

FRONTIER
EQUIPMENT™
Rugged. Reliable. Ready.

Frontier Hydraulic-Push Manure Spreaders



425- and 550-Bushel Capacity • PTO-Driven



Make big manure-handling jobs go faster with hydraulic-push manure spreaders from Frontier.

These efficient implements boast a super-fast unload time plus a large-capacity box to haul more manure in fewer trips. They're perfect for large livestock operations or anyone wanting to make quick work of barn cleaning chores.

A rugged pushgate is controlled with dual heavy-duty hydraulic cylinders to push material out of the box. Ripper-type paddles aggressively shred material and cover more area from top to bottom to handle big loads with ease. Or remove the beater assembly to use the implement for stockpiling manure.

Built for years of dependable service, these implements feature half-inch-thick, solid virgin-grade polyethylene floor and sides with UV inhibitor. Steel support and side stakes give tremendous strength for durability. A massive welded frame runs from the hitch to the wheel axles for structural rigidity, while walking tandem wheels provide flotation in rough field conditions.

Side and floor panels are secured within reinforced joints to allow expansion and contraction in changing weather. Joints are covered with galvanized steel to minimize seepage. The polyethylene surface reduces friction and the amount of torque needed to move heavier loads. In addition, it makes cleanout simple and reduces freeze up.

Best of all, these Frontier Manure Spreaders are backed with a one-year warranty and the best dealer network in the industry — John Deere. To help you choose the right Frontier Manure Spreader, talk to your John Deere dealer, your exclusive source of Frontier Equipment.

www.BuyFrontier.com

Frontier Hydraulic-Push Manure Spreaders are available in two sizes in a horizontal- or vertical-beater configuration.

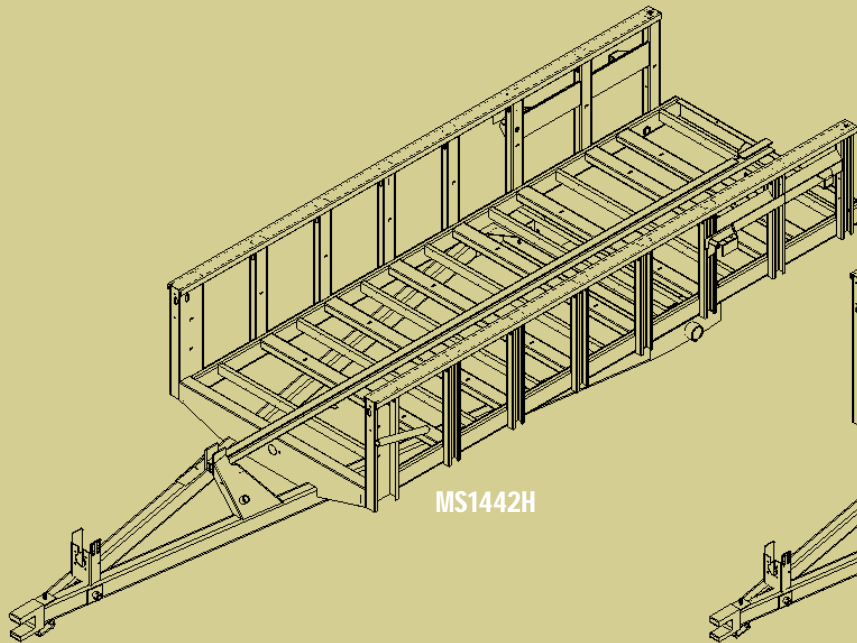
The horizontal configuration is best for operations that require a more narrow and dense spread pattern, while the vertical configuration spreads material wider and thinner. Both configurations feature an easy-to-remove beater assembly for when you need to use the spreader to stockpile manure.

Both configurations feature paddles or teeth that shred compacted material for even sizing.

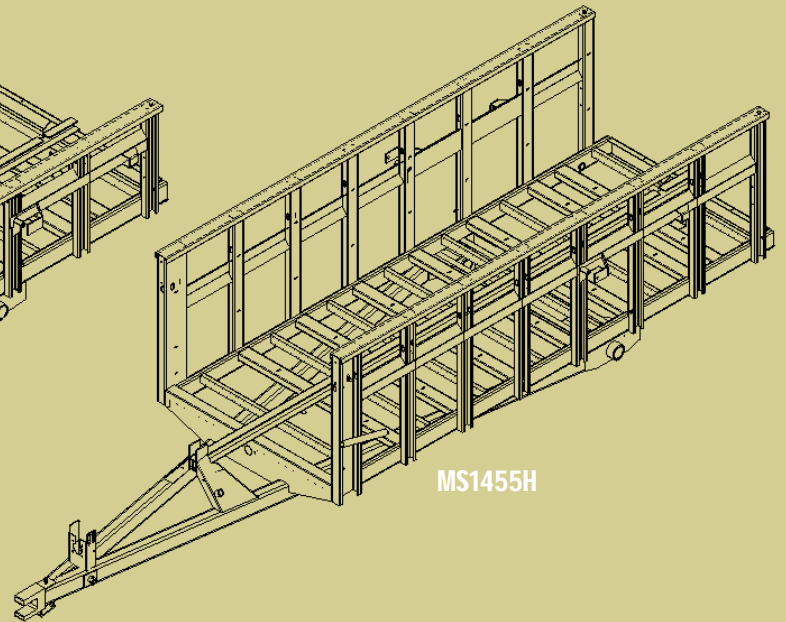


Extra-large capacity for big loads, m

DETAILS - HYDRAULIC-PUSH MANURE SPREADERS



MS1442H



MS1455H

Heavy-duty construction includes structural steel floor beams spaced 9.5 inches apart for maximum support. High-strength rectangular steel tubing is used for the poles and frame to ensure durability. In addition, the hitch drawbar extends to the axles so that weight can be distributed

along the implement's length. This design and construction allows for multiple stress loads on the implement, more uniform support as material is being pushed through the box, and minimal negative reactions to the drawbar and your tractor's hitch.



The PTO drive system (*above*) features shear-bolt protection for the beaters and a four-jaw over-ride clutch.

A straight shaft off the PTO (*right*) runs underneath the center of the implement to an angle-gearbox at the rear, then over to the beater drive sprocket. The gearbox is protected with a steel skidplate. Bearings have triple-lip seals and require no additional greasing.



The dual "piggy back" hydraulic cylinder is controlled with a sequencing valve (*top*) for smooth push-gate operation. You can adjust the speed of the cylinders with a simple turn of the hydraulic control lever (*bottom*).

Hoses are well protected from damage and bound together in flexible rubber tubing to eliminate tangling.



Rugged reliability for the long haul

For protection while loading, 4x4-inch wood siderails are mounted above the steel frame. The splash guard on the pushgate keeps material within the box and helps with efficient spreading.



The scraper holder keeps clean-out tools within easy reach.



High-strength channel steel is used for the poles and frame for durability. Bearing hangers (left) run beneath the frame to support drive shafts while allowing for vibration.



Heavy-duty truck tires support the added weight of the implement, even when filled with wet material. Weight is distributed over the axles with 3-inch diameter sleeve-protected spindles for reliability. Tandem wheels (left) provide flotation in soft field conditions.



Frontier Manure Spreaders meet ASABE safety standards. Transport safety lights, SMV sign, and safety tow chain (below) are standard equipment.

The beater assembly is reinforced with structural steel for durability and less vibration.



Horizontal-beater configuration



The rear access door provides easy access to the beater chains for lubing. Chains are powered by a reliable center-drive system that requires minimal maintenance.



Upper paddles (*above*) tackle high-heaped loads, while lower paddles (*right*) shred compacted material. The ripper-type paddles provide aggressive shredding and uniform spreading. In addition, the paddle assemblies are shear-bolt protected at the front PTO assembly.



The optional rear pan keeps slurry from dripping on roads and also helps the beaters evenly spread manure. From the tractor cab, you can open it for clean-out (*below*).

The entire beater assembly is easily removable for stockpiling manure. Just remove the lower drive chain, undo two locking bolts on the beater assembly, and lift the entire assembly off the implement (*below right*).



Vertical-beater configuration



Cover more ground in less time by using the vertical-beater configuration. Augers are mounted vertically for a wider spread pattern — and fewer passes in the field. Reversed flighting on the top portion of the augers reduces kick-back of material and less vertical loft. Bolt-on teeth give additional bite when attacking hard, compressed material. The result is consistent sizing and uniform spreading. Beater gearboxes (*above, shown with protective shield removed*) are mounted on the top side of the augers rather than the bottom so the entire assembly has optimal ground clearance.



Chains are oiled by an automatic-lubrication system (*left*) when the endgate is activated. Oil flows from the reservoir to brushes that keep the chains lubricated.

Chains are powered by a reliable center-drive system that requires minimal maintenance.

The steel-mesh guard (*below*) is mounted to the frame and protects the tractor from flying debris.



The quick-release clean-out pan (*above, shown in the open position*) keeps slurry from dripping on roads and allows for easy cleaning. Opening the pan is done by using the latch on the beater-assembly frame.



Fast unloading for faster barn cleaning

The new Frontier Hydraulic-Push Manure Spreaders feature a variable-speed hydraulic push-gate which makes unloading super fast. The pushgate (*below left*) is angled at the bottom to efficiently remove manure.

Dual "piggy-back" hydraulic cylinders (*right*) reduces the overall length of the implement for tight turns. And steel tubing runs from the hitch to the rear axles for support and durability.



High-moisture loads are no problem with the hydraulic endgate. It's constructed with a heavy-duty steel frame and solid virgin-grade polyethylene for durability. Dual-lift cylinders (*inset, left*) control the raising and lowering of the endgate and provide fast operation in cold weather.



SPECIFICATIONS

Model	MS1442H	MS1455H	MS1442H	MS1455H
Beater configuration	Horizontal	Horizontal	Vertical	Vertical
Capacity, heaped	425 bushels (15 m ³)	550 bushels (19.4 m ³)	425 bushels (15 m ³)	550 bushels (19.4 m ³)
Capacity, struck level	270 cu. ft. (7.6 m ³)	430 cu. ft. (12.2 m ³)	270 cu. ft. (7.6 m ³)	430 cu. ft. (12.2 m ³)
Overall width (with tires)	10 ft. 2 in. (3.1 m)	10 ft. 2 in. (3.1 m)	10 ft. 2 in. (3.1 m)	10 ft. 2 in. (3.1 m)
Overall length	26 ft. 5 in. (8.1 m)	26 ft. 5 in. (8.1 m)	27 ft. 5 in. (8.4 m)	27 ft. 5 in. (8.4 m)
Side loading height	5 ft. 1.25 in. (1.6 m)	6 ft. 9 in. (2.1 m)	5 ft. 1.25 in. (1.6 m)	6 ft. 9 in. (2.1 m)
Upper or vertical beater height	6 ft. 2.75 in. (1.9 m)	7 ft. 2.75 in. (2.2 m)	8 ft. 8.5 in. (2.7 m)	10 ft. 1.5 in. (3.1 m)
Endgate height	5 ft. 5 in. (1.7 m)	7 ft. 1.25 in. (2.2 m)	5 ft. 5 in. (1.7 m)	7 ft. 1.25 in. (2.2 m)
Screen height	—	—	8 ft. 2 in. (2.5 m)	9 ft. 9 in. (3.0 m)
Spindle size	3 in. (7.6 cm)	3 in. (7.6 cm)	3 in. (7.6 cm)	3 in. (7.6 cm)
Tire size	385x22.5 used truck tires	425x22.5 used truck tires	385x22.5 used truck tires	425x22.5 used truck tires
Hub type	8 bolt, greasable	10 bolt, greasable	8 bolt, greasable	10 bolt, greasable
Standard PTO	1.375 in. (3.5 cm) diameter; 540 rpm; shear-bolt protection	1.375 or 1.75 in. (3.5 or 4.5 cm) diameter; 1,000 rpm; shear-bolt protection	1.375 in. (3.5 cm) diameter; 540 rpm; shear-bolt protection	1.375 or 1.75 in. (3.5 or 4.5 cm) diameter; 1,000 rpm; shear-bolt protection
Optional PTO	1.75 or 1.375 in. (4.5 or 3.5 cm) diameter; 1,000 rpm; shear-bolt protection	1.375 in. (3.5 cm) diameter; 540 rpm; shear-bolt protection	1.75 or 1.375 in. (4.5 or 3.5 cm) diameter; 1,000 rpm; shear-bolt protection	1.375 in. (3.5 cm) diameter; 540 rpm; shear-bolt protection
Push gate cylinders	(2) piggy back, 3.5x90 in. (0.09x2.3 m)	(2) piggy back, 4.5x90 in. (0.1x2.3 m)	(2) piggy back, 3.5x90 in. (0.09x2.3 m)	(2) piggy back, 4.5x90 in. (0.1x2.3 m)
Hydraulic endgate cylinders	(2) 2x20 in. (5x51 cm)	(2) 2x20 in. (5x51 cm)	(2) 2x20 in. (5x51 cm)	(2) 2x20 in. (5x51 cm)
Beaters	1 upper and 1 lower	1 upper and 1 lower	2 side by side	2 side by side
Beater diameter	Upper: 1 ft. 8 in. (0.5 m) Lower: 2 ft. 5 in. (0.7 m)	Upper: 2 ft. 5 in. (0.7 m) Lower: 2 ft. 5 in. (0.7 m)	2 ft. 10 in. (0.9 m)	2 ft. 10 in. (0.9 m)
Beater paddles	16 paddles on upper beater, 12 on lower beater, all replaceable	12 paddles on upper beater, 12 on lower beater, all replaceable	Bolt-on teeth, all replaceable	Bolt-on teeth, all replaceable
Beater drive chain	Upper: #60 Lower: #80	Upper: #60 Lower: #80	#80	#80
Beater speed	Upper: 300 rpm Lower: 360 rpm	Upper: 360 rpm Lower: 360 rpm	360 rpm	360 rpm
Hydraulic-push unload rate (at 15 gpm)	31 seconds	52 seconds	31 seconds	52 seconds
Loaded weight (approx.)	24,800 lb. (11 249 kg)	32,429 lb. (14 710 kg)	25,205 lb. (11 433 kg)	33,729 lb. (15 299 kg)
Tongue weight, loaded (approx.)	2,802 lb. (1271 kg)	4,160 lb. (1887 kg)	2,472 lb. (1121 kg)	3,710 lb. (1683 kg)
Implement weight	7,000 lb. (3175 kg)	9,680 lb. (4391 kg)	7,900 lb. (3583 kg)	11,000 lb. (4990 kg)
Side rail protection	Wood	Wood	Wood	Wood
Scraper holder	Standard	Standard	Standard	Standard
Rear pan	Optional	Optional	Standard	Standard
Jack	Standard	Standard	Standard	Standard
Transport safety lights, chain & SMV sign	Standard	Standard	Standard	Standard
Warranty	1 year	1 year	1 year	1 year

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