

**FRONTIER PRODUCTS**  
**Livestock & Equine Management**

**Grinder Mixer**  
 Equipment for Base Machine

Tank Capacity - Bushels: 135  
 Tank Capacity - Cubic Ft.: 170  
 Tank Diameter: 72"  
 Diameter of Mixing Auger: 14" Diameter w/30" Base  
 Ladder: Standard - Front Mount Over Mill  
 Tank Windows: 2 - Full Length & 1 Port Hole Style  
 Overall Height: 10' 7"  
 Overall Width w/o Intake Auger: 7' 9"  
 Overall Width w/ Intake Auger: ---  
 Overall Length: 15' 8"  
 Ground Clearance: 11.5 in.  
 Supplement Hopper: 18 X 23 in.  
 Supplement Hopper Height: 35 in.  
 Feeder: Gravity Hopper or Standard Swinging Intake Auger (SIA)  
 Fenders: Standard  
 PTO Drive: 540 or 1000 RPM  
 "H.P. Requirement: 540 RPM 50 to 115 HP  
 1000 RPM 50 to 145 HP "  
 Tires: 12.5L - 15 - 20 Ply  
 Jack: Standard  
 Safety Chain: Standard  
 Weight w/Auger Feeder: 3,600 lbs  
 Auger Feeder Length: 84 in.  
 Auger Diameter: 12 in.  
 Infeed Hopper: 42" w/Fold-In-Flare - Adjustable as low as 20" Drive: Direct Drive Independent

Hydraulic Motor  
 Hammermill Width: 21 in.  
 Cylinder Diameter: 20 in.  
 Grinder Drive: 8 "A" Section Banded V-Belt  
 Grinder Hammers: 66-4 Way Reversible Steel Alloy  
 Grinder Screen Area: 600 Sq. In.  
 Throat Magnet: 2 - 4"x18"  
 Cylinder Speed: 2700 RPM  
 Unloading Auger Tube Diameter: 8 in.  
 Unloading Auger Length: 12 ft.  
 Unloading Auger Rotation: 300 Degrees  
 Unloading Auger Reach Standard: 19' @ 53 Degrees  
 Unloading Auger w/3' Extension: 21' 6" @ 53 Degrees  
 Unloading Auger w/6' Extension: 23' 10" @ 53 Degrees  
 Self-Contained: Includes Pulley-Driven Pump, Reservoir & Pressure Relief Valve  
 Pump Pressure: 2,600 PSI Maximum  
 Oil Flow: 10.5 G.P.M.  
 Hydraulic Reservoir: Cyclonic Reservoir  
 Oil Filter: 10 Micron

Code	Attachment Identifier	Description	List Price Suggested USD (\$)
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Select One Code From Each Required Category

**BASE MACHINE**

5001XF	Grinder Mixer <i>135 bushel tank capacity. Includes Intake Auger, Fenders &amp; Lights</i>	51,785.00
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**DISCHARGE AUGER EXTENSION**

1120	3 Ft. Discharge Auger Extension <i>Includes Discharge Auger Cradle Extension</i>	893.00
1140	6 Ft Discharge Auger Extension <i>Includes Discharge Auger Cradle Extension</i>	1,080.00
1195	No Discharge Auger Extension	In Base Price

**POWER TAKE-OFF (PTO)**

1300	540 RPM PTO Overrunning/Torque Limiting Clutch	In Base Price
1320	1000 RPM PTO 1 3/8" Shearbolt	1,120.00

**AXLES**

1420	EZ 2500 Scale <i>With Net/Tare/Gross modes</i>	3,430.00
1440	EZ 3400 Scale <i>With Net/Tare/Gross/Batch and Ingredient Accumulation modes, with external horn</i>	3,973.00

**FRONTIER PRODUCTS**  
**Livestock & Equine Management**

**Grinder Mixer**  
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<b>Code</b>	<b>Attachment Identifier</b>	<b>Description</b>	<b>List Price Suggested USD (\$)</b>
<b>AXLES ...Continued...</b>			
1495		Less Scale Monitor	In Base Price
<b>MISCELLANEOUS</b>			
8000		High-Moisture Kit-540 RPM <i>Use with 540 RPM only</i>	2,079.00
8010		High-Moisture Kit - 1000 RPM <i>Use with 1000 RPM only</i>	1,993.00
<b>MISCELLANEOUS</b>			
9000		1 In. Mill Screen	196.00
9010		1-1/2 In. Mill Screen	230.00
9020		1-1/4 In. Mill Screen	212.00
9030		1/2 In. Mill Screen	179.00
9040		1/4 In. Mill Screen	226.00
9050		1/8 In. Mill Screen	289.00
9060		2 In. Mill Screen	228.00
9070		3/16 In. Mill Screen	337.00
9080		3/4 In. Mill Screen	121.00
9090		3/8 In. Mill Screen	156.00
9100		5/16 In. Mill Screen	191.00
9110		5/8 In. Mill Screen	136.00
<b>OPERATOR'S MANUAL AND DECALS</b>			
9200		French Operators Manual and Decal Kit <i>GX1117 Grinder Mixer</i>	No Charge
<b>ATTACHMENTS FOR FIELD CONVERSION</b>			
		<b>Miscellaneous</b>	
5HPGMSCRN1		1" Mill Screen	211.68
5HPGMSCRN112		1-1/2" Mill Screen	248.40
5HPGMSCRN114		1-1/4" Mill Screen	228.96
5HPGMSCRN12		1/2" Mill Screen	193.32

**FRONTIER PRODUCTS**  
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**Grinder Mixer**  
 Continued

Code	Attachment Identifier	Description	List Price Suggested USD (\$)
<b>ATTACHMENTS FOR FIELD CONVERSION ...Continued...</b>			
5HPGMSCRN14	1/4" Mill Screen		244.08
5HPGMSCRN18	1/8" Mill Screen		312.12
5HPGMSCRN2	2" Mill Screen		246.24
5HPGMOEXT3	3 FT Discharge Auger		1,045.44
5HPGMSCRN3163/16"	Mill Screen		363.96
5HPGMSCRN34	3/4" Mill Screen		135.52
5HPGMSCRN38	3/8" Mill Screen		174.72
5HPGMSCRN5165/16"	Mill Screen		206.28
5HPGMSCRN58	5/8" Mill Screen		152.32
5HPGMOEXT6	6 FT Discharge Auger		1,260.36
5HPGMOSCLRB	EZ 2500 Scale <i>With Net/Tare/Gross modes.</i>		3,704.40
5HPGMOSCLRHBEZ	3400 Scale <i>With Net/Tare/Gross/Batch and Ingredient Accumulation modes, with external horn.</i>		4,290.84
5HP1009FKGX7	French Operator's Manual and Decal Kit		66.08
5HPGMOHMK1K	Hi-Moisture Kit 1000 RPM		2,152.44
5HPGMOHKM540	Hi-Moisture Kit 540 RPM		2,245.32

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**Livestock & Equine Management**

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**Grinder Mixer**  
Continued

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**FRONTIER PRODUCTS**  
**Livestock & Equine Management**

**MS1117 - 175 Bushel PTO Driven Two Speed Manure Spreader**  
 Equipment for Base Machine

Number of Paddles: 8  
 Main Apron Chain: T-Rod  
 Tractor HP (2WD): 38 HP  
 Capacity - Cubic Foot Struck Level: 105  
 Capacity - Heaped (Old Rating)  
 Bushels: 175 Bushels  
 Box Construction:  
 Corrosion Resistant Galvanized Steel  
 Frame Design: Box on Frame  
 Floor Construction: Bonded Poly  
 Shear Bolt Protection: Drive Line  
 Apron Drive: Gearbox, 2 Speed PTO  
 Swing Away Jack: Standard  
 Inside Length: 11 Ft. 1 In.  
 Diameter of Beater: 27 In.  
 Weight with Tires: 2030 lbs.  
 Standard Tire Size: 10R x 22.5  
 Overall Width with Standard Tires: 83-1/2 In.  
 Overall Height with Hydraulic Endgate: 49 In.  
 Overall Loading Height  
 - Top of Flare: 45-1/2 In.  
 Inside Depth: 25-3/4 In.  
 Inside Width: 54 In.  
 Top of Flare Width: 63-1/2 In.

Approximate Tongue Weight Loaded: 1022 lbs.  
 Approximate Weight Spreader  
 - Fully Loaded: 8508 lbs.  
 Overall Length: 17 Ft. 8 In.  
 Spindle Size: 2 In.  
 Rear Hydraulic Endgate: Optional  
 Semi Liquid Rear Pan: Optional  
 PTO Speed: 540 RPM  
 Drive System - Apron and Beater: PTO Driven  
 Replaceable Paddles: No  
 Hub Style: Greaseable  
 Axle: Single  
 Set-Up Time: 30 Minutes  
 Warranty: 1 Year Parts and Labor,  
 Poly Floors - 10 Year Warranty  
 to Original Owner when used to spread normal  
 agricultural manure.

Code	Attachment Identifier	Description	List Price Suggested USD (\$)
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Select One Code From Each Required Category

**BASE MACHINE**

0806XF		MS1117 - 175 Bushel PTO Driven Two Speed Manure Spreader <i>Includes 540 RPM PTO</i>	12,924.00
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**REAR PAN**

7000		Rear Pan <i>Recommended when spreading slurry.</i>	467.00
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**END GATE**

7050		Hydraulic End Gate	1,562.00
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**BEATER**

9000		Top Beater	1,085.00
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**ATTACHMENTS FOR FIELD CONVERSION**

<b>Miscellaneous</b>			
5HPMSO2B175	Hydraulic End Gate		1,686.96
5HPMSO3B3	Rear Pan <i>Recommended when spreading slurry.</i>		504.36
5HPMSOTB175	Top Beater		1,171.80

**FRONTIER PRODUCTS**

**Livestock & Equine Management**

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**MS1117 - 175 Bushel PTO Driven Two Speed Manure Spreader**

Continued

**FRONTIER PRODUCTS**  
**Livestock & Equine Management**

**MS1112 - 125 Bushel PTO Driven Two Speed Manure Spreader**  
 Equipment for Base Machine

Swing Away Jack: Standard Main Apron Chain: #67XH Chain Tractor HP (2WD): 33 HP Capacity - Cubic Foot Struck Level: 75 Capacity - Heaped (Old Rating) Bushels: 125 Bushels Box Construction: Corrosion Resistant Galvanized Steel Frame Design: Box Frame Floor Construction: Bonded Poly Shear Bolt Protection: One Bolt for Both Drive and Beater Weight with Tires: 1600 lbs. Number of Paddles: 10 Standard Tire Size: 10.00 x 15 PTO Drive: 540 RPM Top of Flare Width: 54 In. Overall Width with Standard Tires: 80 In. Overall Height with Hydraulic Endgate: N/A Overall Loading Height - Top of Flare: 43-1/2 In. Overall Length: 15 Ft. 3 In. Inside Depth: 22 In. Inside Length: 10 Ft. 6 In.	Inside Width: 48 In. Spindle Size: 2 In. Diameter of Beater: 22 In. Approximate Tongue Weight Loaded: 997 lbs. Approximate Weight Spreader - Fully Loaded: 6820 lbs. Semi Liquid Rear Pan: Optional Drive System - Apron and Beater: PTO Driven Apron Drive: Timken Drive, Two Speed Apron Speed: Single Speed Replaceable Beaters: No Hub Style: Greaseable Axle: Single Set-Up Time: 30 Minutes Warranty: 1 Year Parts and Labor, Poly Floors - 10 Year Warranty to Original Owner when used to spread normal agricultural manure.
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Code	Attachment Identifier	Description	List Price Suggested USD (\$)
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Select One Code From Each Required Category

**BASE MACHINE**

0805XF		MS1112 - 125 Bushel PTO Driven Two Speed Manure Spreader <i>Includes 540 RPM PTO</i>	10,092.00
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**REAR PAN**

7000		Rear Pan <i>Recommended when spreading slurry.</i>	429.00
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**ATTACHMENTS FOR FIELD CONVERSION**

		<b>Miscellaneous</b>	
		Rear Pan <i>Recommended when spreading slurry.</i>	463.32

**FRONTIER PRODUCTS**  
**Livestock & Equine Management**

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**MS1112 - 125 Bushel PTO Driven Two Speed Manure Spreader**  
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**FRONTIER PRODUCTS**  
**Livestock & Equine Management**

**MS1108 - 80 Bushel PTO Driven Two Speed Manure Spreader**  
 Equipment for Base Machine

Swing Away Jack: Standard  
 Standard Tire Size: 6.70 x 15  
 PTO Speed: 540 RPM  
 Floor Construction: Bonded Poly  
 Shear Bolt Protection:  
   Drive Line and Beater  
 Box Construction:  
   Corrosion Resistant Galvanized Steel  
 Frame Design: Box Frame  
 Capacity - Heaped (Old Rating)  
   Bushels: 80 Bushels  
 Capacity - Cubic Foot Struck Level: 53  
 Main Apron Chain: #67H Chain  
 Tractor HP (2WD): 23 HP  
 Number Of Paddles: 10  
 Weight with Tires: 1140 lbs.  
 Approximate Tongue Weight Loaded: 737 lbs.  
 Approximate Weight Spreader  
   - Fully Loaded: 4923 lbs.  
 Overall Width with Standard Tires: 76 In.  
 Overall Height with Hydraulic Endgate: N/A  
 Overall Loading Height -  
   Top of Flare: 37 In.  
 Overall Length: 13 Ft. 8 In.

Inside Depth: 17 In.  
 Inside Length: 96 In.  
 Inside Width: 48 In.  
 Top of Flare Width: 51 In.  
 Spindle Size: 2 In.  
 Diameter of Beater: 18-1/2 In.  
 Semi Liquid Rear Pan: Optional  
 Drive System - Apron and Beater: PTO Driven  
 Apron Drive: Timken Drive, Two Speed  
 Apron Speed: Two Speed  
 Replaceable Paddle: No  
 Hub Style: Greaseable  
 Axle: Single  
 Set-Up Time: 30 Minutes  
 Warranty: 1 Year Parts and Labor,  
   Poly Floors - 10 Year Warranty  
   to Original Owner when used to spread normal  
 agricultural manure.

Code	Attachment Identifier	Description	List Price Suggested USD (\$)
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Select One Code From Each Required Category

**BASE MACHINE**

0804XF		MS1108 - 80 Bushel PTO Driven Two Speed Manure Spreader <i>Includes 540 RPM PTO</i>	7,908.00
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**REAR PAN**

7000		Rear Pan <i>Recommended when spreading slurry.</i>	397.00
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**ATTACHMENTS FOR FIELD CONVERSION**

5HPMSO3C		<b>Miscellaneous</b> Rear Pan <i>Recommended when spreading slurry.</i>	428.76
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**FRONTIER PRODUCTS**  
**Livestock & Equine Management**

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**MS1108 - 80 Bushel PTO Driven Two Speed Manure Spreader**  
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**FRONTIER PRODUCTS**  
**Livestock & Equine Management**

**MS1108G - 80 Bushel Ground Driven Manure Spreader**  
 Equipment for Base Machine

Spindle Size: 2 In.  
 Overall Height with Hydraulic Endgate: N/A  
 Overall Loading Height -  
   Top of Flare: 37 In.  
 Overall Length: 13 Ft. 8 In.  
 Inside Depth: 17 In.  
 Inside Length: 96 In.  
 Inside Width: 48 In.  
 Top of Flare Width: 51 In.  
 Standard Tire Size: 6.70 x 15  
 Approximate Tongue Weight Loaded: 570 lbs.  
 Approximate Weight Spreader  
   - Fully Loaded: 4276 lbs.  
 Weight with Tires: 1140 lbs.  
 Swing Away Jack: Standard  
 Apron Drive: Adjustable Ratchet  
   Drive - Ground Driven  
 Apron Speed: Single Speed  
 Floor Construction: Bonded Poly  
 Shear Bolt Protection: Driveline and Beater  
 Frame Design: Box Frame  
 Box Construction:  
   Corrosion Resistant Galvanized Steel  
 Capacity - Cubic Foot Struck Level: 53

Main Apron Chain: #67H Chain  
 Tractor HP (2WD): 23 HP  
 Number Of Paddles: 10  
 Diameter Of Beater: 18-1/2 In.  
 Capacity - Heaped (Old Rating)  
   Bushels: 80 Bushels  
 Overall Width with Standard Tires: 76 In.  
 Semi Liquid Rear Pan: Optional  
 Drive System - Apron and Beater:  
   Ground Driven  
 Replaceable Paddles: No  
 Hub Style: Greaseable  
 Axle: Single  
 Set-Up Time: 30 Minutes  
 Warranty: 1 Year Parts and Labor,  
   Poly Floors - 10 Year Warranty  
   to Original Owner when used to spread normal  
 agricultural manure.

Code	Attachment Identifier	Description	List Price Suggested USD (\$)
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Select One Code From Each Required Category

**BASE MACHINE**

0803XF		MS1108G - 80 Bushel Ground Driven Manure Spreader	6,304.00
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**REAR PAN**

7000		Rear Pan <i>Recommended when spreading slurry.</i>	397.00
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**ATTACHMENTS FOR FIELD CONVERSION**

		<b>Miscellaneous</b> Rear Pan <i>Recommended when spreading slurry.</i>	428.76
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**FRONTIER PRODUCTS**  
**Livestock & Equine Management**

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**MS1108G - 80 Bushel Ground Driven Manure Spreader**  
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**FRONTIER PRODUCTS**  
**Livestock & Equine Management**

**MS1105G - 50 Bushel Ground Driven Manure Spreader**  
 Equipment for Base Machine

Spindle Size: 1-3/4 In.  
 Capacity - Cubic Foot Struck Level: 35  
 Swing Away Jack: Standard  
 Weight with Tires: 790 lbs.  
 Apron Drive: Adjustable Ratchet  
     Drive - Ground Driven  
 Apron Speed: Two Speed - per Adjustable Ratchet  
 Floor Construction: Bonded Poly  
 Capacity - Heaped (Old Rating)  
     Bushels: 50 Bushels  
 Main Apron Chain: #62 Chain  
 Tractor HP (2WD): 17.7 HP  
 Number of Paddles: 8  
 Diameter of Beater: 17-1/2 In.  
 Inside Width: 36 In.  
 Frame Design: Box Frame  
 Box Construction:  
     Corrosion Resistant Galvanized Steel  
 Standard Tire Size: 7.60 x 15  
 Top of Flare Width: 36 In.  
 Inside Length: 97 In.  
 Inside Depth: 17-1/2 In.  
 Overall Length: 13 Ft. 4 In.  
 Approximate Tongue Weight Loaded: 422 lbs.

Approximate Weight Spreader  
     - Fully Loaded: 3266 lbs.  
 Overall Loading Height  
     - top Of Flare: 32-1/2 In.  
 Overall Height with Hydraulic Endgate: N/A  
 Overall Width with Standard Tires: 58 In.  
 Semi Liquid Rear Pan: Optional  
 Drive System - Apron and Beater:  
     Ground Driven  
 Replaceable Paddle: No  
 Hub Style: Greaseable  
 Axle: Single  
 Set-Up Time: 30 Minutes  
 Warranty: 1 Year Parts and Labor,  
     Poly Floors - 10 Year Warranty  
     to Original Owner when used to spread normal  
     agricultural manure.

Code	Attachment Identifier	Description	List Price Suggested USD (\$)
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Select One Code From Each Required Category

**BASE MACHINE**

0802XF		MS1105G - 50 Bushel Ground Driven Manure Spreader	5,524.00
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**REAR PAN**

7000		Rear Pan <i>Recommended when spreading slurry.</i>	330.00
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**ATTACHMENTS FOR FIELD CONVERSION**

		<b>Miscellaneous</b> Rear Pan <i>Recommended when spreading slurry.</i>	356.40
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**FRONTIER PRODUCTS**  
**Livestock & Equine Management**

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**MS1105G - 50 Bushel Ground Driven Manure Spreader**  
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**FRONTIER PRODUCTS**  
**Livestock & Equine Management**

**MS1102G - 25 Bushel Ground Driven Manure Spreader**  
 Equipment for Base Machine

Main Apron Chain: #55 Chain  
 Tractor HP (2WD): 17.7 HP  
 Diameter of Beater: 20 In.  
 Standard Tire Size: 5 x 12  
 Overall Width with Standard Tires: 42 In.  
 Overall Height with Hydraulic Endgate: N/A  
 Apron Drive: Adjustable Ratchet Drive - Ground Driven  
 Number of Paddles: 8  
 Floor Construction: Bonded Poly  
 Overall Loading Height - Top of Flare: 30 In.  
 Weight with Tires: 350 lbs.  
 Swing Away Jack: N/A  
 Inside Width: 22 In.  
 Inside Length: 72 In.  
 Inside Depth: 17 In.  
 Overall Length: 9 Ft. 1 In.  
 Spindle Size: 1-1/4 In.  
 Approximate Tongue Weight Loaded: 136 lbs.  
 Approximate Weight Spreader - Fully Loaded: 1441 lbs.  
 Box Construction:

Corrosion Resistant Galvanized Steel  
 Frame Design: Box Frame  
 Capacity:  
 Heaped (Old Rating) Bushels: 25 Bushels  
 Cubic Foot Struck Level: 13.6  
 Top of Flare Width: 28-1/2 In.  
 Semi Liquid Rear Pan: Optional  
 Drive System - Apron and Beater: Ground Driven  
 Replaceable Paddles: No  
 Hub Style: Greaseable  
 Axle: Single  
 Set-Up Time: 30 Minutes  
 Warranty: 1 Year Parts and Labor, Poly Floors - 10 Year Warranty to Original Owner when used to spread normal agricultural manure.

Code	Attachment Identifier	Description	List Price Suggested USD (\$)
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Select One Code From Each Required Category

**BASE MACHINE**

0801XF		MS1102G - 25 Bushel Ground Driven Manure Spreader <i>Order in multiples of two.</i>	3,429.00
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**REAR PAN**

7000		Rear Pan <i>Recommended when spreading slurry.</i>	279.00
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**ATTACHMENTS FOR FIELD CONVERSION**

5HPMSO3E		<b>Miscellaneous</b> Rear Pan <i>Recommended when spreading slurry.</i>	301.32
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**FRONTIER PRODUCTS**  
**Livestock & Equine Management**

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**MS1102G - 25 Bushel Ground Driven Manure Spreader**  
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**FRONTIER PRODUCTS**  
**Livestock & Equine Management**

**MS1223 - 235 Bushel Chain Unloading Manure Spreader**  
 Equipment for Base Machine

Minimum Tractor Weight: 7,742 lbs.  
 Top of Flare Width: 68 In.  
 Inside Width: 60 In.  
 Inside Length: 12 Ft. 1 In.  
 Inside Depth: 28-3/8 In.  
 Overall Width with Standard Tires: 92-1/2 In.  
 Spindle Size: 2 In.  
 Overall Length: 18 Ft. 6 In.  
 Overall Loading Height  
 - Top of Flare: 51-1/2 In.  
 Overall Height with Hydraulic Endgate: 55 In.  
 Diameter of Beater: 29 In.  
 Upper Beater: Optional  
 Weight with Tires: 2890 lbs.  
 Capacity - Old Rating: 235  
 Capacity Cubic Foot Struck Level: 143  
 Rear Hydraulic End Gate: Optional  
 Semi Liquid Rear Pan: Standard

PTO Speed: 540 RPM  
 Swing Away Jack: Standard  
 Drive: 2 Speed  
 Variable Speed Hydraulic Drive: Optional  
 Front Splash Panel: Standard  
 Hydraulic Cylinder on  
 Hydraulic Endgate: One/2 Optional  
 Warranty: 1st Year Parts and Labor  
 Lifetime Warranty:  
 Bonded Polyethylene Floor and Sides  
 10-Year Warranty: Plywood (Against Rot) with normal  
 agricultural manure

Code	Attachment Identifier	Description	List Price Suggested USD (\$)
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Select One Code From Each Required Category

**BASE MACHINE**

0821XF		MS1223 - 235 Bushel Chain Unloading Manure Spreader <i>Includes 540 RPM PTO, and End Gate.</i>	17,511.00
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**END GATE**

1000		End Gate	In Base Price
1095		Less End Gate	-1,848.00

**END GATE CYLINDERS**

1105		One Cylinder	In Base Price
1110		Two Cylinders	635.00
1195		Less Cylinder	In Base Price

**APRON DRIVE**

2000		Two Speed PTO Driven Apron	In Base Price
2020		Variable Speed Hydraulic Apron	No Added Cost

**APRON CONTROLS**

2040		Two Speed PTO Rope Control	In Base Price
2050		Electric Variable Speed Apron Control	517.00
2055		Manual Variable Speed Apron Control	No Added Cost

**REAR PAN**

**FRONTIER PRODUCTS**  
**Livestock & Equine Management**

**MS1223 - 235 Bushel Chain Unloading Manure Spreader**  
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<b>Code</b>	<b>Attachment Identifier</b>	<b>Description</b>	<b>List Price Suggested USD (\$)</b>
		<b>REAR PAN ...Continued...</b>	
4000		Rear Pan	In Base Price
4020		No Rear Pan	-541.00
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		<b>HYDRAULIC HOSE HOOK-UP</b>	
2110		Standard Hose Hook-up	In Base Price
2105		2 Hose Hook-up <i>One SCV required, Tailgate and apron both controlled with one SCV. There is a sequence valve.</i>	1,976.00
2125		4 Hose Hook-up <i>Two SCV's required, One SCV will control the tailgate and One SCV will control the apron.</i>	1,675.00
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		<b>TIRES</b>	
3005		16.5 x 16.1 Flotation Tires	1,251.00
3060		295 x 22.5 Recapped Tires	In Base Price
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		<b>BEATER</b>	
9000		Top Beater	1,262.00
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		<b>OPERATOR'S MANUAL AND DECALS</b>	
9200		French Operators Manual and Decals	No Charge
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		<b>ATTACHMENTS FOR FIELD CONVERSION</b>	
		<b>Miscellaneous</b>	
5HPMSOEC		Electric Variable Speed Hydraulic Apron Control	558.36
5HPMSO2B235		End Gate (MS1223)	2,311.20
5HPMSO235HD4		Four Hose Hook-up (MS1223, & MS1227)	1,809.00
5HP608FK1223		French Operators Manual and Decals (MS1223)	44.80
5HPMSOPAN235		Rear Pan (MS1223, & MS1227)	584.28
5HPMSOTB235		Top Beater	1,362.96
5HPMSO235HD2		Two Hose Hook-Up (MS1223, & MS1227)	2,134.08

**FRONTIER PRODUCTS**  
**Livestock & Equine Management**

**MS1227 - 270 Bushel Chain Unloading Manure Spreader**  
Equipment for Base Machine

Minimum Tractor Weight: 9,068 lbs.  
 Top of Flare Width: 68 In.  
 Inside Width: 60 In.  
 Inside Length: 14 Ft. 1 In.  
 Inside Depth: 28-3/8 In.  
 Overall Width with Standard Tires: 92-1/2 In.  
 Spindle Size: 2-1/2 In.  
 Overall Length: 20 Ft. 5-1/2 In.  
 Overall Loading Height  
 - Top of Flare: 51-1/2 In.  
 Overall Height with Hydraulic Endgate: 55 In.  
 Diameter of Beater: 29 In.  
 Upper Beater: Optional  
 Weight with Tires: 3230 lbs.  
 Capacity - Old Rating: 270  
 Capacity Cubic Foot Struck Level: 167  
 Rear Hydraulic End Gate: Optional  
 Semi Liquid Rear Pan: Standard

PTO Speed: 540 RPM  
 Swing Away Jack: Standard  
 Drive: 2 Speed  
 Variable Speed Hydraulic Drive: Optional  
 Front Splash Panel: Standard  
 Hydraulic Cylinder on  
 Hydraulic Endgate: One/2 Optional  
 Warranty: 1st Year Parts and Labor  
 Lifetime Warranty:  
 Bonded Polyethylene Floor and Sides  
 10-Year Warranty: Plywood (Against Rot) with normal  
 agricultural manure

Code	Attachment Identifier	Description	List Price Suggested USD (\$)
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Select One Code From Each Required Category

**BASE MACHINE**

0822XF		MS1227 - 270 Bushel Chain Unloading Manure Spreader <i>Includes 540 RPM PTO, and End Gate.</i>	19,163.00
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**END GATE**

1000		End Gate	In Base Price
1095		Less End Gate	-1,851.00

**END GATE CYLINDERS**

1105		One Cylinder	In Base Price
1110		Two Cylinders	635.00
1195		Less Cylinder	In Base Price

**APRON DRIVE**

2000		Two Speed PTO Driven Apron	In Base Price
2020		Variable Speed Hydraulic Apron	No Added Cost

**APRON CONTROLS**

2040		Two Speed PTO Rope Control	In Base Price
2050		Electric Variable Speed Apron Control	517.00
2055		Manual Variable Speed Apron Control	No Added Cost

**REAR PAN**

**FRONTIER PRODUCTS**  
**Livestock & Equine Management**

**MS1227 - 270 Bushel Chain Unloading Manure Spreader**  
 Continued

<b>Code</b>	<b>Attachment Identifier</b>	<b>Description</b>	<b>List Price Suggested USD (\$)</b>
		<b>REAR PAN ...Continued...</b>	
4000		Rear Pan	In Base Price
4020		No Rear Pan	-541.00
<hr/>			
		<b>HYDRAULIC HOSE HOOK-UP</b>	
2110		Standard Hose Hook-up	In Base Price
2105		2 Hose Hook-up <i>One SCV required, Tailgate and apron both controlled with one SCV. There is a sequence valve.</i>	1,976.00
2125		4 Hose Hook-up <i>Two SCV's required, One SCV will control the tailgate and One SCV will control the apron.</i>	1,675.00
<hr/>			
		<b>TIRES</b>	
3005		16.5 x 16.1 Flotation Tires	1,251.00
3060		295 x 22.5 Recapped Tires	In Base Price
<hr/>			
		<b>BEATER</b>	
9000		Top Beater	1,262.00
<hr/>			
		<b>OPERATOR'S MANUAL AND DECALS</b>	
9200		French Operators Manual and Decals	No Charge
<hr/>			
		<b>ATTACHMENTS FOR FIELD CONVERSION</b>	
		<b>Miscellaneous</b>	
5HPMSOEC		Electric Variable Speed Hydraulic Apron Control	558.36
5HPMSO2B270		End Gate (MS1227)	2,309.04
5HPMSO235HD4		Four Hose Hook-up (MS1223, & MS1227)	1,809.00
5HP608FK1227		French Operators Manual and Decals (MS1227)	44.80
5HPMSOPAN235		Rear Pan (MS1223, & MS1227)	584.28
5HPMSOTB235		Top Beater	1,362.96
5HPMSO235HD2		Two Hose Hook-Up (MS1223, & MS1227)	2,134.08

**FRONTIER PRODUCTS**  
**Livestock & Equine Management**

**MS1231 - 310 Bushel Chain Unloading Manure Spreader**  
 Equipment for Base Machine

Minimum Tractor Weight: 10,532 lbs. Top of Flare Width: 68 In. Inside Width: 60 In. Inside Length: 15 Ft. 7 In. Inside Depth: 28-3/8 In. Overall Width with Standard Tires: 97 In. Spindle Size: 2-1/4 In. Overall Length: 21 Ft. 11-1/2 In. Overall Loading Height - Top of Flare: 51-1/2 In. Overall Height with Hydraulic Endgate: 55 In. Diameter of Beater: 29 In. Upper Beater: Optional Weight with Tires: 4190 lbs. Capacity - Old Rating: 310 Capacity Cubic Foot Struck Level: 185 Rear Hydraulic End Gate: Standard Semi Liquid Rear Pan: Optional	PTO Speed: 540, 1000 RPM Optional Swing Away Jack: Standard Drive: 2 Speed Variable Speed Hydraulic Drive: Optional Front Splash Panel: Standard Hydraulic Cylinder on Hydraulic Endgate: One/2 Optional Warranty: 1st Year Parts and Labor Lifetime Warranty: Bonded Polyethylene Floor and Sides 10-Year Warranty: Plywood (Against Rot) with normal agricultural manure
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Code	Attachment Identifier	Description	List Price Suggested USD (\$)
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Select One Code From Each Required Category

**BASE MACHINE**

0823XF		MS1231 - 310 Bushel Chain Unloading Manure Spreader <i>Hydraulic Endgate, and Rear Pan are standard.</i>	24,663.00
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**END GATE CYLINDERS**

1105		One Cylinder	In Base Price
1110		Two Cylinders	635.00

**APRON DRIVE**

2000		Two Speed PTO Driven Apron	In Base Price
2020		Variable Speed Hydraulic Apron	No Added Cost

**APRON CONTROLS**

2040		Two Speed PTO Rope Control	In Base Price
2050		Electric Variable Speed Apron Control	517.00
2055		Manual Variable Speed Apron Control	No Added Cost

**REAR PAN**

4000		Rear Pan	In Base Price
4020		No Rear Pan	-541.00

**HYDRAULIC HOSE HOOK-UP**

2110		Standard Hose Hook-up	In Base Price
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**FRONTIER PRODUCTS**  
**Livestock & Equine Management**

**MS1231 - 310 Bushel Chain Unloading Manure Spreader**  
 Continued

<b>Code</b>	<b>Attachment Identifier</b>	<b>Description</b>	<b>List Price Suggested USD (\$)</b>
2105		<b>HYDRAULIC HOSE HOOK-UP ...Continued...</b> 2 Hose Hook-up <i>One SCV required, Tailgate and apron both controlled with one SCV. There is a sequence valve.</i>	1,960.00
2125		4 Hose Hook-up <i>Two SCV's required, One SCV will control the tailgate and One SCV will control the apron.</i>	1,659.00

**TIRES**

3005		16.5 x 16.1 Flotation Tires	2,431.00
3060		295 x 22.5 Recapped Tires	In Base Price

**POWER TAKE-OFF (PTO)**

5012		540 RPM PTO	In Base Price
5011		1000 RPM PTO 1 3/8"	543.00

**BEATER**

9000		Top Beater	1,262.00
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**OPERATOR'S MANUAL AND DECALS**

9200		French Operators Manual and Decals	No Charge
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**ATTACHMENTS FOR FIELD CONVERSION**

<b>Miscellaneous</b>		
5HPMSOEC	Electric Variable Speed Hydraulic Apron Control	558.36
5HPMSO310HD4	Four Hose Hook-Up (MS1231, MS1237, & MS1243)	1,791.72
5HP608FK1231	French Operators Manual and Decals (MS1231)	43.68
5HPMSOPAN310	Rear Pan (MS1231, MS1237, & MS1243)	584.28
5HPMSOTB235	Top Beater	1,362.96
5HPMSO310HD2	Two Hose Hook-Up (MS1231, MS1237, & MS1243)	2,116.80

**FRONTIER PRODUCTS**  
**Livestock & Equine Management**

**MS1237 - 370 Bushel Chain Unloading Manure Spreader**  
 Equipment for Base Machine

Minimum Tractor Weight: 13,264 lbs.  
 Top of Flare Width: 68 In.  
 Inside Width: 60 In.  
 Inside Length: 16 Ft. 6 In.  
 Inside Depth: 34-3/8 In.  
 Overall Width with Standard Tires: 97 In.  
 Spindle Size: 2-1/2 In.  
 Overall Length: 23' 2-1/2 In.  
 Overall Loading Height  
 - Top of Flare: 57-1/2 In.  
 Overall Height with Hydraulic Endgate: 61 In.  
 Diameter of Beater: 29 In.  
 Upper Beater: Optional  
 Weight with Tires: 4920 lbs.  
 Capacity - Old Rating: 370  
 Capacity Cubic Foot Struck Level: 235  
 Rear Hydraulic End Gate: Standard  
 Semi Liquid Rear Pan: Optional

PTO Speed: 540, 1000 RPM Optional  
 Swing Away Jack: Standard  
 Drive: 2 Speed  
 Variable Speed Hydraulic Drive: Optional  
 Front Splash Panel: Standard  
 Hydraulic Cylinder on  
 Hydraulic Endgate: Two  
 Warranty: 1st Year Parts and Labor  
 Lifetime Warranty:  
 Bonded Polyethylene Floor and Sides  
 10-Year Warranty: Plywood (Against Rot) with normal  
 agricultural manure

Code	Attachment Identifier	Description	List Price Suggested USD (\$)
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Select One Code From Each Required Category

**BASE MACHINE**

0824XF		MS1237 - 370 Bushel Chain Unloading Manure Spreader <i>Hydraulic Endgate, and Rear Pan are standard.</i>	27,464.00
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**APRON DRIVE**

2000		Two Speed PTO Driven Apron	In Base Price
2020		Variable Speed Hydraulic Apron	No Added Cost

**APRON CONTROLS**

2040		Two Speed PTO Rope Control	In Base Price
2050		Electric Variable Speed Apron Control	517.00
2055		Manual Variable Speed Apron Control	No Added Cost

**REAR PAN**

4000		Rear Pan	In Base Price
4020		No Rear Pan	-541.00

**HYDRAULIC HOSE HOOK-UP**

2110		Standard Hose Hook-up	In Base Price
2105		2 Hose Hook-up <i>One SCV required, Tailgate and apron both controlled with one SCV. There is a sequence valve.</i>	1,960.00

**FRONTIER PRODUCTS**  
**Livestock & Equine Management**

**MS1237 - 370 Bushel Chain Unloading Manure Spreader**  
 Continued

<b>Code</b>	<b>Attachment Identifier</b>	<b>Description</b>	<b>List Price Suggested USD (\$)</b>
2125		<b>HYDRAULIC HOSE HOOK-UP ...Continued...</b> 4 Hose Hook-up <i>Two SCV's required, One SCV will control the tailgate and One SCV will control the apron.</i>	1,659.00
<b>TIRES</b>			
3005		16.5 x 16.1 Flotation Tires	2,431.00
3060		295 x 22.5 Recapped Tires	In Base Price
<b>POWER TAKE-OFF (PTO)</b>			
5012		540 RPM PTO	In Base Price
5011		1000 RPM PTO 1 3/8"	543.00
<b>BEATER</b>			
9000		Top Beater	1,265.00
<b>OPERATOR'S MANUAL AND DECALS</b>			
9200		French Operators Manual and Decals	No Charge
<b>ATTACHMENTS FOR FIELD CONVERSION</b>			
<b>Miscellaneous</b>			
5HPMSOEC		Electric Variable Speed Hydraulic Apron Control	558.36
5HPMSO310HD4		Four Hose Hook-Up (MS1231, MS1237, & MS1243)	1,791.72
5HP608FK1237		French Operators Manual and Decals (MS1237)	43.68
5HPMSOPAN310		Rear Pan (MS1231, MS1237, & MS1243)	584.28
5HPMSOTB370		Top Beater	1,366.20
5HPMSO310HD2		Two Hose Hook-Up (MS1231, MS1237, & MS1243)	2,116.80



**FRONTIER PRODUCTS**  
**Livestock & Equine Management**

**MS1243 - 430 Bushel Chain Unloading Manure Spreader**  
 Equipment for Base Machine

Minimum Tractor Weight: 15,340 lbs. Top of Flare Width: 68 In. Inside Width: 60 In. Inside Length: 16 Ft. 6 In. Inside Depth: 40-3/8 In. Overall Width with Standard Tires: 107 In. Spindle Size: 2-1/2 In. Overall Length: 23 Ft. 2-1/2 In. Overall Loading Height - Top of Flare: 63-1/2 In. Overall Height with Hydraulic Endgate: 67 In. Diameter of Beater: 29 In. Upper Beater: Optional Weight with Tires: 5220 lbs. Capacity - Old Rating: 430 Capacity Cubic Foot Struck Level: 275 Rear Hydraulic End Gate: Standard Semi Liquid Rear Pan: Optional	PTO Speed: 540, 1000 RPM Optional Swing Away Jack: Standard Drive: 2 Speed Variable Speed Hydraulic Drive: Optional Front Splash Panel: Standard Hydraulic Cylinder on Hydraulic Endgate: Two Warranty: 1st Year Parts and Labor Lifetime Warranty: Bonded Polyethylene Floor and Sides 10-Year Warranty: Plywood (Against Rot) with normal agricultural manure
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Code	Attachment Identifier	Description	List Price Suggested USD (\$)
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Select One Code From Each Required Category

**BASE MACHINE**

0825XF		MS1243 - 430 Bushel Chain Unloading Manure Spreader <i>Top Beater, Hydraulic Endgate, and Rear Pan are standard.</i>	31,161.00
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**APRON DRIVE**

2000		Two Speed PTO Driven Apron	In Base Price
2020		Variable Speed Hydraulic Apron	No Added Cost

**APRON CONTROLS**

2040		Two Speed PTO Rope Control	In Base Price
2050		Electric Variable Speed Apron Control	517.00
2055		Manual Variable Speed Apron Control	No Added Cost

**REAR PAN**

4000		Rear Pan	In Base Price
4020		No Rear Pan	-541.00

**HYDRAULIC HOSE HOOK-UP**

2110		Standard Hose Hook-up	In Base Price
2105		2 Hose Hook-up <i>One SCV required, Tailgate and apron both controlled with one SCV. There is a sequence valve.</i>	1,960.00

**FRONTIER PRODUCTS**  
**Livestock & Equine Management**

**MS1243 - 430 Bushel Chain Unloading Manure Spreader**  
 Continued

<b>Code</b>	<b>Attachment Identifier</b>	<b>Description</b>	<b>List Price Suggested USD (\$)</b>
2125		<b>HYDRAULIC HOSE HOOK-UP ...Continued...</b> 4 Hose Hook-up <i>Two SCV's required, One SCV will control the tailgate and One SCV will control the apron.</i>	1,659.00
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<b>POWER TAKE-OFF (PTO)</b>			
5012		540 RPM PTO	In Base Price
5011		1000 RPM PTO 1 3/8"	543.00
<hr/>			
<b>OPERATOR'S MANUAL AND DECALS</b>			
9200		French Operators Manual and Decals	No Charge
<hr/>			
<b>ATTACHMENTS FOR FIELD CONVERSION</b>			
<b>Miscellaneous</b>			
5HPMSOEC		Electric Variable Speed Hydraulic Apron Control	558.36
5HPMSO310HD4		Four Hose Hook-Up (MS1231, MS1237, & MS1243)	1,791.72
5HP608FK1243		French Operators Manual and Decals (MS1243)	43.68
5HPMSOPAN310		Rear Pan (MS1231, MS1237, & MS1243)	584.28
5HPMSO310HD2		Two Hose Hook-Up (MS1231, MS1237, & MS1243)	2,116.80

**FRONTIER PRODUCTS**  
**Livestock & Equine Management**

**MS1256 - 560 Bushel Chain Unloading Manure Spreader**  
 Equipment for Base Machine

Minimum Tractor Weight: 20,282 lbs. Top of Flare Width: 89-1/2 In. Inside Width: 80 In. Inside Length: 17 Ft. 5 In. Inside Depth: 36 In. Overall Width with Standard Tires: 130 In. Spindle Size: 3 In. Overall Length: 26 Ft. 10 In. Overall Loading Height - Top of Flare: 60 In. Overall Height with Hydraulic Endgate: 75 In. Diameter of Beater: 29 In. Upper Beater: Standard Weight with Tires: 8140 lbs. Capacity - Old Rating: 560 Capacity Cubic Foot Struck Level: 353 Rear Hydraulic End Gate: Standard Semi Liquid Rear Pan: Optional	PTO Speed: 1000 RPM Optional Swing Away Jack: Standard Drive: Hydraulic Variable Speed Hydraulic Drive: Optional Front Splash Panel: Standard Hydraulic Cylinder on Hydraulic Endgate: Two Warranty: 1st Year Parts and Labor Lifetime Warranty: Bonded Polyethylene Floor and Sides 10-Year Warranty: Plywood (Against Rot) with normal agricultural manure
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Code	Attachment Identifier	Description	List Price Suggested USD (\$)
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Select One Code From Each Required Category

**BASE MACHINE**

0826XF		MS1256 - 560 Bushel Chain Unloading Manure Spreader <i>Top Beater, Hydraulic Endgate, and Rear Pan are standard. Includes 1 3/8" 1000 RPM PTO</i>	46,008.00
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**REAR PAN**

4000		Rear Pan	In Base Price
4020		No Rear Pan	-846.00

**TIRES**

3002		Standard 425 X 22.5 Tires	In Base Price
3003		High Flotation 600/50 X 22.5 Tires in lieu of Standard 425 X 22.5 Tires	9,774.00

**OPERATOR'S MANUAL AND DECALS**

9200		French Operators Manual and Decals	No Charge
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**ATTACHMENTS FOR FIELD CONVERSION**

<b>Miscellaneous</b>			
5HP608FK1256		French Operators Manual and Decals (MS1256)	52.64
5HPMSO3G		Rear Pan	878.04

**FRONTIER PRODUCTS**  
**Livestock & Equine Management**

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**MS1256 - 560 Bushel Chain Unloading Manure Spreader**  
Continued

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**FRONTIER PRODUCTS**  
**Livestock & Equine Management**

**MS1266 - 660 Bushel Chain Unloading Manure Spreader**  
 Equipment for Base Machine

Minimum Tractor Weight: 26,687 lbs.  
 Top of Flare Width: 89.5 In.  
 Inside Width: 82 In., 2083 mm  
 Inside Length: 17 Ft. 5 In.  
 Inside Depth: 49 In.  
 Overall Width with Standard Tires:  
 135-1/2 In.  
 Spindle Size: 3 In.  
 Overall Length: 25 Ft. 11 In., 7.9 mm  
 Overall Loading Height -  
 Top of Flare: 73 In.  
 Overall Height with Hydraulic Endgate: 96 In.  
 Diameter of Beater: 25-1/2 In., 648 mm  
 Upper Beater: Standard  
 Weight with Tires: 11,128 lbs.  
 Capacity - Old Rating: 660  
 Capacity Cubic Foot Struck Level: 442  
 Rear Hydraulic End Gate: Standard

Semi Liquid Rear Pan: Optional  
 PTO Speed: 1000 RPM Optional  
 Swing Away Jack: Standard  
 Drive: Variable Speed Hydraulic Drive  
 Variable Speed Hydraulic Drive: Standard  
 Front Splash Panel: Standard  
 Hydraulic Cylinder on Hydraulic Endgate: 2  
 Warranty: 1st Year Parts and Labor  
 Lifetime Warranty:  
 Bonded Polyethylene Floor and Sides  
 10-Year Warranty: Plywood (Against Rot) with normal  
 agricultural manure

Code	Attachment Identifier	Description	List Price Suggested USD (\$)
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Select One Code From Each Required Category

**BASE MACHINE**

0827XF		MS1266 - 660 Bushel Chain Unloading Manure Spreader <i>Top Beater, Hydraulic Endgate, and Rear Pan are standard.                  Includes 1 3/8" 1000 RPM PTO</i>	52,523.00
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**REAR PAN**

4000		Rear Pan	In Base Price
4020		No Rear Pan	-846.00

**TIRES**

3002		Standard 425 X 22.5 Tires	In Base Price
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**OPERATOR'S MANUAL AND DECALS**

9200		French Operators Manual and Decals	No Charge
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**ATTACHMENTS FOR FIELD CONVERSION**

<b>Miscellaneous</b>			
5HP608FK1266		French Operators Manual and Decals (MS1266)	52.64
5HPMSO3G		Rear Pan	878.04

**FRONTIER PRODUCTS**  
**Livestock & Equine Management**

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**MS1266 - 660 Bushel Chain Unloading Manure Spreader**  
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**FRONTIER PRODUCTS**  
**Livestock & Equine Management**

**MS1442 - 425 Bushel Hydraulic Push Manure Spreader**  
 Equipment for Base Machine

Capacity Bushels Heaped: 425  
 Capacity Cubic Foot Struck Level: 270  
 Inside Width: 7 Ft. 2 In.  
 Inside Depth: 34 In.  
 Inside Length: 16 Ft.  
 Overall Width: 10 Ft. 2 In.  
 Overall Length:  
     Horizontal Beaters - 26 Ft. 5 In.  
     Vertical Beaters - 27 Ft. 5 In.  
 Overall Height:  
     Horizontal Beaters - 74-3/4 In.  
     Vertical Beaters - N/A  
 Loading Height: 61-1/4 In.  
 Height - Top of End Gate: 65 In.  
 Axle Type: Tandem  
 Spindle Size: 3 In.  
 Tire Size:  
     425 x 22.5 Used Truck Tires  
 Hub Type: 8 Bolt Greaseable  
 Standard PTO: Choice  
 Push Gate Cylinders:  
     (2) Piggy Back - 3-1/2 In. x 90 In.  
 Cylinders on Hydraulic End Gate:  
     (2) - 2 In. x 20 In.  
 Vertical Beater Diameter: (2) 34 In.  
 Lower Beater Diameter: 29 In.

Number of Paddles on Lower Beater: 12  
 Lower Beater Speed: 360 RPM  
 Lower Beater Drive Chain: #80  
 Top Beater Diameter: 20 In.  
 Number of Paddles on Top Beater: 16  
 Top Beater Speed: 300 RPM  
 Top Beater Drive Chain: #60  
 Replaceable Beaters: Yes  
 Clean out Trip  
     Horizontal Beaters - Optional  
     Vertical Beaters - Standard  
 Approximate Loaded Weight:  
     24,800 lbs.  
 Approximate Tongue Weight Loaded:  
     2,802 lbs.  
 Minimal Tractor Weight:  
     16,534 lbs.  
 Weight: 7,700 lbs.  
 Side Rail Protection: Wood  
 Set-Up Time: 45 Minutes

Code	Attachment Identifier	Description	List Price Suggested USD (\$)
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Select One Code From Each Required Category

**BASE MACHINE**

0841XF		MS1442 - 425 Bushel Hydraulic Push Manure Spreader <i>Includes standard transport lights.</i>	36,766.00
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**POWER TAKE-OFF (PTO)**

5012		540 RPM PTO Overrunning/Torque Limiting Clutch	1,537.00
5011		1000 RPM PTO 1 3/8" Shearbolt	838.00
5017		1000 RPM PTO 1 3/8" Overrunning/Torque Limiting Clutch	1,766.00
5015		1000 RPM PTO 1 3/4" Shearbolt	838.00
5016		1000 RPM PTO 1 3/4" Overrunning/Torque Limiting Clutch	1,766.00

**TIRES**

3020		19L x 16.1 Flotation Tire	2,117.00
3002		Standard 425 X 22.5 Tires	In Base Price

**BEATER TYPE**

1100		Horizontal Beaters	In Base Price
1120		Vertical Beaters <i>Must be ordered with option 4095, less rear pan.</i>	10,690.00

**FRONTIER PRODUCTS**  
**Livestock & Equine Management**

**MS1442 - 425 Bushel Hydraulic Push Manure Spreader**  
 Continued

<b>Code</b>	<b>Attachment Identifier</b>	<b>Description</b>	<b>List Price Suggested USD (\$)</b>
<b>BEATER TYPE ...Continued...</b>			
<hr/>			
<b>REAR PAN</b>			
4020		Horizontal Beater Rear Pan <i>NOT compatible with vertical beaters.</i>	957.00
4095		Less Rear Pan <i>Must be ordered with option 1120, vertical beaters.</i>	In Base Price
<hr/>			
<b>OPERATOR'S MANUAL AND DECALS</b>			
9201		French Operators Manual and Decals (MS14 Series with Horizontal Beaters)	No Charge
9200		French Operators Manual and Decals (MS14 Series with Vertical Beaters)	No Charge
<b>ATTACHMENTS FOR FIELD CONVERSION</b>			
<b>Miscellaneous</b>			
5HP608FK1442		French Operators Manual and Decals (MS1442 with Horizontal Beaters)	57.12
HP608FK1442V		French Operators Manual and Decals (MS1442 with Vertical Beaters)	59.36
5HPMSHPOPAN		Horizontal Beater Rear Pan <i>NOT compatible with vertical beaters.</i>	1,112.40



**FRONTIER PRODUCTS**  
**Livestock & Equine Management**

**MS1455 - 550 Bushel Hydraulic Push Manure Spreader**  
 Equipment for Base Machine

Capacity Bushels Heaped: 550  
 Capacity Cubic Foot Struck Level: 430  
 Inside Width: 72 In.  
 Inside Depth: 53 In.  
 Inside Length: 16 Ft.  
 Overall Width: 10 Ft. 2 In.  
 Overall Length:  
     Horizontal Beaters - 26 Ft. 5 In.  
     Vertical Beaters - 27 Ft. 5 In.  
 Overall Height:  
     Horizontal Beaters - 86-3/4 In.  
     Vertical Beaters - 121-1/2 In.  
 Loading Height: 81 In.  
 Height - Top of End Gate: 85-1/2 In.  
 Axle Type: Tandem  
 Spindle Size: 3 In.  
 Tire Size:  
     425 x 22.5 Used Truck Tires  
 Hub Type: 10 Bolt Greaseable  
 Standard PTO: Choice  
 Push Gate Cylinders:  
     (2) Piggy Back - 4-1/2 In. x 90 In.  
 Cylinders on Hydraulic End Gate:  
     (2) - 2 In. x 20 In.  
 Vertical Beater Diameter: (2) 34 In.  
 Lower Beater Diameter: 29 In.

Number of Paddles on Lower Beater: 12  
 Lower Beater Speed: 360 RPM  
 Lower Beater Drive Chain: #80  
 Top Beater Diameter: 29 In.  
 Number of Paddles on Top Beater: 12  
 Top Beater Speed: 360 RPM  
 Top Beater Drive Chain: #80  
 Replaceable Beaters: Yes  
 Clean out Trip  
     Horizontal Beaters - Optional  
     Vertical Beaters - Standard  
 Approximate Loaded Weight:  
     32,429 lbs.  
 Approximate Tongue Weight Loaded:  
     4,160 lbs.  
 Minimal Tractor Weight:  
     21,620 lbs.  
 Weight: 9,680 lbs.  
 Side Rail Protection: Wood  
 Set-Up Time: 45 Minutes

Code	Attachment Identifier	Description	List Price Suggested USD (\$)
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Select One Code From Each Required Category

**BASE MACHINE**

0842XF		MS1455 - 550 Bushel Hydraulic Push Manure Spreader <i>Includes standard transport lights.</i>	48,440.00
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**POWER TAKE-OFF (PTO)**

5011		1000 RPM PTO 1 3/8" Shearbolt	838.00
5017		1000 RPM PTO 1 3/8" Overrunning/Torque Limiting Clutch	1,766.00
5015		1000 RPM PTO 1 3/4" Shearbolt	838.00
5016		1000 RPM PTO 1 3/4" Overrunning/Torque Limiting Clutch	1,766.00

**TIRES**

3002		Standard 425 X 22.5 Tires	In Base Price
3003		High Flotation 600/50 X 22.5 Tires in lieu of Standard 425 X 22.5 Tires	9,133.00

**BEATER TYPE**

1100		Horizontal Beaters	In Base Price
1120		Vertical Beaters <i>Must be ordered with option 4095, less rear pan.</i>	11,914.00

**FRONTIER PRODUCTS**  
**Livestock & Equine Management**

**MS1455 - 550 Bushel Hydraulic Push Manure Spreader**  
 Continued

<b>Code</b>	<b>Attachment Identifier</b>	<b>Description</b>	<b>List Price Suggested USD (\$)</b>
<b>REAR PAN</b>			
4020		Horizontal Beater Rear Pan <i>NOT compatible with vertical beaters.</i>	957.00
4095		Less Rear Pan <i>Must be ordered with option 1120, vertical beaters.</i>	In Base Price
<b>OPERATOR'S MANUAL AND DECALS</b>			
9201		French Operators Manual and Decals (MS14 Series with Horizontal Beaters)	No Charge
9200		French Operators Manual and Decals (MS14 Series with Vertical Beaters)	No Charge
<b>ATTACHMENTS FOR FIELD CONVERSION</b>			
<b>Miscellaneous</b>			
5HP608FK1455		French Operators Manual and Decals (MS1455 with Horizontal Beaters)	59.36
HP608FK1455V		French Operators Manual and Decals (MS1455 with Vertical Beaters)	60.48
5HPMSHPOPAN		Horizontal Beater Rear Pan <i>NOT compatible with vertical beaters.</i>	1,112.40

**FRONTIER PRODUCTS**

**MS2320 -2000 Gallon Side Discharge Manure Spreader**  
Equipment for Base Machine

Minimum Tractor Weight: 15,693 lbs.	Semi Liquid Rear Pan: N/A
Top of Flare Width: 76 In.	PTO Speed: 540 RPM
Inside Width: 76 In.	Optional Speed: 1000 RPM (1-3/8")
Inside Length: 16 Ft. 0 In.	Swing Away Jack: Standard
Inside Depth: 50.5 In.	Drive: N/A
Overall Width with Standard Tires: 85 In.	Variable Speed Hydraulic Drive: N/A
Spindle Size: 2.5 In.	Front Splash Panel: Standard
Overall Length: 22 Ft. 8 In.	Hydraulic Cylinder on
Overall Loading Height	Hydraulic Endgate: N/A
- Top of Flare: 69 In.	Warranty: 1st Year Parts and Labor
Overall Height @ Front Splash: 76 In.	
Diameter of Expeller: 18.5 In.	
Upper Beater: N/A	
Weight with Tires: 6860 lbs.	
Capacity - Old Rating: N/A	
Capacity Cubic Foot Struck Level: 269	
Rear Hydraulic End Gate: N/A	

Code	Attachment Identifier	Description	List Price Suggested USD (\$)
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Select One Code From Each Required Category

**BASE MACHINE**

0810XF		MS2320 -2000 Gallon Side Discharge Manure Spreader	39,159.00
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**AXLES**

1040		STANDARD AXLE	In Base Price
1041		STRAIGHT AXLE (MS2320) <i>INCREASES GROUND CLEARANCE AND LOADING HEIGHT</i>	No Added Cost
1042		DROP AXLE (MS2320) <i>DECREASES GROUND CLEARANCE AND LOADING HEIGHT</i>	No Added Cost

**TIRES**

3060		295R X 22.5 RECAP TIRE - TUBELESS (MS2320)	2,011.00
300S		16.5 X 16.1-10 PLY TIRE (MS2320, MS2326)	3,730.00

**POWER TAKE-OFF (PTO)**

5012		540 RPM PTO with Overrunning/Torque Limiting Clutch	In Base Price
5017		1000 RPM PTO 1 3/8" with Overrunning/Torque Limiting Clutch	995.00

**MONITOR**

8191		DIGI-STAR 5-POINT SCALE <i>MONITOR SOLD SEPARATELY.</i>	3,525.00
8193		DIGI-STAR GT400 MONITOR	1,039.00
8194		DIGI-STAR NT460 MONITOR/GPS	2,854.00
8195		DIGI-STAR AUTO START/STOP	3,224.00

FRONTIER PRODUCTS

**MS2320 -2000 Gallon Side Discharge Manure Spreader**

Continued

Code	Attachment Identifier	Description	List Price Suggested USD (\$)
		<b>MONITOR ...Continued...</b> <i>COMPATIBLE WITH NT460 MONITOR ONLY.</i>	
		<b>OPERATOR'S MANUAL AND DECALS</b>	
903S		French Operators Manual and Decal Kit	No Charge
		<b>ATTACHMENTS FOR FIELD CONVERSION</b>	
		<b>Miscellaneous</b>	
5HP2320FKMS		French Operators Manual and Decals (MS2320)	58.24

**FRONTIER PRODUCTS**

**MS2326 -2600 Gallon Side Discharge Manure Spreader**  
Equipment for Base Machine

Minimum Tractor Weight: 19,709 lbs.	Rear Hydraulic End Gate: N/A
Top of Flare Width: 87 In.	Semi Liquid Rear Pan: N/A
Inside Width: 87 In.	PTO Speed: 540 RPM
Inside Length: 16 Ft. 0 In.	Swing Away Jack: Standard
Inside Depth: 58.5 In.	Drive: N/A
Overall Width with Standard Tires: 103 In.	Variable Speed Hydraulic Drive: N/A
Spindle Size: 3.0 In.	Front Splash Panel: Standard
Overall Length: 22 Ft. 8 In.	Hydraulic Cylinder on
Overall Loading Height	Hydraulic Endgate: N/A
- Top of Flare: 81 In.	Warranty: 1st Year Parts and Labor
Overall Height @ Front Splash: 88 In.	
Diameter of Expeller: 18.5 In.	
Upper Beater: N/A	
Weight with Tires: 7880 lbs.	
Capacity - Old Rating: N/A	
Capacity Cubic Foot Struck Level: 347	

Code	Attachment Identifier	Description	List Price Suggested USD (\$)
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Select One Code From Each Required Category

**BASE MACHINE**

0811XF		MS2326 -2600 Gallon Side Discharge Manure Spreader	42,138.00
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**AXLES**

1040		STANDARD AXLE	In Base Price
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**TIRES**

300S		16.5 X 16.1-10 PLY TIRE (MS2320, MS2326)	3,730.00
3071		425L X 22.5 USED TRUCK TIRE (MS2326)	2,256.00
300T		19L X 16.1-10 PLY TIRE (MS2326)	4,141.00

**POWER TAKE-OFF (PTO)**

5012		540 RPM PTO with Overrunning/Torque Limiting Clutch	-884.00
5017		1000 RPM PTO 1 3/8" with Overrunning/Torque Limiting Clutch	In Base Price

**MONITOR**

8191		DIGI-STAR 5-POINT SCALE <i>MONITOR SOLD SEPARATELY.</i>	4,323.00
8193		DIGI-STAR GT400 MONITOR	1,039.00
8194		DIGI-STAR NT460 MONITOR/GPS	2,854.00
8195		DIGI-STAR AUTO START/STOP <i>COMPATIBLE WITH NT460 MONITOR ONLY.</i>	3,224.00

**OPERATOR'S MANUAL AND DECALS**

903S		French Operators Manual and Decal Kit	No Charge
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FRONTIER PRODUCTS

**MS2326 -2600 Gallon Side Discharge Manure Spreader**

Continued

Code	Attachment Identifier	Description	List Price Suggested USD (\$)
<b>OPERATOR'S MANUAL AND DECALS ...Continued...</b>			
<b>ATTACHMENTS FOR FIELD CONVERSION</b>			
<b>Miscellaneous</b>			
5HP2326FKMS		French Operators Manual and Decals (MS2326)	58.24

**FRONTIER PRODUCTS**

**MS2334 - 3400 Gallon Side Discharge Manure Spreader**  
Equipment for Base Machine

Minimum Tractor Weight: 26,197 lbs.  
 Top of Flare Width: 97 In.  
 Inside Width: 97 In.  
 Inside Length: 16 Ft. 0 In.  
 Inside Depth: 65.5 In.  
 Overall Width with Standard Tires: 112 In.  
 Spindle Size: 3.375 In.  
 Optional Spindle Size: 4.50 In.  
 Overall Length: 23 Ft. 7 In.  
 Overall Loading Height  
 - Top of Flare: 93 In.  
 Overall Height @ Front Splash: 101 In.  
 Diameter of Expeller: 18.5 In.  
 Upper Beater: N/A  
 Weight with Tires: 10940 lbs.  
 Capacity - Old Rating: N/A  
 Capacity Cubic Foot Struck Level: 451

Rear Hydraulic End Gate: N/A  
 Semi Liquid Rear Pan: N/A  
 PTO Speed: 1000 RPM (1-3/8")  
 Swing Away Jack: Standard  
 Drive: N/A  
 Variable Speed Hydraulic Drive: N/A  
 Front Splash Panel: Standard  
 Hydraulic Cylinder on  
 Hydraulic Endgate: N/A  
 Warranty: 1st Year Parts and Labor

Code	Attachment Identifier	Description	List Price Suggested USD (\$)
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Select One Code From Each Required Category

**BASE MACHINE**

0812XF		MS2334 - 3400 Gallon Side Discharge Manure Spreader	56,528.00
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**AXLES**

1040		STANDARD AXLE	In Base Price
1043		HEAVY DUTY DROP STYLE TANDEM AXLE (MS2334)	3,297.00

**TIRES**

3072		425L X 22.5 USED TRUCK TIRE (MS2334) <i>CAN'T BE USED WITH OPTIONAL TANDEM AXLE.</i>	2,765.00
3073		21.5L X 16.1 - 18 PLY TIRE TITAN (MS2334) <i>CAN'T BE USED WITH OPTIONAL TANDEM AXLE.</i>	6,761.00
3074		49X 19X 20 RECAPPED 30 PLY AIRCRAFT TIRE (MS2334) <i>TIRE PACKAGE FOR OPTIONAL TANDEM AXLE ONLY</i>	7,645.00
3000		700/50 X 22.5 FLOTATION IMPLEMENT TIRE (MS2334) <i>TIRE PACKAGE FOR OPTIONAL TANDEM AXLE ONLY</i>	12,743.00

**POWER TAKE-OFF (PTO)**

5017		1000 RPM PTO 1 3/8" with Overrunning/Torque Limiting Clutch	In Base Price
5016		1000 RPM PTO 1 3/4" with Overrunning/Torque Limiting Clutch	No Added Cost

**HYDRAULICS**

8190		HYDRUALIC OPENING LID MS2334	13,247.00
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FRONTIER PRODUCTS

**MS2334 - 3400 Gallon Side Discharge Manure Spreader**

Continued

Code	Attachment Identifier	Description	List Price Suggested USD (\$)
<b>MONITOR</b>			
8191		DIGI-STAR 5-POINT SCALE <i>MONITOR SOLD SEPARATELY.</i>	5,432.00
8192		DIGI-STAR 5-POINT SCALE FOR TANDEM AXLE (MS2334 & MS2342) <i>SCALE FOR OPTIONAL TANDEM AXLE ONLY</i>	9,047.00
8193		DIGI-STAR GT400 MONITOR	1,039.00
8194		DIGI-STAR NT460 MONITOR/GPS	2,854.00
8195		DIGI-STAR AUTO START/STOP <i>COMPATIBLE WITH NT460 MONITOR ONLY.</i>	3,224.00
<b>OPERATOR'S MANUAL AND DECALS</b>			
903S		French Operators Manual and Decal Kit	No Charge
<b>ATTACHMENTS FOR FIELD CONVERSION</b>			
<b>Miscellaneous</b>			
	5HP2334FKMS	French Operators Manual and Decals (MS2334)	58.24



**FRONTIER PRODUCTS**

**MS2342 - 4200 Gallon Side Discharge Manure Spreader**  
Equipment for Base Machine

Minimum Tractor Weight: 34,352 lbs.	Rear Hydraulic End Gate: N/A
Top of Flare Width: 97 In.	Semi Liquid Rear Pan: N/A
Inside Width: 97 In.	PTO Speed: 1000 RPM (1-3/4")
Inside Length: 20 Ft. 0 In.	Swing Away Jack: Standard
Inside Depth: 65.5 In.	Drive: N/A
Overall Width with Standard Tires: 144 In.	Variable Speed Hydraulic Drive: N/A
Spindle Size: 4.50 In.	Front Splash Panel: Standard
Overall Length: 27 Ft. 7 In.	Hydraulic Cylinder on
Overall Loading Height	Hydraulic Endgate: N/A
- Top of Flare: 93 In.	Warranty: 1st Year Parts and Labor
Overall Height @ Front Splash: 101 In.	
Diameter of Expeller: 18.5 In.	
Upper Beater: N/A	
Weight with Tires: 16500 lbs.	
Capacity - Old Rating: N/A	
Capacity Cubic Foot Struck Level: 564	

Code	Attachment Identifier	Description	List Price Suggested USD (\$)
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Select One Code From Each Required Category

**BASE MACHINE**

0813XF		MS2342 - 4200 Gallon Side Discharge Manure Spreader <i>Includes 1000 1 3/4" RPM PTO with Overrunning/Torque Limiting Clutch</i>	67,400.00
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**AXLES**

1040		STANDARD AXLE	In Base Price
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**TIRES**

300U		28L X 26-16 PLY BIAS TIRES (MS2342)	14,092.00
300V		28L x 26-16 PLY RADIAL TIRES (MS2342)	20,466.00

**HYDRAULICS**

8190		HYDRUALIC OPENING LID <i>MS2342</i>	13,248.00
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**MONITOR**

8192		DIGI-STAR 5-POINT SCALE FOR TANDEM AXLE (MS2334 & MS2342) <i>SCALE FOR OPTIONAL TANDEM AXLE ONLY</i>	9,047.00
8193		DIGI-STAR GT400 MONITOR	1,039.00
8194		DIGI-STAR NT460 MONITOR/GPS	2,854.00
8195		DIGI-STAR AUTO START/STOP <i>COMPATIBLE WITH NT460 MONITOR ONLY.</i>	3,224.00

**OPERATOR'S MANUAL AND DECALS**

903S		French Operators Manual and Decal Kit	No Charge
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FRONTIER PRODUCTS

**MS2342 - 4200 Gallon Side Discharge Manure Spreader**

Continued

Code	Attachment Identifier	Description	List Price Suggested USD (\$)
<b>OPERATOR'S MANUAL AND DECALS ...Continued...</b>			
<b>ATTACHMENTS FOR FIELD CONVERSION</b>			
<b>Miscellaneous</b>			
5HP2342FKMS		French Operators Manual and Decals (MS2342)	58.24