

PSC

ProSpread®

Commercial Apron Box Spreaders

610 – 810 Heaped Cubic Feet

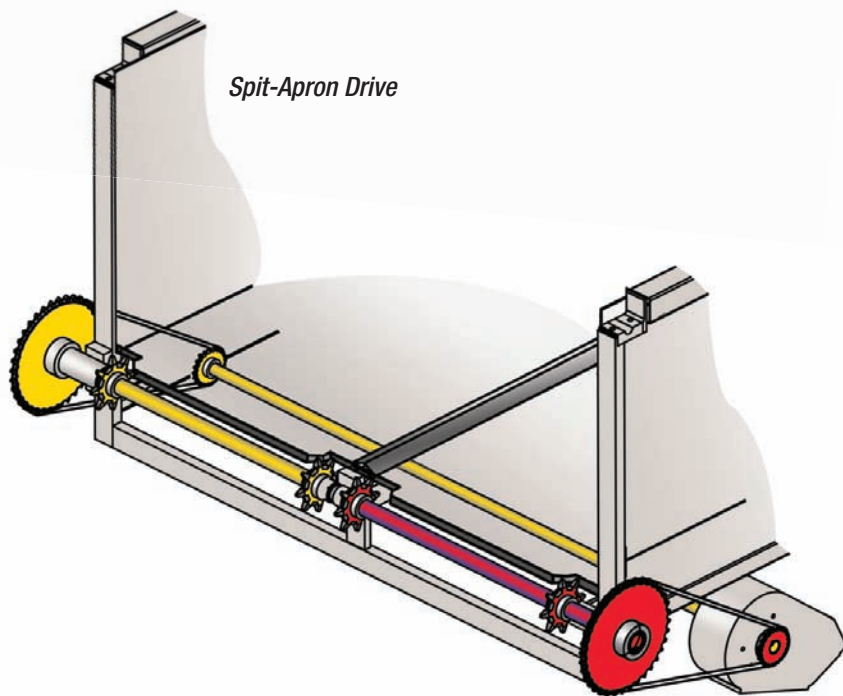


WORLD-WIDE LEADER IN MANURE SPREADERS



PSC Series

The PSC series sets the standard for durability and versatility in the commercial box spreader class. Offering truck and trailer models across the line, and with three discharge options – horizontal beaters, vertical beaters and a new spinner discharge – these high-capacity spreaders will efficiently spread a broad range of materials. PSC models provide consistent, even spreading of most any material, from pen pack and feedlot/dairy manure, to poultry litter, compost, bio-sludge and lime, as well as many other solid and flowable materials. With their unmatched combination of reliability, versatility and quality spreading performance, there is a model to meet the needs of any operation.



Spit-Apron Drive



Parallel-Shaft Gearbox

Rugged, Innovative Drive

With the innovative split-apron drive, each apron has a separate drive shaft, powered from either end by a durable, efficient parallel-shaft gearbox. This allows for equal loads on the chains, resulting in even pulling for dependability and long life.

PSC SERIES

High-Quality Standard Features



A Solid Foundation

The heavy-duty undercarriage on trailer models provides a solid foundation to haul the heaviest loads. The rugged tandem axle adds strength and durability. It also provides greater flotation and better oscillating capability over uneven terrain to help limit soil compaction. Standard, two-wheel hydraulic disc brakes on the PSC 171 and PSC 181 provide a reliable braking system.



All-steel, welded construction provides a solid framework for ultimate box integrity.



High-density, two-piece, solid poly floor provides long life and eliminates corrosion concerns.



Automatic resetting torque disconnect provides simple, dependable overload protection with no shear bolts.



Horizontal Beaters

Heavy-duty rooster-comb beaters are an economical option and provide an aggressive, yet uniform, spread pattern and excellent material breakup. Optimum-sized beaters offer quality spreading performance and good material flow when spreading difficult materials, such as pen pack.



Lower Spinner

The optional lower spinner beater helps provide a more uniform spread pattern by distributing material that would normally fall off the spreader apron.



Swing-Out Beaters

A hydraulic swing out comes standard, allowing the operator to easily clear out rocks and other foreign objects. Hydraulic control provides the ability to swing the beaters out conveniently from the cab.

VertiSpread Beaters

VertiSpread vertical beaters provide a consistent, wide, 25–30 foot spread pattern. The beaters are slanted forward and overlap in the center for enhanced distribution of even the toughest dairy and feedlot material.



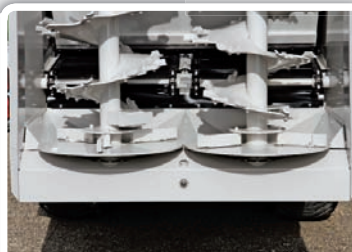
Heavy-Duty Beaters

Rugged vertical beaters provide reliable performance in difficult conditions. An extra-heavy-duty option is available, with hardened beater teeth and thicker, 1/2" flighting (3/8" standard) for enhanced durability and longer life in the most demanding commercial applications.



Replaceable Beater Teeth

Adjustable, two-position teeth help provide a uniform spread pattern and excellent material breakup. Optional hardened teeth are available for increased dependability and longer service life.



Spinner Pan, Paddles and Shroud

The beater spinner pan catches material that drops off the spreader floor and works with the swinging paddles to discharge it in a fine spread pattern. The stainless steel shroud guides material and prevents it from falling through to the ground.

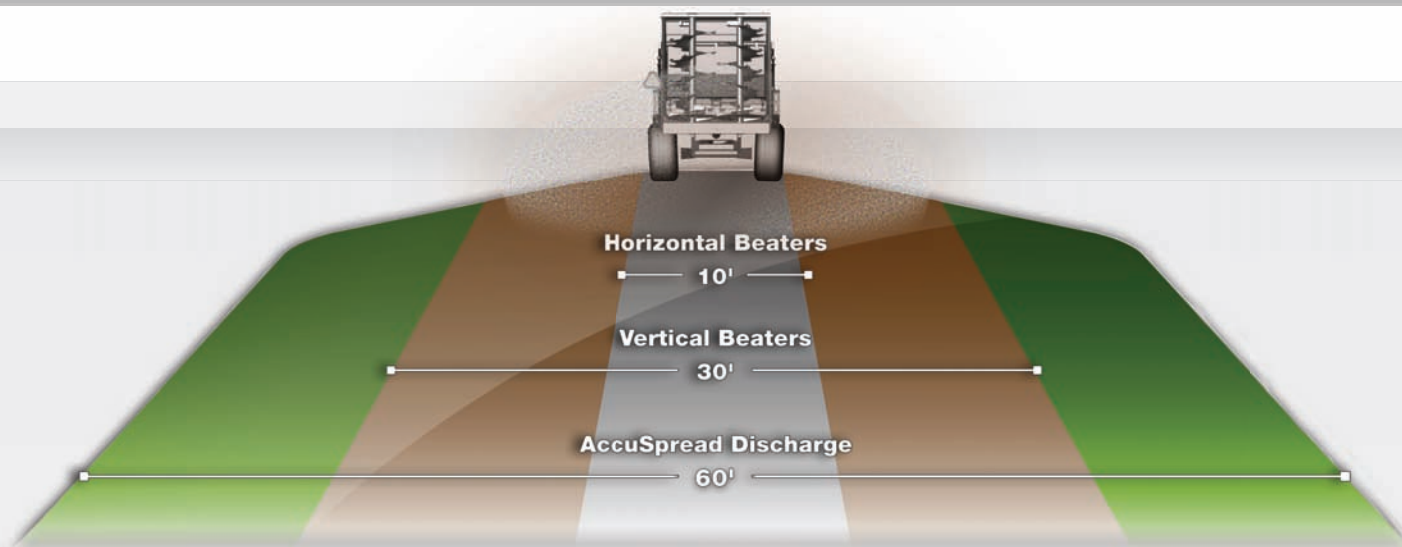


Fully Enclosed, Inline Gearbox

This dependable gearbox has an efficient, low-maintenance design specifically for heavy-duty, commercial applications.

PSC SERIES

A Spreading Option to Meet Your Needs



AccuSpread Spinner Discharge

The AccuSpread spinner discharge provides the widest and most uniform spread pattern available. This option offers consistent spreading of dry, flowable materials up to a 60' spread width.



Rugged horizontal beaters are fitted with 88 two-sided, hardened cast teeth for excellent durability and efficient material breakup.



Hydraulic, swing-out rear door provides a secure enclosure for the discharge system and easy access for any required maintenance.



Adjustable lower deflector directs the flow of material onto the spinner discs for more precise spreading.



Twin spinner discs are fitted with shearbolt-secured paddles and rotate at 520 RPM to provide a wide and uniform spread pattern.



An optional headland deflector provides simple, easy control of the spreading width. The hydraulically-controlled deflector can be raised out of the way to maintain the normal 60-foot spreading width. When lowered into the active position, the spreading width is reduced to 20 feet, providing more precise spreading along field boundaries.





Easily Interchangeable Discharge Systems

Multiple discharge options can be ordered and easily changed for different applications.



Horizontal Beaters

Horizontal beaters are most effectively used in spreading applications with dry, course materials such as pen pack or yard scrapings. They work well in situations where fast unloading and high application rates are desired.



VertiSpread Beaters

VertiSpread vertical beaters provide quality spreading performance for a wider variety of dry materials, from tough materials like pen pack, to finer materials like dry dirt compost. They can provide the same fast unloading and high application rates as horizontal beaters, but with a wider spread pattern and more consistent material breakup.



AccuSpread Spinner Discharge

The AccuSpread spinner discharge offers consistent spreading of dry, flowable materials such as dry dirt compost, poultry litter and lime sludge. It provides the widest, most uniform spread pattern available, and coupled with the use of the metering gate, is able to accurately spread nutrient-dense materials at low rates.



Material Comparison

	Horizontal Beaters	Vertical Beaters	Spinner Discharge
Gutter Manure			
Pen Pack Manure			
Dry Dirt Compost			
Yard Scrapings			
Sand-Laden Manure			
Slurry			
Poultry Litter			
Sludge/Municipal			
Lime Sludge			
	Most Favorable	Good	Fair
			Least Favorable

Application Comparison

	Horizontal Beaters	Vertical Beaters	Spinner Discharge
Unloading Speed			
Spread Pattern			
Low Rates			
High Rates			
Bedding			
Material Break-Up			
Stock Piling (w/o Beaters)			
	Most Favorable	Good	Fair
			Least Favorable

PSC SERIES

Customize a PSC to Fit Your Operation

Versatile Endgate Options

Two endgate options are available to best match specific spreading applications.



Hydraulic Swinging Endgate

The swinging endgate can be used with the horizontal and VertiSpread beater options. This heavy-duty, welded endgate provides outstanding strength and durability. Hydraulic cylinders raise the endgate for optimum load clearance and, when raised, it swings straight down to act as a debris deflector.

Metering Gate

A heavy-duty metering gate provides enhanced control of the material flow on VertiSpread and AccuSpread machines. This accurate metering allows the ability to spread nutrient-dense materials at low rates to take best advantage of the nutrient value. A convenient indicator is located at the front of the unit for easy monitoring of the gate position.

Customize Your Spreader



Scale System

The scale option allows monitoring of application rates to take maximum advantage of the nutrient value of manure. It can be combined with the Digi-Star NT 460 Nutrient Tracker system with GPS capability for precise documentation of spreading activity.



Silage Kit

The silage kit includes an endgate and steel side extensions, allowing the operator to quickly convert the spreader to a live-bottom silage box for unmatched versatility.



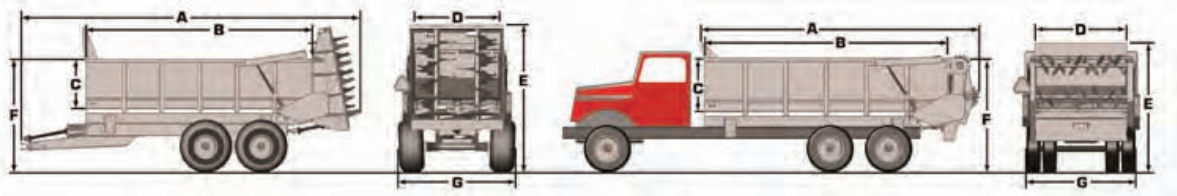
Apron Speed-Up Kit

The apron speed-up kit can be used in conjunction with the silage kit to provide a faster apron speed for quicker unloading in silage hauling applications.



MODEL SPECIFICATIONS

Visit your dealer or our Website at www.KuhnNorthAmerica.com for information on all Kuhn Knight Products.



TRAILER - TR

TRUCK - TK

MODEL	PSC 161						PSC 171						PSC 181					
BEATERS	HORIZ		VERTICAL		SPINNER		HORIZ		VERTICAL		SPINNER		HORIZ		VERTICAL		SPINNER	
DIMENSIONS (INCHES)	TR	TK	TR	TK	TR	TK	TR	TK	TR	TK	TR	TK	TR	TK	TR	TK	TR	TK
A - Overall Length	307	250	325	268	321	264	344	286	362	304	358	300	380	322	398	340	394	336
B - Inside Box Length	216						252						288					
C - Inside Box Depth	41						41						41					
D - Inside Box Width	81 ¹ / ₂						81 ¹ / ₂						81 ¹ / ₂					
E - Overall Height ^{1, 2, 3}																		
- Tire Option Used (TR models)	425/65R-22.5						700/50-26.5											
- Top of Beaters	110	105	139	133	133	127	117	105	144	134	138	128	117	105	144	134	138	128
- Top of Hydraulic End Gate	116	110	116	110	116	110	120	110	120	110	120	110	120	110	120	110	120	110
- Cab Shield	137	132	137	132	137	132	142	132	142	132	142	132	142	132	142	132	142	132
F - Loading Height ^{1, 2}	104	102	104	102	104	102	112	102	112	102	112	102	112	102	112	102	112	102
G - Overall Tread Width ¹	108	103	108	103	108	103	108	103	108	103	108	103	108	103	108	103	108	103

SPECIFICATIONS (HORIZONTAL / VERTICAL / SPINNER)

Unit Weight - pounds ³			
Trailer	13,950 / 15,200 / 16,200	17,250 / 18,500 / 19,500	18,200 / 19,500 / 20,500
Truck	7500 / 8750 / 9750	8100 / 9350 / 10,350	8650 / 9900 / 10,900
Maximum Net Load - pounds	39,500	46,000	52,500
Capacity			
Cubic Feet - struck level ⁴	430	500	570
Cubic Feet - heaped ⁴	610	710	810
Beaters			
Number Standard	2		
Replaceable Paddles or Teeth	horizontal - 16 / vertical - 32 / spinners - 88		
Diameter	horizontal - 20" / vertical - 40 ¹ / ₂ " / spinner - 41"		
Lower Spinner	horizontal - optional / vertical - na / spinner - na		
Paddle / Flighting Thickness	horizontal - ¹ / ₂ " / vertical - ³ / ₈ " / spinner - ³ / ₈ "		
Overload Protection	torque-disconnect		
Removable Beater Assembly	yes		
Beater PTO Drive			
RPM	1000		
Apron			
Number	2		
Shaft Diameter	2"		
Sprockets	8 tooth		
Chain	pintle 667 XH		
Slat Size	¹ / ₄ " x 1 ¹ / ₂ " x 2"		
Slats per Apron	39	45	52
Drive	hydraulic		
Gearbox	parallel shaft		
Box and Trailer Construction			
Front Panel and Sides	10 GA.		
Floor - poly	³ / ₄ " - two-piece		
End Gate	swinging / metering		
Trailer Axle	tandem		
Spindles - tandem axle	3 ³ / ₈ "	5"	
Hubs	10-bolt		
Two-wheel hydraulic disc brakes	standard		
Tongue Weight - % gross wt.	11%	12%	11%
Tractor Requirement - PTO HP ⁵	160	190	220

¹ Heights and widths will vary depending on tire size listed.

² Truck dimensions based on 41" truck frame height.

³ Units equipped with most common options.

⁴ Capacities determined by ASAE Standard S324.1.

⁵ Horsepower requirement may vary with different materials.

Consult operator's manual for proper tractor sizing

We reserve the right to change any equipment specifications, design, or materials without notice. These spreaders are designed for agricultural use only with materials estimated up to 65 lbs. per cubic foot. Contact factory for non-agricultural use or heavier materials. U.S. and foreign patents filed.



SAFETY FIRST

Always read and understand the Operator's Manual and all Safety Decals before using the equipment

YOUR KUHN KNIGHT DEALER

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