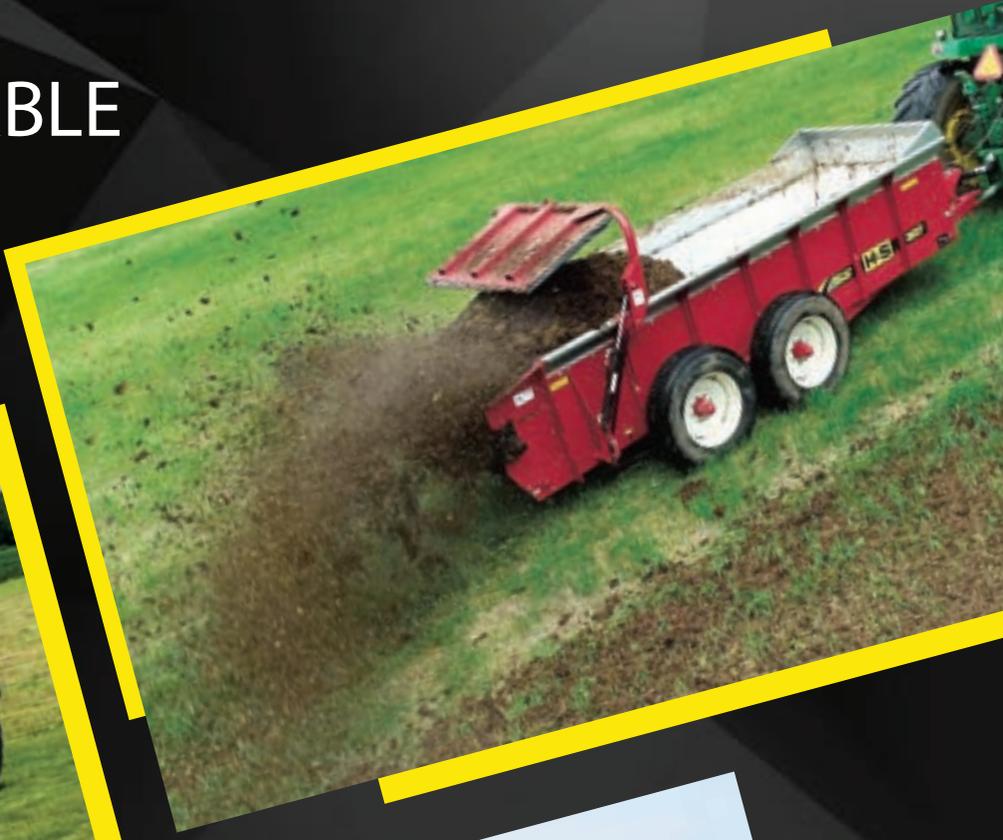


FAST | EFFICIENT | RELIABLE

MANURE SPREADERS



H&S

6 X 12 DEEP LUG TRACTION TIRES



Model S1225

7.60 X 15 DEEP LUG TRACTION TIRES



Model S1250



1. Apron engage/disengage lever
2. Beater engage/disengage lever
3. Main apron tightener bolts are located outside on the lower right & left corners of the main frame for adjustment.



To engage the beater and main apron on the **S1250** and **S1280**, lower the control lever.



The 20" diameter, 8-paddle beater on the **S1225** provides an even spread of material.



The **S1250** features an 8-paddle beater, and the **S1280** utilizes a 10-paddle, heavy-duty beater assembly.

GROUND DRIVE

7.60 X 15 DEEP LUG TRACTION TIRES



Model S1280



MAIN APRON

Shown with safety shields removed. The beater is chain driven. The main apron is driven by a simple adjustable ratchet drive mechanism.

The 1200 series models feature durable **powder-coated paint**. All spreaders utilize a **bonded poly floor** to reduce main apron drag and the power needed to move the load.

OPTIONS



REAR PAN

Optional rear pan is available on all 1200 series Ground Drive models.

MODEL	S1225 GROUND DRIVE	S1250 GROUND DRIVE	S1280 GROUND DRIVE
BUSHEL CAPACITY – HEAPED (OLD RATING)	25 BUSHEL	50 BUSHEL	80 BUSHEL
CAPACITY – CU FT STRUCK LEVEL PER ASAE S324.2	11.22	31.27	41.69
CAPACITY – CU FT HEAPED PER ASAE S324.2	14.27	48.67	71.04
TOP OF FLARE WIDTH	28 ½" (73 CM)	36" (91 CM)	48" (122 CM)
INSIDE WIDTH	22" (56 CM)	36" (91 CM)	48" (122 CM)
INSIDE LENGTH	6' (183 CM)	8' 1" (264 CM)	7' 1" (216 CM)
INSIDE DEPTH	17" (43 CM)	17 ½" (44 CM)	17 ½" (44 CM)
OVERALL LENGTH	9' 1" (277 CM)	13' 4" (406 CM)	13' 4" (406 CM)
OVERALL LOADING HEIGHT – TOP OF FLARE	30" (76 CM)	32 ½" (82 CM)	33" (84 CM)
OVERALL WIDTH W/STANDARD TIRES	42" (107 CM)	58" (147 CM)	72" (183 CM)
STANDARD TIRE SIZE	6.00 X 12	7.60 X 15	7.60 X 15
SPINDLE SIZE	1 ¼" (3 CM)	1 ¾" (4 CM)	2" (5 CM)
DIAMETER OF BEATER	20" (51 CM)	17 ½" (44 CM)	18 ½" (47 CM)
NUMBER OF PADDLES	8	8	10
MAIN APRON CHAIN	55	62	67H
BOX CONSTRUCTION	POWDER COATED STEEL	POWDER COATED STEEL	POWDER COATED STEEL
FLOOR CONSTRUCTION	POLY BONDED	POLY BONDED	POLY BONDED
APRON DRIVE	ADJUSTABLE RATCHET DRIVE	ADJUSTABLE RATCHET DRIVE	ADJUSTABLE RATCHET DRIVE
UPPER BEATER	N/A	N/A	N/A
SWING AWAY JACK	N/A	STANDARD	STANDARD
WEIGHT W/TIRES	350 LBS. (159 KG)	790 LBS. (358 KG)	975 LBS. (442 KG)
OPTIONS	FINE SPREAD PAN	FINE SPREAD PAN	FINE SPREAD PAN



Model S2280



Model S2213

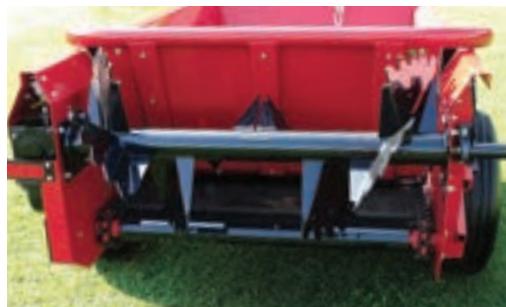
FEATURES

- The 2200 series models feature durable **powder-coated paint**. The heavy-duty steel A-frame and hitch assembly is built to withstand the stress of heavy loads and rough roads.
- The model S2217 uses an all-welded heavy-duty A-frame hitch assembly
- All spreaders utilize a poly bonded floor to reduce main apron drag and power needed to move the load.

LARGE DIAMETER BEATER

The large diameter beater on models S2213 and S2217 provides an even spread pattern.

A hydraulic endgate is optional on both models.



PTO MODEL SPEEDS

A patented, heavy-duty enclosed two-speed gearbox plus a beater shut-off allows you to choose your unload rate.



MAIN APRON TIGHTENER BOLTS

On all models, the main apron tightener bolts are located outside on the lower right and left corners of the main frame for adjustment.

PTO MODELS

SHOWN WITH OPTIONAL HYDRAULIC ENDGATE



Model S2217



2-SPEED APRON CONTROL

The front control panel for the 2-speed apron drive system allows you to see what operation you are in.

OPTIONS



REAR PAN

The heavy-duty beater assembly ensures aggressive shredding action with wide, even spread patterns.

OTHER OPTIONS

- Top beater (S2213 & S2217)
- 10,100 safety chain

MODEL	S2280 PTO DRIVE	S2213 PTO DRIVE	S2217 PTO DRIVE
BUSHEL CAPACITY – HEAPED (OLD RATING)	80 BUSHEL	130 BUSHEL	175 BUSHEL
CAPACITY – CU FT STRUCK LEVEL PER ASAE S324.2	45.11	67.61	91.63
CAPACITY – CU FT HEAPED PER ASAE S324.2	74.18	110.67	152.13
TOP OF FLARE WIDTH	48" (122 CM)	63 ½" (161 CM)	63 ½" (161 CM)
INSIDE WIDTH	48" (122 CM)	54" (137 CM)	54" (137 CM)
INSIDE LENGTH	7' 4" (223 CM)	7' 4" (223 CM)	11' 1" (338 CM)
INSIDE DEPTH	19 ¾" (50 CM)	25 ¾" (65 CM)	25 ¾" (65 CM)
OVERALL LENGTH	13' 10" (422 CM)	14' 7" (444 CM)	17' 8" (538 CM)
OVERALL LOADING HEIGHT – TOP OF SIDE	35" (89 CM)	47 ½" (121 CM)	45 ½" (116 CM)
OVERALL HEIGHT W/HYD. ENDGATE	N/A	51" (130 CM)	49" (125 CM)
OVERALL WIDTH W/STANDARD TIRES	76" (193 CM)	86" (218 CM)	83 ½" (212 CM)
STANDARD TIRE SIZE	6.70 X 15	IF240 80R15IMP	10R X 22.5
SPINDLE SIZE	2" (5 CM)	2" (5 CM)	2" (5 CM)
DIAMETER OF BEATER	18 ½" (47 CM)	27" (68 CM)	27" (68 CM)
NUMBER OF PADDLES	10	8	8
MAIN APRON CHAIN	67H	T-ROD	T-ROD
BOX CONSTRUCTION	POWDER COATED STEEL	POWDER COATED STEEL	POWDER COATED STEEL
FLOOR CONSTRUCTION	POLY BONDED	POLY BONDED	POLY BONDED
APRON DRIVE	GEARBOX, 2-SPEED PTO	GEARBOX, 2-SPEED PTO	GEARBOX, 2-SPEED PTO
UPPER BEATER	N/A	OPTIONAL	OPTIONAL
SWING-AWAY JACK	STANDARD	STANDARD	STANDARD
WEIGHT W/TIRES	1,140 LBS. (517 KG)	1,600 LBS. (726 KG)	2,030 LBS. (921 KG)

235 BUSHEL, STRUCK LEVEL 143 CU. FT.



Model S3123

270 BUSHEL, STRUCK LEVEL 167 CU. FT.



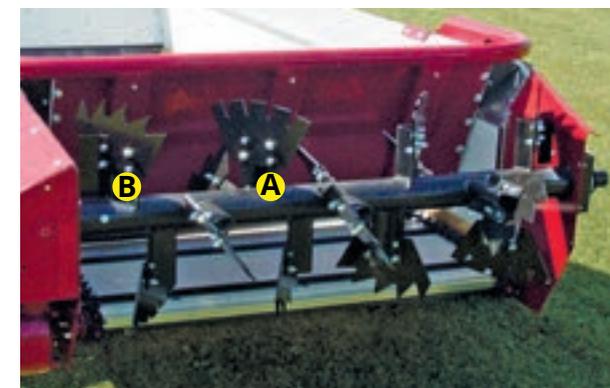
FEATURES

1. Front splash guard comes standard on all heavy-duty models.
2. Main apron shear bolt
3. Standard rear hydraulic endgate
4. The drive for the S3123 and S3127 spreaders utilize the patented enclosed H&S 2-speed gearbox. Shifting is all done in the enclosed two speed/beater shutoff gearbox.
5. Hydraulic cylinder mount tube extends all the way through the frame to the other side.
6. Heavy floor supports and side stakes wrap around steel front corners.
7. Strong rear main beater side panels are slanted for clearance and wider spread and then welded to the strong 5" C-channel side members.

COMPARE THE H&S FRAME WITH ANY ON THE MARKET FOR STRENGTH.



MASSIVE UNITIZED WELDED FRAME



29" DIAMETER BEATER

All models have a 29" diameter beater with 14 replaceable beater paddles. The beater has two types of paddles, blunt (A) for widespread and sharp ripper type (B) for cutting and shredding. The beater side wiper blades are also standard equipment.

UNLOADING SPEED	S3123/S3127
(2 SPEED GEARBOX)	PTO SPEED
HIGH SPEED	540 RPMS - 8' 9" PER MINUTE
LOW SPEED	540 RPMS - 4' 9" PER MINUTE

SERIES HEAVY-DUTY



Model S3127



STEEL ALLOY APRON IDLER SLIDES

H&S uses cast special steel alloy apron idler slides instead of idler sprockets, making for years of dependable service.

OPTIONS



TOP BEATER

Models S3123, S3127, S3231, and S3237 can be equipped with the optional top beater to provide load leveling and spreading of high heaped loads.

The top beater is **standard** equipment on the SW3243.



**16.5x16.1 TIRE/
WHEEL/SPINDLE/HUB**
Models S3123, S3127,
S3231, and S3237

MODEL	S3123	S3127	S3231	S3237	SW3243
BUSHEL CAPACITY – HEAPED (OLD RATING)	235 BUSHEL	270 BUSHEL	310 BUSHEL	370 BUSHEL	430 BUSHEL
CAPACITY – CU. FT. STRUCK LEVEL PER ASAE S324.2	122.04	146.35	164.58	215.68	260.59
CAPACITY – CU. FT. HEAPED PER ASAE S324.2	209.89	252.46	284.39	344.38	386.22
TOP OF FLARE WIDTH	68" (173 CM)	68" (173 CM)	68" (173 CM)	68" (173 CM)	68" (173 CM)
INSIDE WIDTH	60" (152 CM)	60" (152 CM)	60" (152 CM)	60" (152 CM)	60" (152 CM)
INSIDE LENGTH	11' 4" (3.45 M)	13' 4" (4.06 M)	14' 10" (4.52 M)	16' (4.88 M)	16' (4.88 M)
INSIDE DEPTH	28 3/8" (72 CM)	28 3/8" (72 CM)	28 3/8" (72 CM)	34 3/8" (87 CM)	40 3/8" (102 CM)
OVERALL WIDTH W/STANDARD TIRES	94 1/2" (240 CM)	94 1/2" (240 CM)	98" (249 CM)	98" (249 CM)	112" (285 CM)
OVERALL LENGTH	18' 6" (5.7 M)	20' 5 1/2" (6.3 M)	21' 11 1/2" (6.7 M)	23' 2 1/2" (7.1 M)	23' 2 1/2" (7.1 M)
SIDE LOADING HEIGHT	51 1/2" (131 CM)	51 1/2" (131 CM)	51 1/2" (131 CM)	57 1/2" (1.5 M)	63" (160 CM)
HEIGHT @ HYD. ENDGATE	55" (139.7 CM)	55" (139.7 CM)	55" (139.7 CM)	61" (154.9 CM)	63 1/2" (161.3 CM)
HEIGHT @ FRONT SPLASH	60" (152.4 CM)	60" (152.4 CM)	60" (152.4 CM)	65 1/2" (166.4 CM)	68 1/2" (174 CM)
DIAMETER OF BEATER	29" (74 CM)	29" (74 CM)	29" (74 CM)	29" (74 CM)	29" (74 CM)
MAIN APRON CHAIN	T-ROD	T-ROD	T-ROD	T-ROD	T-ROD
UPPER BEATER	OPTIONAL	OPTIONAL	OPTIONAL	OPTIONAL	STANDARD
SPINDLE SIZE	2" (5 CM)	2 1/2" (6 CM)	2 1/4" (6 CM)	2 1/2" (6 CM)	2 1/2" (6 CM)
STANDARD TIRE SIZE	295 x 22.5 RECAP	295 x 22.5 RECAP	295 x 22.5 RECAP	295 x 22.5 RECAP	16.5 x 16.1 FLOTATION
OPTIONAL TIRE SIZE	16.5 x 16.1 FLOTATION	16.5 x 16.1 FLOTATION	16.5 x 16.1 FLOTATION	16.5 x 16.1 FLOTATION	N/A
WEIGHT W/TIRES	2,890 LBS. (1,311 KG)	3,230 LBS. (1,495 KG)	4,190 LBS. (1,901 KG)	4,920 LBS. (2,232 KG)	5,500 LBS. (2,495 KG)
REAR HYDRAULIC ENDGATE	STANDARD	STANDARD	STANDARD	STANDARD	STANDARD
SEMI-LIQUID REAR PAN	OPTIONAL	OPTIONAL	OPTIONAL	OPTIONAL	OPTIONAL
PTO SPEED	540	540	540 STANDARD 1000 OPTIONAL	540 STANDARD 1000 OPTIONAL	540 STANDARD 1000 OPTIONAL
JACK DRIVE	STANDARD 2-SPEED	STANDARD 2-SPEED	STANDARD 2-SPEED	STANDARD 2-SPEED	STANDARD 2-SPEED
VARIABLE SPEED HYDRAULIC DRIVE	N/A	N/A	OPTIONAL	OPTIONAL	OPTIONAL
ELECTRIC CONTROLS FOR HYDRAULIC DRIVE	N/A	N/A	OPTIONAL	OPTIONAL	OPTIONAL
FRONT SPLASH PANEL	STANDARD	STANDARD	STANDARD	STANDARD	STANDARD
NUMBER OF HYDRAULIC ENDGATE CYLINDERS	1- STANDARD 2 - OPTIONAL	1- STANDARD 2 - OPTIONAL	1- STANDARD 2 - OPTIONAL	2	2

310 BUSHEL, STRUCK LEVEL 185 CU FT

Shown with optional upper beater

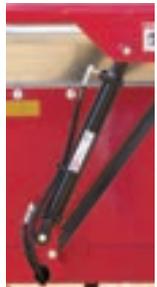


Model S3231



3200 SERIES: GEARBOX AND 2-SPEED DRIVE

Gearbox mechanisms and 2-speed drive for the beater and apron are tapered roller bearing equipped. The beater drive gearbox is a heavy-duty 1.5:1 bevel gear oil bath equipped with a 4-jaw overrunning clutch for beater shut-off. The apron drive is a 50:1 bronze worm gear with shear bolt protection. *Shown with shield removed.*



HYDRAULIC ENDGATE

A semi-liquid hydraulic endgate is standard equipment on all models. A second hydraulic endgate cylinder is standard on the S3237 and SW3243.

An **optional second hydraulic endgate cylinder** is available for the S3123, S3127 and S3231. The hydraulic lines are run through a 3x3 tube under the floor. The upright position of the hydraulic cylinder stroke allows the gate to lift with the least strain at pivot points.

370 BUSHEL, STRUCK LEVEL 235 CU. FT.



Model S3237



2-SPEED APRON DRIVE CONTROL

UNLOADING SPEED (2-SPEED CHAIN DRIVE)	S3231-SW3243 PTO SPEED
HIGH SPEED	540 RPMs – 8' 8 1/2" PER MINUTE
LOW SPEED	540 RPMs – 4' 8 1/2" PER MINUTE

SERIES HEAVY-DUTY

EASY CLEAN-UP & MINIMAL FREEZE-UP

Sides, front panel, and both sides of the rear hydraulic endgate on the 3100 & 3200 series use fiberglass reinforced plywood to provide for easy cleaning and minimal freeze-up.



All heavy-duty models feature a solid virgin grade poly floor. Considerably less torque is needed to move a heavy load.

OPTIONS



Manual variable speed hydraulic drive available on S3231-SW3243 models

OTHER OPTIONS

- Rear pan for all heavy-duty models
- Highway lighting kit
- 16,100 safety chain (3100 series)
- 30,000 safety chain (3200 series)
- Electric controls for hydraulic drive (3200 series)

430 BUSHEL, STRUCK LEVEL 275 CU FT



Model SW3243

SW3243 FEATURES

The SW3243 (western) has additional features to other heavy-duty models, such as:

- Double pole channels
- #80 drive chain
- Additional floor supports





Model HPH4242

FEATURES

1. Choice of bullnose or clevis hitch
2. Poly bump rails
3. Constant velocity PTO
4. LED highway lighting
5. Upper beater is standard on horizontal beater models.
6. Easy open shields makes lubing of bearings easy.
7. The H&S hydra-push-off system on all models feature two hydraulic cylinders that sequence to reduce push-off forces and fast unloading of material.
8. Heavy-duty rectangular tubing is used for the pole to ensure strength and long life.
9. The hydraulic endgate has 2 cylinders with 3/8" tube for faster operation in cold weather.

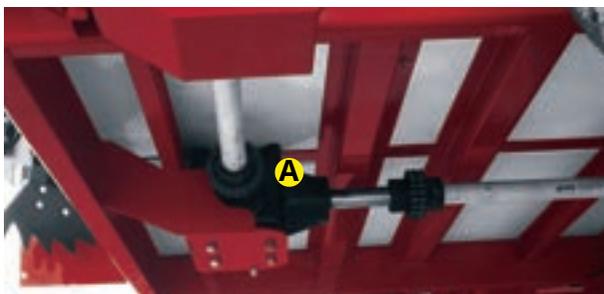
BEATER BLADES ARE REPLACEABLE



BEATER REMOVAL

The beater assembly can easily be removed from the manure spreader by disconnecting the drive chain, removing the attaching bolts and lifting the beater assembly out of the guide pin holes if it is not needed.

HORIZONTAL BEATER



CENTER DRIVE SYSTEM

A straight shaft off the PTO connects to an angle gearbox (A) in the rear and over to the beater drive sprocket (B), and then to the beater assembly. All **HYDRA-PUSH** manure spreaders feature structural channel floor supports spaced 9 1/2" apart for maximum floor support.



LESS FRICTION

All **HYDRA-PUSH** horizontal beater models use solid virgin grade poly with UV inhibitor for the floor and sides, reducing friction with no freeze-up.



Shown with shield removed.

OPTIONS

- Rear pan
- Manual or electric adjust hydraulic variable speed pusher control
- 40,000# safety chain
- Light covers

MODEL	HPH4242	HPH4255
BUSHEL CAPACITY – HEAPED (OLD RATING)	425 BUSHEL	550 BUSHEL
CAPACITY – CU. FT. STRUCK LEVEL PER ASAE S324.2	246.53	383.39
CAPACITY – CU. FT. HEAPED PER ASAE S324.2	374.41	511.27
SIDE LOADING HEIGHT	61 1/4" (61.3 CM)	81" (205.7 CM)
2ND BEATER HEIGHT	74 3/4" (190 CM)	86 3/4" (220 CM)
HEIGHT @ TOP OF HYDRAULIC ENDGATE (W/O HOOK)	65" (165 CM)	85 1/2" (218 CM)
HEIGHT @ TOP OF PUSHER	76" (193 CM)	95" (241 CM)
INSIDE WIDTH	72" (183 CM)	72" (183 CM)
INSIDE LENGTH	15' (4.6 M)	15' (4.6 M)
INSIDE DEPTH	34" (86 CM)	53" (135 CM)
OVERALL WIDTH W/TIRES	10' 2" (310 CM)	10' 2" (310 CM)
OVERALL LENGTH	28' (8.5 M)	28' (8.5 M)
STANDARD NUMBER OF BEATERS	2	2
HORIZONTAL BEATER DIAMETER/LOWER	29" (71 CM)	29" (71 CM)
HORIZONTAL BEATER DIAMETER/UPPER	20" (51 CM)	29" (71 CM)
REPLACEABLE BEATER PADDLES	YES	YES
REMOVABLE BEATER ASSEMBLY	YES	YES
HYDRAULIC PUSH CYLINDER DIAMETER	3 1/2"	4 1/2"
HUB	8 BOLT	10 BOLT
HITCH CHOICES	CLEVIS OR BULLNOSE	CLEVIS OR BULLNOSE
TIRE CHOICES	425 X 22.5, 19L X 16.1 10 PLY, OR 550/45 X 22.5	425 X 22.5 USED TRUCK TIRES, OR HEAVY DUTY TANDEM AXLE W/600/50 X 22.5
HYDRAULIC ENDGATE	STANDARD	STANDARD
POLY SIDE RAILS	STANDARD	STANDARD
WEIGHT W/TIRES	7,000#	8,500#
PTO CHOICES:		
1 3/8" 1000 RPM PTO W/OVERRUNNING CLUTCH	YES	YES
1 3/4" 1000 RPM PTO W/OVERRUNNING CLUTCH	YES	YES



Model HPV4255

FEATURES

1. Choice of bullnose or clevis hitch
2. Poly bump rails
3. Constant velocity PTO
4. LED highway lighting
5. The H&S hydra-push-off system on all models feature two hydraulic cylinders that sequence to reduce push-off forces and fast unloading of material.
6. Heavy-duty rectangular tubing is used for the pole to ensure strength and long life.
7. The hydraulic endgate has 2 cylinders with 3/8" tube for faster operation in cold weather.

MONOBLOC GEARBOX

The vertical beater bottom drive monobloc gearbox features a PTO assembly with a torque limiting and overrunning clutch that provides protection to the driveline.

PATENTED VERTICAL BEATER REVERSE FLIGHTING

The top 21" of flighting on the vertical beaters is reversed to provide an even spread pattern. Unlike conventional vertical beater manure spreaders that will have a lighter area of material in the center, the **PATENTED** reverse flighting spreads material into the center of the spread pattern thus creating a even, uniform spread pattern.



BEATER REMOVAL

The beater assembly can easily be removed from the manure spreader by disconnecting it from the beater assembly and removing the PTO from under the rear of the manure spreader.

Remove the beater to frame attaching bolts, hook a chain to the eyes on the top of the beater assembly and lift the beater assembly out of the guide pin holes.

VERTICAL BEATER



LESS FRICTION

All **HYDRA-PUSH** vertical beater models use solid virgin grade poly with UV inhibitor for the floor and sides, reducing friction with no freeze-up.

OPTIONS

- Fit-around screen extension for vertical beater models (A)
- Manual adjust hydraulic variable speed pusher control
- Electric adjust hydraulic variable speed pusher control
- Light covers
- 40,000# safety chain
- Light covers



CENTER DRIVE SYSTEM

A torque limiting PTO connects the center drive shaft to the vertical beater assembly (B). All **HYDRA-PUSH** manure spreaders feature structural channel floor supports spaced 9 1/2" apart for maximum floor support.

MODEL	HPV4242	HPV4255
BUSHEL CAPACITY – HEAPED (OLD RATING)	425 BUSHEL	550 BUSHEL
CAPACITY – CU FT STRUCK LEVEL PER ASAE S324.2	246.53	383.39
CAPACITY – CU FT HEAPED PER ASAE S324.2	374.41	511.27
SIDE LOADING HEIGHT	61 1/4" (61.3 CM)	81" (205.7 CM)
VERTICAL BEATER HEIGHT	104 1/2" (265 CM)	121 1/2" (308 CM)
HEIGHT-TOP OF HYDRAULIC ENDGATE (W/O HOOK)	65" (165 CM)	85 1/2" (218 CM)
HEIGHT-TOP OF SCREEN	98" (249CM)	117" (297 CM)
INSIDE WIDTH	72" (183 CM)	72" (183 CM)
INSIDE LENGTH	15' (4.6 M)	15' (4.6 M)
INSIDE DEPTH	34" (86 CM)	53" (135 CM)
OVERALL WIDTH W/TIRES	10' 2" (310 CM)	10' 2" (310 CM)
OVERALL LENGTH	29' 1" (8.9 M)	29' 1" (8.9 M)
STANDARD NUMBER OF BEATERS	2	2
VERTICAL BEATER DIAMETER	34" (86 CM)	34" (86 CM)
REPLACEABLE BEATER PADDLES	YES	YES
REMOVABLE BEATER ASSEMBLY	YES	YES
HYDRAULIC PUSH CYLINDER DIAMETER	3 1/2"	4 1/2"
HUB	8 BOLT	10 BOLT
SPINDLE SIZE	3"	3"
HITCH CHOICES	CLEVIS OR BULLNOSE	CLEVIS OR BULLNOSE
TIRE SIZE – STANDARD	425 X 22.5, 19L X 16.1 10 PLY, OR 550/45 X 22.5	425 X 22.5 USED TRUCK TIRES, OR HEAVY-DUTY TANDEM AXLE W/600/50 X 22.5
HYDRAULIC ENDGATE	STANDARD	STANDARD
CYLINDERS ON HYDRAULIC ENDGATE	2 W-3/8" HOSE	2 W-3/8" HOSE
JACK	STANDARD	STANDARD
POLY SIDE RAILS	STANDARD	STANDARD
WEIGHT W/TIRES	8,800#	11,000#
PTO CHOICES:		
1 3/8" 1000 RPM PTO W/OVERRUNNING CLUTCH	YES	YES
1 3/4" 1000 RPM PTO W/OVERRUNNING CLUTCH	YES	YES

1,286 GALLONS



Adjustable Hitch

Model TS5215



POLY-LINED FINE SPREAD PAN

The TS5215 features a 3-section 30" expeller with a quick release poly-lined fine spread pan.



SPROCKET REDUCTION SYSTEM

The TS5215, TS5220, and TS5226 drive system features a sprocket reduction system with heavy-duty chain and an overrunning torque limiting clutch for protection and smooth power transfer.



SET DISCHARGE DISTANCE

A manual adjust top shield allows you to set the distance of material being discharged.

TS5215 OPTIONS

- Standard or drop tandem axles are available.
- A tandem axle is available with your choice of 295R x 22.5 recap tires or 16.5 x 16.1 flotation tires.
- Rear splash guard and side rails are available for 1,500 gallon capacity.
- An automatic oiler system oils the drive system chains anytime the discharge door is raised.



TS5215 TIRE SPECIFICATIONS

TIRES	w/19L x 16.1
SIDE LOADING HEIGHT	65.75"
HEIGHT @ REAR CYLINDER BRACKET	66.75"
HEIGHT @ FRONT SPLASH	79"
OVERALL WIDTH	88.5"

TS5220 TIRE SPECIFICATIONS

TIRES	SIDE LOADING HEIGHT	HEIGHT @ REAR SPLASH	HEIGHT @ FRONT SPLASH	OVERALL WIDTH
DROP AXLE w/295 X 22.5	69"	70"	76"	85"
DROP AXLE w/16.1 X 16.5	68.5"	69.5"	75.5"	91"
STD AXLE w/295 X 22.5	72.5"	73.5"	79.5"	85"
STD AXLE w/16.1 X 16.5 TIRES	72"	73"	79"	91"
HIGH AXLE w/295 X 22.5	74.5"	75.5"	81.5"	85"
HIGH AXLE w/16.1 X 16.5 TIRES	74"	75"	81"	91"

SIDE DISCHARGE



AUGER CYLINDER SYSTEM

A master/slave cylinder system raises and lowers the main auger evenly to keep material moving to the expeller.

The highway lighting system connects to the 7-pin tractor plug for those traveling on the highway.

Optional on the TS5215.



MODEL	TS5215	TS5220	TS5226	TS5234	TS5242
CU FT STRUCK LEVEL	172	268.6	347	451	564
GALLON CAPACITY	1,286 / 1,500 WITH EXTENSION	2,009	2,596	3,377	4,200
TANK LENGTH	14' (4.27 M)	16' (4.88 M)	16' (4.88 M)	16' (4.88 M)	20' (6.10 M)
OVERALL LENGTH	20' 10" (6.35 M)	22' 8" (6.91 M)	22' 8" (6.91 M)	23' 7" (7.19 M)	27' 7" (8.41 M)
TANK WIDTH – TOP	70" (177.8 CM)	76" (193 CM)	87" (221 CM)	97" (246.4 CM)	97" (246.4 CM)
AUGER DIAMETER	24" (61 CM)	24" (61 CM)	24" (61 CM)	30" (76.2 CM)	30" (76.2 CM)
POLY LINED TANK	LEFT SIDE	LEFT SIDE	LEFT SIDE	LEFT SIDE	LEFT SIDE
PTO OVERRUNNING CLUTCH	STANDARD	STANDARD	STANDARD	STANDARD	STANDARD
DRIVELINE PROTECTION	TORQUE LIMITING CLUTCH & SHEARBOLTS	TORQUE LIMITING CLUTCH & SHEARBOLTS	TORQUE LIMITING CLUTCH & SHEARBOLTS	OVERRUNNING TORQUE LIMITING CLUTCH	OVERRUNNING TORQUE LIMITING CLUTCH
PTO CHOICES	540 RPM STD. 1000 RPM OPT.	540 RPM STD. 1000 RPM OPT.	1000 RPM STD. 540 RPM OPT.	1 3/8" OR 1 3/4" 1000 RPM	1 3/8" OR 1 3/4" 1000 RPM
EXPELLER WIDTH	30" (76.2 CM)	40" (101.6 CM)	40" (101.6 CM)	40" (101.6 CM)	40" (101.6 CM)
FRONT SPLASH GUARDS	STANDARD	STANDARD	STANDARD	STANDARD	STANDARD
REAR SPLASH GUARDS	OPTIONAL	STANDARD	STANDARD	STANDARD	STANDARD
AUTOMATIC OILER	OPTIONAL	STANDARD	STANDARD	STANDARD	STANDARD
HIGHWAY LIGHTING	OPTIONAL	STANDARD	STANDARD	STANDARD	STANDARD
WEIGHT	5,740#	6,860#	7,880#	10,940#	16,500#

2,600 GALLONS



Model TS5226



AUGER SYSTEM

The auger system hydraulically raises and lowers a full 8" to break-up material that may bridge during unloading.

- The left side poly liner allows material to slide to the auger.
- The TS5215, TS5220 & TS5226 feature a 24" diameter round core segmented auger.
- The TS5234 & TS5242 have a larger 30" diameter round core segmented auger.

FEATURES

TS5220, TS5226, TS5234, TS5242

1. 40" wide **TOP SHOT** expeller beater
2. Adjustable hitch
3. Scraper holder
4. Left side poly lined tank
5. Highway lighting system
6. Automatic chain oiler system
7. Remote grease system
8. Jack storage on left side of manure spreader



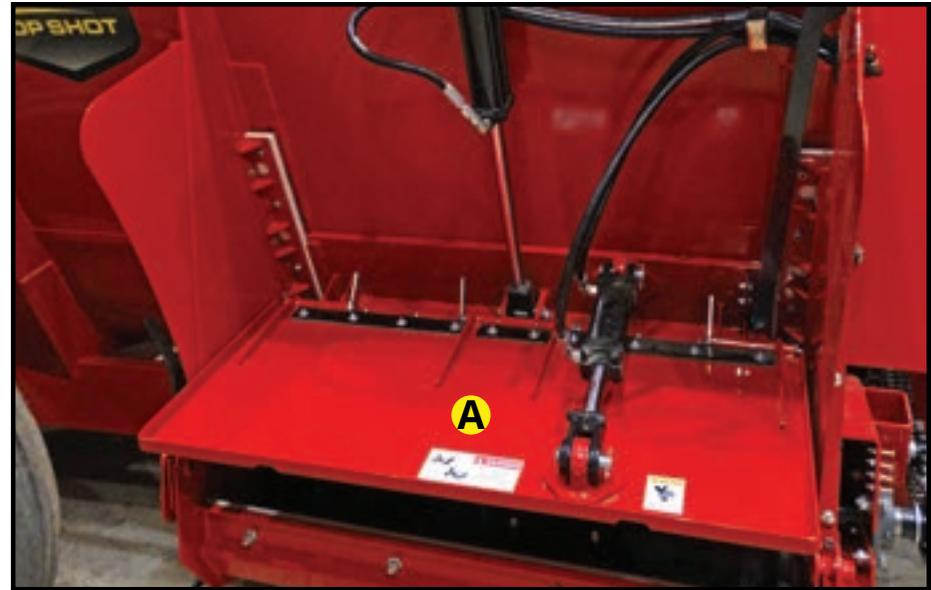
OPTIONS

An extra heavy tandem axle is available for heavier weights of material (TS5226 & TS5234).

Hydraulic deflector (A) for the TS5220 & TS5226

Electric valve for use with hydraulic deflector to be able to run on tractors with only 2 SCVs (TS5220/TS5226). Also available on TS5234/TS5242 where hydraulic deflector is standard.

All models except the TS5215 are available with the optional Digi-Star™ GT400 or Nutrient Tracker Scale System with GPS.



TS5226 TIRE SPECIFICATIONS

TIRES	SIDE LOADING HEIGHT	HEIGHT @ REAR SPLASH	HEIGHT @ FRONT SPLASH	OVERALL WIDTH
w/16.1 x 16.5	81"	82"	88"	103"
w/425 x 22.5	83"	84"	90"	102"
w/19L x 16.1	84"	85"	91"	105"
w/480/55R x 22.5	86"	87"	93"	108"



HEAVY-DUTY EXPELLER SYSTEM



The heavy-duty expeller system, with a quick release poly-lined fine spread pan and side fins, helps cut the drift of material towards the tractor and spreader and provides an excellent spread pattern.

3,400 GALLONS



Model TS5234



HEAVY-DUTY GEARBOX REDUCTION

The TS5234 and TS5242 drive system features a heavy-duty gearbox reduction with an overrunning torque limiting clutch for protection and smooth power transfer.

MODEL	TS5215	TS5220	TS5226	TS5234	TS5242
CU FT STRUCK LEVEL	172	268.6	347	451	564
GALLON CAPACITY	1,286 / 1,500 WITH EXTENSION	2,009	2,596	3,377	4,200
TANK LENGTH	14' (4.27 M)	16' (4.88 M)	16' (4.88 M)	16' (4.88 M)	20' (6.10 M)
OVERALL LENGTH	20' 10" (6.35 M)	22' 8" (6.91 M)	22' 8" (6.91 M)	23' 7" (7.19 M)	27' 7" (8.41 M)
TANK WIDTH - TOP	70" (177.8 CM)	76" (193 CM)	87" (221 CM)	97" (246.4 CM)	97" (246.4 CM)
AUGER DIAMETER	24" (61 CM)	24" (61 CM)	24" (61 CM)	30" (76.2 CM)	30" (76.2 CM)
POLY LINED TANK	LEFT SIDE	LEFT SIDE	LEFT SIDE	LEFT SIDE	LEFT SIDE
PTO OVERRUNNING CLUTCH	STANDARD	STANDARD	STANDARD	STANDARD	STANDARD
DRIVELINE PROTECTION	TORQUE LIMITING CLUTCH & SHEARBOLTS	TORQUE LIMITING CLUTCH & SHEARBOLTS	TORQUE LIMITING CLUTCH & SHEARBOLTS	OVERRUNNING TORQUE LIMITING CLUTCH	OVERRUNNING TORQUE LIMITING CLUTCH
PTO CHOICES	540 RPM STD. 1000 RPM OPT.	540 RPM STD. 1000 RPM OPT.	1000 RPM STD. 540 RPM OPT.	1 3/8" OR 1 3/4" 1000 RPM	1 3/8" OR 1 3/4" 1000 RPM
EXPELLER WIDTH	30" (76.2 CM)	40" (101.6 CM)	40" (101.6 CM)	40" (101.6 CM)	40" (101.6 CM)
FRONT SPLASH GUARDS	STANDARD	YES	YES	YES	YES
REAR SPLASH GUARDS	OPTIONAL	YES	YES	YES	YES
AUTOMATIC OILER	OPTIONAL	STANDARD	STANDARD	STANDARD	STANDARD
HIGHWAY LIGHTING	OPTIONAL	STANDARD	STANDARD	STANDARD	STANDARD
WEIGHT	5,740#	6,860#	7,880#	10,940#	16,500#

TS5234 TIRE SPECIFICATIONS

TIRES	SIDE LOADING HEIGHT	HEIGHT @ REAR SPLASH	HEIGHT @ FRONT SPLASH	OVERALL WIDTH
w/425 x 22.5	93"	101"	101"	112"
w/480/55R x 22.5	95"	103"	103"	114"
w/445 x 22.5	93"	101"	101"	113"
w/ 700/50 x 22.5	94"	102"	102"	126"

TS5242 TIRE SPECIFICATIONS

TIRES	28L X 26 16 PLY BIAS OR RADIAL
SIDE LOADING HEIGHT	93"
HEIGHT @ REAR SPLASH	101"
HEIGHT @ FRONT SPLASH	101"
OVERALL WIDTH	12"

SIDE DISCHARGE

4,200 GALLONS



HYDRAULIC FEATURES (TS5234 & TS5242)

The standard hydraulic adjust top expeller deflector sets the distance of the spread pattern, while the hydraulic door cylinder allows adjustment for rate of application.

REVERSIBLE SQUARE TOOTH PADDLES

Reversible bolt-on square tooth paddles shred and rip material with a **TOP SHOT** action for an even spread pattern.



AUTOMATIC OILER SYSTEM

An automatic oiler system oils the drive system chains anytime the discharge door is raised.



Model TS5242

TRUCK MOUNTS AVAILABLE FOR TS5234 & TS5242

TS5234 & TS5242 OPTIONS



HYDRAULIC LID, REMOTE and SCALE

A hydraulic lid can be installed to open and latch from either side. A 3rd tractor remote is required to operate the opening and closing of the lid.

This remote is also used in conjunction with an electrical toggle switch to activate the switching of the hydraulic valve that operates the hydraulic cylinder to lock and unlock the lid.

Heavy tandem axles (TS5234).

Brake kit



FEATURES

1. Poly side load bump rails
2. LED highway lighting
3. 5/8" grade 80 main apron log chain featuring a limited lifetime warranty
4. Greasable hubs
5. 1-1/2" x 2-1/2" x 1/4" tubular apron slats
6. Single bolt easy adjust main apron chain
7. Dual hydraulic cylinder guillotine/metering style endgate



CENTER DRIVE SYSTEM & MONOBLOC GEARBOX

A center driveshaft provides power to a **MONOBLOC GEARBOX** (A). A torque limiting PTO assembly and overrunning clutch provides protection to the driveline system.



CHAIN & APRON

The PS6138 features 5/8" Grade 80 main apron log-chain with 1-1/2" x 2-1/2" x 1/4" heavy apron chain slats. *Shield open for viewing.*



APRON ADJUSTMENT

The main apron tightener bolts are located outside on the lower right and left corners of the main frame for easy adjustment (6).



AXLE ADJUSTMENTS

There are multiple axle position settings (B) that can be adjusted to optimize balance of the manure spreader.



APRON DRIVE GEARBOX

The PS6138 features a heavy-duty, hydraulically driven apron gearbox.

MODEL	PS6138
CAPACITY – HEAPED BUSHEL PER S324.2	300
CAPACITY – CU FT STRUCK LEVEL- ASAE S324.2	237
CAPACITY – CU FT HEAPED PER ASAE S324.2	373.34
SIDE LOADING HEIGHT	67" (170.2CM)
VERTICAL BEATER HEIGHT	98" (248.9CM)
HEIGHT – TOP OF ENDGATE	98.38" (249.9CM)
INSIDE WIDTH	73" (185.4CM)
INSIDE WIDTH – TOP OF FLARE	95" (241.3CM)
HEIGHT - TOP OF STONE GUARD	76 1/2"
INSIDE LENGTH - FRONT PANEL TO ENDGATE	177" (4.5M)
INSIDE DEPTH	30" (76.2CM)
OVERALL WIDTH W/425 TIRES	121" (307.3CM)
OVERALL LENGTH	297" (7.5M)
STANDARD NUMBER OF BEATERS	2
VERTICAL BEATER DIAMETER	34" (86.4CM)
REPLACEABLE BEATER PADDLES	YES
REMOVABLE BEATER ASSEMBLY	YES
SPREAD PATTERN – APPROXIMATE	25' – 30' DEPENDENT ON THE WEIGHT OF MATERIAL
MINIMUM UNLOAD TIME	1 MIN
APRON CHAIN SIZE	5/8" GRADE 80
HITCH WEIGHT – EMPTY	365 lbs. (Adjustable)
HUBS	8,000 LB.
SPINDLE SIZE	3" (7.6CM)
TIRE SIZE – STANDARD	425 x 22.5, 19L x 16.1, 550/45 x 22.5
MINIMUM HYDRAULIC REQUIREMENTS	2,700 PSI / 15 GPM
ENDGATE	HYDRAULIC GUILLOTINE/METERING STYLE
CYLINDERS ON HYDRAULIC ENDGATE	2
JACK	CRANK
POLY BUMP RAILS	STANDARD
1000 RPM CV PTO	1-3/8", 1-3/4"
WEIGHT W/TIRES	9,400#
H.P. REQUIREMENTS	90 H.P. WEIGHTED PROPERLY ACCORDING TO THE H&S OPERATOR'S MANUAL



NEW LIVE-BOTTOM, VERTICAL BEATER *POWERSPREAD* MODEL FROM H&S!



HEAVY HYDRAULIC HOSE COUPLERS & PTO SHAFT

The heavy-duty constant velocity PTO provides driveline protection and allows for a tighter turning radius. Color coded heavy-duty hydraulic hose couplers allow you to correctly hook to the proper tractor remotes.



CHOICE OF CLEVIS OR BULLNOSE HITCH

PATENTED VERTICAL BEATER REVERSE FLIGHTING

The vertical beater flighting uses 1/2" material. The top 20+" of flighting of the vertical beaters is reversed to provide an even spread pattern. Unlike conventional vertical beater manure spreaders that will have a lighter area of material in the center, the **PATENTED** reverse flighting spreads material into the center of the spread pattern, thus creating an even, uniform spread pattern.



EASY BEATER REMOVAL

The beater assembly can easily be removed from the manure spreader by disconnecting and removing the PTO from underneath the rear of the manure spreader, and removing the frame attaching bolts. Attach hook a chain to the lifting eyes (A) on the top of the beater assembly and lift the beater assembly out of the guide pin holes.

DUAL HYDRAULIC CYLINDER GUILLOTINE/METERING STYLE ENDGATE

The guillotine endgate is able to be adjusted to any position to meter the amount of material that is able to be moved to the beaters by the variable speed apron chain. This combination provides a consistent flow of material, whether it's pen pack or semi-solids.

OPTIONS



FIT-AROUND SCREEN EXTENSION



MAIN APRON REVERSER VALVE PACKAGE

Reverse the load away from the beater assembly if a foreign object should come in contact with the beaters.



HYDRAULIC ACTUATED LIGHT COVERS

Light covers close when the guillotine/metering-style endgate is raised for spreading. Keeps lights clean for road travel.



ELECTRIC ADJUST / MANUAL HYDRAULIC VARIABLE SPEED APRON CONTROL

Allows for infinite number of unload speeds



RUBBER SPRING SUSPENSION

Helps cushion your load while traveling through the field for a smoother ride in the tractor while also preventing unnecessary wear on the hitch and pole.



CHAIN & APRON

The PS6180 features large 3/4" Grade 80 main apron log-chain with 2" x 4" x 1/4" heavy apron chain slats, versus some of the competitors that offer the lighter 5/8" chain. The main apron tightener bolts (D) are located outside on the lower right and left corners of the main frame for easy adjustment.

Shield open for viewing.



SUSPENSION TONGUE

The suspension tongue provides operator comfort and reduces mechanical stress and fatigue of both the spreader and the tractor.

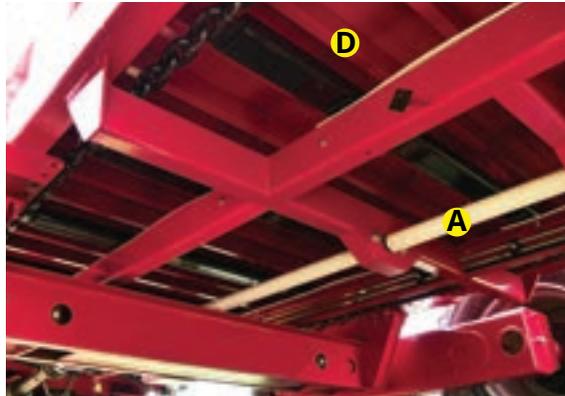


AXLE ADJUSTMENTS

There are multiple axle position settings (E) that can be adjusted to optimize balance of the manure spreader.

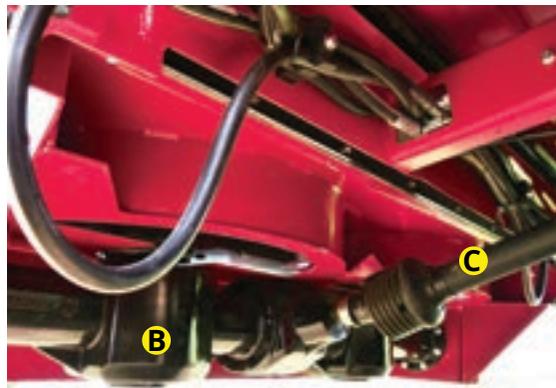
FEATURES

1. Choice of class 4, 5 bullnose or swivel clevis hitch
2. Poly bump rails
3. 1-3/4" Constant velocity PTO
4. LED highway lighting
5. Standard rubber tongue suspension
6. Heavy-duty rectangular tubing is used for the pole to ensure strength and long life.
7. The hydraulic guillotine gate allows for metering to ensure optimal application rates.
8. 700/50 x 26.5 tires



FLOOR SUPPORTS

This model features large structural channel floor supports spaced for maximum floor support (D).



CENTER DRIVE SYSTEM & MONOBLOC GEARBOX

A center driveshaft (A) provides power to a **MONOBLOC GEARBOX** (B) rated for 400 HP, the heaviest gearbox in the industry. A torque limiting and overrunning clutch PTO assembly (C) provides protection to the driveline system.

MODEL	PS6180
CAPACITY – HEAPED BUSHEL PER OLD RATING	764
CAPACITY – HEAPED BUSHEL PER S324.2	638
CAPACITY – CU FT STRUCK LEVEL- ASAE S324.2	578
CAPACITY – CU FT HEAPED PER ASAE S324.2	793
SIDE LOADING HEIGHT	94.75" (240.7 CM)
VERTICAL BEATER HEIGHT	132" (335.3 CM)
HEIGHT – TOP OF ENDGATE	127" (322.6 CM)
HEIGHT – TOP OF FRONT SCREEN	132" (335.3 CM)
INSIDE WIDTH	78.75" (200 CM)
INSIDE WIDTH – TOP OF FLARE	96" (243.8 CM)
INSIDE LENGTH – FRONT PANEL TO ENDGATE	235.50" (3.44 M)
INSIDE DEPTH	52.50" (133.4 CM)
OVERALL WIDTH W/TIRES	169" (429.3 CM)
OVERALL LENGTH	393" (9.98 M)
STANDARD NUMBER OF BEATERS	2
VERTICAL BEATER DIAMETER	39" (99 CM)
REPLACEABLE BEATER PADDLES	YES
REMOVABLE BEATER ASSEMBLY	YES
SPREAD PATTERN – APPROXIMATE	25' – 30' DEPENDENT ON THE WEIGHT OF MATERIAL
UNLOAD TIME – APPROXIMATE	2 ½ MINUTES DEPENDENT ON THE TRACTOR HYDRAULIC FLOW & PRESSURE
APRON CHAIN SIZE	3/4" GRADE 80
HITCH WEIGHT – EMPTY	570 LBS. (ADJUSTABLE)
HUBS	25,000 LB. RATING EACH
SPINDLE SIZE	4.5" (11.43 CM)
TIRE SIZE – STANDARD	700/50-26.5
HYDRAULIC REQUIREMENTS	3000 PSI AND 30 GPM
ENDGATE	HYDRAULIC GUILLOTINE/METERING STYLE
CYLINDERS ON HYDRAULIC ENDGATE	2
JACK	CHOICE OF CRANK OR HYDRAULIC
POLY SIDE RAILS	STANDARD
WEIGHT W/TIRES	21,768#
H.P. REQUIREMENTS	200 - 250 H.P. WEIGHTED PROPERLY ACCORDING TO THE H&S OPERATOR'S MANUAL
SAFETY CHAIN	STANDARD - 60,000 LB.



PATENTED VERTICAL BEATER REVERSE FLIGHTING

Heavy 3/4" material is used for the flighting on the PS6180. The top 20+" of flighting of the vertical beaters is reversed to provide an even spread pattern. Unlike conventional vertical beater manure spreaders that will have a lighter area of material in the center, the **PATENTED** reverse flighting spreads material into the center of the spread pattern, thus creating an even, uniform spread pattern.



DUAL APRON GEARBOXES

The dual apron drive gearboxes (F) on each side offer heavier outputs than the competition to provide strength and long life!

PTO SHAFT

The heavy-duty constant velocity PTO allows for a tighter turning radius.

Color coded heavy-duty hydraulic hose couplers allow you to correctly hook to the proper tractor remotes.





GUILLOTINE ENDGATE

The guillotine endgate is able to be adjusted to any position to meter the amount of material that is able to be moved to the beaters by the variable speed apron chain. This combination provides a consistent flow of material, whether it's pen pack or semi-solids.

EASY BEATER REMOVAL

The beater assembly can easily be removed from the manure spreader by disconnecting and removing the PTO from underneath the rear of the manure spreader, and removing the frame attaching bolts. Attach a chain to the lifting eyes on the top of the beater assembly and lift the beater assembly out of the guide pin holes.

OPTIONS



REVERSER VALVE PACKAGE

1. Apron lever locked out in the **UNLOAD** position.
2. Apron lever in the **NEUTRAL** position.
3. Lever must be held in the **REVERSE** position to avoid any damage.

This package allows you to reverse the load away from the beater assembly if a foreign object should come in contact with the beaters.



HYDRAULIC ACTUATOR LIGHT COVERS

Light covers close when the guillotine/metering-style endgate is raised for spreading. Keeps lights clean for road travel.

OTHER OPTIONS:

- Electric adjust hydraulic variable speed apron control is available if the tractor is not equipped with a variable speed hydraulic flow control.
- 4-wheel electric-over-hydraulic 15" brakes
- Digi-Star™ Scale System w/NT monitor, GPS, autolog/automatic start/stop function



STRONG HERITAGE

STRONG PEOPLE

STRONGER FUTURE!



WARRANTY: See operator's manual for warranty details and limitations. H&S reserves the right to change its products or the description at any time without notice or obligation.

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