

Vertical Tillage

EXCELERATOR® 8000



Invest in Quality®

ACCELERATE RESIDUE BREAKDOWN

ONE PASS

The Kuhn Krause EXCELERATOR Vertical Tillage System provides exceptional residue cutting, soil and residue mixing and seedbed preparation in one pass, utilizing an exclusive 4-step process.

SOLUTIONS

True vertical tillage delivers residue cutting and soil mixing without soil shearing or smearing in the critical zone for seed placement and young seedling root development.

YOU DECIDE

This exclusive 4-step process makes the EXCELERATOR one of the only vertical tillage systems to provide operators a choice:

- Move soil laterally to fill ruts and smooth fields following less than ideal harvest conditions.
- Leave more residue to meet requirements for highly erodible land (HEL) conditions.

VERTICAL TILLAGE SYSTEM EXCELERATOR 8000 in brief

Models	Working Width	Number of Blades	Weight (lbs / kg)
8000-14	14'	45	11,264 / 5,109
8000-20	20'	65	17,063 / 7,740
8000-25	25'	77	19,091 / 8,659
8000-30	30'	93	21,586 / 9,791
8000-40	40'	121	31,313 / 14,203
8000-50	50'	153	42,050 / 19,074



VERTICAL TILLAGE SYSTEM

EXCLUSIVE 4-STEP PROCESS

1 CAPTURE AND SLICE

EXCALIBUR® Blades, with their distinctive scalloped edge, capture and slice residue into planter-manageable sizes. This exclusive 32-flute design easily penetrates soil, creates small clod size and begins the soil and residue mixing process.

2 CUT AND REMOVE

In this high-speed process adjustable gang angles with EXCALIBUR blades on 8" spacing remove the maximum amount of uncut soil at shallow depth settings, while minimizing furrowing and ridging for a smooth field finish.

3 MIX AND ANCHOR

Exclusive to Kuhn Krause, rotary STAR WHEEL™ treaders aggressively mix soil and residue, pulverize large clods, remove soil from disturbed root balls and anchor residue into the soil surface.

4 SIZE AND FIRM

The proven 24/7® Soil Conditioning Reel delivers clod sizing and firming for this high-speed operation.



MANAGE RESIDUE WITH CONFIDENCE

EXCALIBUR blades are designed to meet the challenges of cutting tough GMO residue. You can be confident that the residue management achieved during fall operation will accomplish your goals of superior seedbed preparation in high residue situations.

EXCALIBUR® BLADE CAPTURE AND SLICE RESIDUE

Soil movement and residue mixing are varied by adjusting the gangs from 1° (maximum residue retention) to 5° (maximum soil movement, leveling and residue mixing). Hydraulic gang angle adjustment is available as an option. EXCALIBUR blades are designed to wear on both sides of the blade at these settings, maintaining a sharp edge over time. These shallow angles prevent soil smearing, distinguishing the EXCELERATOR's performance from competitive units based on older disc harrow technology with typical gang angles from 10° to 22°.



CUT AND REMOVE

The second gang of EXCALIBUR blades are indexed to the front 8" spaced blades to remove the maximum amount of uncut soil at shallow depth settings. This provides a uniform depth of tillage without smearing or compacting the critical seed zone required for consistent seedling root development. During this process, soil and residue are lifted above the surface and propelled by the fluted blades into the next step of this exceptional vertical tillage process. The unique design of the EXCALIBUR blades minimizes furrowing and ridging, leaving a smooth field pass-to-pass.

MIX AND ANCHOR



KUHN KRAUSE EXCLUSIVE STAR WHEEL™ TREADERS

Aggressively mix soil and residue, pulverize large clods, level and anchor residue into the soil surface. This action protects residue from blowing winds or washing rains, and begins the decomposition of residue into valuable organic matter.



SMOOTH, EVEN PLANTING SURFACE

The STAR WHEEL treaders assist in breaking out any remaining uncut soil between blade paths providing a smooth, even surface for planter row units to place seeds consistently in the seed zone. These gangs are spring cushioned to contour over varying field conditions, evenly distributing residue across the soil surface for a uniform finish.

24/7® CONDITIONING REEL OPTIONS



24/7 CONDITIONING REEL

The proven 24/7 Soil Conditioning Reel delivers clod sizing and firming for this high-speed operation. The 24/7 reel also offers the convenience of "floating" with a simple in-field adjustment, allowing continued operation in higher soil moisture conditions.



TWO REEL OPTIONS AVAILABLE

Available with flat blades for maximum clod sizing in hard soil conditions or round bars for increased soil firming in loamy soil conditions, this effective component completes a superior finish to any field.



SAFE, CONVENIENT TRANSPORT

The Kuhn Krause EXCELERATOR boasts the narrowest transport width of vertical tillage machines in the industry, giving you comfort when transporting from field to field.

ADDITIONAL FEATURES



GUARDIAN HITCH®

This exclusive option guards against stress on the tractor drawbar and implement frame. Lateral drawbar forces are transferred through the hitch pivot, where shock load from steering input is dampened by urethane blocks.



TRACTOR INTERFACE CENTER

This standard feature on all EXCELERATOR models prevents hydraulic hoses from binding in turns and adds operator convenience. Includes hose routing chart, color-coded hose grips, storage for light hookup and owner's manual.



SINGLE-POINT DEPTH CONTROL

Blade depth is controlled conveniently with the crank adjustable depth stop located at the front of the machine. View working depth on the easy-to-read scale.



STAR WHEEL HYDRAULICS

Live hydraulic action keeps treaders in contact with soil contours maintaining uniform operational pressure across the width of the machine. This allows for superior soil leveling and residue mixing.



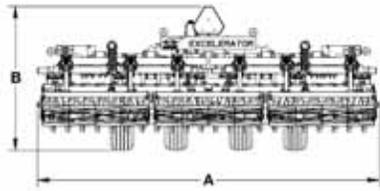
HYDRAULIC WING DOWN-PRESSURE

The EXCELERATOR features standard constant flow hydraulic down-pressure. This feature can add additional downforce to each wing via the wing fold cylinders. This feature stabilizes each wing section during high-speed operation.

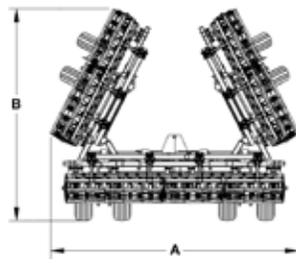


WALKING BEAMS

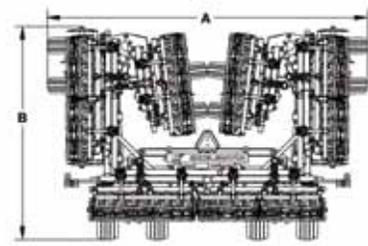
Standard heavy-duty walking beams on the center section feature 8-bolt transport wheel hubs. Wheel spindles are "slip-in" replaceable for easy servicing. Walking beam tandems on each wing frame have 6-bolt hubs with bolt in spindles as standard equipment.



8000-14



8000-20 to 8000-30



8000-40 and 8000-50

Model Specifications

MODELS	8000-14	8000-20	8000-25	8000-30	8000-40	8000-50	
DIMENSIONS							
A Transport Width ²	15'3" / 4.7 m	12'2" / 3.7 m	12'2" / 3.7 m	15'3" / 4.6 m	19'0" / 5.8 m	19'4" / 5.88 m	
B Transport Height ²	6'5" / 2.0 m	10'9" / 3.2 m	12'9" / 3.8 m	13'6" / 4.1 m	12'5" / 3.8 m	14'9" / 4.5 m	
SPECIFICATIONS							
Blade Spacing	8" / 20.3 cm						
Number of Blades	45	65	77	93	121	153	
Working Width ¹	14' / 4.3 m	20' / 6.1 m	25' / 7.6 m	30' / 9.1 m	40' / 12.2 m	50' / 15.2 m	
Approximate Weight ² lb/kg	11,264 / 5,109	17,063 / 7,740	19,091 / 8,659	21,586 / 9,791	31,313 / 14,203	42,050 / 19,074	
Standard Equipment							
- Hitch	Ductile Tongue 1-1/2" Pin Hole	Ductile Tongue Type 2" Pin Hole, Mechanical Level Lift				Guardian Hitch® 2-3/4" Pin Hole	
- Hydraulics	Cylinders with Royal Plate Plus, Color Coded Hydraulic Hose Grips, All Hydraulic Hoses						
- Transport Locks and Safety	Hydraulic Valves, Lift and Wing Fold, High Visibility LED Lighting, SMV Sign						
Excalibur Gangs							
- Gangs	1-3/4" Round Diameter Alloy Tie Rod, Rock-Flex® Bearing Arms - C-Type 1-1/4" x 2-1/2", 6" Diameter Ductile Iron Spools, Regreaseable SuperSeal Bearings Encased in Rubber, Trash Bars, Tied Rod Wrench						
- Gang Angle	Mechanical Adjustment 1° to 5°					Hydraulic Adjustment 1° to 5°	
- Excalibur® Blades	Excalibur Blades - 22" Diameter, 5mm, 32 Flute, Reversed Crimped Center, Trash Bars, Tie Rod Wrench						
Star Wheel Treaders							
- Gang	1-1/2" Round Diameter Alloy, Rigid Bearing Arms, 8" Spacing, 6° angle, Regreaseable SuperSeal Bearings, Spring Cushion Gangs						
Tires/Wheels							
- Main Frame	Walking Beams, Slip-In Spindles, 6-Bolt Heavy-Duty Hubs (4) 12.5L x 15" 12 ply	Walking Beams, Slip-In Spindles, 8-Bolt Heavy-Duty Hubs (4) 12.5L x 15" FI			Walking Beams, Slip-In Spindles, 8-Bolt Heavy-Duty Hubs (4) 380/60R16.5	Walking Beams, Slip-In Spindles, 10-Bolt Heavy-Duty Hubs (4) 455/50R22.5	
- Wing Frame	N/A	Walking Beams, Replaceable Slip-In Spindles 6-Bolt Heavy Duty Hubs (2) 11L x 15" FI per wing			(2) 11L x 15" FI per wing (4) wings	Walking Beams, Slip-In Spindles, 8-Bolt Heavy-Duty Hubs (2) 340/60R16.5 per Wing	
Cylinders							
- Wing Fold	N/A	(2) 4" x 40"	(2) 4" x 40"	(2) 5" x 40"	(2) 5" x 40", (4) 4-1/2 x 16"	(2) 5" x 40", (4) 4-1/2 x 24"	
- Depth Control	(2) 4"x10"	Center: (2) 4" x 10" Wings: (2) 3-3/4" x 10"	Center: (2) 4" x 10" Wings: (2) 3-3/4" x 10"	Center: (2) 4-1/4" x 10" Wings: (2) 4" x 10"	Center: (2) 4-1/4" x 10" Inner Wing: (2) 4" x 10" Outer Wing: (2) 3-3/4 x 10"	Center: (2) 4-1/2" x 10" Inner Wing: (2) 4-1/4" x 10" Outer Wing: (2) 4 x 10"	
Optional Equipment							
Hitch	N/A			Guardian Hitch (Cushion Hitch) 2" Pin Hole		N/A	
Gauge Wheels	N/A		(2) Front Castering 20.5"x 8 Load Range E		(4) Front Castering 20.5"x 8 Load Range E		
Gang Angle	Hydraulic Adjustment 1° to 5°					N/A	
EXCALIBUR Blades	22" diameter, 6mm, 32 Flute, Reversed Crimped Center						
Star Wheel Treaders	Hydraulic Adjustment						
24/7 Conditioning Reel	Round or Flat Spiral Reels						
Rear Hitch	Extendable Tongue Rear Hitch with Hydraulic Remotes and Lighting Receptacle						
Operating Information							
Maximum Working Depth	3.5" / 8.9 cm						
Tractor Power Range ³	8 - 10 PTO Horsepower per Foot						
Recommended Speed of Operation	8 - 10 mph / 12 - 16 km/h (Rocky Conditions: 6 - 8 mph / 9 - 13 km/h)						

¹ RTK working width

² Approximate transport width, height and weight shown with optional finishing attachments.

³ Estimates only. Horsepower requirements will vary by geography and soil type.

N/A - Not applicable

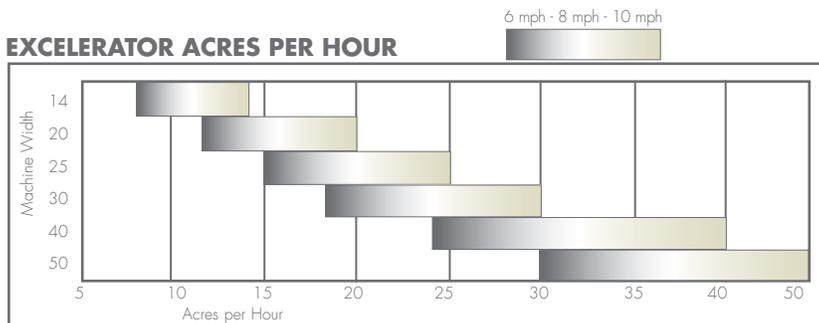
PRODUCT SYSTEMS

PRODUCT SYSTEMS

Fall

Spring

EXCELERATOR / 5200NT PRO System No-Till Drill		
EXCELERATOR / EXCELERATOR		
4830 In-Line Ripper / EXCELERATOR		
DOMINATOR / EXCELERATOR		



Based on minimum operating speed of 6 mph and maximum operating speed of 10 mph.

Kuhn Krause offers one of the most complete lines of vertical tillage machines in the industry. Five machine sizes provide a wide spectrum of acre per hour productivity for various tractor horsepower ranges, based on speed of operation.

For more information about your nearest Kuhn Krause dealer and other Kuhn Krause products, visit our website at www.KuhnKrause.com

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 Hutchinson, KS 67504
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 www.KuhnKrause.com	Your Kuhn Krause dealer
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Our machines comply with the North-American safety regulations. In our leaflets, to better illustrate certain details of the machines some safety devices could have been removed. Conforming to the assembly and operator's manual, in no circumstances must machine be operated without these safety devices in place. All machines are equipped with safety devices which comply with the regulations of the countries in which they are delivered. In the interest of progress, we reserve the right to change without notice any specifications, design or materials listed. Patents filed in several countries.

Also find Kuhn Krause on   