Disc Harrows

8100 / 7305 / 8220 / 8320









8100 / 7305 / 8220 / 8320

SEEDBED FINISHING TO PRIMARY TILLAGE

KUHN KRAUSE TANDEM DISC HARROWS PROVIDE EXCELLENT RESIDUE CUTTING AND SEEDBED PREPARATION TO ENSURE THE PROPER PLACEMENT OF SEEDS. RESIDUE RAZOR™ DISC BLADES COMBINED WITH GOOD WEIGHT-TO-BLADE RATIO ENSURE CONSISTENT SOIL PENETRATION IN A VARIETY OF CONDITIONS. A WIDE RANGE OF WIDTHS ARE AVAILABLE FOR A VARIETY OF TRACTOR POWER OPTIONS AND THE TRADEMARKED QUAD-FOLD™ PROVIDES EXCEPTIONAL TRANSPORT DIMENSIONS.





Models	Working Width	Disc Spacing	Bearing Arm
8100N	12'4" - 16'2" (3.7 - 5.1 m)	8" (20.3 cm)	Rock-Flex™
8100W	12'3" - 18'1" (3.8 - 5.5 m)	9-1/8" (23.2 cm)	Rock-Flex
7305N	18'2" - 34'1" (5.5 - 10.4 m)	7-3/4" (19.7 cm)	Rigid
7305W	18'1" - 34' (5.5 - 10.4 m)	9-1/8" (23.2 cm)	Rigid
7305NR	18'2" - 34'1" (5.5 - 10.4 m)	7-3/4" (19.7 cm)	Rock-Flex
7305WR	18'1" - 34' (5.5 - 10.4 m)	9-1/8" (23.2 cm)	Rock-Flex
8220N	18'10" - 37'8" (5.7 - 11.5 m)	8" Front, 8" Rear (20.3 cm)	Rock-Flex
8220W	19'9" - 44'3" (6 - 13.5 m)	9" Front, 9" Rear (22.9 cm)	Rock-Flex
8320N	19'10" - 37'3" (6 - 11.4 m)	9" Front, 10"Rear (22.9 cm, 25.4 cm)	Rock-Flex
8320W	19'10" - 37'3" (6 - 11.4 m)	10" Front, 10" Rear (25.4 cm)	Rock-Flex

Summary

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CHOOSE THE RIGHT DISC HARROW

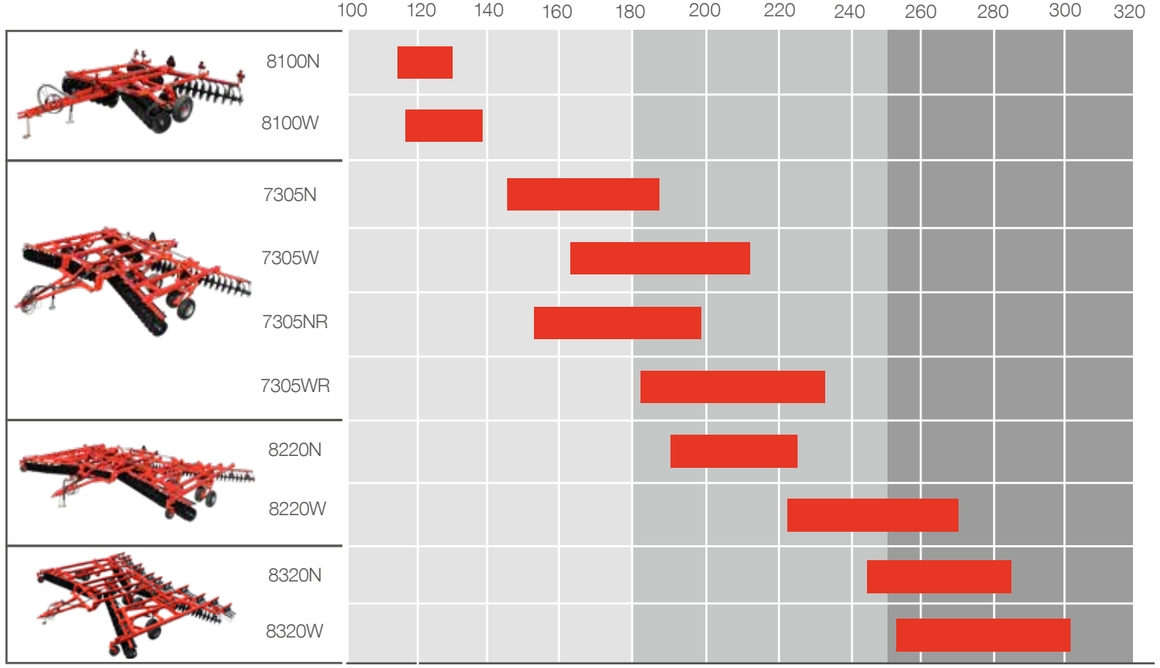
CLASS I — Seedbed Finishing
KUHN Krause Class I tandem disc harrows deliver an excellent seedbed finish. With optimal weight-to-blade ratios, these machines maintain a consistent seedbed depth, critical during early spring seedbed preparation.

CLASS II — All-Purpose
Class II tandem disc harrows provide all-purpose operation in a variety of soil and residue conditions. KUHN Krause Class II tandem disc harrows are available for a variety of tractor power requirements.

CLASS III — Primary Tillage
KUHN Krause Class III tandem disc harrows deliver primary tillage operation where maximum soil penetration and residue mixing is required. With a variety of configurations available to match your tractor power requirements, these disc harrows deliver the durability synonymous with the KUHN Krause name.

DISC HARROW CLASSIFICATION

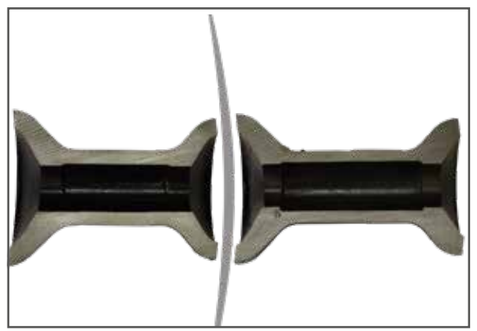
Class I	Class II	Class III
Seedbed Finishing	All-Purpose	Primary Tillage
100 - 180 lbs per blade	180 - 250 lbs per blade	250 - 300+ lbs per blade



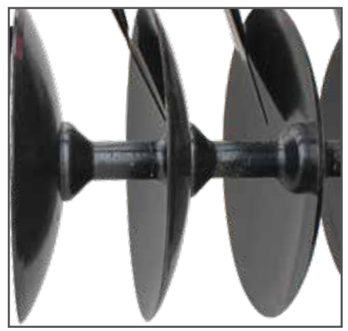
THE STRENGTH IS IN THE GANG



ROCK-FLEX™ BEARING ARMS
Rock-Flex bearing hangers flex over the toughest obstacles protecting disc gang components from damage in rocky fields. Rock-Flex C-arms also dampen shock levels during field operation and limit them from being transmitted directly to the disc frame.



SPOOLS
KUHN Krause heavy cast spools multiply the strength of the disc gang. Spools are line-bored for an exact fit on the tie rod and precision-faced to perfectly match the blade surface. A larger bell on the concave end and a smaller bell on the convex end provide an overlap fit against the blades, supporting the blade more positively without creating a stress line.



RESIDUE RAZOR™ DISC BLADES
All KUHN Krause tandem disc harrows feature Residue Razor disc blades that are engineered with a unique Boron steel optimizing strength to withstand stress and fractures, while providing flexibility in rocky conditions. Residue Razor discs have an exceptionally sharp edge, five times sharper than conventional blades.



GANGS
Gang angles are matched to each disc harrow classification to optimize depth of operation and uniform leveling for consistent performance. Rear gangs feature tapered blades to provide a level pass-to-pass finish. Bolt-on extension spool and furrow filler blade are standard equipment on KUHN Krause discs so inadvertently hitting an obstacle doesn't damage the entire gang.

BEARINGS
Rock-Flex and rigid bearing arms feature maintenance-free bearings deliver the durability synonymous with the KUHN Krause name.



TANDEM DISC HARROW 8100

8100 - CLASS I SEEDBED

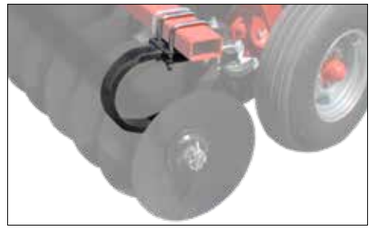
Designed for seedbed finishing, the 8100 disc harrow offers economical versatility to the owners of 60 to 145 horsepower tractors. With Rock-Flex™ bearing arms, 22" Residue Razor™ disc blades on 8" or 9" spacing, adjustable gang angles, dual wheels and a built-in rear hitch, the 8100 disc harrow allows operators to perform seedbed preparation and residue management with a variety of options.



ADDITIONAL FEATURES



COMBINATION HITCH
The combination hitch offers convenience for different styles of tractor drawbars.



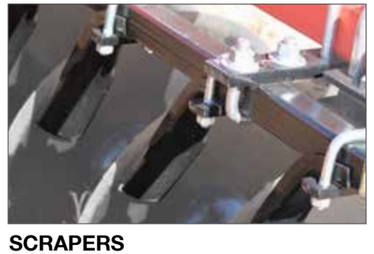
ROCK-FLEX™ BEARING ARM
Rock-Flex bearing arms with regreaseable SuperSeal bearings provide protection from rocky or hard soil conditions.



DEPTH CONTROL
Simple, adjustable stop-collar single-point hydraulic depth contol allows easy depth adjustment to meet your agronomic needs.



ADJUSTABLE GANG ANGLE
Front gang angle is adjustable from 15 degrees to 21 degrees, and rear gang angle is adjustable from 12 degrees to 18 degrees.



SCRAPERS
Rigid scrapers are strong and efficient, heat treated and hot formed from high carbon steel. Adjust each scraper individually or move the entire gang of scrapers at the same time.



REAR HITCH
A built-in rear hitch is standard on all 8100 tandem disc harrows.

TANDEM DISC HARROW 7305

7305 - CLASS I SEEDBED OR CLASS II ALL-PURPOSE

The 7305 tandem disc harrow features 22" diameter blades with 17 degree front and rear gang angle. The 17 degree gang angles give this machine unmatched performance for residue sizing, soil mixing, herbicide incorporation and field finish while reducing draft and compaction. Choose from the Class I seedbed finishing model with narrow 7 ¾" blade spacing or the Class II all-purpose model with wide 9 ⅛" blade spacing.



ADDITIONAL FEATURES



RIGID BEARING ARM
A cost-effective solution in non-rocky conditions, rigid bearing arms with maintenance-free bearings are formed to match concavity of disc blade for reliable residue and soil flow.



ROCK-FLEX™ BEARING ARM
Rock-Flex bearing arms with maintenance-free bearings provide protection from rocky or hard soil conditions.



SINGLE-POINT DEPTH CONTROL
A single-point crank-style depth control located on the left-hand side of the machine provides easy access for the operator. Fine tune depth for variable soil conditions.



RIGID SCRAPERS
Extremely strong and efficient scraper that resists wear. You can adjust each scraper individually or move the entire gang of scrapers at the same time. 3 ½" wide scrapers are standard equipment.



WING WHEELS
Forward-facing wing wheels rotate close to the front gangs for precise depth control and reduced gouging in terraced or rolling fields.



REAR HITCH
A rear trail hitch is available for 7305 tandem disc harrows that do not have a 3-bar harrow attachment.

8220 - CLASS II ALL-PURPOSE

With a choice of 22" or 24" diameter, 6 gauge or 1/4" thick Residue Razor™ disc blades on 8" or 9-1/8" spacing, producers can configure the 8220 tandem disc harrow to match their residue and soil conditions for optimum performance. The 20 degree front and 19 degree rear gang angle provide consistent residue cutting and mixing. Heavy-duty 6" ductile iron spools, rock-flex bearing arms and maintenance-free bearings offer the strength and endurance that set the 8220 above the competition.



8320 - CLASS III PRIMARY

The KUHN Krause 8320 tandem disc harrow offers a variety of disc blades options with blades spaced 9" or 10" apart on the front gang and 10" apart on the rear gang. Heavy-duty 7" diameter ductile iron spools multiply the strength of the gang. The 22 degree gang angle on the front and 19 degree gang angle on the rear allow for optimum residue cutting and mixing in primary tillage conditions.



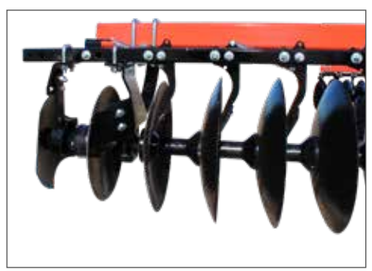
SHARED FEATURES



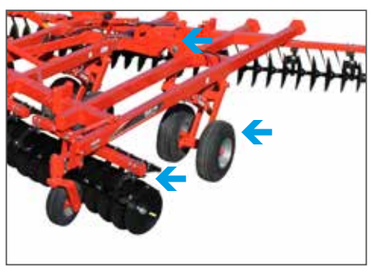
SELF-LEVELING HITCH
The massive A-frame tongue on the 8220/8320 disc harrows features a standard turnbuckle adjusted self-leveling system. Once adjusted for the tractor's drawbar height, the unit maintains level working position even when depth changes are made.



SINGLE-POINT DEPTH CONTROL
Adjust working depth across the entire disc from a single location with a convenient crank at the front of the disc. Fine-tune depth using the indicator decal.



SPRING SCRAPERS
The 5-inch scraper is easily adjusted by simply loosening a single bolt, adjusting for scraper gap if needed and locking in place by tightening the bolt. The scraper spring provides the tension to move the scraper to the specified location against the face of the disc blade.



REDUCED MAINTENANCE
Maintenance-free bearings on the gangs and optional heavy-duty 24/7® reels, no-grease wheel rocker pivots on mainframe and wings and no-grease wing hinge.



HEAVY-DUTY TRANSPORT
Heavy-duty center wheel rocker and arms Walking beams with slip-in spindles and heavy-duty hubs.



QUAD-FOLD™
Rigid center section with folding inner and outer wings allow easy field to field transport, available on 8220 36' to 44' and 8320 37' sizes.

TANDEM DISC HARROW 7305 | 8220 | 8320

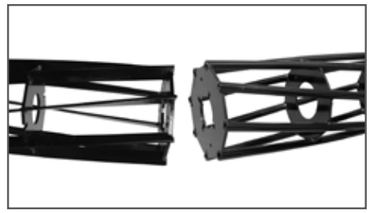
24/7® LEVELING SYSTEMS



3-BAR SPIKE HARROW
For excellent clod sizing in lot to moderate residue conditions, the 3-bar spike harrow is an efficient way to create a level seedbed. Rugged ¾" x 10" square spikes provide long lasting leveling.



3-ROW COIL TINE HARROW
Featuring a parallel link leveling system for superior residue flow and even distribution, the coil tine harrow offers an increase in yield potential and improved residue management even in high residue conditions. With 7/16" diameter 16" long tines, the 24/7 coil tine harrow ensures smoother residue distribution and better chemical incorporation.



SOIL CONDITIONING REEL
For maximum clod sizing, leveling and soil firming the 24/7 soil conditioning reel is your choice. Choose the round, heavy-duty, spiral rods for loamy soils or flat, spiral blades for high-clay soils. A float setting widens the tillage/weather window when operating in wet soil conditions.

TANDEM DISC HARROW 8220 | 8320

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.



HYDRAULIC FORE-TO-AFT LEVELING
Optional hydraulic leveling allows for field-to-field, front-to-rear leveling adjustments without leaving the cab.



CASTERING GAUGE WHEELS
To help pivot with the disc harrow on contours instead of creating a furrow, the castering gauge wheels are standard on the Quad-Fold™ models and optional on others. The wrenchless adjustment makes setting easier than ever.



WALKING BEAMS
Walking beams with metric tires and spherical pivot bearings allow for consistent working depth on rough ground and more stable road transport. Standard on all 8220 and 8320 disc harrows.



REAR HITCH
Extendable tongue that allows one person to easily connect the 8220/8320 to towed implements.



MAINTENANCE-FREE BEARINGS
No daily grease required for bearings on gangs, wheel pivots and 24/7 reels.

Technical Specifications

	8100-12N/ 8100-12W	8100-14N/ 8100-14W	8100-15N/ 8100-15W	8100-16N	8100-18W
Transport Width	13'11" (4.2 m)/ 13'10" (4.2 m)	15'2" (4.6 m)/ 15'4" (4.6 m)	16'5" (5 m)/ 16'10" (5.1 m)	17'9" (5.4 m)	19'8" (6 m)
Frame Type	Rigid	Rigid	Rigid	Rigid	Rigid
Number of Disc Blades	38/34	42/38	46/42	50	50
Number of Bearing Arms	8	8	12	12	12
Working Width	12'4" (3.7 m)/ 12'3" (3.8 m)	13'7" (4.1 m)/ 13'9" (4.2 m)	14'10" (4.5 m)/ 15'3" (4.6 m)	16'2" (4.9 m)	18'1" (5.5 m)
Weight	4,624 lb (2 097 kg)/ 4,456 lb (2 021 kg)	4,889 lb (2 218 kg)/ 4,722 lb (2 142 kg)	5,317 lb (2 412 kg)/ 5,154 lb (2 338 kg)	6,449 lb (2 925 kg)	6,568 lb (2 979 kg)
Disc Blade Spacing	8" (20.3 cm)/ 9-⅛" (23.2 cm)			8" (20.3 cm)	9-⅛" (23.2 cm)
Disc Gang Angle	Front 15, 18, 21 Degrees, Rear 12, 15, 18 Degrees				
Standard Equipment					
Hitch Type	Combination 1-½" (38mm) Pin				
Leveling	Fore-Aft Mechanical Leveling				
Hydraulics	Color-Coded Hydraulic Hose Grips				
Depth Control	Mechanical Stroke Control				
Disc Gangs	1-¾" Round Diameter Alloy Tie Rod, Rock-Flex™ Bearing Arms 1-¼" x 2-½", 6" Bell Diameter Ductile Iron Spools, Regreaseable SuperSeal Bearings				
Disc Blades	22" x 6 Gauge Residue Razor™ Solid Edge				
Taper Blades	Front 22" - 20", Rear 22" - 20" - 18" - 16" Bolt-On Furrow Filler				
Disc Scrapers	Adjustable 3.5" (8.9 cm) Wide				
Rear Hitch	Hitch Lug Weldment				
Tires	(4) 9.5L x 15" 8-Ply, Duals, 6-Bolt Heavy-Duty Hubs				
Transport Locks and Safety	Tongue Jack, High Visibility LED Lighting, Slow Moving Vehicle Sign				
Optional Equipment					
Disc Blades	22" x ¼" Notched Edge				
Disc Blades	22" x ¼" Notched Edge Front and 22" x ¼" Rear Residue Razor™ Solid				
Disc Blades	22" x ¼" Residue Razor™ Solid Edge				
Finishing Attachments	3-Row Tine Harrow, 16" Tines				
Operation					
Recommended Operating Speed	4 - 6 mph (6 - 9 km/h)				
Working Depth Range	2" - 5" (5 - 12.7 cm)				
Recommended Tractor Power	6 - 9 ENG HP/ft (14 -23 kW/m)				

Technical Specifications

7305 Models with Rigid Bearing Arms	7305-18N	7305-18W	7305-21N	7305-21W	7305-24N	7305-24W	7305-27N	7305-27W	7305-31N	7305-31W	7305-34N	7305-34W
Transport Width	10'11" (3.3 m)	10'11" (3.3)	10'11" (3.3 m)	10'11" (3.3)	14'7" (4.4 m)	14'7" (4.4)	14'7" (4.4)	14'7" (4.4)	16'4" (5 m)	16'4" (5 m)	16'4" (5 m)	16'4" (5 m)
Transport Height	10'2" (3.1 m)	10'2" (3.1 m)	11'7" (3.5 m)	11'7" (3.5 m)	11'6" (3.5 m)	11'6" (3.5 m)	12'10" (3.9 m)	12'10" (3.9 m)	14'2" (4.3 m)	14'2" (4.3 m)	15'6" (4.7 m)	15'6" (4.7 m)
Frame Type	3-Section	3-Section	3-Section	3-Section	3-Section	3-Section	3-Section	3-Section	3-Section	3-Section	3-Section	3-Section
Number of Disc Blades	58	50	66	58	78	66	86	74	102	86	110	94
Number of Bearing Arms	16	16	20	20	20	20	20	20	26	26	26	26
Working Width	18'2" (5.5 m)	18'1" (5.5 m)	20'7" (6.3 m)	21' (6.4 m)	24'4" (7.4 m)	23'11" (7.3 m)	26'9" (8.2 m)	26'9" (8.2 m)	31'8" (9.7 m)	31'1" (9.5 m)	34'1" (10.4 m)	34' (10.4 m)
Weight	10,476 lb (4 752 kg)	10,238 lb (4 644 kg)	11,265 lb (5 110 kg)	11,034 lb (5 005 kg)	12,898 lb (5 850 kg)	12,379 lb (5 615 kg)	13,268 lb (6 018 kg)	12, 962 lb (5 879 kg)	15,155 lb (6 874 kg)	14,610 lb (6 627 kg)	15,698 lb (7 120 kg)	15,173 lb (6 882 kg)
Standard Equipment												
Disc Blade Spacing	7-¾" (19.7 cm)	9-⅛" (23.2 cm)	7-¾" (19.7 cm)	9-⅛" (23.2 cm)	7-¾" (19.7 cm)	9-⅛" (23.2 cm)	7-¾" (19.7 cm)	9-⅛" (23.2 cm)	7-¾" (19.7 cm)	9-⅛" (23.2 cm)	7-¾" (19.7 cm)	9-⅛" (23.2 cm)
Disc Gang Angle	17 Degrees Front and Rear					17 Degrees Front and Rear						
Hitch Type	CAT III, Articulating Ball Cast Hitch, 1-½" Pin				CAT IV, Articulating Ball Cast Hitch, 2" Pin	CAT IV, Articulating Ball Cast Hitch, 2" Pin						
Leveling	Fore-Aft Mechanical Adjustable, Level-Lift Tongue					Fore-Aft Mechanical Adjustable, Level-Lift Tongue						
Hydraulics	Color-Coded Hydraulic Hose Grips					Color-Coded Hydraulic Hose Grips						
Depth Control	Crank Style, Single-Point Hydraulic Depth Control					Crank Style, Single-Point Hydraulic Depth Control						
Disc Gangs	1-¾" Round Alloy Tie Rod, 6" Bell Diameter Ductile Iron Spools, Rigid Bearing Arms, Maintenance-Free Bearings					1-¾" Round Alloy Tie Rod, 6" Bell Diameter Ductile Iron Spools, Rigid Bearing Arms, Maintenance-Free Bearings						
Disc Blades	22" x 6 Gauge Residue Razor™ Solid Edge					22" x 6 Gauge Residue Razor™ Solid Edge						
Taper Blades	Front 22" - 20", Rear 22" - 20" - 18" - 16", Bolt-On Furrow Filler					Front 22" - 20", Rear 22" - 20" - 18" - 16", Bolt-On Furrow Filler						
Disc Scrapers	Adjustable 3.5" (8.9 cm) Wide					Adjustable 3.5" (8.9 cm) Wide						
Center Section Tires	(4) 280/70R15, Duals, 6-Bolt Heavy-Duty Hubs					(4) 280/70R15, Duals, 6-Bolt Heavy-Duty Hubs						
Wing Section Tires	(1) 280/70R15, Single, 6-Bolt Heavy-Duty Hub, per Wing					(2) 280/70R15, Walking Beam, 6-Bolt Heavy-Duty Hub, per Wing						
Transport Locks and Safety	Hydraulic Ball Valve Wing-Fold and Transport Lock, Slow Moving Vehicle Sign, LED Lighting					Hydraulic Ball Valve Wing-Fold and Transport Lock, Slow Moving Vehicle Sign, LED Lighting						
Optional Equipment												
Wing Gauge Wheels	(2) 20.5 x 8 Load Range E OR (2) 20.5 x 8 (Kevlar)					(2) 20.5 x 8 Load Range E OR (2) 20.5 x 8 (Kevlar)						
Leveling	Hydraulic Fore-Aft Leveling					Hydraulic Fore-Aft Leveling			Mechanical Fore-Aft Leveling			
Rear Jack Mount	Jack Extension Weldment					Jack Extension Weldment						
Disc Blades	22" x 7 Gauge Residue Razor™ Solid Edge					22" x 7 Gauge Residue Razor™ Solid Edge						
Center Section Tires	(4) 280/70R15, Walking Beams, Center, 6-Bolt Heavy-Duty Hubs					Not Applicable						
Wing Section Tires	Not Applicable					(2) 280/70R15 Duals, 6-Bolt Heavy-Duty Hubs per Wing						
Rear Hitch	Rear Hitch, 10,000 lb Horizontal and 1,000 lb Vertical Load					Rear Hitch, 10,000 lb Horizontal and 1,000 lb Vertical Load						
Finishing Attachments	3-Bar Harrow OR 16" Coil-Tine					3-Bar Harrow OR 16" Coil-Tine						
Operation												
Recommended Operating Speed	5 - 7 mph (8 - 11 km/h)					5 - 7 mph (8 - 11 km/h)						
Working Depth Range	2" - 5" (5 - 12.7 cm)					2" - 5" (5 - 12.7 cm)						
Recommended Tractor Power	7 - 11 ENG HP/ft (17 - 26 kW/m)					7 - 11 ENG HP/ft (17 - 26 kW/m)						

For more machine specifications, please visit www.kuhn.com

Technical Specifications

7305 Models with Rock-Flex™ Bearing Arms	7305-18NR	7305-18WR	7305-21NR	7305-21WR	7305-24NR	7305-24WR	7305-27NR	7305-27WR	7305-31NR	7305-31WR	7305-34NR	7305-34WR
Transport Width	10'11" (3.3)	10'11" (3.3)	10'11" (3.3)	10'11" (3.3)	14'7" (4.4)	14'7" (4.4)	14'7" (4.4)	14'7" (4.4)	16'4" (5 m)	16'4" (5 m)	16'4" (5 m)	16'4" (5 m)
Transport Height	10'2" (3.1 m)	10'2" (3.1 m)	11'7" (3.5 m)	11'7" (3.5 m)	11'6" (3.5 m)	11'6" (3.5 m)	12'10" (3.9 m)	12'10" (3.9 m)	14'2" (4.3 m)	14'2" (4.3 m)	15'6" (4.7 m)	15'6" (4.7 m)
Frame Type	3-Section	3-Section	3-Section	3-Section	3-Section	3-Section	3-Section	3-Section	3-Section	3-Section	3-Section	3-Section
Number of Disc Blades	58	50	66	58	78	66	86	74	102	86	110	94
Number of Bearing Arms	16	16	20	20	20	20	20	20	26	26	26	26
Working Width	18'2" (5.5 m)	18'1" (5.5 m)	21' (6.4 m)	21' (6.4 m)	24'4" (7.4 m)	23'11" (7.3 m)	26'9" (8.2 m)	26'9" (8.2 m)	31'8" (9.7 m)	31'1" (9.5 m)	34'1" (10.4 m)	34'1" (10.4 m)
Weight	11,130 lb (5 048 kg)	11,145 lb (5 055 kg)	12,019 lb (5 452 kg)	12,154 lb (5 513 kg)	13,642 lb (6 188 kg)	13,420 lb (6 087 kg)	14,137 lb (6 412 kg)	14,170 lb (6 427 kg)	16,910 lb (7 344 kg)	16,055 lb (7 282 kg)	16,624 lb (7 541 kg)	16,611 lb (7 535 kg)
Standard Equipment												
Disc Blade Spacing	7-¾" (19.7 cm)	9-⅛" (23.2 cm)	7-¾" (19.7 cm)	9-⅛" (23.2 cm)	7-¾" (19.7 cm)	9-⅛" (23.2 cm)	7-¾" (19.7 cm)	9-⅛" (23.2 cm)	7-¾" (19.7 cm)	9-⅛" (23.2 cm)	7-¾" (19.7 cm)	9-⅛" (23.2 cm)
Disc Gang Angle	17 Degrees Front and Rear					17 Degrees Front and Rear						
Hitch Type	CAT III, Articulating Ball Cast Hitch, 1-½" Pin				CAT IV, Articulating Ball Cast Hitch, 2" Pin	CAT IV, Articulating Ball Cast Hitch, 2" Pin						
Leveling	Fore-Aft Mechanical Adjustable, Level-Lift Tongue					Fore-Aft Mechanical Adjustable, Level-Lift Tongue			Fore-Aft Hydraulic Adjustable, Level-Lift Tongue			
Hydraulics	Color-Coded Hydraulic Hose Grips					Color-Coded Hydraulic Hose Grips						
Depth Control	Crank Style, Single-Point Hydraulic Depth Control					Crank Style, Single-Point Hydraulic Depth Control						
Disc Gangs	1-¾" Round Alloy Tie Rod, 6" Bell Diameter Ductile Iron Spools, Rock-Flex™ Bearing Arms, Maintenance-Free Bearings					1-¾" Round Alloy Tie Rod, 6" Bell Diameter Ductile Iron Spools, Rock-Flex™ Bearing Arms, Maintenance-Free Bearings						
Disc Blades	22" x 6 Gauge Residue Razor™ Solid Edge	22" x ¼" Residue Razor™ Solid Edge	22" x 6 Gauge Residue Razor™ Solid Edge	22" x ¼" Residue Razor™ Solid Edge	22" x 6 Gauge Residue Razor™ Solid Edge	22" x ¼" Residue Razor™ Solid Edge	22" x 6 Gauge Residue Razor™ Solid Edge	22" x ¼" Residue Razor™ Solid Edge	22" x 6 Gauge Residue Razor™ Solid Edge	22" x ¼" Residue Razor™ Solid Edge	22" x 6 Gauge Residue Razor™ Solid Edge	22" x ¼" Residue Razor™ Solid Edge
Taper Blades	Front 22" - 20", Rear 22" - 20" - 18" - 16", Bolt-On Furrow Filler					Front 22" - 20", Rear 22" - 20" - 18" - 16", Bolt-On Furrow Filler						
Disc Scrapers	Adjustable 3.5" (8.9 cm) Wide					Adjustable 3.5" (8.9 cm) Wide						
Center Section Tires	(4) 280/70R15, Duals, 6-Bolt Heavy-Duty Hubs					(4) 280/70R15, Walking Beams, 6-Bolt Heavy-Duty Hubs						
Wing Section Tires	(1) 280/70R15, Single, 6-Bolt Heavy-Duty Hub, per Wing				(2) 280/70R15, Walking Beam, 6-Bolt Heavy-Duty Hub, per Wing							
Transport Locks and Safety	Hydraulic Ball Valve Wing-Fold and Transport Lock, Slow Moving Vehicle Sign, LED Lighting					Hydraulic Ball Valve Wing-Fold and Transport Lock, Slow Moving Vehicle Sign, LED Lighting						
Optional Equipment												
Wing Gauge Wheels	(2) 20.5 x 8 Load Range E OR (2) 20.5 x 8 (Kevlar)					(2) 20.5 x 8 Load Range E OR (2) 20.5 x 8 (Kevlar)						
Leveling	Hydraulic Fore-Aft Leveling					Hydraulic Fore-Aft Leveling						
Rear Jack Mount	Jack Extension Weldment					Jack Extension Weldment						
Disc Blades	22" x ¼" Residue Razor™ Solid Edge	22" x 6 Gauge Residue Razor™ Solid Edge	22" x ¼" Residue Razor™ Solid Edge	22" x 6 Gauge Residue Razor™ Solid Edge	22" x ¼" Residue Razor™ Solid Edge	22" x 6 Gauge Residue Razor™ Solid Edge	22" x ¼" Residue Razor™ Solid Edge	22" x 6 Gauge Residue Razor™ Solid Edge	22" x ¼" Residue Razor™ Solid Edge	22" x 6 Gauge Residue Razor™ Solid Edge	22" x ¼" Residue Razor™ Solid Edge	22" x 6 Gauge Residue Razor™ Solid Edge
Disc Blades	22" x ¼" Notched Edge Front and Rear	22" x ¼" Notched Edge Front and Rear	22" x ¼" Notched Edge Front and Rear	22" x ¼" Notched Edge Front and Rear	22" x ¼" Notched Edge Front and Rear	22" x ¼" Notched Edge Front and Rear	22" x ¼" Notched Edge Front and Rear	22" x ¼" Notched Edge Front and Rear	22" x ¼" Notched Edge Front and Rear	22" x ¼" Notched Edge Front and Rear	22" x ¼" Notched Edge Front and Rear	22" x ¼" Notched Edge Front and Rear
Center Section Tires	(4) 280/70R15, Walking Beams, Center, 6-Bolt Heavy-Duty Hubs				Not Applicable	Not Applicable						
Wing Section Tires	Not Applicable				(2) 280/70R15 Duals, Center 6-Bolt Heavy-Duty Hubs	(2) 280/70R15 Duals, Center 6-Bolt Heavy-Duty Hubs						
Rear Hitch	Rear Hitch, 10,000 lb Horizontal and 1,000 lb Vertical Load					Rear Hitch, 10,000 lb Horizontal and 1,000 lb Vertical Load						
Finishing Attachments	3-Bar Harrow OR 16" Coil-Tine					3-Bar Harrow OR 16" Coil-Tine						
Operation												
Recommended Operating Speed	5 - 7 mph (8 - 11 km/h)					5 - 7 mph (8 - 11 km/h)						
Working Depth Range	2" - 5" (5 - 12.7 cm)					2" - 5" (5 - 12.7 cm)						
Recommended Tractor Power	7 - 11 ENG HP/ft (17 - 26 kW/m)					7 - 11 ENG HP/ft (17 - 26 kW/m)						

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Technical Specifications

	8220-19N/ 8220-19W	8220-22N/ 8220-22W	8220-25N/ 8220-25W	8220-28N/ 8220-28W	8220-31N/ 8220-31W	8220-34N/ 8220-34W	8220-36N/ 8220-36W	8220-36NQF/ 8220-36WQF	8220-38NQF/ 8220-38WQF	8220-41WQF	8220-44WQF
Transport Width	12'2" (3.7 m)	12'2" (3.7 m)	13'7" (4.1 m)	16'9" (5.1 m)	16'9" (5.1 m)	16'9" (5.1 m)	16'9" (5.1 m)	17'5" (5.3 m)	17'5" (5.3 m)	17'7" (5.4 m)	17'7" (5.4 m)
Transport Height	10'8" (3.3 m)	11'10" (3.6 m)	11'11" (3.6 m)	12'6" (3.8 m)	13'6" (4.1 m)	14'9" (4.5 m)	15'6" (4.7 m)	13'5" (4 m)	13'5" (4 m)	13'10" (4.2 m)	13'10" (4.2 m)
Frame Type	3-Section							5-Section Quad-Fold			
Number of Disc Blades	62/ 54	70/62	78/70	90/78	98/86	106/94	114/98	114/98	118/106	114	122
Number of Bearing Arms	18	22	22/20	24/22	26	26	28/26	30	32	32	34
Working Width	18'10" (5.7 m)/ 19'9" (6 m)	22'8" (6.9 m)/ 22'7" (6.8 m)	25'2" (7.6 m)/ 25'6" (7.7 m)	28'10" (8.8 m)/ 28'5" (8.6 m)	31'4" (9.5 m)	33'10" (10.3 m)/ 34'2" (10.4 m)	36'5" (11.1 m)/ 35'8" (10.8 m)	36'5" (11.1 m)/ 35'8" (10.8 m)	37'8" (11.5 m)/ 38'6" (11.7 m)	41'5" (12.6 m)	44'3" (13.5 m)
Weight	13,175 lb (5 976 kg)/ 13,309 lb (6 037 kg)	13,971 lb (6 337 kg) 14,213 lb (6 447 kg)	14,849 lb (6 735 kg)/ 15,136 lb (6 866 kg)	17,842 lb (8 093 kg)/ 18,027 lb (8 177 kg)	19,290 lb (8 750 kg)/ 19,715 lb (8 943 kg)	19,796 lb (8 979 kg)/ 20,310 lb (9 212 kg)	21,517 lb (9 760 kg)/ 21,715 lb (9 850 kg)	25,260 lb (11 458 kg)/ 25,622 lb (11 622 kg)	25,694 lb (11 655 kg)/ 25,355 lb (11 954 kg)	30,075 lb (13 642 kg)	30,814 lb (13 977 kg)
Standard Equipment											
Disc Blade Spacing	8" Front, 8" Rear (20.3 cm) / 9" Front, 9" Rear (22.9 cm)										
Disc Gang Angle	20 Degrees Front, 19 Degrees Rear										
Hitch Type	Articulating Ball CAT III, 1-½" Pin			Articulating Ball CAT IV, 2" Pin							
Tongue	Level-Lift Tongue				Level-Lift Tongue			Guardian Hitch™ (Cushioned Tongue)			
Leveling	Mechanical Fore-Aft Adjustable				Mechanical Fore-Aft Adjustable						
Hydraulics	Color-Coded Hydraulic Hose Grips				Color-Coded Hydraulic Hose Grips						
Depth Control	Single-Point, Crank Style Hydraulic Depth Control				Single-Point, Crank Style Hydraulic Depth Control						
Disc Gangs	1-¾" Round Diameter Alloy Tie Rod, Rock-Flex™ Bearing Arms 1-¼" x 2-½", 6" Bell Diameter Ductile Iron Spools, Cast Housing No-Daily Grease Maintenance Bearings, Tie Rod Wrench				1-¾" Round Diameter Alloy Tie Rod, Rock-Flex™ Bearing Arms 1-¼" x 2-½", 6" Bell Diameter Ductile Iron Spools, Cast Housing No-Daily Grease Maintenance Bearings, Tie Rod Wrench						
Disc Blades	22" x 6 Gauge Residue Razor™ Solid Edge/ 24" x ¼" Residue Razor™ Solid Edge 24" x ¼" Residue Razor™ Solid Edge				22" x 6 Gauge Residue Razor™ Solid Edge/ 24" x ¼" Residue Razor™ Solid Edge 24" x ¼" Residue Razor™ Solid Edge					24" x ¼" Residue Razor™ Solid Edge	
Taper Blades	Front 22" - 20" Rear 22" - 20" - 18" - 16" Bolt-On Furrow Filler				Front 22" - 20" Rear 22" - 20" - 18" - 16" Bolt-On Furrow Filler/ Front 24" - 22" Rear 24" - 22" - 20" - 18" Bolt-On Furrow Filler					Front 24" - 22" Rear 24" - 22" - 20" - 18" Bolt-On Furrow Filler	
Disc Scrapers	5" Hi-Clearance Spring Adjustable Scrapers with Adjustable Blade Scraper at Bearing Arm Locations				5" Hi-Clearance Spring Adjustable Scrapers with Adjustable Blade Scraper at Bearing Arm Locations						
Center Section Tires	(4) 280/70R15, Walking Beams with Slip-In Spindles, 6-Bolt Heavy-Duty Hubs			(4) 340/60R16.5, Walking Beams with Slip-In Spindles, 8-Bolt Heavy-Duty Hubs						(4) 380/55R16.5, Walking Beams with Slip-In Spindles, 8-Bolt Heavy-Duty Hubs	
Wing Frame Tires	(2) 280/70R15 per Wing, Walking Beams with Slip-In Spindles, 6-Bolt Hubs				(2) 280/70R15 per Wing, Walking Beams with Slip-In Spindles, 6-Bolt Hubs		(2) 340/60R16.5 per Wing, Walking Beams with Slip-In Spindles, 8-Bolt Hubs			(2) 280/70R15 per Wing, Walking Beams with Slip-In Spindles, 6-Bolt Hubs	
Wing Gauge Wheels	(2) 20.5 x 8 Load Range E				(2) 20.5 x 8 Load Range E						
Transport Locks and Safety	Hydraulic Valve Wing-Fold and Transport Locks, High Visibility LED Lighting, Slow Moving Vehicle Sign				Hydraulic Valve Wing-Fold and Transport Locks, High Visibility LED Lighting, Slow Moving Vehicle Sign						
Optional Equipment											
Wing Gauge Wheels	(2) 20.5 x 8 (Kevlar) OR None				(2) 20.5 x 8 (Kevlar) OR None						
Leveling	Hydraulic Fore-Aft Adjustable				Mechanical Fore-Aft Adjustable						
Disc Blades	22" x ¼" Residue Razor™ Solid Edge **/** 24" x 6 Gauge Residue Razor™ Solid Edge OR 22" x 6 Gauge Residue Razor™ Solid Edge **/** 22" x ¼" Residue Razor™ Solid Edge				22" x ¼" Residue Razor™ Solid Edge **/** 24" x 6 Gauge Residue Razor™ Solid Edge OR 22" x 6 Gauge Residue Razor™ Solid Edge **/** 22" x ¼" Residue Razor™ Solid Edge						
Taper Blades	Front 22" - 20" Rear 22" - 20" - 18" - 16" Bolt-On Furrow Filler **/** Front 24" - 22" Rear 24" - 22" - 20" - 18" Bolt-On Furrow Filler				Front 22" - 20" Rear 22" - 20" - 18" - 16" Bolt-On Furrow Filler **/** Front 24" - 22" Rear 24" - 22" - 20" - 18" Bolt-On Furrow Filler						
Rear Hitch	Rear Hitch (Not for Use with Finishing Attachment)				Rear Hitch (Not for Use with Finishing Attachment)						
Finishing Attachments	24/7® 3-Row 16" Tine Harrow OR 3-Bar Spike Harrow OR 24/7® Soil Conditioning HD Reel with Float Position (Flat Bar or Round Rod)										
Operation											
Recommended Operating Speed	4 - 6 mph (6 -10 km/h)				4 - 6 mph (6 -10 km/h)						
Working Depth Range	2" - 6" (5 - 15.2 cm)				2" - 6" (5 - 15.2 cm)						
Recommended Tractor Power	8 - 11 ENG HP/ft (20 - 26 kW/m)				8 - 11 ENG HP/ft (20 - 26 kW/m)						

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Technical Specifications

	8320-19N/ 8320-19W	8320-22N/ 8320-22W	8320-25N/ 8320-25W	8320-28N/ 8320-28W	8320-31N/ 8320-31W	8320-34N/ 8320-34W	8320-37NQF/ 8320-37WQF
Transport Width	12'2" (3.7 m)	12'2" (3.7 m)	14'1" (4.3 m)	17' (5.2 m)	17' (5.2 m)	17' (5.2 m)	17'7" (5.3 m)
Transport Height	10'9" (3.3 m)	12'2" (3.7 m)	11'11" (3.6 m)	13' (4 m)	13'10" (4.2 m)	14'8" (4.5 m)	13'5" (4.1 m)
Frame Type	3-Section			3-Section			5-Section Quad-Fold
Number of Disc Blades	52/50	60/58	66/62	74/70	82/78	90/86	100/94
Number of Bearing Arms	16/16	18/18	22/20	22/22	26/24	26/26	30/30
Working Width	19'10" (6 m)	22'11" (7 m)	24'7" (7.5 m)	27'9" (8.5 m)	30'11" (9.4 m)	34'1" (10.4 m)	37'3" (11.4 m)
Standard Equipment							
Disc Blade Spacing	9" (22.9 cm) Front 10" (25.4 cm) Rear/ 10" Front, 10" Rear (25.4 cm)			9" (22.9 cm) Front 10" (25.4 cm) Rear/ 10" Front, 10" Rear (25.4 cm)			
Disc Gang Angle	22 Degrees Front, 19 Degrees Rear			22 Degrees Front, 19 Degrees Rear			
Weight	14,251 lb (6 464 kg)/ 14,119 lb (6 404 kg)	15,218 lb (6 904 kg)/ 15,093 lb (6 846 kg)	16,321 lb (7 362 kg)/ 16,033 lb (7 272 kg)	20,035 lb (9 088 kg)/ 19,747 (8 975 kg)	20,747 lb (9 411 kg)/ 20,283 lb (9 200 kg)	21,547 lb (9 774 kg)/ 21,294 lb (9 659 kg)	27,989 lb (12 696 kg)/ 27,719 lb (12 573 kg)
Hitch Type	Articulating Ball CAT III, 1-½" Pin			Articulating Ball CAT IV, 2" Pin			
Tongue Type	Level-Lift Tongue			Level-Lift Tongue			Guardian Hitch™ (Cushioned Tongue)
Leveling	Hydraulic Fore-Aft Adjustable			Hydraulic Fore-Aft Adjustable			
Hydraulics	Color-Coded Hydraulic Hose Grips			Color-Coded Hydraulic Hose Grips			
Depth Control	Single-Point, Crank Style Hydraulic Depth Control			Single-Point, Crank Style Hydraulic Depth Control			
Tractor Interface Center	Storage for Hydraulic Hose Ends, Electrical Connection and Transport Hydraulic Lock Valves			Storage for Hydraulic Hose Ends, Electrical Connection and Transport Hydraulic Lock Valves			
Disc Gangs	1-¾" Round Diameter Alloy Tie Rod, Rock-Flex™ Bearing Arms 1-¼" x 2-½", 7" Bell Diameter Ductile Iron Spools, Cast Housing No-Daily Grease Maintenance Bearings, Tie Rod Wrench			1-¾" Round Diameter Alloy Tie Rod, Rock-Flex™ Bearing Arms 1-¼" x 2-½", 7" Bell Diameter Ductile Iron Spools, Cast Housing No-Daily Grease Maintenance Bearings, Tie Rod Wrench			
Disc Blades	26" x ¼" Residue Razor™ Solid Edge			26" x ¼" Residue Razor™ Solid Edge			
Taper Blades	Front 26" - 24", Rear 26" - 24" - 22" - 20" Bolt-On Furrow Filler			Front 26" - 24", Rear 26" - 24" - 22" - 20" Bolt-On Furrow Filler			
Disc Scrapers	5" Spring Adjustable Scrapers with Adjustable Blade Scrapers at Bearing Arm Locations			5" Spring Adjustable Scrapers with Adjustable Blade Scrapers at Bearing Arm Locations			
Center Section Tires	(4) 280/70R15, Walking Beams with Slip-In Spindles, 6-Bolt Heavy-Duty Hubs			(4) 340/60R16.5, Walking Beams with Slip-In Spindles, 8-Bolt Heavy-Duty Hubs			
Wing Frame Tires	(2) 280/70R15 per Wing, Walking Beams with Slip-In Spindles, 6-Bolt Heavy-Duty Hubs			(2) 280/70R15 per Wing, Walking Beams with Slip-In Spindles, 6-Bolt Heavy-Duty Hubs			(2) 340/60R16.5 per Wing, Walking Beams with Slip-In Spindles, 8- Bolt Heavy-Duty Hubs
Wing Gauge Wheels	None			(2) 20.5 x 8 Load Range E			
Transport Locks and Safety	Hydraulic Valve Wing-Fold and Transport Locks, Slow Moving Vehicle Sign, High Visibility LED Lighting kit			Hydraulic Valve Wing-Fold and Transport Locks, Slow Moving Vehicle Sign, High Visibility LED Lighting kit			
Optional Equipment							
Wing Gauge Wheels	(2) 20.5 x 8 Load Range E OR (2) 20.5 x 8 Kevlar			2) 20.5 x 8 Kevlar OR None			
Leveling	Mechanical Fore-Aft Adjustable			Mechanical Fore-Aft Adjustable			
Disc Blades	24" x ¼" Residue Razor™ Solid Edge			24" x ¼" Residue Razor™ Solid Edge			
Taper Blades	Front 24" - 22", Rear 24" - 22" - 20" - 18" Bolt-On Furrow Filler			Front 24" - 22", Rear 24" - 22" - 20" - 18" Bolt-On Furrow Filler			
Rear Hitch	Rear Hitch (Not for Use with Finishing Attachments)			Rear Hitch (Not for Use with Finishing Attachments)			
Finishing Attachments	24/7® 3-Row 16" Tine Harrow OR 3-Bar Spike Harrow OR 24/7 Soil Conditioning HD Reel w/ Float Position (Flat or Round Spirals)			24/7® 3-Row 16" Tine Harrow OR 3-Bar Spike Harrow OR 24/7 Soil Conditioning HD Reel w/ Float Position (Flat or Round Spirals)			
Operation							
Recommended Operating Speed	4 - 6 mph (6 - 10 km/h)			4 - 6 mph (6 - 10 km/h)			
Working Depth Range	3" - 8" (7.5 - 20.3 cm)			3" - 8" (7.5 - 20.3 cm)			
Recommended Tractor Power	9 - 12 ENG HP per Foot (23 - 29 kW per Meter)			9 - 12 ENG HP per Foot (23 - 29 kW per Meter)			

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