

H&S

HEAVY DUTY MANURE SPREADERS



MODEL 235 AND 270

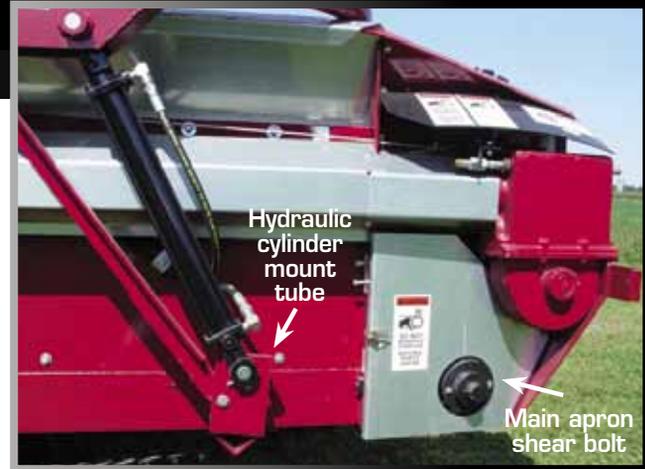


Model 235 - 235 Bushel, Struck level 143 cu. ft.

H&S RUC DEPENDA



The rear pan is optional on all models.



Hydraulic
cylinder
mount
tube

Main apron
shear bolt

UNLOADING SPEED FOR 235 & 270 SPREADERS: (2 speed gear box)

**High speed: PTO speed 540 rpm's
8'9" per minute**

**Low speed: PTO speed 540 rpm's
4'9" per minute**

The drive for the 235 and 270 spreaders utilize the patented H&S 2 speed gear box. Shifting is all done in the enclosed two speed/beater shutoff gear box. The sturdy hydraulic cylinder mount tube extends all the way through the frame to the other side.



The side flares on all H&S "Heavy Duty" manure spreaders are made of 10 gauge G210 culvert grade galvanized steel.

**Model 207 -
270 Bushel,
Struck level 167 cu. ft.**

MODEL 310

LOGGED ABILITY

Front splash guard is standard equipment on all heavy duty models.



Model 310 - 310 Bushel, Struck level 185 cu. ft.



H&S spreaders have a massive unitized welded frame with heavy floor supports and side stakes, wrap around steel front corners. Strong rear main beater side panels are slanted for clearance and wider spread, and then welded to the strong 5" U channel side members. Compare with any on the market.

There's A Size To Fit Ev



Sides, front panel and both sides of the rear hydraulic end gate on 235 - 430 use fiberglass reinforced plywood to provide for easy cleaning and minimal freeze up. The 235 and 270 models feature a plastic coated plywood floor, while the H&S 310, 370 and 430 models have a solid virgin grade poly floor. Considerably less torque is needed to move a heavy load with both styles of floors.



Models 235-430 can be equipped with the optional top beater to provide load leveling and spreading of high heaped loads.



The two-speed apron drive is standard equipment on Models 235-430. An optional variable speed hydraulic drive is also available.



H&S Sp...
29" dia...
beater p...
paddles...
ripper ty...
beater s...
equipme

MODEL 370

Greasable bearings on all models.

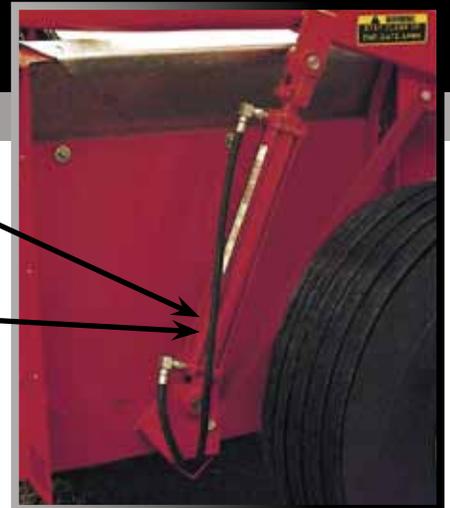


Model 370 - 370 Bushel, Struck level 235 cu. ft.

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A semi-liquid hydraulic end gate is standard equipment on all models. A second hydraulic endgate cylinder is standard on the 370, 430, 560 and 660.

An optional second hydraulic end gate cylinder is available for the 235, 270 and 310. 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.



t Every Farm

UNLOADING SPEED FOR 310, 370 AND 430 SPREADERS:
(2 speed chain drive)

High speed: PTO speed 540 rpm's • 8'8½" per minute

Low speed: PTO speed 540 rpm's • 4'8½" per minute



H&S Spreaders models 235-430 all have 29" diameter beater with 14 replaceable beater paddles. The beater has two types of paddles, blunt for widespread and sharp ripper type for cutting and shredding. The beater side wiper blades are also standard equipment on Models 235-430.



An optional variable speed hydraulic drive is also available.

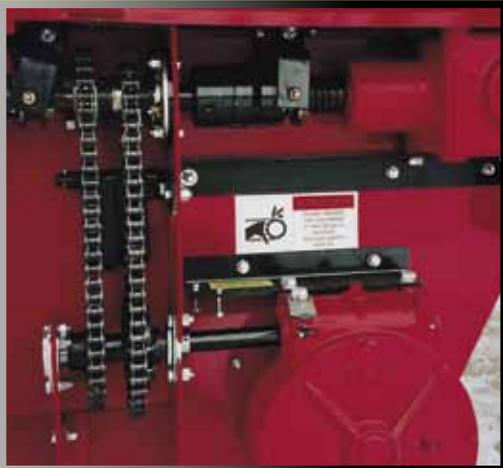
MODEL 430 & 430W

Model 430 -
430 Bushel,
Struck level 275 cu. ft.



Model 430W -
430 Bushel, Struck
level 275 cu. ft.

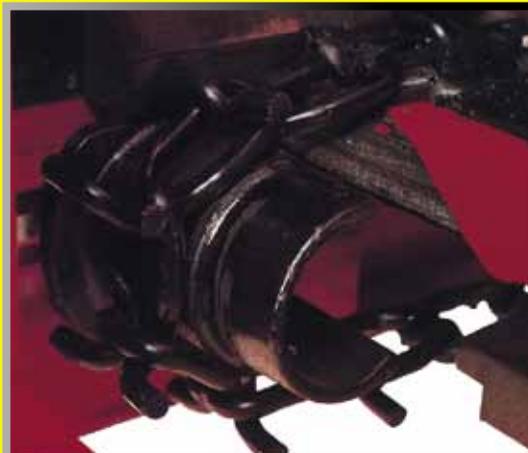
The W430 (western) has all the same features as the 430 with additional features such as double main frame channels, additional floor supports, 1045 hardened drive shaft, #80 drive chain and a heavy duty main gear box.



Gear box mechanisms and drive for the beater and apron of Models 310, 370 and 430 are Timken tapered roller bearing equipped. The beater drive gear box is 1-1 1/2 bevel gear oil bath equipped with a 4-jaw over running clutch for beater shut off. The apron drive is a 50:1 bronze worm gear with shear bolt protection.



The strong oil bath bevel gear box that powers the beater is tapered Timken roller bearing equipped. Also shown is the replaceable splined hub that welds into the main beater tube. The gear box utilizes a 4-jaw beater shut off clutch and tractor sized spline shaft.



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

H&S DESIGN AND GUARANTEES LONGER

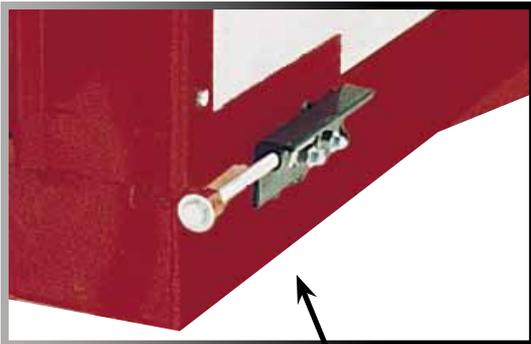


The 560 features 425x22.5 used truck tires with 8000 lbs. hubs.

The 560 and 660 manure spreaders feature a heavy duty 7" structural steel channel iron frame with a double channel iron pole for superior strength and comes standard with variable speed hydraulic drive and constant velocity PTO.



The
pro
hub



Adjustment for the main apron is easy, by simply loosening the two side bolts and drawing up the long bolt.

A rear side hinged door on the beater drive allows easy access for servicing and adjustment of the spring loaded tighteners. A heavy duty worm drive gear box, chain reduction, and a four jaw override beater clutch are H&S TOUGH!



The box of the 560 and 660 has a poly floor, T-Bar chain for a spring loaded beater, and coated plywood sides, front, and rear.

60 & 660

D ENGINEERING ER EQUIPMENT LIFE



The 660 running gear consists of stress proof 3" Diameter Spindles w/12000# hubs and a 4½" stress proof axle pivot.



and 660 spreaders consist of solid virgin grade for a strong double main apron and plastic front, and endgate.



The beater top is standard equipment and both beaters have 18 replaceable blades.

SPECIFICATIONS

| MODEL NUMBER | 235 | 270 | 310 | 370 | 430 & 430W | 560 | 660 |
|-------------------------------------|----------------------------|----------------------------|----------------------------------|----------------------------------|---|----------------------------------|----------------------------------|
| TOP OF FLARE WIDTH | 68" (173 CM) | 68" (173 CM) | 68" (173 CM) | 68" (173 CM) | 68" (173 CM) | 89½" (227 CM) | 89½" (227 CM) |
| INSIDE WIDTH | 60" (152 CM) | 60" (152 CM) | 60" (152 CM) | 60" (152 CM) | 60" (152 CM) | 80" (203 CM) | 80" (203 CM) |
| INSIDE LENGTH | 12'1" (3.7 M) | 14'1" (4.3 M) | 15'7" (4.8 M) | 16'6" (5.1 M) | 16'6" (5.1 M) | 17'5" (5.3 M) | 17'5" (5.3 M) |
| INSIDE DEPTH | 28¾" (72 CM) | 28¾" (72 CM) | 28¾" (72 CM) | 34¾" (87 CM) | 40¾" (102 CM) | 36" (91 CM) | 49" (124 CM) |
| OVERALL WIDTH W/STANDARD TIRES | 94½" (240 CM) | 94½" (240 CM) | 98" (249 CM) | 98" (249 CM) | 112" (285 CM) | 131" (333 CM) | 131" (333 CM) |
| OVERALL LENGTH | 18'6" (5.7 M) | 20'5½" (6.3 M) | 21'11½" (6.7 M) | 23'2½" (7.1 M) | 23'2½" (7.1 M) | 26'10" (10.2 M) | 26'10" (10.2 M) |
| OVERALL LOADING HEIGHT-TOP OF FLARE | 51½" (131 CM) | 51½" (131 CM) | 51½" (131 CM) | 57½" (1.5 M) | 63" (160 CM) | 63½" (161 CM) | 78¾" (200 CM) |
| OVERALL HEIGHT W/HYD. ENDGATE | 55" (140 CM) | 55" (140 CM) | 55" (140 CM) | 61" (1.5 M) | 63½" (161 CM) | 78"* (198 CM) | 83" (211 CM) |
| DIAMETER OF BEATER | 29" (74 CM) | 29" (74 CM) | 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 | T-BAR | T-BAR |
| UPPER BEATER | OPTIONAL | OPTIONAL | OPTIONAL | OPTIONAL | OPTIONAL | STANDARD | STANDARD |
| SPINDLE SIZE | 2" (5 CM) | 2½" (6 CM) | 2¼" (6 CM) | 2½" (6 CM) | 2½" (6 CM) | 3" (8 CM) | 3" (8 CM) |
| STANDARD TIRE SIZE | 11 X 22.5 RECAP | 11 X 22.5 RECAP | 11 X 22.5 RECAP | 11 X 22.5 RECAP | 16.1 X 16.5 | 425 X 22.5 USED TIRE | 425 X 22.5 USED TIRE |
| WEIGHT W/TIRES | 2890 LBS. (1,311 KG) | 3230 LBS. (1,495 KG) | 4190 LBS. (1,901 KG) | 4920 LBS. (2,232 KG) | 430 5220 LBS. (2,332 KG) W430 5500 LBS. (2,495 KG) | 8140 LBS. (3,692 KG) | 9600 LBS. (4,354 KG) |
| CAPACITY - OLD RATING | 235 BU. | 270 BU. | 310 BU. | 370 BU. | 430 BU. | 560 BU. | 660 BU. |
| CAPACITY CU. FT. STRUCK LEVEL | 143 | 167 | 185 | 235 | 275 | 353 | 479 |
| REAR HYDRAULIC ENDGATE | STANDARD | STANDARD | STANDARD | STANDARD | STANDARD | STANDARD | STANDARD |
| SEMI LIQUID REAR PAN | OPTIONAL | OPTIONAL | OPTIONAL | OPTIONAL | OPTIONAL | OPTIONAL | OPTIONAL |
| PTO SPEED | 540 | 540 | 540 STANDARD 1000 OPTIONAL | 540 STANDARD 1000 OPTIONAL | 540 STANDARD 1000 OPTIONAL | 1000 STANDARD 540 OPTIONAL | 1000 STANDARD 540 OPTIONAL |
| JACK | STANDARD | STANDARD | STANDARD | STANDARD | STANDARD | STANDARD | STANDARD |
| DRIVE | 2 SPEED | 2 SPEED | 2 SPEED | 2 SPEED | 2 SPEED | HYD. | HYD. |
| VARIABLE SPEED HYD. DRIVE | OPTIONAL | OPTIONAL | OPTIONAL | OPTIONAL | OPTIONAL | STANDARD | STANDARD |
| FRONT SPLASH PANEL | STANDARD | STANDARD | STANDARD | STANDARD | STANDARD | STANDARD | STANDARD |
| HYD. CYL. ON HYD. ENDGATE | 1-STANDARD 2ND OPTIONAL | 1-STANDARD 2ND OPTIONAL | 1-STANDARD 2ND OPTIONAL | 2 | 2 | 2 | 2 |

* Overall height on the Model 560 is the height to the top beater.

Warranty: See operators 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.



Manufactured in U.S.A.



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Models and specifications are subject to change without prior notice.

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