilizer. The rear hitch features an extendable tongue and attached winch to enable one person to easily connect nurse carts.

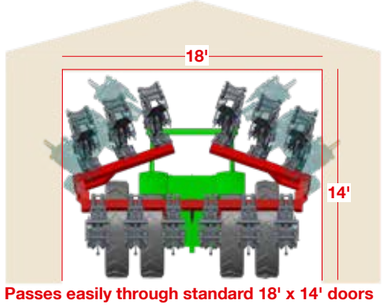


REAR LIFT ASSIST
Rear lift assist provides support on larger 3-point units where tractor linkage capacity is at its limit. The lift assist is plumbed to the tractor 3-point so it is automatically activated when raising or lowering the toolbar.

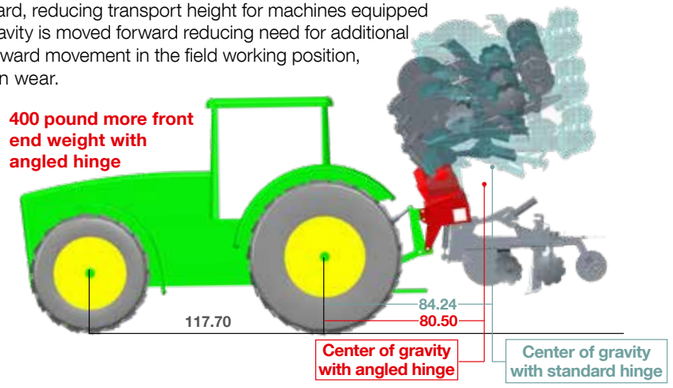


KEVLAR GAUGE WHEELS
Kevlar gauge wheels are available for 3-point toolbars for increased durability in tough stalks.

THE ANGLED HINGE ADVANTAGE
The unique angled hinge allows wing sections to fold forward, reducing transport height for machines equipped with Spring Reset row units. When folded, the center of gravity is moved forward reducing need for additional tractor ballast and increasing stability. The hinge resists upward movement in the field working position, thereby helping to maintain target depth, reducing pivot pin wear.



Passes easily through standard 18' x 14' doors



Strip-till machine with standard hinge and spring reset row units
GLADIATOR® 1210M-1230 with angled hing and spring-reset row units

GLADIATOR® 1210MV

Technical Specifications

	GLADIATOR® 1210MV-430	GLADIATOR® 1210MV-630	GLADIATOR® 1210MV-830R	GLADIATOR® 1210MV-830F	GLADIATOR® 1210MV-1230	GLADIATOR® 1210MV-1630
Transport Height	4'6" (1.4 m)		4'6" (1.4 m)	10'11" (3.3 m)		10'7" (3.2 m)
Transport Width	9'9 " (3.0 m)	14'3" (4.3 m)	19'3" (5.9 m)	14'2" (4.3 m)	16'7" (5.1 m)	21'8" (6.6 m)
Frame Type	Rigid		Rigid	Folding		
Number of Row Units	4	6	8	8	12	16
Row Spacing	30" (76 cm)		30" (76 cm)			
Working Width - RTK Working Width	10' (3 m)	15' (4.6 m)	20' (6.1 m)	20' (6.1 m)	30' (9.1 m)	40' (12.2 m)
Weight - Specifications May Vary Due to Equipment Options and/or Operating Conditions	4,048 lbs (1 836 kg)	5,596 lbs (2 538 kg)	6,833 lbs (3 100 kg)	7,604 lbs (3 450 kg)	11,151 lbs (5 058 kg)	14,405 lbs (6 534 kg)
Standard Equipment						
Hitch Type	CAT 3 / CAT 3N		CAT 3 / CAT 3N	CAT 3 / CAT 4N		CAT 3 / CAT 4N / CAT 4
Frame Type	3-PT Mounted, 7" x 7" Double Beam Toolbar Frame		3-PT Mounted, 7" x 7" Double Beam Toolbar Frame			
Row Unit	See Row Specification Table for Additional Information		See Row Specification Table for Additional Information			
Depth Control	Fixed Frame with Row Unit Adjustable Coulter Depth		Fixed Frame with Row Unit Adjustable Coulter Depth			
Hydraulics	In-Cab Touch Screen Display for Adjusting Hydraulic Row Cleaner & Row Unit Downforce, Male ISO Coupler on Hydraulic Hoses		In-Cab Touch Screen Display for Adjusting Hydraulic Row Cleaner and Row Unit Downforce, (2) 4" x 24" Cylinders, Male ISO Coupler on Hydraulic Hoses			
Gauge Wheels	(2) Adjustable 20.5 x 8" Load Range E		(2) Adjustable 20.5 x 8" Load Range E			
Transport Locks and Safety	Slow Moving Vehicle Sign, Transport Light Kit		Slow Moving Vehicle Sign, Transport Light Kit			
Optional Equipment						
Wing Gauge Wheels	Not Applicable		(2) Adjustable 20.5 x 8" Load Range E			
Rear Hitch	Hitch for Liquid or Steerable Cart		Hitch for Liquid or Steerable Cart			
Dry Fertilizer	Not Applicable		Not Applicable			
Liquid Fertilizer	Steerable Cart 1,200 GallonTank		Steerable Cart 1,600 Gallon Liqui-PRO Fertilizer System			
Operation						
Recommended Operating Speed	7 - 10 mph (11-16 km/h)		7 - 10 mph (11-16 km/h)			
Recommended Operating Depth	2" - 5" (5.0 - 12.7 cm)		2" 5" (5.0 - 12.7 cm)			
Recommended Tractor Power Estimates Only. Horsepower Requirements Will Vary by Geography and Soil Type	12 - 17 ENG HP/Row (9 - 13 kW/Row)		12 - 17 ENG HP/Row (9 - 13 kW/Row)			





GLADIATOR® 1210C

The Gladiator 1210C uses only ST-PRO™ II row units and offers a configurable, rigid toolbar for customers requiring a row unit/row spacing combination that is not offered within the current Gladiator 1210M range. This model will be particularly useful for growers looking for strip-till equipment to suit crops frequently grown on “non-traditional” spacings (i.e. hemp on 60"). Three different toolbar lengths are available and can be equipped with 2 – 8 rows (depending on toolbar length).



Technical Specifications

	GLADIATOR 1210C-139	GLADIATOR 1210C-221	GLADIATOR 1210C-301
Transport Height	6'5" (2 m)	6'5" (2 m)	6'5" (2 m)
Transport Width	11'11" (3.7 m)	18'6" (5.6 m)	25'2" (7.7 m)
Frame Type	Rigid	Rigid	Rigid
Number of Row Units	2-4	2-6	2-8
Row Spacing	27.6" (70 cm)	27.6" (70 cm)	27.6" (70 cm)
Approximate Weight (incl. 2 Row Units)	3,243 lb (1 471 kg)	5,069 lb (2 299 kg)	6,751 lb (3 062 kg)
Additional Weight per Row Unit	780 lb (354 kg)	780 lb (354 kg)	780 lb (354 kg)
Standard Equipment			
Hitch Type	CAT 3 / CAT 3N		
Frame Type	3-PT Mounted, 7" x 7" Double Beam Toolbar Frame		
Row Unit	See Row Specification Table for Additional Information		
Depth Control	Fixed Frame with Adjustable Shanks		
Gauge Wheels	(2) Adjustable 20.5 x 8" Load Range E		
Transport Locks and Safety	Slow Moving Vehicle Sign, Transport Light Kit		
Operation			
Recommended Operating Speed	5 - 8 mph (8 - 13 km/h)		
Recommended Working Depth	6" - 12" (15.2 - 30.5 cm)		
Recommended Tractor Power	23 - 30 ENG HP/Row (17 - 22 kW/Row)		

Toolbar Selection Chart

Row Spacing	Number Rows: 2	3	4	5	6	7	8
30	1210C-139	1210C-139	1210C-139	1210C-221	1210C-221	1210C-301	1210C-301
32	1210C-139	1210C-139	1210C-139	1210C-221	1210C-221	1210C-301	1210C-301
34	1210C-139	1210C-139	1210C-139	1210C-221	1210C-221	1210C-301	1210C-301
36	1210C-139	1210C-139	1210C-139	1210C-221	1210C-221	1210C-301	1210C-301
38	1210C-139	1210C-139	1210C-139	1210C-221	1210C-301	1210C-301	1210C-301
40	1210C-139	1210C-139	1210C-139	1210C-221	1210C-301	1210C-301	1210C-301
42	1210C-139	1210C-139	1210C-139	1210C-221	1210C-301	1210C-301	N/A
44	1210C-139	1210C-139	1210C-221	1210C-221	1210C-301	1210C-301	N/A
46	1210C-139	1210C-139	1210C-221	1210C-221	1210C-301	1210C-301	N/A
48	1210C-139	1210C-139	1210C-221	1210C-301	1210C-301	1210C-301	N/A
50	1210C-139	1210C-139	1210C-221	1210C-301	1210C-301	N/A	N/A
52	1210C-139	1210C-139	1210C-221	1210C-301	1210C-301	N/A	N/A
54	1210C-139	1210C-139	1210C-221	1210C-301	1210C-301	N/A	N/A
56	1210C-139	1210C-139	1210C-221	1210C-301	1210C-301	N/A	N/A
58	1210C-139	1210C-139	1210C-221	1210C-301	N/A	N/A	N/A
60	1210C-139	1210C-139	1210C-221	1210C-301	N/A	N/A	N/A
62	1210C-139	1210C-139	1210C-221	1210C-301	N/A	N/A	N/A
64	1210C-139	1210C-221	1210C-221	1210C-301	N/A	N/A	N/A
66	1210C-139	1210C-221	1210C-221	1210C-301	N/A	N/A	N/A
68	1210C-139	1210C-221	1210C-221	1210C-301	N/A	N/A	N/A
70	1210C-139	1210C-221	1210C-301	1210C-301	N/A	N/A	N/A
72	1210C-139	1210C-221	1210C-301	1210C-301	N/A	N/A	N/A
74	1210C-139	1210C-221	1210C-301	N/A	N/A	N/A	N/A
76	1210C-139	1210C-221	1210C-301	N/A	N/A	N/A	N/A
78	1210C-139	1210C-221	1210C-301	N/A	N/A	N/A	N/A
80	1210C-139	1210C-221	1210C-301	N/A	N/A	N/A	N/A

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