

FORAGE BOXES



QUALITY - TESTED - PROVEN - DURABLE!

XTRACAP forage boxes are available in 17', 19', and 21' lengths with a chain or twin auger cross-conveyor unload system.

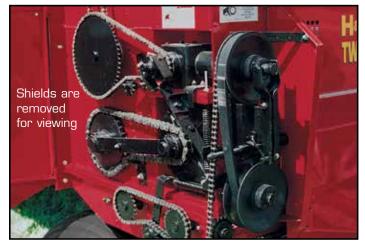


H&S uses three – 18" 4 bar H.D. spiral type beaters – not augers. Aggressive in handling tough material, they are even feeding. All three beaters are mounted in the head, not auxiliary panels in the box. Beater shafts are 11/4" equipped with greasable bearings.

H&S utilizes a deep stagger beater design. The beaters turn progressively faster from top to bottom. The slow turning top beater does not pitch chunks forward, it undercuts the heap and feeds tough material down where the bottom beaters go to work delivering a smooth even flow to the cross conveyor.

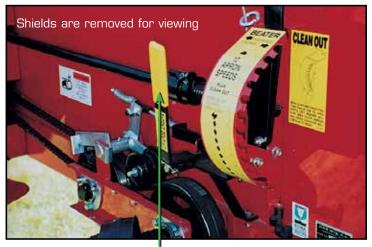
The cross conveyor is 22" wide and is equipped with 550 roller chain. The cross conveyor extends 12" beyond the side of the head. An optional 12" or 24" folding cross conveyor extension is available for apron unload models.

RAGE BOXES



A simple trouble-free variable speed drive lets you match just the right unload speed to the crop type, load condition and blower capacity. A bronze worm gear is standard.

#80 drive chain drives the main apron drive shaft.



A separate dual belt drive clutch allows you to start and clear the beaters before you start the main apron conveyors. The HD clutch can be used to engage just the cross conveyor, the cross conveyor and beaters, or the cross conveyor, beaters and main floor apron in any speed.

The emergency stop mechanism is built into the drive unit and can be activated from the front, sides or rear of the box.

TRANSPORT LIGHTS

are standard on all H&S boxes.



The light configuration on front unload boxes.



The light configuration for rear unload boxes.



The front hydraulic drive is optional.



The twin augers extend 11" beyond the side of the head. A built in auger extension is standard and eliminates spillage between box and blower.



The twin auger utilizes two – 10" high speed cross augers equipped with hold-downs and wipers. The auger housings are poly-lined to reduce build-up.

MODEL - FLOOR/LOAD LENGTH	17'	19'	21′
CAPACITY W/ROOF - ASAE STANDARD	939 FT³	1051 FT ³	1163 FT³
INSIDE WIDTH		7'4" (ALL MODELS)	
INSIDE HEIGHT (floor to roof)	99"	99"	99"
OVERALL LENGTH	20'3"	22'3"	24'3"
OVERALL WIDTH		107" (ALL MODELS)	
OVERALL HEIGHT (bolster to roof)	120"	120"	120"
WEIGHT HD 7+4	4550#	4950#	5350#
WEIGHT HD TWIN AUGER	4600#	5000#	5400#
T-ROD MAIN APRON CHAIN (standard)	4 – 16,000# TENSILE — 64,000# COMBINED TENSILE		
667H PINTLE CHAIN	4 – 10,000# TENSILE — 40,000# COMBINED TENSILE		
CROSS FEED - HD 7+4	22" WIDE – CA550 CHAIN WITH WELDED SLATS / LEFT HAND DISCHARGE		
CROSS FEED — HD TWIN AUGER	2 – 10" SIDE BY SIDE AUGERS • EQUIPPED WITH ADJUSTABLE HOLD-DOWNS • 22" WIDE • LEFT HAND ONLY		
UNLOADING BEATERS	3 – 18" – 4 BAR SPIRAL — EVEN FEED		
DRIVE SEQUENCE	H&S BRONZE WORM GEAR BOX • #80 ROLLER CHAIN		
POWER SOURCE	540 PTO OR HYDRAULIC DRIVE		
EMERGENCY STOP CLUTCH	STANDARD		
OPTIONS	12" or 24" FOLDING BUNK EXTENSION FOR HD 7+4 MODELS		
Transport lights and hold down kits are standard equipment on all boxes			

UNLOAD FORAGE BOXES

Front and rear unload forage boxes are availble with a chain or twin auger cross-conveyor unload system.



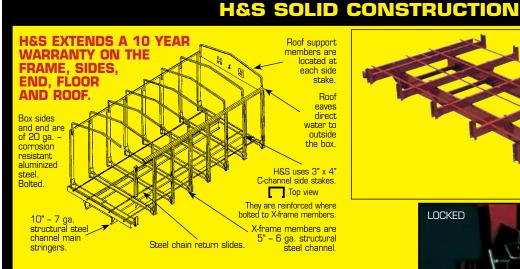
SWITCH FROM FRONT TO REAR **QUICKLY & EASILY BY PLACING A** SINGLE PIN.

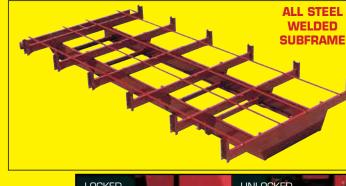


The HD 7+4 front and rear unload boxes have the option of being ordered with P.T.O. rear drive or hydraulic rear drive. The HD Twin Auger front and rear unload boxes come with hydraulic rear drive only.



To switch to rear unload simply remove the drive lock pin from the front and insert it into the rear apron drive sprocket. A three shaft system (drive, tightener and idler shafts) maintain proper chain tension and positive drive.







When being used as a front unload box, the drive lock pin is locked into the main apron drive sprocket.

Once the tailgate safety lock is released, the selflocking mechanism unlocks automatically while unloading and locks shut when the tailgate closes.

MODEL – FLOOR/LOAD LENGTH	17'	19'	21′
CAPACITY W/ROOF	960 FT ³	1072 FT ³	1184 FT ³
MAIN APRON CHAIN	667H PINTLE – 10,000# X 4	667X PINTLE	- 21,000 X 4
REAR UNLOAD DRIVE		HYDRAULIC	
REAR UNLOAD SPEED	UNLOAD TIME IS DEPEND	DENT ON TRACTOR R.P.M., HYDRAUL	IC PRESSURE AND G.P.M.
REAR ENDGATE	AUTOMATIC LOCK AND UNLOCK		

POWER BOX

18' and 20' rear unload power boxes are available in either trailer or truck mount.

H&S engineered this box for bulk hauling and unloading in bunk or pit storage facilities. Available in trailer or truck mounts.





The heavy duty tailgate is constructed to stand up to the pounding of heavy loads. High pivot points assure crop clearance while unloading.



The H&S power box is hydraulically driven. Unload time is dependent on tractor R.P.M., hydraulic pressure, and G.P.M.

MODEL - FLOOR/LOAD LENGTH	18'	20'	
CAPACITY W/ROOF	994 FT³	1106 FT ³	
INSIDE WIDTH	7'4" (BOTH	H MODELS)	
OVERALL LENGTH	19'6"	21'6"	
OVERALL WIDTH	104"	104"	
OVERALL HEIGHT	118"	118"	
WEIGHT	3650#	4050#	
MAIN APRON CHAIN	667H PINTLE – 10,000# X 4 IS STANDARD — 16,000# X 4 T-ROD IS OPTIONAL		
MAIN APRON DRIVE	HYDRAULIC		
UNLOAD SPEED	UNLOAD TIME IS DEPENDENT ON TRACTOR R.P.M., HYDRAULIC PRESSURE AND G.P.M.		
REAR ENDGATE	AUTOMATIC LOCK AND UNLOCK		

H&S RECOMMENDS 4 WHEEL GEARS FOR USE UNDER POWER BOXES.

HDNR FORAGE BOXES

"HDNR" Forage Boxes are available in either HD 7+4 or HD Twin Auger front unload systems w/PTO or Hydraulic Drive







On all rear unload boxes, once the tailgate safety lock is released, the self-locking mechanism unlocks automatically while unloading and locks shut when the tailgate closes.

HDNR forage box frames feature heavy 5" channel cross members and 2.5" x 2.5" side stakes.



A separate clutch allows you to start and clear the cross conveyor or augers before you start the beaters or main apron conveyors.

A simple trouble-free variable speed drive lets you match just the right unload speed to the crop type, load condition and blower capacity.



H&S uses three – 18" 4 bar H.D. spiral type beaters – not augers. Aggressive in handling tough material, they are even feeding. All three beaters are mounted in the head, not auxiliary panels in the box. Beater shafts are 11/4" & equipped with greasable bearings.

7+4 & TWIN AUGER



Aluminized front & rear unload industrial box with optional grain hopper, front enclosure and fold down extension.



The power box features a chain reduction system instead of a worm gearbox for better efficiency.



An optional grain hopper gravity unload for small grains is available for HDNR boxes with a top hinged gate.



The optional front-to-rear electric roll tarp is a nice feature to keep that valuable forage from blowing out during transport.



All HDNR Power Boxes feature Cross Z-iron. Cross Z's are welded to the side channels in-line with stakes for added strength.



An optional 12" or 24" folding cross conveyor extension can be ordered on the HDNR 7+4.

MODEL - FLOOR/LOAD LENGTH	18′	20'	22'
INSIDE WIDTH	7′ 4″	7′ 4″	7′ 4″
INSIDE HEIGHT (floor to top of side)	86"	86"	86"
INSIDE LENGTH	18'	20'	22'
OVERALL WIDTH	108"	108"	108"
OVERALL LENGTH - FRONT AND REAR	21′ 6″	23′ 6″	25′ 6″
STANDARD BOX SIDE HEIGHT	106"	106"	106"
STANDARD BOX OVERALL HEIGHT AT TOP PIVOTS DOOR	121"	121"	121"
FRONT & REAR UNLOAD BOX CAPACITY	933 CU. FT.	1038 CU. FT.	1143 CU. FT.
WEIGHT – FRONT & REAR UNLOAD BOX	7700#	8160#	8620#
APRON CHAIN — FRONT & REAR UNLOAD BOX	667H PINTLE CHAIN - STANDARD 667X & 667XH - OPTIONAL 667H - OPTIONAL		
CROSS FEED – HD 7+4	22" WIDE – CA550 CHAIN WITH WELDED SLATS • LEFT HAND DISCHARGE		
CROSS FEED – HD TWIN AUGER	2 – 10" SIDE BY SIDE AUGERS WITH ADJUSTABLE DISCHARGE CHUTE / 22" WIDE — LEFT HAND ONLY		
UNLOADING BEATERS	3 – 18" – 4 BAR SPIRAL — EVEN FEED		
MAIN APRON SPEED	VARIABLE SPEED DRIVE — 12 UNLOAD SPEEDS		
FRONT DRIVE SEQUENCE	BRONZE WORM GEAR BOX — #80 ROLLER CHAIN		
POWER SOURCE	540 PTO OR HYDRAULIC DRIVE		
EMERGENCY STOP CLUTCH	STANDARD		
REAR UNLOAD DRIVE	HYDRAULIC		
REAR UNLOAD SPEED	UNLOAD TIME IS DEPENDENT ON TRACTOR RPM, HYDRAULIC PRESSURE AND GPM		
REAR ENDGATE	AUTOMATIC LOCK AND UNLOCK		
ROOF	OPTIONAL OPTIONAL OPTIONAL		
REAR GATE DELAY	OPTIONAL	OPTIONAL	OPTIONAL

Available w/PTO Drive, Hydraulic Drive, or Electric-Over-Hydraulic Cab Controls



PTO & Hydraulic Drive Models feature a variable speed drive pulley system

PTO DRIVE SYSTEM



A separate clutch allows you to start and clear the cross conveyor or augers before you start the beaters or main apron conveyors.

HYDRAULIC DRIVE SYSTEM



A simple trouble-free variable speed drive lets you match just the right unload speed to the crop type, load condition and blower capacity.





On all rear unload boxes, once the tailgate safety lock is released, the self-locking mechanism unlocks automatically while unloading and locks shut when the tailgate closes.



The rear unload drive system utilizes a quick change pin system on all Super Duty forage boxes.



All Super Duty Forage Boxes feature Cross Z-iron. Cross Z's are welded to the side channels in-line with stakes for added strength.

Super Duty Features:



Optional 4th Beater H&S uses three – 18" 4 bar H.D. spiral type beaters – not augers. Aggressive in handling tough material, they are even feeding. All three beaters are mounted in the head, not auxiliary panels in the box. Beater shafts are 11/4" & equipped with greasable bearings.

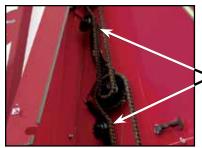
All models feature a bunk extension as standard equipment

Strong Main Gearbox w/Large Bearings

Spring Loaded Tighteners on Beaters

13/4" Stressproof Drive Shafts Heavy Drive Chains

Quick Release Cross Conveyor Clean Out Pan





Electric-Over-Hydraulic Drive System



-NO BELTS OR PULLEYS-



Hydraulic Valves with a Variable Speed High/Low Main Apron Uload System and Control Box.



The Electric-Over-Hydraulic Models have a 24" Hydraulic Extend/Retract Bunk Extension.

OPTIONAL FEATURES



An optional grain hopper gravity unload for small grains is available for Super Duty boxes with a top hinged gate.



The optional front-torear or side-to-side electric roll tarps keep valuable forage from blowing out during transport.

MODEL - FLOOR/LOAD LENGTH	22'	24'	26′	
INSIDE WIDTH	7' 4"	7' 4"	7' 4"	
INSIDE HEIGHT (FLOOR TO TOP OF SIDE)	86"	86"	86"	
INSIDE LENGTH	22'	24'	26'	
OVERALL WIDTH W/EXTENSION	109"	109"	109"	
OVERALL LENGTH	26' 6"	28' 6"	30' 6"	
STANDARD BOX SIDE HEIGHT	106"	106"	106"	
STANDARD BOX OVERALL HEIGHT AT TOP PIVOTS DOOR	121"	121"	121"	
FRONT & REAR UNLOAD BOX CAPACITY	1143 CU. FT.	1248 CU. FT.	1353 CU. FT.	
WEIGHT – FRONT & REAR UNLOAD BOX	9065# 9510# 9955#			
APRON CHAIN — FRONT & REAR UNLOAD BOX	667XH - STANDARD			
CROSS FEED – HD 7+4	22" WIDE — CA550 CHAIN WITH WELDED SLATS • LEFT HAND DISCHARGE			
UNLOADING BEATERS	3 – 18" – 4 BAR SPIRAL • EVEN FEED			
FRONT DRIVE SEQUENCE	LARGE GEAR BOX WITH TAPERED BEARINGS & BRONZE WORM GEAR #100 ROLLER CHAIN • 134" MAIN APRON DRIVE SHAFT			
EMERGENCY STOP CLUTCH	STANDARD			
REAR UNLOAD DRIVE	HYDRAULIC			
REAR UNLOAD SPEED	UNLOAD TIME IS DEPENDENT ON TRACTOR RPM, HYDRAULIC PRESSURE AND GPM			
REAR ENDGATE	AUTOMATIC LOCK AND UNLOCK			
ROOF	OPTIONAL	OPTIONAL	OPTIONAL	
REAR GATE DELAY	OPTIONAL	OPTIONAL	OPTIONAL	



WIDE BODY

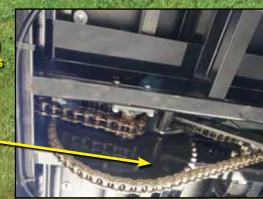


Cross Z-iron's are welded to the side channels in-line with stakes for added strength.



The patented hydraulic center mount drive on all Wide Body Boxes provides smooth trouble-free operation.

Spring-loaded tighteners are on the main apron drive for less stress on the main aprons upon engagement.



18'-26' MODELS ARE STANDARD WITH THE H&S PATENTED CENTER DRIVE SYSTEM

FORAGE BOXES



Fiberglass Reinforced Plywood Wide Body™ Box available in 22', 24' and 26' lengths.

Aluminized Wide Body™ Box available in 18', 20' and 22' lengths.

DOOR OPTIONS

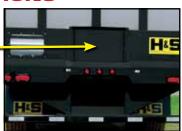
The H&S Wide Body Box offers a choice of double barn doors with an air or hydraulic closure, or a **top hinged door** with air or hydraulic delay system.



WIDE BODY OPTIONS



An optional gravity unload grain hopper with flow control for grain is available for wide body boxes with a top hinged gate.



MODEL - FLOOR/LOAD LENGTH	18'	20'	22'	24'	26'
INSIDE WIDTH	96"	96"	96"	96"	96"
INSIDE HEIGHT (FLOOR TO TOP OF SIDE)	86"	86"	86"	86"	86"
INSIDE LENGTH	18'	20'	22'	24'	26'
OVERALL LENGTH	18′ 9″	20′ 9″	22′ 9″	24′ 9″	26′ 9″
OVERALL WIDTH	102"	102"	102"	102"	102"
SIDE HEIGHT WITH 5" STRINGERS	1011/2"	1011/2"	1011/2"	1011/2"	1011/2"
OVERALL HEIGHT WITH 5" STRINGERS	111"	111"	111"	111"	111"
STANDARD BOX CAPACITY STRUCK LEVEL	1011 CU. FT.	1126 CU. FT.	1241 CU. FT.	1355 CU. FT.	1470 CU. FT.
WEIGHT – STANDARD BOX	6300#	6750#	7100# / 7350#	7958#	8550#
BOX MATERIAL	ALUMINUM	ALUMINUM	ALUMINUM/FRP	FIBERGLASS REINFORCED PLYWOOD (FRP)	FIBERGLASS REINFORCED PLYWOOD (FRP)
MAIN APRON CHAIN	T-ROD - STANDARD/667XH OR 667X - OPTIONAL 667XH - STANDARD				
MAIN APRON DRIVE	HYDRAULIC				
UNLOAD SPEED	UNLOAD TIME IS DEPENDENT ON TRACTOR RPM, HYDRAULIC PRESSURE AND GPM				
REAR ENDGATE	AUTOMATIC LOCK AND UNLOCK WITH AIR OR HYDRAULIC GATE DELAY				

1100 SERIES BIG

BIG DOG TRUCK MOUNT*







An optional gravity unload grain hopper for grain is available for BIG DOG and TOP DOG forage boxes with a top hinged gate.

The optional front-to-rear, or side-to-side electric roll tarp is a nice feature to keep that valuable forage from blowing out during transport.



DOG FORAGE BOXES

BIG DOG CHASSIS MOUNT*



MODEL - FLOOR/LOAD LENGTH	
CAPACITY - STRUCK LEVEL	1477 CU. FT.
BOX WEIGHT	N/A
INSIDE LENGTH	26'
INSIDE WIDTH	98"
INSIDE HEIGHT	86"
OVERALL LENGTH	27' 7"
OVERALL WIDTH	102"
OVERALL HEIGHT INCLUDING TAILGATE WITH 5" STRINGERS	114"
SIDE HEIGHT WITH 5" STRINGERS	101½"
DRIVE SYSTEM	DUAL HYDRAULIC MOTORS
FINAL DRIVE SYSTEM	DUAL FINAL DRIVE W/OIL BATH AND SPRING LOADED TIGHTENER
MAIN APRON CHAIN & SLATS	PL88C OPEN BARREL PINTLE 2" X 1" X 3/16" FORMED APRON CHANNELS
REAR DRIVE SHAFT	21⁄4" 1045 STEEL
FRONT IDLER SHAFT	13/4" 1045 STEEL
UPRIGHTS	2" X 2" X 3/16" TUBULAR STEEL SET ON 16" CENTERS
UNLOAD TIME	DEPENDENT ON TRACTOR HYDRAULIC SYSTEM & GPM'S
WALL MATERIAL	STAINLESS STEEL
FLOOR MATERIAL	VIRGIN GRADE POLY
AIR GATE DELAY SYSTEM	STANDARD
REAR DOOR LATCHING	AUTOMATIC
FRONT WINDOW	17" X 28"
LIGHTS	LED
CUSTOMER FARM NAME	STANDARD

OPTIONS		
BARN DOORS	OPTIONAL	
GRAIN KIT - TOP PIVOT DOOR ONLY	OPTIONAL	
VARIABLE SPEED FLOW CONTROL	OPTIONAL	
ELECTRIC FRONT TO BACK SCISSOR TARP	OPTIONAL	
ELECTRIC SIDE TO SIDE ROLL TARP	OPTIONAL	
ROOF HOOD	OPTIONAL	



* The 1100 series BIG DOG models feature the same top screen package w/fold-down front as the 1100 series TOP DOG (see TOP DOG photos on the next page) New BIG DOG photos were not available at time of print.

1100 SERIES TOP



DOG FORAGE BOXES

16 Gauge Stainless Steel Sides

The **PL88C OPEN BARREL** main apron pintle chain @ 29,900# per strand stays flexible. 2"x1"x3/16" formed apron channels are used for the apron cross bars. The floor is ½" thick virgin grade solid poly. A stainless steel center between aprons that is formed to eliminate any feed build-up for a complete clean out.







The standard Air Gate Delay for the Top Pivot Door allows you to clean the box out completely without material hanging up. Barn doors with air closure are optional.



Large 1" steel hydraulic lines to the back of the box drive the **DUAL HYDRAULIC MOTORS** evenly for more power and less shaft stress than a single motor system.

TIRES/RIMS OPTIONS:

MODEL - FLOOR/LOAD LENGTH	1136	1140		
CAPACITY - STRUCK LEVEL	1761 CU. FT. w/o EXT 2050 CU. FT. w/EXT.	1960 CU. FT. w/o EXT 2286 CU. FT. w/EXT		
BOX WEIGHT	18,240 LBS.	20,270 LBS.		
INSIDE LENGTH	36′	40'		
INSIDE WIDTH	98"	98"		
INSIDE HEIGHT	86"	86"		
OVERALL LENGTH	37′ 7″	41′ 7″		
OVERALL WIDTH	102"	102"		
HEIGHT INCLUDING TAILGATE	13′ 5″	13′ 5″		
SIDE HEIGHT	12′ 5″	12′ 5″		
DRIVE SYSTEM	DUAL HYDRAI	JLIC MOTORS		
FINAL DRIVE SYSTEM	DUAL FINAL DRIVE W/OIL BATH AND SPRING LOADED TIGHTENER			
MAIN APRON CHAIN & SLATS	PL88C OPEN BARREL PINTLE 2" X 1" X 3/16" FORMED APRON CHANNELS			
REAR DRIVE SHAFT	21/4" 1045 STEEL			
FRONT IDLER SHAFT	134" 1045 STEEL			
UPRIGHTS	2" X 2" X 3/16" TUBULAR STEEL SET ON 16" CENTERS			
UNLOAD TIME	DEPENDENT ON TRACTOR HYDRAULIC SYSTEM & GPM'S			
WALL MATERIAL	STAINLESS STEEL			
FLOOR MATERIAL	VIRGIN GRADE POLY			
AIR GATE DELAY SYSTEM	STAN	STANDARD		
REAR DOOR LATCHING	AUTO	AUTOMATIC		
FRONT WINDOW	17" X 28"			
LIGHTS	LED			
CUSTOMER FARM NAME	STANDARD			
	AXLES/SUSPENSIONS/TIRES/RIMS			
AXLES	NEW 25,000# AXLE'S WITH HEAVY DUTY SPINDLES			
SUSPENSION SYSTEM:	SPRING			
	• 11.00 X 22.5 TIRES ON PA • 11.00 X 22.5 TIRES ON D	INTED DUAL STEEL WHEELS IUAL ALUMINUM WHEELS		

• 425/65R 22.5 TIRES ON ALUMINUM SUPER SINGLE WHEELS

425/65R 22.5 TIRES ON STEEL SUPER SINGLE WHEELS
 455/55R 22.5 TIRES ON ALUMINUM SUPER SINGLE WHEELS
 455/55R 22.5 TIRES ON STEEL SUPER SINGLE WHEELS

STRONG HERITAGE STRONG PEOPLE STRONGER FUTURE!

For over 50 years, H&S Manufacturing has made life better. Our team is committed to building long-lasting relationships and high performance machinery. As we continue to grow and move forward we want you to farm smarter with our most reliable and innovative farming equipment.

H&S is proud to be American Made!







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.

Models and specifications are subject to change without prior notice.

11/18 3M



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